

PCTEST ENGINEERING LABORATORY, INC.

18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.410.290.6652 / Fax +1.410.290.6654 http://www.pctest.com



SAR EVALUATION REPORT

Applicant Name: Apple, Inc. One Apple Park Way Cupertino, CA 95014 **Date of Testing:** 07/05/18 - 07/30/18 **Test Site/Location:**

PCTEST Lab, Morgan Hill, CA, USA

Document Serial No.: 1C1806040007-01-R2.BCG

FCC ID: BCG-A2008

APPLICANT: APPLE, INC.

DUT Type: Watch
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: A2008

Equipment	Band & Mode	Tx Frequency	SAR		
Class Band & Mode		TATTOQUOTICS	1g Head (W/kg)	10g Extremity (W/kg)	
TNT	UMTS 850	826.40 - 846.60 MHz	< 0.1	0.31	
TNT	LTE Band 5 (Cell)	824.7 - 848.3 MHz	< 0.1	0.22	
TNT	LTE Band 26 (Cell)	814.7 - 848.3 MHz	< 0.1	0.22	
TNT	LTE Band 7	2502.5 - 2567.5 MHz	0.36	0.17	
TNT	LTE Band 41	2498.5 - 2687.5 MHz	0.27	< 0.1	
DTS	2.4 GHz WLAN	2412 - 2472 MHz	0.14	0.11	
DSS/DTS	Bluetooth	2402 - 2480 MHz	0.10 < 0.1		
Simultaneou	s SAR per KDB 690783 D	0.50	0.42		

Note: This revised Test Report (S/N: 1C1806040007-01-R2.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.8 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.







The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfai.info.

FCC ID: BCG-A2008	PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 4 -6 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 1 of 50

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TABLE OF CONTENTS

1	DEVICE UNDER TEST					
2	LTE INF	ORMATION	7			
3	INTROD	UCTION	8			
4	DOSIMETRIC ASSESSMENT					
5	TEST C	ONFIGURATION POSITIONS	10			
6	RF EXP	OSURE LIMITS	11			
7	FCC ME	ASUREMENT PROCEDURES	12			
8	RF CON	DUCTED POWERS	16			
9	SYSTEM	/I VERIFICATION	31			
10	SAR DA	TA SUMMARY	33			
11	FCC MU	ILTI-TX AND ANTENNA SAR CONSIDERATIONS	42			
12	SAR ME	ASUREMENT VARIABILITY	45			
13	EQUIPM	IENT LIST	46			
14	MEASU	REMENT UNCERTAINTIES	47			
15	CONCLU	JSION	48			
16	REFERE	ENCES	49			
APPEI APPEI	NDIX A: NDIX B: NDIX C: NDIX D:	SAR TEST PLOTS SAR DIPOLE VERIFICATION PLOTS PROBE AND DIPOLE CALIBRATION CERTIFICATES SAR TISSUE SPECIFICATIONS				
APPEI	NDIX E:	SAR SYSTEM VALIDATION				
APPEI	PPENDIX F: DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS					

FCC ID: BCG-A2008	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates: DUT Type:		D 0 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 2 of 50
18 PCTEST Engineering Laboratory, Inc.			REV 20.11 M

1 DEVICE UNDER TEST

1.1 Device Overview

Table 1-1 Summary EUT Bands/Modes

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Voice/Data	826.40 - 846.60 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz

1.2 Power Reduction for SAR

There is no power reduction used for any band/mode implemented in this device for SAR purposes.

1.3 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v06.

1.3.1 Maximum Output Power

Table 1.3.1
Summary Max Conducted Powers – UMTS Mode

		Modulated Average (dBm)			
Mode / Band			3GPP	3GPP	3GPP
		WCDMA	HSDPA	HSUPA	
	LIMTS Dand F (OFO MILT)	Maximum	25.0	25.0	24.0
	UMTS Band 5 (850 MHz)	Nominal	24.0	24.0	23.0

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 0 -4 50
1C1806040007-01-R2.BCG 07/05/18 - 07/30/18		Watch	Page 3 of 50

© 2018 PCTEST Engineering Laboratory, Inc.

Table 1.3.2 Summary Max Conducted Powers - LTE FDD Mode

Mode / Band	Modulated Average	
Wiode / Ballu	(dBm)	
LTE Pand E (Call)	Maximum	25.0
LTE Band 5 (Cell)	Nominal	24.0
LTE Band 26 (Call)	Maximum	25.0
LTE Band 26 (Cell)	Nominal	24.0
LTE Band 7	Maximum	22.5
LIE Ballu /	Nominal	21.5

Table 1.3.3 Summary Max Conducted Powers – LTE TDD Mode

	iai y ilian Golladi	Stea Towers ETE IDD Mode
Mode / Band		Modulated Average
ivioue / Bariu		(dBm)
LTE Band 41 (2496-2530	Maximum	22.15
MHz)	Nominal	21.40
LTE Band 41 (2530-2690	Maximum	22.75
MHz)	Nominal	22.00

Table 1.3.4 Summary Max Conducted Powers – WiFi Mode

Mode / Band		Modulated Ave (dBm)	erage		
	Ch.1, 11	Ch.2-10	Ch.12	Ch.13	
IEEE 802.11b (2.4 GHz)	Maximum	19.0	19.0	19.0	18.0
IEEE 802.11g (2.4 GHz) Maximum		17.5	18.5	15.0	7.0
IEEE 802.11n (2.4 GHz)	Maximum	17.5	18.5	15.0	7.0

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 4 of 50
18 PCTEST Engineering Laboratory, Inc.	REV 20.11 M		

Table 1.3.5 Summary Max Conducted Powers - Bluetooth Mode

Mode / Band		Modulated Average (dBm)
Bluetooth BDR (ePA)	Maximum	18.0
Bluetooth BDR (iPA)	Maximum	13.0
Bluetooth EDR (ePA)	Maximum	14.0
Bluetooth EDR (iPA)	Maximum	10.0
Bluetooth LE (ePA)	Maximum	18.0
Bluetooth LE (iPA)	Maximum	13.0
Bluetooth HDR (ePA)	Maximum	10.5
Bluetooth HDR (iPA)	Maximum	10.0

1.4 **DUT Antenna Locations**

A diagram showing the location of the device antennas can be found in Appendix F.

1.5 **Near Field Communications (NFC) Antenna**

This DUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in Appendix F.

1.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06 4.3.2 procedures.

Table 1-2 Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Head	Extremity
1	UMTS + 2.4 GHz WI-FI	Yes	Yes
2	UMTS + 2.4 GHz Bluetooth	Yes	Yes
3	LTE + 2.4 GHz WI-FI	Yes	Yes
4	LTE + 2.4 GHz Bluetooth	Yes	Yes

- 1. 2.4 GHz WLAN, and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
- 2. All licensed modes share the same antenna path and cannot transmit simultaneously.
- 3. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN scenario.
- 4. This device supports VOWIFI and VOLTE.

FCC ID: BCG-A2008	PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 5 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 5 of 50

1.7 Miscellaneous SAR Test Considerations

(A) Licensed Transmitter(s)

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r04. This device is limited to 27 RB on the uplink for 16QAM modulation. Additional measurements were evaluated to support SAR test exclusion for 16QAM as described in Section 7.5.4.

(B) WIFI

This device supports channel 1-13 for 2.4 GHz WLAN. However, due to the reduced output power for channels 12 and 13, channels 1, 6, and 11 were considered for SAR testing per KDB 248227 D01v02r02.

1.8 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r04, D06v02r01 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance, Wrist-worn Device Guidance)

1.9 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 10.

1.10 Device Housing Types and Wristband Types

This device has two housing types that were evaluated independently for SAR: Aluminum and Stainless Steel. The device can also be used with different wristband accessories. The non-metallic wrist accessory, sport band, was evaluated for all exposure conditions. The available metallic wrist accessories, metal links band and metal loop band, were additionally evaluated.

FCC ID: BCG-A2008	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Domo C of FO
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 6 of 50

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LTE INFORMATION

	L	TE Information			
FCC ID			BCG-A2008		
Form Factor			Watch		
Frequency Range of each LTE transmission band		LTE Ba	nd 5 (Cell) (824.7 - 848	.3 MHz)	
		LTE Bar	nd 26 (Cell) (814.7 - 848	8.3 MHz)	
		LTE E	Band 7 (2502.5 - 2567.5	5 MHz)	
		LTE B	and 41 (2498.5 - 2687.5	5 MHz)	
Channel Bandwidths		LTE Band 5 (0	Cell): 1.4 MHz, 3 MHz, 5	5 MHz, 10 MHz	
		LTE Band 26 (Cell): 1.4 MHz, 3 MHz,	5 MHz, 10 MHz	
		LTE Band 7	7: 5 MHz, 10 MHz, 15 M	IHz, 20 MHz	
		LTE Band 4	1: 5 MHz, 10 MHz, 15 N	MHz, 20 MHz	
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 5 (Cell): 1.4 MHz	824.7	(20407)	836.5 (20525)	848.3 ((20643)
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)	847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)	846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	829 (20450)		836.5 (20525)	844 (20600)	
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)		831.5 (26865)	848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (26705)		831.5 (26865)	847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (26715)		831.5 (26865)	846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (26740)		831.5 (26865)	844 (26990)	
LTE Band 7: 5 MHz	2502.5	(20775)	2535 (21100)	2567.5 (21425)	
LTE Band 7: 10 MHz	2505	(20800)	2535 (21100)	2565 (21400)	
LTE Band 7: 15 MHz	2507.5	(20825)	2535 (21100)	2562.5 (21375)	
LTE Band 7: 20 MHz	2510	(20850)	2535 (21100)	2560 (21350)
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
UE Category			1		
Modulations Supported in UL			QPSK, 16QAM		
LTE MPR Permanently implemented per 3GPP TS					
36.101 section 6.2.3~6.2.5? (manufacturer attestation			YES		
to be provided)					
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Additional Information	Release 8 Specificat	support full CA features ions. The following LTE MIMO, eICIC, WIFI Offl	Release 10 Features ar	e not supported: Carrie	er Aggregation, Relay,

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo Z of EO
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 7 of 50

INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

3.1 **SAR Definition**

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

Equation 3-1 **SAR Mathematical Equation**

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

 σ = conductivity of the tissue-simulating material (S/m) ρ = mass density of the tissue-simulating material (kg/m³)

E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

FCC ID: BCG-A2008	PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 0 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 8 of 50
18 PCTEST Engineering Laboratory, Inc.			REV 20.11 M

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DOSIMETRIC ASSESSMENT

4.1 **Measurement Procedure**

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

- 1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013.
- 2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed was measured and used as a reference value.

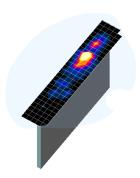


Figure 4-1 Sample SAR Area Scan

point

was

- 3. Based on the area scan data, the peak of the region with maximum SAR determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- 4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

Table 4-1 Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

	Maximum Area Scan Resolution (mm)	Maximum Zoom Scan Resolution (mm)	Max	imum Zoom So Resolution (Minimum Zoom Scan
Frequency	(Δx _{area} , Δy _{area})	(Δx _{200m} , Δy _{200m})	Uniform Grid	G	raded Grid	Volume (mm) (x,y,z)
	died- ydiedy	100117	Δz _{zoom} (n)	Δz _{zoom} (1)*	Δz _{zoom} (n>1)*	, , , ,
≤ 2 GHz	≤ 15	≤8	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤5	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤5	≤4	≤3	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤4	≤3	≤2.5	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤4	≤2	≤2	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 22

^{*}Also compliant to IEEE 1528-2013 Table 6

FCC ID: BCG-A2008	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo O of FO
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 9 of 50

5 TEST CONFIGURATION POSITIONS

5.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity ε = 3 and loss tangent δ = 0.02. Additionally, a manufacturer provided low-loss foam was used to position the device for head SAR evaluations.

5.2 Positioning for Head

Devices that are designed to be worn on the wrist may operate in speaker mode for voice communication, with the device worn on the wrist and positioned next to the mouth. When next-to-mouth SAR evaluation is required, the device is positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium. The device is evaluated with wrist bands strapped together to represent normal use condition.

5.1 Extremity Exposure Configuration

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions; i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. When extremity SAR evaluation is required, the device is evaluated with the back of the device touching the flat phantom, which is filled with body tissue-equivalent medium. The device was evaluated with Sport wristband unstrapped and touching the phantom. For Metal Loop and Metal Links wristbands, the device was evaluated with wristbands strapped and the distance between wristbands and the phantom was minimized to represent the spacing created by actual use conditions.

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dog 10 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 10 of 50

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6 RF EXPOSURE LIMITS

6.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

6.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Table 6-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

	MAN EXPOSURE LIMITS	en e
	UNCONTROLLED ENVIRONMENT	CONTROLLED ENVIRONMENT
	General Population (W/kg) or (mW/g)	Occupational (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

^{1.} The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

2. The Spatial Average value of the SAR averaged over the whole body.

FCC ID: BCG-A2008	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dog 11 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 11 of 50

© 2018 PCTEST Engineering Laboratory, Inc.

^{3.} The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

7 FCC MEASUREMENT PROCEDURES

Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

7.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

7.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is \leq 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is \leq 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

7.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 "3G SAR Measurement Procedures."

The device is placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a "point SAR" at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

7.4 SAR Measurement Conditions for UMTS

7.4.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all "1s" or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

FCC ID: BCG-A2008	PCTEST.	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 40 -f 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 12 of 50

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7.4.2 Head SAR Measurements

SAR for head exposure configurations is measured using the 12.2 kbps RMC with TPC bits configured to all "1s". SAR in AMR configurations is not required when the maximum average output of each RF channel for 12.2 kbps AMR is less than 0.25 dB higher than that measured in 12.2 kbps RMC. Otherwise, SAR is measured on the maximum output channel in 12.2 AMR with a 3.4 kbps SRB (signaling radio bearer) using the exposure configuration that resulted in the highest SAR for that RF channel in the 12.2 kbps RMC mode.

7.4.3 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all "1s". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCH_n configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCH_n, for the highest reported SAR configuration in 12.2 kbps RMC.

7.4.4 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

7.4.5 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Subtest 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

7.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

7.5.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

FCC ID: BCG-A2008	PCTEST'	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dags 12 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 13 of 50

© 2018 PCTEST Engineering Laboratory, Inc.

7.5.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

7.5.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

7.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.</p>
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.</p>
- e. This device can only operate with 16QAM on the uplink with less than or equal to 27 RB. For 16QAM configurations with 10 MHz, 15 MHz and 20 MHz bandwidths, LTE powers for RB size of 15 ("50% RB") and 27 ("100% RB") with offsets to upper edge, middle, and lower edge of the channel are additionally measured for both QPSK and 16QAM modulations to support comparison and SAR test exclusion per Section 5.2.4 and 5.3.

7.5.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

FCC ID: BCG-A2008	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dog 14 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 14 of 50

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7.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

7.6.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

7.6.2 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- 2.4 GHz 802.11 g/n OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

FCC ID: BCG-A2008	PCTEST'	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dog 45 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 15 of 50

© 2018 PCTEST Engineering Laboratory, Inc.

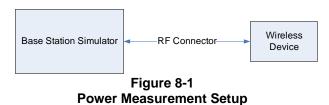
UMTS Conducted Powers 8.1

Table 8-1 **Maximum Conducted Power**

3GPP Release	Mode	Mode 3GPP 34.121 Subtest		Cellular Band [dBm]		
Version		Oublest	4132	4183	4233	MPR [dB]
99	WCDMA	12.2 kbps RMC	23.96	23.98	23.94	-
99	VVCDIVIA	12.2 kbps AMR	23.99	23.93	23.88	-
6		Subtest 1	23.99	23.98	23.95	0
6	HSDPA	Subtest 2	23.23	23.06	23.05	0
6		Subtest 3	22.76	22.59	22.55	0.5
6		Subtest 4	22.54	22.50	22.51	0.5
6		Subtest 1	22.62	22.52	22.45	0
6		Subtest 2	21.09	20.87	20.88	2
6	HSUPA	Subtest 3	21.76	21.60	21.61	1
6		Subtest 4	21.38	21.19	21.18	2
6		Subtest 5	23.23	23.05	23.05	0

This device does not support DC-HSDPA.

The manufacturer has confirmed the HSPA Powers are operating within expected tolerances for the implementation in this model.



FCC ID: BCG-A2008	PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 16 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 16 of 50
18 PCTEST Engineering Laboratory, Inc.	D		REV 20.11 M

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8.2 LTE Conducted Powers

8.2.1 LTE Band 5 (Cell)

Table 8-2
LTE Band 5 (Cell) Conducted Powers - 10 MHz Bandwidth

LTE Band 5 (Cell) Conducted Powers - 10 MHz Bandwidth LTE Band 5 (Cell) 10 MHz Bandwidth					
		10 1111 12	Mid Channel		
Modulation	RB Size	RB Offset	20525 (836.5 MHz)	Design MPR [dB]	
			Conducted Power		
	4	0	[dBm]	0	
	1	0	23.18	0	
	1	25	23.05	0	
	1	49	23.23	0	
	25	0	22.40	1	
	25	12	22.37	1	
	25	25	22.46	1	
QPSK	50	0	22.45	1	
	15	0	22.38	1	
	15	17	22.32	1	
	15	35 22.42		1	
	27	0	22.34	1	
	27	12	22.25	1	
	27	23	22.35	1	
	1	0	22.95	1	
	1	25	22.68	1	
	1	49	22.93	1	
	25	0	21.82	2	
	25	12	21.72	2	
16QAM	25	25	21.80	2	
IOQAIVI	15	0	21.81	2	
	15	17	21.74	2	
	15	35	21.82	2	
	27	0	21.74	2	
	27	12	21.69	2	
	27	23	21.78	2	

Note: LTE Band 5 (Cell) at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

FCC ID: BCG-A2008	PCTEST.	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 47 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 17 of 50

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Table 8-3 LTE Band 5 (Cell) Conducted Powers - 5 MHz Bandwidth

LTE Band 5 (Cell) 5 MHz Bandwidth						
			Low Channel	Mid Channel	High Channel	
Modulation	RB Size	RB Offset	20425 (826.5 MHz)	20525 (836.5 MHz)	20625 (846.5 MHz)	Design MPR [dB]
				Conducted Power [dBm]	
	1	0	23.11	23.10	23.08	0
	1	12	23.13	23.11	23.07	0
	1	24	23.08	23.13	23.06	0
QPSK	12	0	22.35	22.26	22.24	1
	12	6	22.35	22.17	22.18	1
	12	13	22.31	22.48	22.20	1
	25	0	22.25	22.58	22.18	1
	1	0	22.60	22.71	22.80	1
	1	12	22.52	22.81	22.53	1
	1	24	22.43	22.84	22.30	1
16QAM	12	0	22.06	22.05	21.95	2
	12	6	22.06	22.07	21.87	2
	12	13	22.05	22.10	21.93	2
	25	0	22.07	22.08	22.06	2

Table 8-4 LTE Band 5 (Cell) Conducted Powers - 3 MHz Bandwidth

	LTE Band 5 (Cell)						
3 MHz Bandwidth							
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	20415 (825.5 MHz)	20525 (836.5 MHz)	20635 (847.5 MHz)	Design MPR [dB]	
				Conducted Power [dBm]		
	1	0	23.08	23.11	23.06	0	
	1	7	23.09	23.13	23.03	0	
	1	14	23.07	23.11	23.02	0	
QPSK	8	0	22.35	22.30	22.46	1	
	8	4	22.37	22.23	22.31	1	
	8	7	22.58	22.32	22.20	1	
	15	0	22.79	22.20	22.25	1	
	1	0	22.78	22.33	22.61	1	
	1	7	22.74	22.47	22.59	1	
	1	14	22.69	22.48	22.41	1	
16QAM	8	0	22.00	22.05	21.87	2	
	8	4	22.05	22.04	21.95	2	
	8	7	22.06	22.09	22.00	2	
	15	0	22.03	22.06	22.01	2	

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Danie 40 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 18 of 50
18 PCTEST Engineering Laboratory, Inc.	·.	•	REV 20.11 M

Table 8-5 LTE Band 5 (Cell) Conducted Powers -1.4 MHz Bandwidth

	LTE Band 5 (Cell) 1.4 MHz Bandwidth						
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	20407 (824.7 MHz)	20525 (836.5 MHz)	20643 (848.3 MHz)	Design MPR [dB]	
			(Conducted Power [dBm]		
	1	0	23.09	23.07	23.01	0	
	1	2	23.08	23.08	23.00	0	
	1	5	23.11	23.09	23.00	0	
QPSK	3	0	23.45	23.09	23.04	0	
	3	2	23.41	23.07	23.03	0	
	3	3	23.34	23.07	23.02	0	
	6	0	22.71	22.46	22.22	1	
	1	0	22.98	22.75	22.80	1	
	1	2	23.01	22.59	22.71	1	
	1	5	23.07	22.63	22.59	1	
16QAM	3	0	22.80	22.52	22.29	1	
	3	2	22.71	22.44	22.28	1	
	3	3	22.68	22.46	22.16	1	
	6	0	22.02	22.06	21.99	2	

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Da 40 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 19 of 50
18 PCTEST Engineering Laboratory, Inc	:		REV 20.11 M

LTE Band 26 (Cell) 8.2.2

Table 8-6 LTE Band 26 (Cell) Conducted Powers - 10 MHz Bandwidth

	LTE Band 26 (Cell) Conducted Powers - 10 Minz Bandwidth LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz) Conducted Power [dBm	High Channel 26990 (844.0 MHz)	Design MPR [dB]		
	1	0	23.54	23.37	23.03	0		
	1	25	23.31	23.11	23.10	0		
	1	49	23.13	23.01	23.55	0		
	25	0	22.50	22.55	22.55	1		
	25	12	22.48	22.49	22.57	1		
	25	25	22.50	22.4	22.38	1		
QPSK	50	0	22.57	22.5	22.52	1		
	15	0	22.48	22.47	22.49	1		
	15	17	22.36	22.38	22.48	1		
	15	35	22.52	22.33	22.36	1		
	27	0	22.38	22.39	22.48	1		
	27	12	22.42	22.33	22.47	1		
	27	23	22.37	22.31	22.32	1		
	1	0	22.61	22.73	22.65	1		
	1	25	22.50	22.61	22.75	1		
	1	49	22.65	22.59	22.50	1		
	25	0	21.76	21.90	21.95	2		
	25	12	21.72	21.84	21.94	2		
16QAM	25	25	21.80	21.81	21.83	2		
IOQAM	15	0	21.74	21.87	21.98	2		
	15	17	21.71	21.81	21.96	2		
	15	35	21.84	21.76	21.83	2		
	27	0	21.72	21.86	22.01	2		
	27	12	21.79	21.81	21.99	2		
	27	23	21.80	21.77	21.89	2		

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 00 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 20 of 50
18 PCTEST Engineering Laboratory, Inc.	·. ·		REV 20.11 M

Table 8-7 LTE Rand 26 (Cell) Conducted Powers - 5 MHz Randwidth

				nd 26 (Cell) Bandwidth		
			Low Channel	Mid Channel	High Channel	
Modulation	RB Size	RB Offset	26715 (816.5 MHz)	26865 (831.5 MHz)	27015 (846.5 MHz)	Design MPR [dB]
			(Conducted Power [dBm]	
	1	0	23.47	23.42	23.39	0
	1	12	23.36	23.36	23.29	0
	1	24	23.37	23.38	23.29	0
QPSK	12	0	22.77	22.83	22.74	1
	12	6	22.71	22.84	22.68	1
	12	13	22.69	22.77	22.67	1
	25	0	22.71	22.82	22.70	1
	1	0	22.72	22.78	22.73	1
	1	12	22.54	22.61	22.55	1
	1	24	22.56	22.63	22.51	1
16QAM	12	0	21.78	21.86	21.77	2
	12	6	21.72	21.82	21.73	2
	12	13	21.67	21.77	21.73	2
	25	0	21.67	21.80	21.77	2

Table 8-8 LTE Band 26 (Cell) Conducted Powers - 3 MHz Bandwidth

	LTE Band 26 (Cell) 3 MHz Bandwidth							
			Low Channel	Mid Channel	High Channel			
Modulation	RB Size	RB Offset	26705 (815.5 MHz)	26865 (831.5 MHz)	27025 (847.5 MHz)	Design MPR [dB]		
			(Conducted Power [dBm]			
	1	0	23.27	23.41	23.26	0		
	1	7	23.29	23.40	23.27	0		
	1	14	23.28	23.34	23.25	0		
QPSK	8	0	22.73	22.82	22.61	1		
	8	4	22.68	22.79	22.61	1		
	8	7	22.68	22.78	22.59	1		
	15	0	22.70	22.81	22.65	1		
	1	0	22.70	22.62	22.57	1		
	1	7	22.57	22.61	22.52	1		
	1	14	22.45	22.51	22.37	1		
16QAM	8	0	21.71	21.78	21.60	2		
	8	4	21.67	21.71	21.64	2		
	8	7	21.66	21.73	21.60	2		
	15	0	21.63	21.72	21.65	2		

FCC ID: BCG-A2008	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dags 24 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 21 of 50

Table 8-9 LTE Band 26 (Cell) Conducted Powers -1 4 MHz Bandwidth

	LTE Band 26 (Cell) Conducted Powers -1.4 MHz Bandwidth LTE Band 26 (Cell)								
	1.4 MHz Bandwidth Low Channel Mid Channel High Channel								
Modulation	RB Size	RB Offset	26697 (814.7 MHz)	26865 (831.5 MHz)	27033 (848.3 MHz)	Design MPR [dB]			
			(Conducted Power [dBm]				
	1	0	23.33	23.47	23.26	0			
	1	2	23.25	23.36	23.25	0			
	1	5	23.26	23.37	23.25	0			
QPSK	3	0	23.29	23.34	23.26	0			
	3	2	23.26	23.33	23.26	0			
	3	3	23.27	23.33	23.27	0			
	6	0	22.67	22.78	22.59	1			
	1	0	22.63	22.55	22.37	1			
	1	2	22.57	22.48	22.43	1			
	1	5	22.70	22.53	22.51	1			
16QAM	3	0	22.32	22.52	22.25	1			
	3	2	22.29	22.46	22.26	1			
	3	3	22.32	22.47	22.24	1			
	6	0	21.73	21.81	21.68	2			

LTE Band 7 8.2.3

Table 8-10 LTE Band 7 Conducted Powers - 20 MHz Bandwidth

	LTE Band 7 Conducted 1 Owers - 20 Will 2 Bandwidth							
	20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	Design MPR [dB]		
				Conducted Power [dBm]			
	1	0	21.26	20.83	20.85	0		
	1	50	20.93	20.80	20.78	0		
	1	99	20.78	20.82	20.75	0		
	50	0	20.52	20.14	20.50	1		
	50	25	20.40	20.16	20.44	1		
	50	50	20.27	20.17	20.45	1		
QPSK	100	0	20.51	20.38	20.49	1		
	15	0	21.04	20.74	20.67	0		
	15	42	20.84	20.66	20.65	0		
	15	85	20.79	20.81	20.66	0		
	27	0	20.28	20.09	19.92	1		
	27	37	20.19	20.02	19.87	1		
	27	73	20.21	20.17	19.72	1		
	1	0	20.75	20.20	20.55	1		
	1	50	20.45	20.15	20.44	1		
	1	99	20.38	20.10	20.35	1		
	15	0	20.57	19.86	20.07	1		
16QAM	15	42	20.46	19.75	19.92	1		
	15	85	20.36	19.91	19.87	1		
	27	0	19.68	19.24	19.39	2		
	27	37	19.57	19.18	19.29	2		
	27	73	19.52	19.30	19.24	2		

FCC ID: BCG-A2008	PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 00 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 22 of 50
18 PCTEST Engineering Laboratory, Inc.).	•	REV 20.11 M

Table 8-11 LTE Band 7 Conducted Powers - 15 MHz Bandwidth

		LIEDA		owers - 15 MHz Ba Band 7	anawiatii			
	15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz) Conducted Power [dBm	High Channel 21375 (2562.5 MHz)	Design MPR [dB]		
	1	0	21.20	20.92	21.11	0		
	1	36	20.94	20.80	21.00	0		
	1	74	20.90	20.85	20.91	0		
	36	0	20.33	20.13	20.37	1		
	36	18	20.25	20.03	20.21	1		
	36	37	20.26	20.09	20.20	1		
QPSK	75	0	20.33	20.10	20.34	1		
	15	0	21.18	20.65	20.96	0		
	15	30	20.98	20.74	20.84	0		
	15	60	20.96	20.77	20.87	0		
	27	0	19.98	19.67	19.87	1		
	27	24	19.91	19.70	19.85	1		
	27	48	19.91	19.81	19.92	1		
	1	0	20.73	20.28	20.58	1		
	1	36	20.51	20.13	20.33	1		
	1	74	20.52	20.11	20.26	1		
	15	0	20.38	19.72	19.97	1		
16QAM	15	30	20.32	19.77	19.90	1		
	15	60	20.34	19.82	19.96	1		
	27	0	19.56	19.20	19.11	2		
	27	24	19.48	19.21	19.06	2		
	27	48	19.44	19.32	19.01	2		

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 00 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 23 of 50
18 PCTEST Engineering Laboratory, Inc.			REV 20.11 M

Table 8-12 LTE Band 7 Conducted Powers - 10 MHz Bandwidth

LTE Band 7 Conducted Powers - 10 Minz Bandwidth									
	10 MHz Bandwidth								
			Low Channel	Mid Channel	High Channel				
Modulation	RB Size	RB Offset	20800	21100	21400	Design MPR [dB]			
Modulation	NB OLE	NB Onset	(2505.0 MHz)	(2535.0 MHz)	(2565.0 MHz)	- Design in it [ub]			
				Conducted Power [dBm	-				
	1	0	21.12	20.90	20.92	0			
	1	25	20.91	20.86	20.79	0			
	1	49	20.87	20.99	20.88	0			
	25	0	20.37	19.91	20.06	1			
	25	12	20.34	19.83	20.03	1			
	25	25	20.30	19.83	20.04	1			
QPSK	50	0	20.33	19.84	20.06	1			
	15	0	20.30	19.61	19.81	1			
	15	17	20.23	19.60	19.84	1			
	15	35	20.21	19.67	19.92	1			
	27	0	20.25	19.67	19.88	1			
	27	12	20.22	19.64	19.91	1			
	27	23	20.16	19.68	19.92	1			
	1	0	20.65	20.13	20.43	1			
	1	25	20.52	20.02	20.21	1			
	1	49	20.54	20.07	20.41	1			
	25	0	19.73	19.59	19.27	2			
	25	12	19.65	19.54	19.24	2			
16QAM	25	25	19.62	19.56	19.22	2			
IOQAW	15	0	19.84	19.28	19.31	2			
	15	17	19.78	19.26	19.42	2			
	15	35	19.74	19.25	19.51	2			
	27	0	19.76	19.26	19.35	2			
	27	12	19.74	19.27	19.38	2			
	27	23	19.69	19.27	19.42	2			

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 04 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 24 of 50
18 PCTEST Engineering Laboratory, Inc.	·.		REV 20.11 M

Table 8-13 LTE Band 7 Conducted Powers - 5 MHz Bandwidth

	LTE Band 7 Conducted Powers - 5 Min2 Bandwidth LTE Band 7									
5 MHz Bandwidth										
			Low Channel	Mid Channel	High Channel					
Modulation	RB Size	RB Offset	20775	21100	21425	Design MPR [dB]				
Wodulation	ND OIZE	KB Oliset	(2502.5 MHz)	(2535.0 MHz)	(2567.5 MHz)	Design Wil IX [ub]				
				Conducted Power [dBm]					
	1	0	21.32	20.77	21.03	0				
	1	12	21.06	20.75	20.92	0				
	1	24	21.04	20.78	20.99	0				
QPSK	12	0	20.40	20.10	19.98	1				
	12	6	20.37	20.15	19.97	1				
	12	13	20.31	20.15	20.01	1				
	25	0	20.35	20.16	20.13	1				
	1	0	20.61	20.40	20.35	1				
	1	12	20.58	20.34	20.31	1				
	1	24	20.51	20.38	20.36	1				
16QAM	12	0	19.66	19.48	19.11	2				
	12	6	19.65	19.44	19.12	2				
	12	13	19.58	19.45	19.12	2				
	25	0	19.58	19.47	19.14	2				

LTE Band 41 8.2.4

Table 8-14 LTE Band 41 Conducted Powers - 20 MHz Bandwidth

	LTE Band 41 20 MHz Bandwidth									
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel			
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	Design MPR [dB]		
				Co	nducted Power [dB	Bm]				
	1	0	21.68	21.27	21.32	21.00	21.32	0		
	1	50	21.27	21.26	21.22	21.16	21.29	0		
	1	99	21.10	21.22	21.31	21.06	21.33	0		
	50	0	19.70	19.23	19.28	19.19	19.36	2		
	50	25	19.60	19.20	19.31	19.20	19.35	2		
	50	50	19.46	19.21	19.33	19.19	19.38	2		
QPSK	100	0	19.63	19.21	19.31	19.20	19.37	2		
	15	0	21.62	21.21	21.38	21.08	21.26	0		
	15	42	21.49	21.10	21.39	21.06	21.21	0		
	15	85	21.38	21.04	21.36	21.00	21.23	0		
	27	0	19.82	19.44	19.31	19.17	19.30	2		
	27	37	19.80	19.27	19.32	19.24	19.29	2		
	27	73	19.63	19.18	19.26	19.21	19.32	2		
	1	0	21.00	20.26	20.26	20.49	20.73	1		
	1	50	20.71	20.14	20.30	20.48	20.58	1		
	1	99	20.40	20.28	20.16	20.60	20.61	1		
	15	0	20.79	20.37	20.27	20.33	20.26	1		
16QAM	15	42	20.67	20.24	20.21	20.35	20.19	1		
	15	85	20.44	20.16	20.23	20.29	20.24	1		
	27	0	18.99	18.53	18.42	18.44	18.47	3		
	27	37	18.93	18.46	18.44	18.53	18.48	3		
	27	73	18.67	18.35	18.37	18.48	18.51	3		

FCC ID: BCG-A2008	PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 05 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 25 of 50
18 PCTEST Engineering Laboratory, Inc.	C.		REV 20.11 M

Table 8-15 LTF Band 41 Conducted Powers - 15 MHz Bandwidth

	LTE Band 41 15 MHz Bandwidth									
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel			
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	Design MPR [dB]		
				Co	nducted Power [dB	Bm]				
	1	0	21.64	21.29	21.33	21.34	21.43	0		
	1	36	21.40	21.10	21.25	21.46	21.45	0		
	1	74	21.22	21.06	21.16	21.40	21.46	0		
	36	0	19.72	19.20	19.20	19.40	19.60	2		
	36	18	19.69	19.11	19.21	19.43	19.59	2		
	36	37	19.55	19.09	19.20	19.45	19.65	2		
QPSK	75	0	19.56	19.06	19.18	19.37	19.59	2		
	15	0	21.63	21.11	21.05	21.19	21.21	0		
	15	30	21.48	21.02	21.14	21.22	21.27	0		
	15	60	21.34	21.00	21.02	21.11	21.19	0		
	27	0	19.74	19.11	19.12	19.39	19.45	2		
	27	24	19.62	19.02	19.16	19.43	19.44	2		
	27	48	19.43	19.00	19.11	19.46	19.47	2		
	1	0	20.62	20.28	20.28	20.40	20.64	1		
	1	36	20.61	20.03	20.27	20.50	20.68	1		
	1	74	20.43	20.02	20.24	20.56	20.58	1		
	15	0	20.79	20.22	20.08	20.32	20.47	1		
16QAM	15	30	20.68	20.14	20.13	20.38	20.49	1		
	15	60	20.53	20.07	20.08	20.34	20.36	1		
	27	0	18.99	18.20	18.26	18.49	18.48	3		
	27	24	18.81	18.09	18.27	18.58	18.48	3		
i	27	48	18.74	18.10	18.22	18.55	18.46	3		

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Da 00 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 26 of 50
18 PCTEST Engineering Laboratory, Inc.	·.	•	REV 20.11 M

Table 8-16 LTF Band 41 Conducted Powers - 10 MHz Bandwidth

	LTE Band 41 10 MHz Bandwidth										
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel				
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	Design MPR [dB]			
				Co	nducted Power [dE	Bm]					
	1	0	21.62	21.43	21.00	21.19	21.40	0			
	1	25	21.50	21.39	21.02	21.14	21.36	0			
	1	49	21.40	21.33	21.01	21.18	21.35	0			
	25	0	20.67	20.26	20.07	20.08	20.16	1			
	25	12	20.67	20.20	20.11	20.12	20.19	1			
	25	25	20.60	20.20	20.12	20.13	20.19	1			
QPSK	50	0	20.53	20.15	20.07	20.08	20.16	1			
	15	0	20.63	20.16	20.01	20.16	20.12	1			
	15	17	20.66	20.09	20.02	20.17	20.10	1			
	15	35	20.54	20.05	20.01	20.14	20.13	1			
	27	0	20.69	20.20	20.08	20.07	20.10	1			
	27	12	20.61	20.11	20.02	20.11	20.11	1			
	27	23	20.58	20.09	20.06	20.12	20.09	1			
	1	0	20.74	20.25	20.19	20.42	20.69	1			
	1	25	20.66	20.10	20.18	20.39	20.62	1			
	1	49	20.52	20.13	20.13	20.51	20.64	1			
	25	0	19.79	19.19	19.17	19.54	19.72	2			
	25	12	19.79	19.15	19.19	19.58	19.66	2			
16QAM	25	25	19.78	19.16	19.19	19.57	19.67	2			
100/11/1	15	0	19.76	19.23	19.14	19.41	19.67	2			
	15	17	19.71	19.09	19.13	19.37	19.64	2			
	15	35	19.65	19.07	19.10	19.38	19.65	2			
	27	0	19.77	19.14	19.07	19.36	19.61	2			
	27	12	19.71	19.06	19.04	19.41	19.63	2			
	27	23	19.68	19.07	19.02	19.37	19.62	2			

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dans 07 of 50
1C1806040007-01-R2.BCG	01-R2.BCG 07/05/18 - 07/30/18 Watch		Page 27 of 50
18 PCTEST Engineering Laboratory, Inc.	·.		REV 20.11 M

Table 8-17 LTE Rand 41 Conducted Powers - 5 MHz Randwidth

	LTE Band 41 Conducted Powers - 5 MHz Bandwidth LTE Band 41									
	5 MHz Bandwidth									
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel			
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	Design MPR [dB]		
				Co	nducted Power [dB	Sm]				
	1	0	21.43	21.26	21.31	21.10	21.27	0		
	1	12	21.31	21.14	21.30	21.09	21.19	0		
	1	24	21.30	21.15	21.32	21.12	21.22	0		
QPSK	12	0	20.55	20.18	20.20	20.06	20.19	1		
	12	6	20.57	20.16	20.01	20.11	20.17	1		
	12	13	20.54	20.17	20.06	20.09	20.19	1		
	25	0	20.52	20.14	20.10	20.13	20.19	1		
	1	0	20.54	20.19	20.09	20.27	20.46	1		
	1	12	20.47	20.06	20.05	20.29	20.35	1		
	1	24	20.50	20.07	20.11	20.35	20.39	1		
16QAM	12	0	19.72	19.19	19.15	19.42	19.61	2		
	12	6	19.77	19.11	19.18	19.48	19.60	2		
	12	13	19.79	19.13	19.19	19.46	19.62	2		
	25	0	19.67	19.13	19.17	19.47	19.60	2		

FCC ID: BCG-A2008	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dans 00 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 28 of 50
18 PCTEST Engineering Laboratory, Inc.	·. ·	<u>.</u>	REV 20.11 M

8.3 **WLAN Conducted Powers**

Table 8-18 2.4 GHz WLAN Average RF Power

2.4GHz Conducted Power [dBm]								
	IEEE Transmission Mode							
Freq [MHz]	Channel	802.11b	802.11g	802.11n				
		Average	Average	Average				
2412	1	18.98	17.49	17.50				
2417	2	18.91	18.50	18.48				
2437	6	19.00	18.49	18.49				
2457	10	18.99	18.48	18.50				
2462	11	18.99	17.50	17.45				

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- The bolded data rate and channel above were tested for SAR.

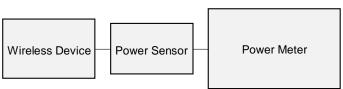


Figure 8-2 **Power Measurement Setup**

FCC ID: BCG-A2008	PCTEST.	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 00 -f 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 29 of 50

Bluetooth Conducted Powers 8.4

Table 8-19 Bluetooth Average RF Power

_		- Avera			ducted Power
Frequency [MHz]	Modulation	Power Scheme	Channel No.	[dBm]	[mW]
2402	GFSK	ePA	0	16.13	41.020
2441	GFSK	ePA	39	17.85	60.954
2480	GFSK	ePA	78	16.50	44.668
2402	GFSK	iPA	0	12.40	17.378
2441	GFSK	iPA	39	12.83	19.187
2480	GFSK	iPA	78	12.12	16.293
2402	8PSK	ePA	0	14.00	25.119
2441	8PSK	ePA	39	13.77	23.823
2480	8PSK	ePA	78	14.00	25.119
2402	8PSK	iPA	0	9.38	8.670
2441	8PSK	iPA	39	9.90	9.772
2480	8PSK	iPA	78	9.61	9.141

Note: The bolded data rate and channel above were tested for SAR. Bluetooth was evaluated with a test mode with 100% transmission duty factor.

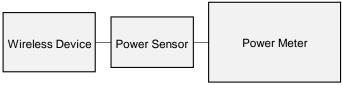


Figure 8-3 **Power Measurement Setup**

FCC ID: BCG-A2008	PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 20 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 30 of 50
18 PCTEST Engineering Laboratory, Inc.	·.		REV 20.11 M

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9.1 Tissue Verification

Table 9-1 Measured Tissue Properties

Calibrated for	Tissue	Tissue Temp	Measured	Measured	Measured	TARGET	TARGET		
Tests Performed on:	Type	During Calibration (°C)	Frequency (MHz)	Conductivity, σ (S/m)	Dielectric Constant, ε	Conductivity, σ (S/m)	Dielectric Constant, ε	% dev σ	% dev ε
			820	0.867	41.434	0.899	41.578	-3.56%	-0.35%
7/9/2018	835H	19.2	835	0.882	41.222	0.900	41.500	-2.00%	-0.67%
			850	0.897	41.014	0.916	41.500	-2.07%	-1.17%
			820	0.893	40.672	0.899	41.578	-0.67%	-2.18%
7/10/2018	835H	21.6	835	0.899	40.636	0.900	41.500	-0.11%	-2.08%
			850	0.905	40.605	0.916	41.500	-1.20%	-2.16%
			2400	1.835	38.536	1.756	39.289	4.50%	-1.92%
7/5/2018	2450H	22.7	2450	1.889	38.373	1.800	39.200	4.94%	-2.11%
			2500	1.944	38.185	1.855	39.136	4.80%	-2.43%
			2400	1.813	38.771	1.756	39.289	3.25%	-1.32%
7/10/2018	2450H	21.9	2450	1.872	38.585	1.800	39.200	4.00%	-1.57%
			2500	1.925	38.380	1.855	39.136	3.77%	-1.93%
			2450	1.871	38.371	1.800	39.200	3.94%	-2.11%
7/20/2019	2450H	22.7	2500	1.928	38.171	1.855	39.136	3.94%	-2.47%
7/30/2018	243011	22.1	2550	1.982	38.023	1.909	39.073	3.82%	-2.69%
			2600	2.037	37.801	1.964	39.009	3.72%	-3.10%
			2600	2.017	37.435	1.964	39.009	2.70%	-4.03%
7/19/2018	2600H	22.4	2650	2.073	37.272	2.018	38.945	2.73%	-4.30%
			2700	2.126	37.079	2.073	38.882	2.56%	-4.64%
			820	0.988	53.993	0.969	55.258	1.96%	-2.29%
7/16/2018	835B	20.8	835	1.004	53.814	0.970	55.200	3.51%	-2.51%
			850	1.019	53.647	0.988	55.154	3.14%	-2.73%
			820	1.009	53.972	0.969	55.258	4.13%	-2.33%
7/23/2018	835B	22.7	835	1.015	53.921	0.970	55.200	4.64%	-2.32%
			850	1.021	53.867	0.988	55.154	3.34%	-2.33%
			2450	2.042	51.293	1.950	52.700	4.72%	-2.67%
7/9/2018	2450B	22.4	2500	2.100	51.138	2.021	52.636	3.91%	-2.85%
1/9/2016	24006	22.4	2550	2.159	50.977	2.092	52.573	3.20%	-3.04%
			2600	2.218	50.841	2.163	52.509	2.54%	-3.18%
			2400	1.954	51.578	1.902	52.767	2.73%	-2.25%
7/10/2018	2450B	21.7	2450	2.020	51.378	1.950	52.700	3.59%	-2.51%
			2500	2.091	51.157	2.021	52.636	3.46%	-2.81%
			2600	2.254	50.326	2.163	52.509	4.21%	-4.16%
7/19/2018	2600B	21.1	2650	2.326	50.138	2.234	52.445	4.12%	-4.40%
			2700	2.398	49.913	2.305	52.382	4.03%	-4.71%

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

FCC ID: BCG-A2008	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dago 21 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 31 of 50

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06/19/2018

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Test System Verification 9.2

Prior to SAR assessment, the system is verified to ±10% of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in Appendix E.

> Table 9-2 System Verification Results - 1a

				Oysi	CIII V CI	moati	011 11	Journ	, ig			
	System Verification TARGET & MEASURED											
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date:	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR _{1g} (W/kg)	1 W Target SAR _{1g} (W/kg)	1 W Normalized SAR _{1g} (W/kg)	Deviation _{1g} (%)
AM8	835	HEAD	07/09/2018	21.0	19.8	0.200	4d180	3287	1.960	9.600	9.800	2.08%
AM7	835	HEAD	07/10/2018	22.2	21.6	0.200	4d180	3329	2.030	9.600	10.150	5.73%
AM6	2450	HEAD	07/05/2018	22.9	20.8	0.100	921	3131	5.280	52.300	52.800	0.96%
AM5	2450	HEAD	07/10/2018	21.9	21.0	0.100	945	7490	5.030	51.000	50.300	-1.37%
AM4	2450	HEAD	07/30/2018	22.8	20.8	0.100	921	3119	5.430	52.300	54.300	3.82%
AM4	2600	HEAD	07/19/2018	24.0	21.2	0.100	1069	3119	5.440	56.900	54.400	-4.39%
AM4	2600	HEAD	07/30/2018	22.8	20.8	0.100	1009	3119	5.600	55.800	56.000	0.36%

Table 9-3 System Verification Results - 10a

	System vernication Results – Tog											
	System Verification TARGET & MEASURED											
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date:	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR _{10g} (W/kg)	1 W Target SAR _{10g} (W/kg)	1 W Normalized SAR _{10g} (W/kg)	Deviation _{10g} (%)
AM8	835	BODY	07/16/2018	22.3	21.8	0.200	4d180	3287	1.350	6.310	6.750	6.97%
AM1	850	BODY	07/23/2018	21.6	22.0	0.200	1009	3275	1.340	6.480	6.700	3.40%
AM3	2450	BODY	07/09/2018	21.8	20.7	0.100	945	3288	2.340	23.200	23.400	0.86%
AM6	2450	BODY	07/10/2018	21.9	21.7	0.100	750	3131	2.480	24.200	24.800	2.48%
AM3	2600	BODY	07/19/2018	20.5	21.1	0.100	1009	3288	2.630	25.000	26.300	5.20%

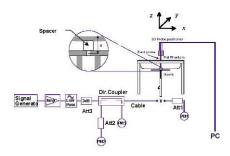


Figure 9-1 **System Verification Setup Diagram**



Figure 9-2 **System Verification Setup Photo**

FCC ID: BCG-A2008	PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 20 -f 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 32 of 50
018 PCTEST Engineering Laboratory, Inc.			REV 20.11 M

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10.1 **Standalone Head SAR Data**

Table 10-1 UMTS 850 Head SAR

							MEASU	REMENT RES	BULTS							
FREQUE	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Spacing	Housing Type	Wrist Band	Device Serial	Duty	Side	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		•	Туре	Number	Cycle		(W/kg)	Factor	(W/kg)	1
836.60	4183	UMTS 850	RMC	25.0	23.98	0.12	10 mm	Aluminum	Sport	C89WT02DK47L	1:1	front	0.002	1.265	0.003	
836.60	4183	UMTS 850	RMC	25.0	23.98	0.12	10 mm	Aluminum	Metal Links	C89WT029K47L	1:1	front	0.001	1.265	0.001	
836.60	4183	UMTS 850	RMC	25.0	23.98	0.11	10 mm	Aluminum	Metal Loop	C89WT02DK47L	1:1	front	0.002	1.265	0.003	A1
836.60	4183	UMTS 850	RMC	25.0	23.98	0.16	10 mm	Stainless Steel	Sport	C89WR005K47P	1:1	front	0.001	1.265	0.001	
836.60	4183	UMTS 850	RMC	25.0	23.98	0.18	10 mm	Stainless Steel	Metal Links	D92WV01RK47P	1:1	front	0.001	1.265	0.001	
836.60	836.60 4183 UMTS 850 RMC 25.0 23.98 0.14 10 mm Stainless Steel Metal Loop D92WV01RK47P 1:1 front 0.002 1.265 0.003															
		ANSI / IEEE	C95.1 1992 - S	AFETY LIMIT			Head									
			Spatial Peak							1.6	W/kg (m	ıW/g)				
		Uncontrolled	Exposure/Gene	eral Populati	on		averaged over 1 gram									

Table 10-2 LTE Band 5 (Cell) Head SAR

MEASUREMENT RESULTS																					
FRE	QUENCY		Mode	Bandwidth [MHz]	Wrist Band Type	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	CI	١.		[2]	1,700	Power [dBm]	r ower [abin]	Dinit [GD]			Number							(W/kg)	1 40101	(W/kg)	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.0	23.23	0.18	0	Aluminum	C89WT02BK47L	QPSK	1	49	10 mm	front	1:1	0.002	1.503	0.003	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.0	22.46	-0.11	1	Aluminum	C89WT02BK47L	QPSK	25	25	10 mm	front	1:1	0.001	1.426	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.0	23.23	0.17	0	Aluminum	C89WT029K47L	QPSK	1	49	10 mm	front	1:1	0.000	1.503	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.0	22.46	0.15	1	Aluminum	C89WT029K47L	QPSK	25	25	10 mm	front	1:1	0.000	1.426	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.0	23.23	0.12	0	Aluminum	C89WT02EK47L	QPSK	1	49	10 mm	front	1:1	0.001	1.503	0.002	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.0	22.46	-0.17	1	Aluminum	C89WT02EK47L	QPSK	25	25	10 mm	front	1:1	0.001	1.426	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.0	23.23	-0.21	0	Stainless Steel	C89WR005K47P	QPSK	1	49	10 mm	front	1:1	0.002	1.503	0.003	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.0	22.46	0.12	1	Stainless Steel	C89WR005K47P	QPSK	25	25	10 mm	front	1:1	0.002	1.426	0.003	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.0	23.23	0.14	0	Stainless Steel	C89WR005K47P	QPSK	1	49	10 mm	front	1:1	0.002	1.503	0.003	A2
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.0	22.46	0.12	1	Stainless Steel	D92WV01QK47P	QPSK	25	25	10 mm	front	1:1	0.002	1.426	0.003	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.0	23.23	-0.18	0	Stainless Steel	D92WV01MK47P	QPSK	1	49	10 mm	front	1:1	0.001	1.503	0.002	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.0	22.46	0.07	1	Stainless Steel	D92WV01MK47P	QPSK	25	25	10 mm	front	1:1	0.001	1.426	0.001	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT									•		•	•	Head		•			•		
	Spatial Peak Uncontrolled Exposure/General Population											1.6 W/k veraged	g (mW/g	,							

FCC ID: BCG-A2008	PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 22 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 33 of 50
18 PCTEST Engineering Laboratory, Inc.).		REV 20.11 M

Table 10-3 LTE Band 26 (Cell) Head SAR

	ETE Band 20 (Cell) Flead SAIX																				
									ME	ASUREMEN	IT RESULTS										
FRI	EQUENCY	,	Mode	Bandwidth [MHz]	Wrist Band Type	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	С	h.		` '	,,,	Power [dBm]												(W/kg)		(W/kg)	
844.00	26990	High	LTE Band 26 (Cell)	10	Sport	25.0	23.55	0.17	0	Aluminum	C89WT01EK47L	QPSK	1	49	10 mm	front	1:1	0.003	1.396	0.004	
844.00	26990	High	LTE Band 26 (Cell)	10	Sport	24.0	22.57	0.20	1	Aluminum	C89WT01EK47L	QPSK	25	12	10 mm	front	1:1	0.002	1.390	0.003	
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Links	25.0	23.55	0.16	0	Aluminum	C89WT01EK47L	QPSK	1	49	10 mm	front	1:1	0.001	1.396	0.001	
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Links	24.0	22.57	0.12	1	Aluminum	C89WT01EK47L	QPSK	25	12	10 mm	front	1:1	0.001	1.390	0.001	
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Loop	25.0	23.55	-0.04	0	Aluminum	C89WT02BK47L	QPSK	1	49	10 mm	front	1:1	0.003	1.396	0.004	A3
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Loop	24.0	22.57	0.20	1	Aluminum	C89WT02BK47L	QPSK	25	12	10 mm	front	1:1	0.003	1.390	0.004	
844.00	26990	High	LTE Band 26 (Cell)	10	Sport	25.0	23.55	0.18	0	Stainless Steel	D92WV01RK47P	QPSK	1	49	10 mm	front	1:1	0.002	1.396	0.003	
844.00	26990	High	LTE Band 26 (Cell)	10	Sport	24.0	22.57	0.13	1	Stainless Steel	D92WV01RK47P	QPSK	25	12	10 mm	front	1:1	0.002	1.390	0.003	
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Links	25.0	23.55	0.18	0	Stainless Steel	D92WV01RK47P	QPSK	1	49	10 mm	front	1:1	0.002	1.396	0.003	
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Links	24.0	22.57	0.12	1	Stainless Steel	D92WV01RK47P	QPSK	25	12	10 mm	front	1:1	0.001	1.390	0.001	
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Loop	25.0	23.55	0.15	0	Stainless Steel	D92WV01RK47P	QPSK	1	49	10 mm	front	1:1	0.003	1.396	0.004	
844.00 26990 High LTE Band 26 (Cell) 10 Metal Loop 24.0 22.57 0.1						0.19	19 1 Stainless Steel D92WV01RK47P QPSK 25 12 10 mm front 1:1 0.002 1.390 0.003														
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak						Head 1.6 W/kg (mW/g)														
	Spattal Peak Uncontrolled Exposure/General Population						averaged over 1 gram														

Table 10-4 LTE Band 7 Head SAR

									ME	ASUREMENT	RESULTS										
FRI	EQUENCY	•	Mode	Bandwidth	Wrist Band Type	Maximum Allowed	Conducted Power (dBm)	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	С	h.		[2]	1,700	Power [dBm]	rower (abin)	Dinit [ub]			- Namber							(W/kg)	1 40101	(W/kg)	
2510.00	20850	Low	LTE Band 7	20	Sport	22.5	21.26	-0.18	0	Aluminum	C89WT029K47L	QPSK	1	0	10 mm	front	1:1	0.232	1.330	0.309	
2510.00	20850	Low	LTE Band 7	20	Sport	21.5	20.52	-0.21	1	Aluminum	C89WT029K47L	QPSK	50	0	10 mm	front	1:1	0.195	1.253	0.244	
2510.00	20850	Low	LTE Band 7	20	Metal Links	22.5	21.26	-0.09	0	Aluminum	C89WT02EK47L	QPSK	1	0	10 mm	front	1:1	0.194	1.330	0.258	
2510.00	20850	Low	LTE Band 7	20	Metal Links	21.5	20.52	-0.09	1	Aluminum	C89WT02EK47L	QPSK	50	0	10 mm	front	1:1	0.145	1.253	0.182	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	22.5	21.26	-0.13	0	Aluminum	C89WT02DK47L	QPSK	1	0	10 mm	front	1:1	0.229	1.330	0.305	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	21.5	20.52	0.00	1	Aluminum	C89WT02DK47L	QPSK	50	0	10 mm	front	1:1	0.180	1.253	0.226	
2510.00	20850	Low	LTE Band 7	20	Sport	22.5	21.26	-0.14	0	Stainless Steel	D92WV01PK47P	QPSK	1	0	10 mm	front	1:1	0.258	1.330	0.343	
2510.00	20850	Low	LTE Band 7	20	Sport	21.5	20.52	-0.12	1	Stainless Steel	D92WV01PK47P	QPSK	50	0	10 mm	front	1:1	0.207	1.253	0.259	
2510.00	20850	Low	LTE Band 7	20	Metal Links	22.5	21.26	-0.09	0	Stainless Steel	D92WV01MK47P	QPSK	1	0	10 mm	front	1:1	0.270	1.330	0.359	A4
2535.00	21100	Mid	LTE Band 7	20	Metal Links	22.5	20.83	-0.12	0	Stainless Steel	D92WV01MK47P	QPSK	1	0	10 mm	front	1:1	0.221	1.469	0.325	
2560.00	21350	High	LTE Band 7	20	Metal Links	22.5	20.85	-0.11	0	Stainless Steel	D92WV01MK47P	QPSK	1	0	10 mm	front	1:1	0.226	1.462	0.330	
2510.00	20850	Low	LTE Band 7	20	Metal Links	21.5	20.52	-0.21	1	Stainless Steel	D92WV01MK47P	QPSK	50	0	10 mm	front	1:1	0.190	1.253	0.238	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	22.5	21.26	-0.08	0	Stainless Steel	D92WV01RK47P	QPSK	1	0	10 mm	front	1:1	0.209	1.330	0.278	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	21.5	20.52	-0.03	1	Stainless Steel	D92WV01RK47P	QPSK	50	0	10 mm	front	1:1	0.172	1.253	0.216	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak							_					1.6 W/k	Head g (mW/g	1)						
		Uncontrolled Exposure/General Population							averaged over 1 gram												

FCC ID: BCG-A2008	PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dago 24 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 34 of 50
10 DCTECT Engineering Laboratory Inc.			DEV/ 20 11 M

Table 10-5 LTE Band 41 Head SAR

Power (plant) Power (plant		MEASUREMENT RESULTS																				
2880.00 41490 High LTE Band 41 20 Sport 20.75 19.38 -0.06 2 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.109 1.371 0.149 2880.00 41490 High LTE Band 41 10 Sport 21.75 20.16 0.00 1 Aluminum C89WT039K47L QPSK 50 0 10 mm front 1:1.58 0.144 1.442 0.208 2880.00 41490 High LTE Band 41 20 Metal Links 22.75 21.33 0.00 0 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.155 1.387 0.215 2880.00 41490 High LTE Band 41 20 Metal Links 21.75 20.16 -0.14 1 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.129 1.442 0.188 2880.00 41490 High LTE Band 41 20 Metal Links 21.75 20.16 -0.14 1 Aluminum C89WT039K47L QPSK 50 0 10 mm front 1:1.58 0.129 1.442 0.188 2880.00 41490 High LTE Band 41 20 Metal Loop 22.75 21.33 -0.12 0 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.148 1.387 0.205 2880.00 41490 High LTE Band 41 20 Metal Loop 20.75 19.38 0.02 2 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.148 1.387 0.205 2880.00 41490 High LTE Band 41 10 Metal Loop 20.75 19.38 0.02 2 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.148 1.387 0.205 2880.00 41490 High LTE Band 41 10 Metal Loop 21.75 20.16 -0.07 1 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.131 1.442 0.189 2880.00 41490 High LTE Band 41 20 Sport 22.75 21.33 -0.06 0 Stainless Stee D92WV01NK47P QPSK 50 50 10 mm front 1:1.58 0.131 1.442 0.189 2880.00 41490 High LTE Band 41 10 Sport 22.75 21.33 -0.06 0 Stainless Stee D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.161 1.442 0.218 2880.00 41490 High LTE Band 41 10 Sport 21.75 20.16 0.05 1 Stainless Stee D92WV01NK47P QPSK 50 50 10 mm front 1:1.58 0.169 1.387 0.234 2880.00 41490 High LTE Band 41 20 Metal Links 22.75 21.33 -0.06 0 Stainless Stee D92WV01NK47P QPSK 50 50 10 mm front 1:1.58 0.169 1.387 0.234 2880.00 41490 High LTE Band 41 10 Metal Links 22.75 21.33 -0.06 0 Stainless Stee D92WV01NK47P QPSK 50 50 10 mm front 1:1.58 0.169 1.387 0.234 2880.00 41490 High LTE Band 41 10 Metal Links 22.75 21.33 -0.06 0 Stainless Stee D92WV01NK47P QPSK 50 50 10 mm front 1:1.58 0.169 1.387 0.234 2880.00 4149				Mode			Allowed			MPR [dB]	Housing Type		Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle			(1g)	Plot#
2680.00 41490 Hgh LTE Band 41 10 Sport 21.75 20.16 0.00 1 Aluminum C89WT039K47L QPSK 50 0 10 mm front 1:1.58 0.144 1.442 0.208 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 0.00 0 Aluminum C89WT039K47L QPSK 1 99 10 mm front 1:1.58 0.155 1.387 0.215 2680.00 41490 Hgh LTE Band 41 1 0 Metal Links 21.75 20.16 0.14 1 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.083 1.371 0.114 2880.00 41490 Hgh LTE Band 41 20 Metal Links 21.75 20.16 0.14 1 Aluminum C89WT039K47L QPSK 50 0 10 mm front 1:1.58 0.129 1.442 0.186 2880.00 41490 Hgh LTE Band 41 20 Metal Loop 22.75 21.33 0.02 2 Aluminum C89WT039K47L QPSK 1 99 10 mm front 1:1.58 0.148 1.387 0.205 2680.00 41490 Hgh LTE Band 41 1 0 Metal Loop 2.75 19.38 0.02 2 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.166 1.371 0.145 2680.00 41490 Hgh LTE Band 41 1 0 Metal Loop 21.75 20.16 0.07 1 Aluminum C89WT039K47L QPSK 50 0 10 mm front 1:1.58 0.166 1.371 0.145 2680.00 41490 Hgh LTE Band 41 1 0 Sport 21.75 20.16 0.07 1 Aluminum C89WT039K47L QPSK 50 0 10 mm front 1:1.58 0.131 1.442 0.189 2680.00 41490 Hgh LTE Band 41 20 Sport 22.75 21.33 0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.189 2680.00 41490 Hgh LTE Band 41 20 Sport 22.75 21.33 0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.218 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.218 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 10 Metal Links 22.75 21.33 0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 10 Metal Links 22.75 21.33 0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 10 Metal Links 22.75 21.33 0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.169 1.342 0.147	2680.00	41490	High	LTE Band 41	20	Sport	22.75	21.33	-0.12	0	Aluminum	C89WT039K47L	QPSK	1	99	10 mm	front	1:1.58	0.165	1.387	0.229	
2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 0.00 0 Aluminum C89WT039K47L QPSK 1 99 10 mm front 1:1.58 0.155 1.387 0.215 2680.00 41490 Hgh LTE Band 41 20 Metal Links 21.75 20.16 0.14 1 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.083 1.371 0.114 2680.00 41490 Hgh LTE Band 41 20 Metal Links 21.75 20.16 0.014 1 Aluminum C89WT039K47L QPSK 50 0 10 mm front 1:1.58 0.129 1.442 0.186 2680.00 41490 Hgh LTE Band 41 10 Metal Loop 20.75 19.38 0.02 2 Aluminum C89WT039K47L QPSK 1 99 10 mm front 1:1.58 0.148 1.387 0.205 2680.00 41490 Hgh LTE Band 41 10 Metal Loop 21.75 20.16 0.07 1 Aluminum C89WT039K47L QPSK 50 0 10 mm front 1:1.58 0.161 1.371 0.145 2680.00 41490 Hgh LTE Band 41 20 Sport 22.75 21.33 0.06 0 Stainless Steel D92WV01NK47P QPSK 1 99 10 mm front 1:1.58 0.191 1.387 0.265 2680.00 41490 Hgh LTE Band 41 20 Sport 22.75 21.33 0.01 2 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.189 2680.00 41490 Hgh LTE Band 41 20 Sport 22.75 21.33 0.06 0 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.218 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 0.06 0 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.218 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 0.06 0 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.218 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 0.06 0 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 0.06 0 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 10 Metal Links 22.75 21.33 0.06 0 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 10 Metal Links 22.75 21.33 0.06 0 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 10 Metal Links 22.75 21.33 0.06 0 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.102 1.442 0.147	2680.00	41490	High	LTE Band 41	20	Sport	20.75	19.38	-0.06	2	Aluminum	C89WT039K47L	QPSK	50	50	10 mm	front	1:1.58	0.109	1.371	0.149	
2680.00 41490 Hgh LTE Band 41 20 Metal Links 20.75 19.38 0.03 2 Aluminum C89WT032K47L QPSK 50 50 10 mm front 1:1.58 0.083 1.371 0.114 2680.00 41490 Hgh LTE Band 41 10 Metal Links 21.75 20.16 -0.14 1 Aluminum C89WT039K47L QPSK 50 0 10 mm front 1:1.58 0.129 1.442 0.186 2680.00 41490 Hgh LTE Band 41 20 Metal Loop 22.75 21.33 -0.12 0 Aluminum C89WT039K47L QPSK 1 99 10 mm front 1:1.58 0.148 1.387 0.205 2680.00 41490 Hgh LTE Band 41 10 Metal Loop 21.75 20.16 -0.07 1 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.106 1.371 0.145 2680.00 41490 Hgh LTE Band 41 20 Sport 22.75 21.33 -0.06 0 Stainless Steel D82WV01NK47P QPSK 1 99 10 mm front 1:1.58 0.191 1.387 0.265 2680.00 41490 Hgh LTE Band 41 20 Sport 22.75 20.16 0.05 1 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.188 2680.00 41490 Hgh LTE Band 41 20 Sport 22.75 21.33 -0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.218 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.218 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 10 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.060 1.371 0.110 2680.00 41490 Hgh LTE Band 41 10 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.080 1.371 0.110 2680.00 41490 Hgh LTE Band 41 10 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.080 1.371 0.110 2680.00 41490 Hgh LTE Band 41 10 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D82WV01NK47P QPSK 50 0 10 mm front 1:1.	2680.00	41490	High	LTE Band 41	10	Sport	21.75	20.16	0.00	1	Aluminum	C89WT039K47L	QPSK	50	0	10 mm	front	1:1.58	0.144	1.442	0.208	
2680.00 41490 High LTE Band 41 10 Metal Links 21.75 20.16 -0.14 1 Aluminum C89WT039K47L QPSK 50 0 10 mm front 1:1.58 0.129 1.442 0.186 22680.00 41490 High LTE Band 41 20 Metal Loop 22.75 21.33 -0.12 0 Aluminum C89WT039K47L QPSK 1 99 10 mm front 1:1.58 0.148 1.387 0.205 22680.00 41490 High LTE Band 41 20 Metal Loop 20.75 19.38 0.02 2 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.106 1.371 0.145 22680.00 41490 High LTE Band 41 10 Metal Loop 21.75 20.16 -0.07 1 Aluminum C89WT039K47L QPSK 50 0 10 mm front 1:1.58 0.131 1.442 0.189 1.442 0.189 1.442 0.189 1.442 0.146 1.442	2680.00	41490	High	LTE Band 41	20	Metal Links	22.75	21.33	0.00	0	Aluminum	C89WT039K47L	QPSK	1	99	10 mm	front	1:1.58	0.155	1.387	0.215	
2880.00 41490 Hgh LTE Band 41 20 Metal Loop 22.75 21.33 -0.12 0 Aluminum C89WT039K47L QPSK 1 99 10 mm front 1:1.58 0.148 1.387 0.205 2880.00 41490 Hgh LTE Band 41 20 Metal Loop 21.75 20.16 -0.07 1 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.106 1.371 0.145 2880.00 41490 Hgh LTE Band 41 20 Sport 22.75 21.33 -0.06 0 Stainless Steel D92WV01NK47P QPSK 1 99 10 mm front 1:1.58 0.131 1.442 0.189 1.387 0.265 1.380 0.00 41490 Hgh LTE Band 41 20 Sport 22.75 21.33 -0.06 0 Stainless Steel D92WV01NK47P QPSK 1 99 10 mm front 1:1.58 0.131 1.442 0.189 1.387 0.265 1.380 0.00 41490 Hgh LTE Band 41 1 0 Sport 21.75 20.16 0.05 1 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.137 1.371 0.188 1.388 0.00 41490 Hgh LTE Band 41 1 0 Sport 21.75 20.16 0.05 1 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.218 1.388 0.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.218 1.389 0.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D92WV01NK47P QPSK 50 50 10 mm front 1:1.58 0.169 1.387 0.234 1.389 0.00 41490 Hgh LTE Band 41 20 Metal Links 20.75 19.38 0.03 2 Stainless Steel D92WV01NK47P QPSK 50 50 10 mm front 1:1.58 0.080 1.371 0.110 1.389 0.00 41490 Hgh LTE Band 41 1 0 Metal Links 20.75 19.38 0.03 2 Stainless Steel D92WV01NK47P QPSK 50 50 10 mm front 1:1.58 0.080 1.371 0.110 1.389 0.00 41490 Hgh LTE Band 41 1 0 Metal Links 20.75 19.38 0.03 2 Stainless Steel D92WV01NK47P QPSK 50 50 10 mm front 1:1.58 0.080 1.371 0.110 1.389 0.00 41490 Hgh LTE Band 41 1 0 Metal Links 20.75 19.38 0.03 2 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.080 1.371 0.110 1.389 0.00 1.389 0.03 2 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.080 1.371 0.110 1.389 0.00 1.389 0.00 1.389 0.00 1.389 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.00 1.349 0.	2680.00	41490	High	LTE Band 41	20	Metal Links	20.75	19.38	0.03	2	Aluminum	C89WT032K47L	QPSK	50	50	10 mm	front	1:1.58	0.083	1.371	0.114	
2880.00 41490 Hgh LTE Band 41 20 Metal Loop 20.75 19.38 0.02 2 Aluminum C89WT039K47L QPSK 50 50 10 mm front 1:1.58 0.106 1.371 0.145 2680.00 41490 Hgh LTE Band 41 10 Metal Loop 21.75 20.16 -0.07 1 Aluminum C89WT039K47L QPSK 50 0 10 mm front 1:1.58 0.131 1.442 0.189 1.442 0.189 1.442 0.145 1.44	2680.00	41490	High	LTE Band 41	10	Metal Links	21.75	20.16	-0.14	1	Aluminum	C89WT039K47L	QPSK	50	0	10 mm	front	1:1.58	0.129	1.442	0.186	
2680.00 41490 Hgh LTE Band 41 10 Metal Loop 21.75 20.16 -0.07 1 Aluminum C89WT039K47L QPSK 50 0 10 mm front 1:1.58 0.131 1.442 0.189 2680.00 41490 Hgh LTE Band 41 20 Sport 22.75 21.33 -0.06 0 Stainless Steel D92WV01NK47P QPSK 1 99 10 mm front 1:1.58 0.191 1.387 0.265 2680.00 41490 Hgh LTE Band 41 1 0 Sport 21.75 20.16 0.05 1 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.191 1.387 0.265 2680.00 41490 Hgh LTE Band 41 1 0 Sport 21.75 20.16 0.05 1 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.218 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D92WV01NK47P QPSK 1 99 10 mm front 1:1.58 0.151 1.442 0.218 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D92WV01NK47P QPSK 1 99 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 20 Metal Links 20.75 19.38 0.03 2 Stainless Steel D92WV01NK47P QPSK 50 50 10 mm front 1:1.58 0.080 1.371 0.110 2680.00 41490 Hgh LTE Band 41 10 Metal Links 21.75 20.16 0.02 1 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.080 1.371 0.110 2680.00 41490 Hgh LTE Band 41 10 Metal Links 21.75 20.16 0.02 1 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.080 1.371 0.110	2680.00	41490	High	LTE Band 41	20	Metal Loop	22.75	21.33	-0.12	0	Aluminum	C89WT039K47L	QPSK	1	99	10 mm	front	1:1.58	0.148	1.387	0.205	
2680.00 41490 Hgh LTE Band 41 20 Sport 22.75 21.33 -0.06 0 Stainless Steel D92WV01NK47P QPSK 1 99 10 mm front 1:1.58 0.191 1.387 0.265 2680.00 41490 Hgh LTE Band 41 20 Sport 20.75 19.38 -0.01 2 Stainless Steel D92WV01NK47P QPSK 50 50 10 mm front 1:1.58 0.137 1.371 0.188 2680.00 41490 Hgh LTE Band 41 10 Sport 21.75 20.16 0.05 1 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.218 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D92WV01NK47P QPSK 1 99 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D92WV01NK47P QPSK 1 99 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 20 Metal Links 20.75 19.38 0.03 2 Stainless Steel D92WV01UK47P QPSK 50 50 10 mm front 1:1.58 0.080 1.371 0.110 2680.00 41490 Hgh LTE Band 41 10 Metal Links 21.75 20.16 0.02 1 Stainless Steel D92WV01UK47P QPSK 50 0 10 mm front 1:1.58 0.080 1.371 0.110	2680.00	41490	High	LTE Band 41	20	Metal Loop	20.75	19.38	0.02	2	Aluminum	C89WT039K47L	QPSK	50	50	10 mm	front	1:1.58	0.106	1.371	0.145	
2680.00 41490 Hgh LTE Band 41 20 Sport 20.75 19.38 -0.01 2 Stainless Steel D92WV01NK47P QPSK 50 50 10 mm front 1:1.58 0.137 1.371 0.188 2680.00 41490 Hgh LTE Band 41 10 Sport 21.75 20.16 0.05 1 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.218	2680.00	41490	High	LTE Band 41	10	Metal Loop	21.75	20.16	-0.07	1	Aluminum	C89WT039K47L	QPSK	50	0	10 mm	front	1:1.58	0.131	1.442	0.189	
2680.00 41490 High LTE Band 41 10 Sport 21.75 20.16 0.05 1 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.151 1.442 0.218 2680.00 41490 High LTE Band 41 20 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D92WV01NK47P QPSK 1 99 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 High LTE Band 41 20 Metal Links 20.75 19.38 0.03 2 Stainless Steel D92WV01UK47P QPSK 50 50 10 mm front 1:1.58 0.080 1.371 0.110 2680.00 41490 High LTE Band 41 10 Metal Links 21.75 20.16 0.02 1 Stainless Steel D92WV01UK47P QPSK 50 0 10 mm front 1:1.58 0.080 1.371 0.110	2680.00	41490	High	LTE Band 41	20	Sport	22.75	21.33	-0.06	0	Stainless Steel	D92WV01NK47P	QPSK	1	99	10 mm	front	1:1.58	0.191	1.387	0.265	A5
2680.00 41490 Hgh LTE Band 41 20 Metal Links 22.75 21.33 -0.06 0 Stainless Steel D92WV01DK47P QPSK 1 99 10 mm front 1:1.58 0.169 1.387 0.234 2680.00 41490 Hgh LTE Band 41 20 Metal Links 20.75 19.38 0.03 2 Stainless Steel D92WV01UK47P QPSK 50 50 10 mm front 1:1.58 0.080 1.371 0.110 2680.00 41490 Hgh LTE Band 41 10 Metal Links 21.75 20.16 0.02 1 Stainless Steel D92WV01UK47P QPSK 50 0 10 mm front 1:1.58 0.102 1.442 0.147	2680.00	41490	High	LTE Band 41	20	Sport	20.75	19.38	-0.01	2	Stainless Steel	D92WV01NK47P	QPSK	50	50	10 mm	front	1:1.58	0.137	1.371	0.188	
2680.00 41490 High LTE Band 41 20 Metal Links 20.75 19.38 0.03 2 Stainless Steel D92WV01UK47P QPSK 50 50 10 mm front 1:1.58 0.080 1.371 0.110 2680.00 41490 High LTE Band 41 10 Metal Links 21.75 20.16 0.02 1 Stainless Steel D92WV01UK47P QPSK 50 0 10 mm front 1:1.58 0.102 1.442 0.147	2680.00	41490	High	LTE Band 41	10	Sport	21.75	20.16	0.05	1	Stainless Steel	D92WV01NK47P	QPSK	50	0	10 mm	front	1:1.58	0.151	1.442	0.218	
2680.00 41490 High LTE Band 41 10 Metal Links 21.75 20.16 0.02 1 Stainless Steel D92WV01UK47P QPSK 50 0 10 mm front 1:1.58 0.102 1.442 0.147	2680.00	41490	High	LTE Band 41	20	Metal Links	22.75	21.33	-0.06	0	Stainless Steel	D92WV01NK47P	QPSK	1	99	10 mm	front	1:1.58	0.169	1.387	0.234	
	2680.00	41490	High	LTE Band 41	20	Metal Links	20.75	19.38	0.03	2	Stainless Steel	D92WV01UK47P	QPSK	50	50	10 mm	front	1:1.58	0.080	1.371	0.110	
2680.00 41490 High LTE Band 41 20 Metal Loop 22.75 21.33 -0.10 0 Stainless Steel D92WV01NK47P QPSK 1 99 10 mm front 1:1.58 0.175 1.387 0.243	2680.00	2680.00 41490 High LTE Band 41 10 Metal Links 21.75 20.16 0.02								1	Stainless Steel	D92WV01UK47P	QPSK	50	0	10 mm	front	1:1.58	0.102	1.442	0.147	
	2680.00	41490	High	LTE Band 41	20	Metal Loop	22.75	21.33	-0.10	0	Stainless Steel	D92WV01NK47P	QPSK	1	99	10 mm	front	1:1.58	0.175	1.387	0.243	
2680.00 41490 High LTE Band 41 20 Metal Loop 20.75 19.38 -0.15 2 Stainless Steel D92WV01NK47P QPSK 50 50 10 mm front 1:1.58 0.107 1.371 0.147	2680.00	41490	High	LTE Band 41	20	Metal Loop	20.75	19.38	-0.15	2	Stainless Steel	D92WV01NK47P	QPSK	50	50	10 mm	front	1:1.58	0.107	1.371	0.147	
2680.00 41490 High LTE Band 41 10 Metal Loop 21.75 20.16 -0.03 1 Stainless Steel D92WV01NK47P QPSK 50 0 10 mm front 1:1.58 0.126 1.442 0.182	2680.00	41490	High	LTE Band 41	10	Metal Loop	21.75	20.16	-0.03	1	Stainless Steel	D92WV01NK47P	QPSK	50	0	10 mm	front	1:1.58	0.126	1.442	0.182	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Head				ANSI / IEEE			LIMIT			Head												
Spatial Peak 1.6 W/kg (mW/g) Uncontrolled Exposure/General Population averaged over 1 gram				Uncontrolled			nulation			5 t 5/												

Table 10-6 2.4 GHz WLAN Head SAR

											U 2 t								
								MEA	ASUREMENT	RESULTS									
FREQU	IENCY	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power	Conducted Power	Power Drift [dB]	Spacing	Housing Type	Wrist Band Type	Device Serial Number	Data Rate	Side	Duty Cycle	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MFIZ]	[dBm]	[dBm]	[db]			туре	Number	(Mbps)		(%)	(W/kg)	(Power)	Cycle)	(W/kg)	
2437	6	802.11b	DSSS	22	19.0	19.00	0.15	10 mm	Aluminum	Sport	C89WT02EK47L	1	front	99.7	0.135	1.000	1.003	0.135	
2437	6	802.11b	DSSS	22	19.0	19.00	0.20	10 mm	Aluminum	Metal Links	C89WT032K47L	1	front	99.7	0.101	1.000	1.003	0.101	
2437	6	802.11b	DSSS	22	19.0	19.00	0.06	10 mm	Aluminum	Metal Loops	C89WT02EK47L	1	front	99.7	0.123	1.000	1.003	0.123	
2437	6	802.11b	DSSS	22	19.0	19.00	0.19	10 mm	Stainless Steel	Sport	C89WR007K47P	1	front	99.7	0.141	1.000	1.003	0.141	A6
2437	6	802.11b	DSSS	22	19.0	19.00	0.14	10 mm	Stainless Steel	Metal Links	D92WV01UK47P	1	front	99.7	0.112	1.000	1.003	0.112	
2437 6 802.11b DSSS 22 19.0 19.00 -0.06									Stainless Steel	Metal Loops	C89WR007K47P	1	front	99.7	0.131	1.000	1.003	0.131	
		AN	ISI / IEEE	C95.1 1992	- SAFETY LIMIT	Head													
				Spatial Pea	ak	1.6 W/kg (mW/g)													
		Unce	ontrolled	Exposure/Ge	eneral Population	on		averaged over 1 gram											

Table 10-7

	Bluetooth (ePA) Head SAR																		
	MEASUREMENT RESULTS																		
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted Power [dBm]	Power Drift	Spacing	Housing Type	Wrist Band	Device Serial Number	Data Rate	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot#		
MHz	Hz Ch.			Power [dBm]	Power [abm]	[dB]	. •		Туре	Number	(Mbps)		Cycle	(W/kg)	(Cond Power)	(W/kg)			
2441	39	Bluetooth	FHSS	18.0	17.85	0.01	10 mm	Aluminum	Sport	C89WT01EK47L	1	front	1:1	0.094	1.035	0.097	A7		
2441	39	Bluetooth	FHSS	18.0	17.85	0.04	10 mm	Aluminum	Metal Links	C89WT01EK47L	1	front	1:1	0.069	1.035	0.071			
2441	2441 39 Bluetooth FHSS 18.0 17.85 0.02							Aluminum	Metal Loop	C89WT01EK47L	1	front	1:1	0.082	1.035	0.085			
2441	39	Bluetooth	FHSS	18.0	17.85	-0.10	10 mm	Stainless Steel	Sport	C89WR007K47P	1	front	1:1	0.092	1.035	1.035 0.095			
2441 39 Bluetooth FHSS 18.0 17.85 0.06 10							10 mm	Stainless Steel	Metal Links	C89WR007K47P	1	front	1:1	0.068	1.035	0.070			
2441	2441 39 Bluetooth FHSS 18.0 17.85 0.02							10 mm Stainless Steel Metal Loop C89WR007K47P 1 front 1:1 0.073 1.035 0.076											
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head			·	·			
	Spatial Peak							1.6 W/kg (mW/g)											
		Uncontrolled E	Exposure	General Pop	ulation					ave	raged ov	er 1 grar	n						

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 25 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 35 of 50
18 PCTEST Engineering Laboratory, Inc.	:		REV 20.11 M

Table 10-8 Bluetooth (iPA) Head SAR

	Diuetootii (IFA) neau SAK																	
	MEASUREMENT RESULTS																	
FREQU	ENCY	Mode	Service	Maximum Allowed		Power Drift	Spacing	Housing Type	Wrist Band	Device Serial	Data Rate	Side	Duty	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot#	
MHz	Ch.			Power [dBm]	Power [dBm]	[dB]		•	Туре	Number	(Mbps)		Cycle	(W/kg)	(Cond Power)	(W/kg)		
2441	39	39 Bluetooth FHSS 13.0 12.83 0.21 10 mm Aluminum Sport C89WT02DK47L 1 front 1:1 0.026 1.040 0.027									0.027							
2441	39	Bluetooth	FHSS	13.0	12.83	0.13	10 mm	Aluminum	Metal Links	C89WT02DK47L	1	front	1:1	0.021	1.040	0.022		
2441	2441 39 Bluetooth FHSS 13.0 12.83 0.15							Aluminum	Metal Loop	C89WT02DK47L	1	front	1:1	0.021	1.040	0.022		
2441	39	Bluetooth	FHSS	13.0	12.83	-0.19	10 mm	Stainless Steel	Sport	D92WV01NK47P	1	front	1:1	0.035	1.040	0.036	A8	
2441	39	Bluetooth	FHSS	FHSS 13.0 12.83 0.06 10 mm Stainless Steel Metal Links D92WV01UK47P 1 front 1:1 0.021 1.040 0.022								0.022						
2441	39	Bluetooth	FHSS	13.0	12.83	0.18	10 mm Stainless Steel Metal Loop D92WV01NK47P 1 front 1:1 0.026 1.040 0.027											
		ANSI / IEEE	C95.1 199	2 - SAFETY	LIMIT		Head											
	Spatial Peak							1.6 W/kg (mW/g)										
		Uncontrolled I	Exposure	General Po	oulation		averaged over 1 gram											

10.2 Standalone Extremity SAR Data

Table 10-9 UMTS Extremity SAR Data

	MEASUREMENT RESULTS																	
FREQUE	ENCY	Mode	Service	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wrist Band	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #		
MHz	Ch.			Power [dBm]	Power [abin]	Driit [ab]			Туре	Number	Cycle		(W/kg)	ractor	(W/kg)			
836.60	4183	UMTS 850	RMC	25.0	23.98	-0.01	0 mm	Aluminum	Sport	C89WT02DK47L	1:1	back	0.115	1.265	0.145			
836.60	4183	UMTS 850	RMC	25.0	23.98	-0.07	0 mm	Aluminum	Metal Links	C89WT029K47L	1:1	back	0.163	1.265	0.206			
836.60	4183	UMTS 850	RMC	25.0	23.98	-0.07	0 mm	Aluminum	Metal Loop	C89WT02BK47L	1:1	back	0.154	1.265	0.195			
836.60	4183	UMTS 850	RMC	0 mm	Stainless Steel	Sport	D92WV01RK47P	1:1	back	0.113	1.265	0.143						
826.40	826.40 4132 UMTS 850 RMC 25.0 23.96 0.03								Metal Links	D92WV01MK47P	1:1	back	0.214	1.271	0.272			
836.60	4183	UMTS 850	RMC	25.0	23.98	-0.06	0 mm	Stainless Steel	Metal Links	D92WV01MK47P	1:1	back	0.182	1.265	0.230			
846.60	4233	UMTS 850	RMC	25.0	23.94	0.01	0 mm	Stainless Steel	Metal Links	D92WV01MK47P	1:1	back	0.243	1.276	0.310	A9		
836.60	4183	UMTS 850	RMC	25.0	23.98	0.01	0 mm Stainless Steel Metal Loop D92WV01QK47P 1:1 back 0.165 1.265 0.209								0.209			
		ANSI / IEEE	C95.1 1992 - S	AFETY LIMIT			Extremity											
	Spatial Peak								4.0 W/kg (mW/g)									
		Uncontrolled	Exposure/Gene	eral Population	on		averaged over 10 grams											

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 36 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 36 of 50

Table 10-10 LTE Band 5 (Cell) Extremity SAR

										(33)	-Ati Cii	, 0,	***								
									MEA	SUREMENT	RESULTS										
F	REQUENCY		Mode	Bandwidth [MHz]	Wrist Band Type	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot#
MHz	Ci			[2]	.,,,,,	Power [dBm]	r ower [abin]	Dinit [GD]			Number							(W/kg)	1 4 6 6 6	(W/kg)	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.0	23.23	0.02	0	Aluminum	C89WT029K47L	QPSK	1	49	0 mm	back	1:1	0.075	1.503	0.113	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.0	22.46	-0.04	1	Aluminum	C89WT029K47L	QPSK	25	25	0 mm	back	1:1	0.064	1.426	0.091	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.0	23.23	0.01	0	Aluminum	C89WT02BK47L	QPSK	1	49	0 mm	back	1:1	0.141	1.503	0.212	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.0	22.46	-0.01	1	Aluminum	C89WT02BK47L	QPSK	25	25	0 mm	back	1:1	0.120	1.426	0.171	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.0	23.23	-0.14	0	Aluminum	C89WT02DK47L	QPSK	1	49	0 mm	back	1:1	0.114	1.503	0.171	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.0	22.46	-0.11	1	Aluminum	C89WT02DK47L	QPSK	25	25	0 mm	back	1:1	0.083	1.426	0.118	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.0	23.23	-0.02	0	Stainless Steel	D92WV01RK47P	QPSK	1	49	0 mm	back	1:1	0.104	1.503	0.156	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.0	22.46	-0.01	1	Stainless Steel	D92WV01RK47P	QPSK	25	25	0 mm	back	1:1	0.091	1.426	0.130	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.0	23.23	0.05	0	Stainless Steel	D92WV01MK47P	QPSK	1	49	0 mm	back	1:1	0.146	1.503	0.219	A10
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.0	22.46	0.05	1	Stainless Steel	D92WV01MK47P	QPSK	25	25	0 mm	back	1:1	0.127	1.426	0.181	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.0	23.23	-0.07	0	Stainless Steel	D92WV01QK47P	QPSK	1	49	0 mm	back	1:1	0.135	1.503	0.203	
836.50	20525	20525 Mid LTE Band 5 (Cell) 10 Metal Loop 24.0 22.46							1	Stainless Steel	D92WV01QK47P	QPSK	25	25	0 mm	back	1:1	0.119	1.426	0.170	
		ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Ext	remity						
				Spatial Pea	ık									4.0 W/	kg (mW/g	3)					
			Uncontrolled E	xposure/Ge	eneral Popu	ulation							а	veraged o	over 10 gr	ams					

Table 10-11 LTE Band 26 (Cell) Extremity SAR

									MEA	SUREMENT	RESULTS										
	REQUENCY		Mode	Bandwidth [MHz]	Wrist Band Type	Maximum Allowed	Conducted Power (dBm)	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle		Scaling Factor	Reported SAR (10g)	Plot #
MHz	C	h.		ţ	-77-	Power [dBm]	[]											(W/kg)		(W/kg)	
844.00	26990	High	LTE Band 26 (Cell)	10	Sport	25.0	23.55	-0.12	0	Aluminum	C89WT02EK47L	QPSK	1	49	0 mm	back	1:1	0.108	1.396	0.151	
844.00	26990	High	LTE Band 26 (Cell)	10	Sport	24.0	22.57	0.07	1	Aluminum	C89WT02EK47L	QPSK	25	12	0 mm	back	1:1	0.091	1.390	0.126	
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Links	25.0	23.55	0.00	0	Aluminum	C89WT02BK47L	QPSK	1	49	0 mm	back	1:1	0.156	1.396	0.218	A11
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Links	24.0	22.57	-0.05	1	Aluminum	C89WT02BK47L	QPSK	25	12	0 mm	back	1:1	0.137	1.390	0.190	
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Loop	25.0	23.55	-0.02	0	Aluminum	C89WT02DK47L	QPSK	1	49	0 mm	back	1:1	0.112	1.396	0.156	
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Loop	24.0	22.57	0.03	1	Aluminum	C89WT02DK47L	QPSK	25	12	0 mm	back	1:1	0.097	1.390	0.135	
844.00	26990	High	LTE Band 26 (Cell)	10	Sport	25.0	23.55	-0.03	0	Stainless Steel	D92WV01RK47P	QPSK	1	49	0 mm	back	1:1	0.112	1.396	0.156	
844.00	26990	High	LTE Band 26 (Cell)	10	Sport	24.0	22.57	0.02	1	Stainless Steel	D92WV01RK47P	QPSK	25	12	0 mm	back	1:1	0.093	1.390	0.129	
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Links	25.0	23.55	-0.07	0	Stainless Steel	D92WV01MK47P	QPSK	1	49	0 mm	back	1:1	0.143	1.396	0.200	
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Links	24.0	22.57	0.13	1	Stainless Steel	D92WV01MK47P	QPSK	25	12	0 mm	back	1:1	0.116	1.390	0.161	
844.00	26990	High	LTE Band 26 (Cell)	10	Metal Loop	25.0	23.55	-0.05	0	Stainless Steel	D92WV01QK47P	QPSK	1	49	0 mm	back	1:1	0.140	1.396	0.195	
844.00	26990	26990 High LTE Band 26 (Cell) 10 Metal Loop 24.0 22.57							1	Stainless Steel	D92WV01QK47P	QPSK	25	12	0 mm	back	1:1	0.118	1.390	0.164	
		ANSI / IEEE C95.1 1992 - SAFETY LIMIT								-				Ext	remity						
			:	Spatial Peal	k									4.0 W/	kg (mW/g	3)					
			Uncontrolled Ex	cposure/Ge	neral Popu	lation							a	veraged o	over 10 gr	ams					

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 07 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 37 of 50
18 PCTEST Engineering Laboratory, Inc.	·.		REV 20.11 M

Table 10-12 LTE Band 7 Extremity SAR

							-			4 . – //	Cility	<u> </u>									
									MEA	SUREMENT	RESULTS										
	REQUENCY		Mode	Bandwidth [MHz]	Wrist Band Type	Maximum Allowed	Conducted Power (dBm)	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle		Scaling Factor	Reported SAR (10g)	Plot#
MHz	C	h.		[]	1,700	Power [dBm]	r ower (abin)	Dinit [db]			Number							(W/kg)	T dottor	(W/kg)	
2510.00	20850	Low	LTE Band 7	20	Sport	22.5	21.26	0.00	0	Aluminum	C89WT029K47L	QPSK	1	0	0 mm	back	1:1	0.127	1.330	0.169	A12
2510.00	20850	Low	LTE Band 7	20	Sport	21.5	20.52	0.20	1	Aluminum	C89WT029K47L	QPSK	50	0	0 mm	back	1:1	0.100	1.253	0.125	
2510.00	20850	Low	LTE Band 7	20	Metal Links	22.5	21.26	0.04	0	Aluminum	C89WT02BK47L	QPSK	1	0	0 mm	back	1:1	0.069	1.330	0.092	
2510.00	20850	Low	LTE Band 7	20	Metal Links	21.5	20.52	-0.16	1	Aluminum	C89WT02BK47L	QPSK	50	0	0 mm	back	1:1	0.054	1.253	0.068	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	22.5	21.26	0.00	0	Aluminum	C89WT029K47L	QPSK	1	0	0 mm	back	1:1	0.110	1.330	0.146	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	21.5	20.52	-0.11	1	Aluminum	C89WT029K47L	QPSK	50	0	0 mm	back	1:1	0.090	1.253	0.113	
2510.00	20850	Low	LTE Band 7	20	Sport	22.5	21.26	0.11	0	Stainless Steel	D92WV01MK47P	QPSK	1	0	0 mm	back	1:1	0.092	1.330	0.122	
2510.00	20850	Low	LTE Band 7	20	Sport	21.5	20.52	0.20	1	Stainless Steel	D92WV01MK47P	QPSK	50	0	0 mm	back	1:1	0.075	1.253	0.094	
2510.00	20850	Low	LTE Band 7	20	Metal Links	22.5	21.26	-0.07	0	Stainless Steel	D92WV01PK47P	QPSK	1	0	0 mm	back	1:1	0.093	1.330	0.124	
2510.00	20850	Low	LTE Band 7	20	Metal Links	21.5	20.52	0.02	1	Stainless Steel	D92WV01PK47P	QPSK	50	0	0 mm	back	1:1	0.073	1.253	0.091	
2510.00	00 20850 Low LTE Band 7 20 Metal Loop 22.5 21.26								0	Stainless Steel	D92WV01MK47P	QPSK	1	0	0 mm	back	1:1	0.085	1.330	0.113	
2510.00	20850	20850 Low LTE Band 7 20 Metal Loop 21.5 20.52							1	Stainless Steel	D92WV01MK47P	QPSK	50	0	0 mm	back	1:1	0.060	1.253	0.075	
		ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Ext	remity						
			Uncontrolled Ex	Spatial Peal		lation									kg (mW/g	.,					
			Oncommolied Ex	choonie/Ge	nerai Popu	iation							а	verageu (wei 10 gi	ans					

Table 10-13 LTE Band 41 Extremity SAR Data

											illity OAI	Duit									
									ME	EASUREMENT R	RESULTS										
FR	REQUENC	Υ		Bandwidth		Maximum	Conducted	Power										SAR (10g)	Scaling	Reported SAR (10g)	
MHz	(Ch.	Mode	[MHz]	Wrist Band Type	Allowed Power [dBm]	Power [dBm]	Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Factor	(W/kg)	Plot#
2680.00	41490	High	LTE Band 41	20	Sport	22.75	21.33	-0.13	0	Aluminum	C89WT039K47L	QPSK	1	99	0 mm	back	1:1.58	0.036	1.387	0.050	A13
2680.00	41490	High	LTE Band 41	20	Sport	20.75	19.38	0.17	2	Aluminum	C89WT039K47L	QPSK	50	50	0 mm	back	1:1.58	0.021	1.371	0.029	
2680.00	41490	High	LTE Band 41	10	Sport	21.75	20.16	0.14	1	Aluminum	C89WT039K47L	QPSK	50	0	0 mm	back	1:1.58	0.028	1.442	0.040	
2680.00	41490	High	LTE Band 41	20	Metal Links	22.75	21.33	0.14	0	Aluminum	C89WT039K47L	QPSK	1	99	0 mm	back	1:1.58	0.030	1.387	0.042	
2680.00	41490	High	LTE Band 41	20	Metal Links	20.75	19.38	-0.13	2	Aluminum	C89WT039K47L	QPSK	50	50	0 mm	back	1:1.58	0.019	1.371	0.026	
2680.00	41490	High	LTE Band 41	10	Metal Links	21.75	20.16	0.19	1	Aluminum	C89WT039K47L	QPSK	50	0	0 mm	back	1:1.58	0.026	1.442	0.037	
2680.00	41490	High	LTE Band 41	20	Metal Loop	22.75	21.33	0.05	0	Aluminum	C89WT039K47L	QPSK	1	99	0 mm	back	1:1.58	0.027	1.387	0.037	
2680.00	41490	High	LTE Band 41	20	Metal Loop	20.75	19.38	0.14	2	Aluminum	C89WT039K47L	QPSK	50	50	0 mm	back	1:1.58	0.016	1.371	0.022	
2680.00	41490	High	LTE Band 41	10	Metal Loop	21.75	20.16	-0.13	1	Aluminum	C89WT039K47L	QPSK	50	0	0 mm	back	1:1.58	0.023	1.442	0.033	
2680.00	41490	High	LTE Band 41	20	Sport	22.75	21.33	-0.16	0	Stainless Steel	D92WV01UK47P	QPSK	1	99	0 mm	back	1:1.58	0.033	1.387	0.046	
2680.00	41490 High LTE Band 41 20 Sport 22.75 21.3 41490 High LTE Band 41 20 Sport 20.75 19.3							-0.20	2	Stainless Steel	D92WV01UK47P	QPSK	50	50	0 mm	back	1:1.58	0.022	1.371	0.030	
2680.00	41490	High	LTE Band 41	10	Sport	21.75	20.16	-0.14	1	Stainless Steel	D92WV01UK47P	QPSK	50	0	0 mm	back	1:1.58	0.027	1.442	0.039	
2680.00	41490	High	LTE Band 41	20	Metal Links	22.75	21.33	0.10	0	Stainless Steel	D92WV01NK47P	QPSK	1	99	0 mm	back	1:1.58	0.031	1.387	0.043	
2680.00	41490	High	LTE Band 41	20	Metal Links	20.75	19.38	0.07	2	Stainless Steel	D92WV01NK47P	QPSK	50	50	0 mm	back	1:1.58	0.020	1.371	0.027	
2680.00	41490	High	LTE Band 41	10	Metal Links	21.75	20.16	0.17	1	Stainless Steel	D92WV01NK47P	QPSK	50	0	0 mm	back	1:1.58	0.025	1.442	0.036	
2680.00	41490	High	LTE Band 41	20	Metal Loop	22.75	21.33	0.13	0	Stainless Steel	D92WV01NK47P	QPSK	1	99	0 mm	back	1:1.58	0.032	1.387	0.044	
2680.00	41490	High	LTE Band 41	20	Metal Loop	20.75	19.38	0.13	2	Stainless Steel	D92WV01NK47P	QPSK	50	50	0 mm	back	1:1.58	0.020	1.371	0.027	
2680.00	41490								1	Stainless Steel	D92WV01NK47P	QPSK	50	0	0 mm	back	1:1.58	0.028	1.442	0.040	
			ANSI / IEE		992 - SAFETY LIN	MIT				•				Extremi	,						
				Spatial					1					W/kg (m	-						ŀ
			Uncontrolle	d Exposure	e/General Popula	ition							avera	ged over 1	0 grams						

FCC ID: BCG-A2008	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dago 29 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 38 of 50

Table 10-14 2.4 GHz WLAN Extremity SAR

						-				- /\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ity OAIN								
								MEAS	SUREMEN	T RESULTS	;								
FREQU	IENCY	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power	Conducted Power	Power Drift [dB]	Spacing	Wrist Band Type	Housing Type	Device Serial Number	Data Rate	Side	Duty Cycle	SAR (10g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (10g)	Plot #
MHz	Ch.			[WITZ]	[dBm]	[ubiii]	[GB]		туре		Number	(Mbps)		(%)	(W/kg)	(Power)	Cycle)	(W/kg)	1
2437	6	802.11b	DSSS	22	19.0	19.00	-0.12	0 mm	Sport	Aluminum	C89WT01EK47L	1	back	99.7	0.051	1.000	1.003	0.051	
2437	6	802.11b	DSSS	22	19.0	19.00	0.19	0 mm	Metal Links	Aluminum	C89WT032K47L	1	back	99.7	0.049	1.000	1.003	0.049	
2437	6	802.11b	DSSS	22	19.0	19.00	0.21	0 mm	Metal Loop	Aluminum	C89WT032K47L	1	back	99.7	0.049	1.000	1.003	0.049	
2437	6	802.11b	DSSS	22	19.0	19.00	-0.09	0 mm	Sport	Stainless Steel	D92WV01NK47P	1	back	99.7	0.040	1.000	1.003	0.040	
2437	6	802.11b	DSSS	22	19.0	19.00	-0.09	0 mm	Metal Links	Stainless Steel	C89WR007K47P	1	back	99.7	0.108	1.000	1.003	0.108	A14
2437	6 802.11b DSSS 22 19.0 19.00 6 802.11b DSSS 22 19.0 19.00							0 mm	Metal Loop	Stainless Steel	D92WV01NK47P	1	back	99.7	0.043	1.000	1.003	0.043	
		AN	C95.1 1992 -	SAFETY LIMIT								Extrem	nity						
				Spatial Pea	ak							4.0) W/kg (mW/g)					
		Unce	ontrolled	Exposure/Ge	eneral Populatio	n						avera	ged over	10 gran	ns				

Table 10-15 Bluetooth (ePA) Extremity SAR

							ı	MEASUREME	NT RESUL	.TS							
FREQU	IENCY	Mode	Service	Maximum Allowed	Conducted Power [dBm]	Power Drift	Spacing	Housing Type	Wrist Band	Device Serial Number	Data Rate	Side	Duty Cycle	SAR (10g)	Scaling Factor (Cond Power)	Reported SAR (10g)	Plot #
MHz	Ch.			Power [dBm]	Power [abin]	[ав]			Туре	Number	(Mbps)		Cycle	(W/kg)	(Cond Power)	(W/kg)	
2441	39	Bluetooth	FHSS	18.0	17.85	0.15	0 mm	Aluminum	Sport	D92WT00JK47L	1	back	1:1	0.036	1.035	0.037	
2441	39	Bluetooth	FHSS	18.0	17.85	0.13	0 mm	Aluminum	Metal Links	D92WT00JK47L	1	back	1:1	0.041	1.035	0.042	
2441	39	Bluetooth	FHSS	18.0	17.85	0.03	0 mm	Aluminum	Metal Loop	D92WT00JK47L	1	back	1:1	0.033	1.035	0.034	
2441							0 mm	Stainless Steel	Sport	D92WV01UK47P	1	back	1:1	0.043	1.035	0.045	
2441	39	Bluetooth	FHSS	18.0	17.85	0.13	0 mm	Stainless Steel	Metal Links	D92WV01UK47P	1	back	1:1	0.047	1.035	0.049	A15
2441	39	Bluetooth	FHSS	18.0	17.85	-0.07	0 mm	Stainless Steel	Metal Loop	D92WV01UK47P	1	back	1:1	0.040	1.035	0.041	
		ANSI / IEEE	C95.1 19	92 - SAFETY	LIMIT						Extre	mity					
			Spatial	Peak						4	.0 W/kg	(mW/g)					
	1	Uncontrolled E	Exposure	/General Pop	pulation					aver	aged ove	r 10 gra	ms				

Table 10-16 Bluetooth (iPA) Extremity SAR

							ucto		LAtic	IIIILY OAIS							
							N	MEASUREME	NT RESU	LTS							
FREQU	ENCY	Mode	Service	Maximum Allowed		Power Drift	Spacing	Housing Type	Wrist Band	Device Serial	Data Rate	Side	Duty	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	[dB]		·	Туре	Number	(Mbps)		Cycle	(W/kg)	(Cond Power)	(W/kg)	
2441	39	Bluetooth	FHSS	13.0	12.83	0.07	0 mm	Aluminum	Sport	C89WT01EK47L	1	back	1:1	0.009	1.040	0.009	
2441	39	Bluetooth	FHSS	13.0	12.83	0.14	0 mm	Aluminum	Metal Links	C89WT01EK47L	1	back	1:1	0.008	1.040	0.008	
2441	39	Bluetooth	FHSS	13.0	12.83	0.16	0 mm	Aluminum	Metal Loop	C89WT01EK47L	1	back	1:1	0.007	1.040	0.007	
2441	39	Bluetooth	FHSS	13.0	12.83	-0.17	0 mm	Stainless Steel	Sport	C89WR007K47P	1	back	1:1	0.017	1.040	0.018	
2441	39	Bluetooth	FHSS	13.0	12.83	-0.13	0 mm	Stainless Steel	Metal Links	C89WR007K47P	1	back	1:1	0.022	1.040	0.023	A16
2441	39	Bluetooth	FHSS	13.0	12.83	-0.21	0 mm	Stainless Steel	Metal Loop	C89WR007K47P	1	back	1:1	0.018	1.040	0.019	
		ANSI / IEEE	C95.1 199	2 - SAFETY	LIMIT						Extre	mity					
			Spatial I	Peak						4	1.0 W/kg	(mW/g)					
		Uncontrolled E	Exposure	General Pop	pulation					ave	raged over	er 10 gra	ms				

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Danie 20 at 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 39 of 50
18 PCTEST Engineering Laboratory, Inc.	·.		REV 20.11 M

10.3 SAR Test Notes

General Notes:

- 1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 447498 D01v06.
- 2. Batteries are fully charged at the beginning of the SAR measurements.
- 3. Liquid tissue depth was at least 15.0 cm for all frequencies.
- 4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- 6. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were not required since measured SAR results for all frequency bands were less than 0.8 W/kg.
- 7. This device has two housing types: Aluminum and Stainless Steel. The non-metallic wrist accessory, sport band, was evaluated for all exposure conditions. The available metallic wrist accessories, metal links band and metal loop band, were additionally evaluated.
- 8. This device is a portable wrist-worn device and does not support any other use conditions. Therefore the procedures in FCC KDB Publication 447498 D01v06 Section 6.2 have been applied for extremity and next to mouth (head) conditions.

UMTS Notes:

- UMTS mode in was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
- 2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel was used.

LTE Notes:

- 1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 7.5.4.
- 2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 6.2.5 under Table 6.2.3-1.
- 3. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
- 4. Per FCC KDB Publication 447498 D01v06, when the reported LTE Band 41 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
- 5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
- 6. This device can only operate with 16QAM on the uplink with less than or equal to 27 RB. QPSK and 16QAM LTE powers for RB size of 15 ("50% RB") and 27 ("100% RB") were additionally measured to support comparison and SAR test exclusion per KDB 941225 D05v02r04 Section 5.2.4 and 5.3.

FCC ID: BCG-A2008	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dog 40 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 40 of 50

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06/19/2018

WLAN Notes:

- 1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.6.2 for more information.
- 2. When the maximum reported 1g averaged SAR is ≤0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
- 3. When 10-g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.
- 4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8 MHz, VBW = 50 MHz, and detector = peak per guidance of Section 6.0 b) of ANSI C63. 10-2013 and KDB 558074 D01 v04. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100.

Bluetooth Notes

1. To determine compliance, Bluetooth SAR was measured with internal power amplifier and external power amplifier. Bluetooth was evaluated with a test mode with 100% transmission duty factor.

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dog 44 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 41 of 50

11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

11.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

11.3 Head SAR Simultaneous Transmission Analysis

For SAR summation, the highest reported SAR across all housing and wristband types was used as a conservative evaluation for the simultaneous transmission analysis.

Table 11-1
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Head at 1.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	UMTS 850	0.003	0.141	0.144
	LTE Band 5 (Cell)	0.003	0.141	0.144
Head SAR	LTE Band 26 (Cell)	0.004	0.141	0.145
	LTE Band 7	0.359	0.141	0.500
	LTE Band 41	0.265	0.141	0.406

Table 11-2
Simultaneous Transmission Scenario with Bluetooth (ePA) (Head at 1.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	Bluetooth ePA SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	UMTS 850	0.003	0.097	0.100
	LTE Band 5 (Cell)	0.003	0.097	0.100
Head SAR	LTE Band 26 (Cell)	0.004	0.097	0.101
	LTE Band 7	0.359	0.097	0.456
	LTE Band 41	0.265	0.097	0.362

FCC ID: BCG-A2008	PCTEST'	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 42 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 42 of 50

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06/19/2018

Table 11-3 Simultaneous Transmission Scenario with Bluetooth (iPA) (Head at 1.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	Bluetooth iPA SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	UMTS 850	0.003	0.036	0.039
	LTE Band 5 (Cell)	0.003	0.036	0.039
Head SAR	LTE Band 26 (Cell)	0.004	0.036	0.040
	LTE Band 7	0.359	0.036	0.395
	LTE Band 41	0.265	0.036	0.301

11.4 Extremity Simultaneous Transmission Analysis

Table 11-4 Simultaneous Transmission Scenario with 2.4 GHz WLAN (Extremity at 0.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	UMTS 850	0.310	0.108	0.418
Extra maitre	LTE Band 5 (Cell)	0.219	0.108	0.327
Extremity SAR	LTE Band 26 (Cell)	0.218	0.108	0.326
	LTE Band 7	0.169	0.108	0.277
	LTE Band 41	0.050	0.108	0.158

Table 11-5 Simultaneous Transmission Scenario with Bluetooth (ePA) (Extremity at 0.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	Bluetooth (ePA) SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	UMTS 850	0.310	0.049	0.359
Footname it.	LTE Band 5 (Cell)	0.219	0.049	0.268
Extremity SAR	LTE Band 26 (Cell)	0.218	0.049	0.267
	LTE Band 7	0.169	0.049	0.218
	LTE Band 41	0.050	0.049	0.099

FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dog 42 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 43 of 50

Table 11-6 Simultaneous Transmission Scenario with Bluetooth (iPA) (Extremity at 0.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	Bluetooth (iPA) SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	UMTS 850	0.310	0.023	0.333
F	LTE Band 5 (Cell)	0.219	0.023	0.242
Extremity SAR	LTE Band 26 (Cell)	0.218	0.023	0.241
	LTE Band 7	0.169	0.023	0.192
	LTE Band 41	0.050	0.023	0.073

Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013 Section 6.3.4.1.2.

FCC ID: BCG-A2008	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 44 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 44 of 50

12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01, SAR measurement variability was not assessed for each frequency band since all measured SAR values are < 0.80 W/kg for 1g SAR and < 2.0 W/kg for 10g SAR.

12.2 Measurement Uncertainty

The measured SAR was <1.5 W/kg for 1g and <3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

FCC ID: BCG-A2008	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dago 45 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 45 of 50

13 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	9/14/2017	Annual	9/14/2018	US39170118
Agilent	8753ES	Network Analyzer	2/21/2018	Annual	2/21/2019	MY40001472
Agilent	E4438C	ESG Vector Signal Generator	6/22/2018	Annual	6/22/2019	MY53401181
Agilent	E5515C	Wireless Communications Test Set	2/28/2018	Biennial	2/28/2020	GB41450275
Agilent	N5182A	MXG Vector Signal Generator	6/15/2018	Annual	6/15/2019	MY47420837
Agilent	N5182A-506	MXG Vector Signal	6/19/2018	Annual	6/19/2019	MY48180366
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MA24106A	USB Power Sensor	6/5/2018	Annual	6/5/2019	1248508
Anritsu	MA24106A	USB Power Sensor	1/19/2018	Annual	1/19/2019	1520503
Anritsu	MA2411B	Pulse Power Sensor	11/15/2017	Annual	11/15/2018	1339007
Anritsu	ML2496A	Power Meter	10/9/2017	Annual	10/9/2018	1138001
Anritsu	ML2495A	Power Meter	10/22/2017	Annual	10/22/2018	941001
Control Company	4040	Temperature / Humidity Monitor	2/28/2018	Biennial	2/28/2020	150761911
Control Company	4352	Ultra Long Stem Thermometer	5/2/2017	Biennial	5/2/2019	170330160
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	6/4/2018	Annual	6/4/2019	MY53401181
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mitutoyo	CD-6"CSX	Digital Caliper	CBT	N/A	CBT	11670711
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE5011-1	Torque Wrench	7/19/2017	Biennial	7/19/2019	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	7/5/2018	Annual	7/5/2019	106578
Rohde& Schwarz	CMW500	Wideband Radio Communication Tester	7/5/2018	Annual	7/5/2019	145663
SPEAG	DAKS-3.5	Portable DAK	9/5/2017	Annual	9/5/2018	1045
SPEAG	ES3DV3	SAR Probe	9/18/2017	Annual	9/18/2018	3287
SPEAG	ES3DV3	SAR Probe	2/13/2018	Annual	2/13/2019	3329
SPEAG	ES3DV3	SAR Probe	3/13/2018	Annual	3/13/2019	3131
SPEAG	EX3DV4	SAR Probe	1/26/2018	Annual	1/26/2019	7490
SPEAG	ES3DV3	SAR Probe	5/18/2018	Annual	5/18/2019	3119
SPEAG	ES3DV3	SAR Probe	4/12/2018	Annual	4/12/2019	3275
SPEAG	ES3DV3	SAR Probe	1/12/2018	Annual	1/12/2019	3288
SPEAG	D835V2	835 MHz SAR Dipole	5/18/2018	Annual	5/18/2019	4d180
SPEAG	D2450V2	2450 MHz SAR Dipole	9/11/2017	Annual	9/11/2018	921
SPEAG	D2450V2	2450 MHz SAR Dipole	5/16/2018	Annual	5/16/2019	945
SPEAG	D2450V2	2450 MHz SAR Dipole	6/7/2017	Biennial	6/7/2019	750
SPEAG	D2600V2	2600 MHz SAR Dipole	9/11/2017	Annual	9/11/2018	1069
SPEAG	D850V2	850 MHz SAR Dipole	8/16/2017	Annual	8/16/2018	1009
SPEAG	D2600V2	2600 MHz SAR Dipole	6/19/2018	Annual	6/19/2019	1009
SPEAG	DAE4	Data Acquisition Electronics	1/26/2018	Annual	1/26/2019	1533
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/8/2018	Annual	2/8/2019	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/7/2018	Annual	3/7/2019	604
SPEAG	DAE4	Data Acquisition Electronics	1/26/2018	Annual	1/26/2019	1532
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/17/2018	Annual	5/17/2019	728
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/12/2018	Annual	4/12/2019	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/18/2018	Annual	1/18/2019	793

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.

FCC ID: BCG-A2008	PCTEST'	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 46 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 46 of 50

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06/19/2018

MEASUREMENT UNCERTAINTIES 14

а	С	d	e=	f	g	h =	i =	k
			f(d,k)			c x f/e	c x g/e	
	Tol.	Prob.		C ₁	C ₁	1gm	10gms	
Uncertainty Component	(± %)	Dist.	DIv.	1gm	10 gms	u _i	u _i	V _I
						(± %)	(± %)	-
Measurement System								
Probe Calibration	6.55	Ν	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	0.25	Ν	1	0.7	0.7	0.2	0.2	× ×
Hemishperical Isotropy	1.3	Ν	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	2.0	R	1.73	1.0	1.0	1.2	1.2	∞
Linearity	0.3	Ν	1	1.0	1.0	0.3	0.3	œ
System Detection Limits	0.25	R	1.73	1.0	1.0	0.1	0.1	8
Readout Electronics	0.3	Ν	1	1.0	1.0	0.3	0.3	8
Response Time	0.8	R	1.73	1.0	1.0	0.5	0.5	8
Integration Time	2.6	R	1.73	1.0	1.0	1.5	1.5	8
RF Ambient Conditions - Noise	3.0	R	1.73	1.0	1.0	1.7	1.7	8
RF Ambient Conditions - Reflections	3.0	R	1.73	1.0	1.0	1.7	1.7	8
Probe Positioner Mechanical Tolerance	0.4	R	1.73	1.0	1.0	0.2	0.2	8
Probe Positioning w/ respect to Phantom	6.7	R	1.73	1.0	1.0	3.9	3.9	8
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	4.0	R	1.73	1.0	1.0	2.3	2.3	8
Test Sample Related								
Test Sample Positioning	2.7	Ν	1	1.0	1.0	2.7	2.7	35
Device Holder Uncertainty	1.67	Ν	1	1.0	1.0	1.7	1.7	5
Output Power Variation - SAR drift measurement	5.0	R	1.73	1.0	1.0	2.9	2.9	×
SAR Scaling	0.0	R	1.73	1.0	1.0	0.0	0.0	œ
Phantom & Tissue Parameters								
Phantom Uncertainty (Shape & Thickness tolerances)	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	4.2	Ν	1	0.78	0.71	3.3	3.0	10
Liquid Permittivity - measurement uncertainty	4.1	Ν	1	0.23	0.26	1.0	1.1	10
Liquid Conductivity - Temperature Uncertainty	3.4	R	1.73	0.78	0.71	1.5	1.4	× ×
Liquid Permittivity - Temperature Unceritainty	0.6	R	1.73	0.23	0.26	0.1	0.1	× ×
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	oc
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	1	RSS	<u> </u>	1		11.5	11.3	60
Expanded Uncertainty k=2					23.0	22.6		
(95% CONFIDENCE LEVEL)								

FCC ID: BCG-A2008	<u> PCTEST</u>	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 47 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 47 of 50
10 DOTECT Engineering Laboratory Inc.			DEV/ 20 44 M

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15 CONCLUSION

15.1 **Measurement Conclusion**

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

FCC ID: BCG-A2008	PCTEST	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dana 40 at 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 48 of 50
18 PCTEST Engineering Laboratory, Inc.	:.	•	REV 20.11 M

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06/19/2018

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FCC ID: BCG-A2008	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dago 40 of 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 49 of 50

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06/19/2018

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FCC ID: BCG-A2008	PCTEST:	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	D 50 -4 50
1C1806040007-01-R2.BCG	07/05/18 - 07/30/18	Watch	Page 50 of 50
18 PCTEST Engineering Laboratory, Inc.	:		REV 20.11 M

APPENDIX A: SAR TEST DATA

DUT: BCG-A2008; Type: Watch; Serial: C89WT02DK47L

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1 Medium: 835 Head Medium parameters used (interpolated): $f = 836.6 \text{ MHz}; \ \sigma = 0.884 \text{ S/m}; \ \epsilon_r = 41.2; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-09-2018; Ambient Temp: 21.0°C; Tissue Temp: 19.8°C

Probe: ES3DV3 - SN3287; ConvF(6.7, 6.7, 6.7); Calibrated: 9/18/2017; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1533; Calibrated: 1/26/2018
Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: UMTS 850, Head SAR, Front side, Mid.ch, Aluminum, Metal Loop Wrist Band

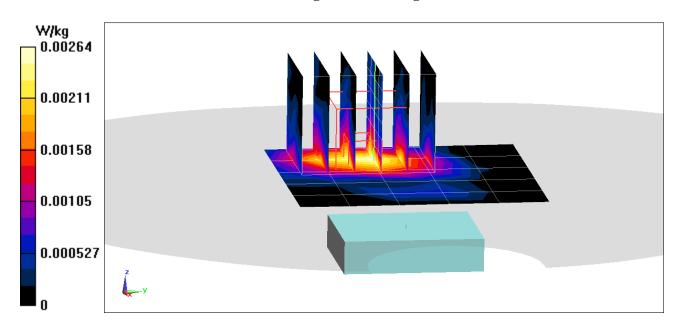
Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.732 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.00362 W/kg

SAR(1 g) = 0.002 W/kg



DUT: BCG-A2008; Type: Watch; Serial: C89WR005K47P

Communication System: UID 0, LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1 Medium: 835 Head Medium parameters used (interpolated): f = 836.5 MHz; $\sigma = 0.9 \text{ S/m}$; $\varepsilon_r = 40.633$; $\rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 7-10-2018; Ambient Temp: 22.2°C; Tissue Temp: 21.6°C

Probe: ES3DV3 - SN3329; ConvF(6.41, 6.41, 6.41); Calibrated: 2/13/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1403; Calibrated: 2/8/2018
Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1403
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: LTE Band 5 (Cell.), Head SAR, Front side, Mid.ch, 10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset, Stainless Steel, Metal Links Wrist Band

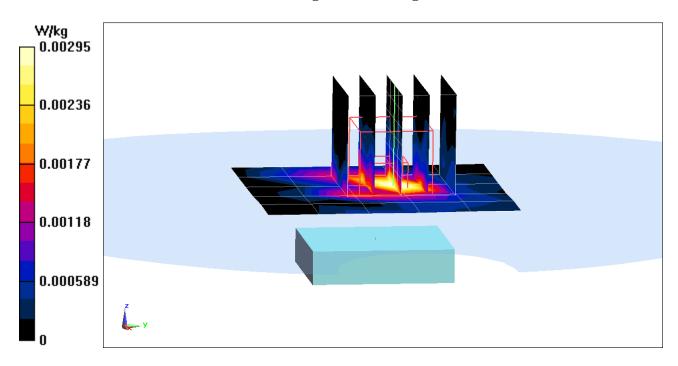
Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.760 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.00475 W/kg

SAR(1 g) = 0.002 W/kg



DUT: BCG-A2008; Type: Watch; Serial: C89WT02BK47L

Communication System: UID 0, LTE Band 26; Frequency: 844 MHz; Duty Cycle: 1:1 Medium: 835 Head Medium parameters used (interpolated): $f = 844 \text{ MHz}; \ \sigma = 0.891 \text{ S/m}; \ \epsilon_r = 41.097; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-09-2018; Ambient Temp: 21.0°C; Tissue Temp: 19.8°C

Probe: ES3DV3 - SN3287; ConvF(6.7, 6.7, 6.7); Calibrated: 9/18/2017; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1533; Calibrated: 1/26/2018
Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: LTE Band 26 (Cell.), Head SAR, Front side, High.ch, 10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset, Aluminum, Metal Loop Wrist Band

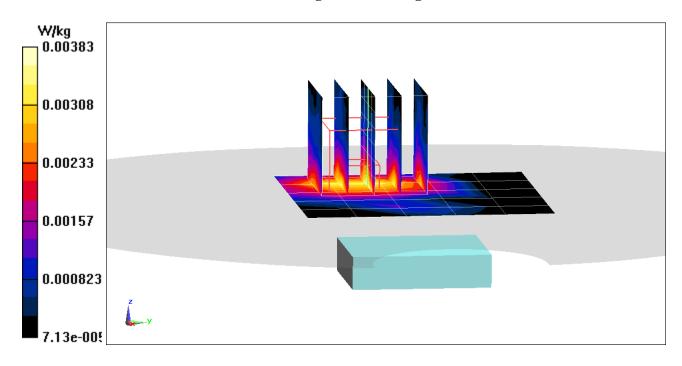
Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.003 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.00487 W/kg

SAR(1 g) = 0.003 W/kg



DUT: BCG-A2008; Type: Watch; Serial: D92WV01MK47P

Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1 Medium: 2450 Head Medium parameters used (interpolated): $f = 2510 \text{ MHz}; \ \sigma = 1.939 \text{ S/m}; \ \epsilon_r = 38.141; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-30-2018; Ambient Temp: 22.8°C; Tissue Temp: 20.8°C

Probe: ES3DV3 - SN3119; ConvF(4.58, 4.58, 4.58); Calibrated: 5/18/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn728; Calibrated: 5/17/2018
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: LTE Band 7, Head SAR, Front side, Low.ch, 20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset, Stainless Steel, Metal Links Wrist Band

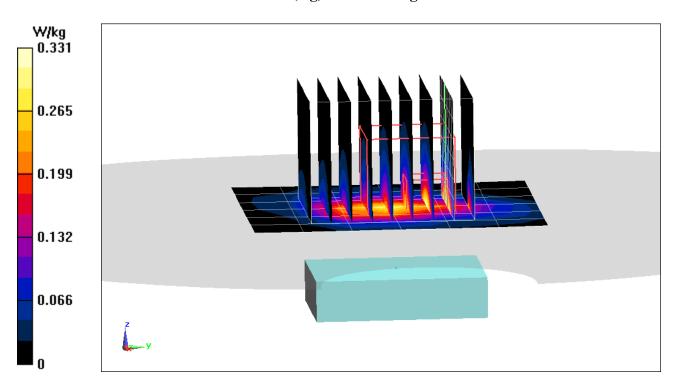
Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.93 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.859 W/kg

SAR(1 g) = 0.270 W/kg



DUT: BCG-A2008; Type: Watch; Serial: D92WV01NK47P

Communication System: UID 0, LTE Band 41; Frequency: 2680 MHz; Duty Cycle: 1:1.58 Medium: 2600 Head Medium parameters used (interpolated): $f = 2680 \text{ MHz}; \ \sigma = 2.105 \text{ S/m}; \ \epsilon_r = 37.156; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-19-2018; Ambient Temp: 24.0°C; Tissue Temp: 21.2°C

Probe: ES3DV3 - SN3119; ConvF(4.47, 4.47, 4.47); Calibrated: 5/18/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn728; Calibrated: 5/17/2018
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: LTE Band 41, Head SAR, Front side, High.ch, 20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset, Stainless Steel, Sport Wrist Band

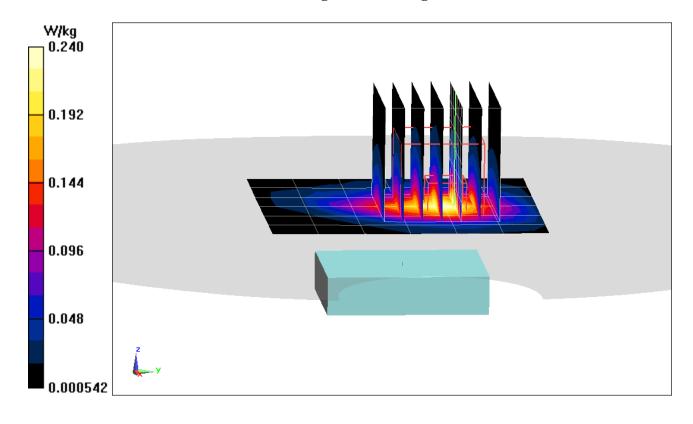
Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.10 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.363 W/kg

SAR(1 g) = 0.191 W/kg



DUT: BCG-A2008; Type: Watch; Serial: C89WR007K47P

Communication System: UID 0, IEEE 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1 Medium: 2450 Head Medium parameters used (interpolated): $f = 2437 \text{ MHz}; \ \sigma = 1.875 \text{ S/m}; \ \epsilon_r = 38.415; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-05-2018; Ambient Temp: 22.9°C; Tissue Temp: 20.8°C

Probe: ES3DV3 - SN3131; ConvF(4.75, 4.75, 4.75); Calibrated: 3/13/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/7/2018
Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: IEEE 802.11b, 22 MHz Bandwidth, Head SAR, Ch 6, 1 Mbps, Front Side, Stainless Steel, Sport Wrist Band

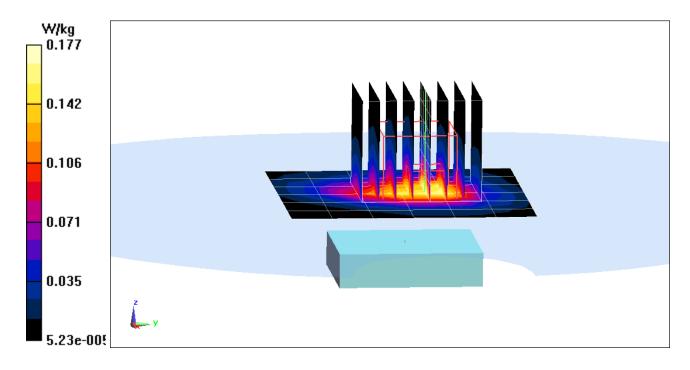
Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.201 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.264 W/kg

SAR(1 g) = 0.141 W/kg



DUT: BCG-A2008; Type: Watch; Serial: C89WT01EK47L

Communication System: UID 0, Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1 Medium: 2450 Head Medium parameters used (interpolated): $f = 2441 \text{ MHz}; \ \sigma = 1.861 \text{ S/m}; \ \epsilon_r = 38.618; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-10-2018; Ambient Temp: 21.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7490; ConvF(7.89, 7.89, 7.89); Calibrated: 1/26/2018; Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1532; Calibrated: 1/26/2018
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: Bluetooth ePA, Head SAR, Ch 39, 1 Mbps, Front Side, Aluminum, Sport Wrist Band

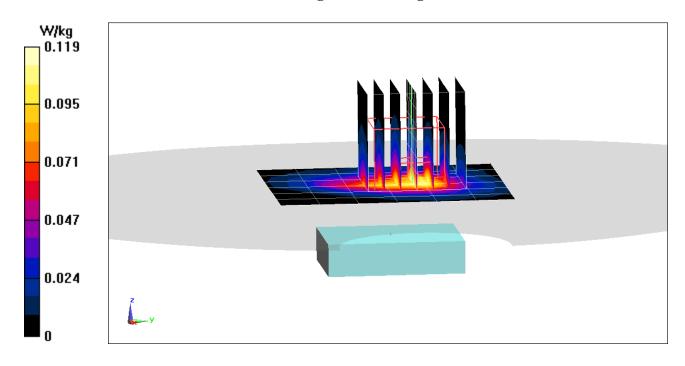
Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.516 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.175 W/kg

SAR(1 g) = 0.094 W/kg



DUT: BCG-A2008; Type: Watch; Serial: D92WV01NK47P

Communication System: UID 0, Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1 Medium: 2450 Head Medium parameters used (interpolated): $f = 2441 \text{ MHz}; \ \sigma = 1.861 \text{ S/m}; \ \epsilon_r = 38.618; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-10-2018; Ambient Temp: 21.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7490; ConvF(7.89, 7.89, 7.89); Calibrated: 1/26/2018; Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1532; Calibrated: 1/26/2018
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: Bluetooth iPA, Head SAR, Ch 39, 1 Mbps, Front Side, Stainless Steel, Sport Wrist Band

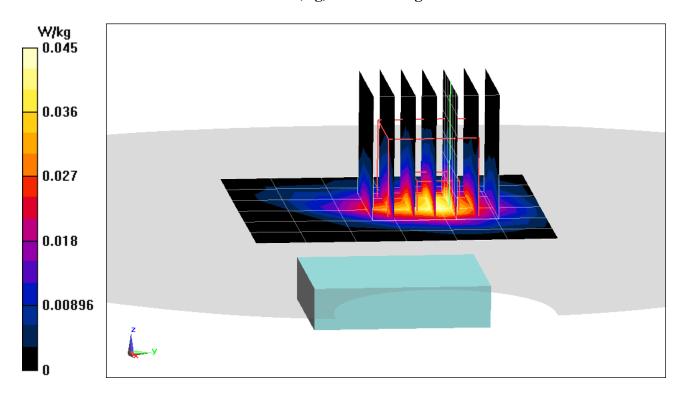
Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.619 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.0680 W/kg

SAR(1 g) = 0.035 W/kg



DUT: BCG-A2008; Type: Watch; Serial: D92WV01MK47P

Communication System: UID 0, UMTS; Frequency: 836.6 MHz; Duty Cycle: 1:1 Medium: 835 Body Medium parameters used (interpolated): $f = 846.6 \text{ MHz}; \ \sigma = 1.02 \text{ S/m}; \ \epsilon_r = 53.879; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-23-2018; Ambient Temp: 21.6°C; Tissue Temp: 22.0°C

Probe: ES3DV3 - SN3275; ConvF(6.16, 6.16, 6.16); Calibrated: 4/12/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/12/2018
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

Mode: UMTS 850, Extremity SAR, Back side, High.ch, Stainless Steel, Metal Links Wrist Band

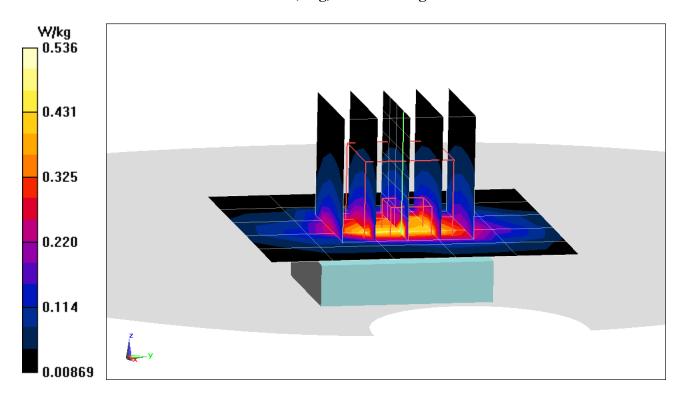
Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.36 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.972 W/kg

SAR(10 g) = 0.243 W/kg



DUT: BCG-A2008; Type: Watch; Serial: D92WV01MK47P

Communication System: UID 0, LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1 Medium: 835 Body Medium parameters used (interpolated): $f = 836.5 \text{ MHz}; \ \sigma = 1.006 \text{ S/m}; \ \epsilon_r = 53.797; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-16-2018; Ambient Temp: 22.3°C; Tissue Temp: 21.8°C

Probe: ES3DV3 - SN3287; ConvF(6.56, 6.56, 6.56); Calibrated: 9/18/2017; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1533; Calibrated: 1/26/2018
Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: LTE Band 5 (Cell.), Extremity SAR, Back side, Mid.ch, 10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset, Stainless Steel, Metal Links Wrist Band

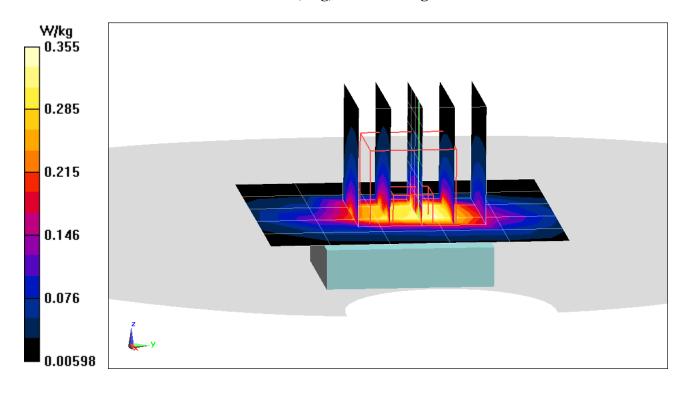
Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.60 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.588 W/kg

SAR(10 g) = 0.146 W/kg



DUT: BCG-A2008; Type: Watch; Serial: C89WT02BK47L

Communication System: UID 0, LTE Band 26; Frequency: 844 MHz; Duty Cycle: 1:1 Medium: 835 Body Medium parameters used (interpolated): f = 844 MHz; $\sigma = 1.013$ S/m; $\epsilon_r = 53.714$; $\rho = 1000$ kg/m³ Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-16-2018; Ambient Temp: 22.3°C; Tissue Temp: 21.8°C

Probe: ES3DV3 - SN3287; ConvF(6.56, 6.56, 6.56); Calibrated: 9/18/2017; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1533; Calibrated: 1/26/2018
Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: LTE Band 26 (Cell.), Extremity SAR, Back side, High.ch, 10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset, Aluminum, Metal Links Wrist Band

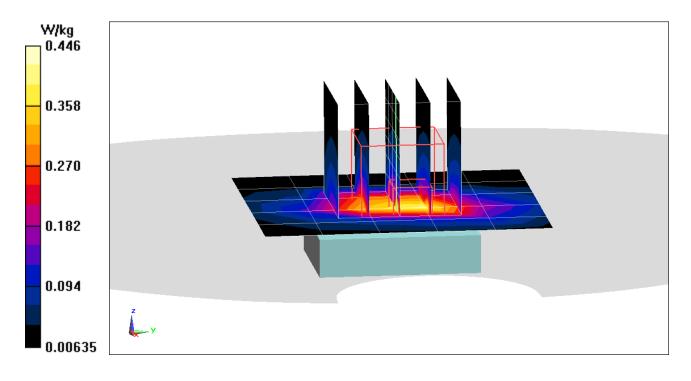
Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.12 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.697 W/kg

SAR(10 g) = 0.156 W/kg



DUT: BCG-A2008; Type: Watch; Serial: C89WT029K47L

Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1 Medium: 2600 Body Medium parameters used (interpolated): $f = 2510 \text{ MHz}; \ \sigma = 2.112 \text{ S/m}; \ \epsilon_r = 51.106; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-09-2018; Ambient Temp: 21.8°C; Tissue Temp: 20.7°C

Probe: ES3DV3 - SN3288; ConvF(4.51, 4.51, 4.51); Calibrated: 1/12/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 1/18/2018
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: LTE Band 7, Extremity SAR, Back side, Low.ch, 20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset, Aluminum, Sport Wrist Band

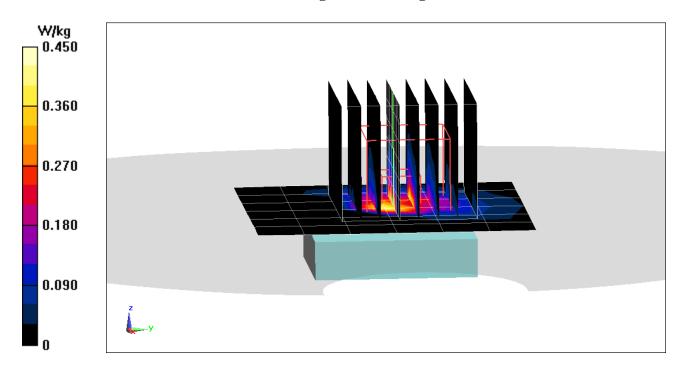
Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (9x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.51 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(10 g) = 0.127 W/kg



DUT: BCG-A2008; Type: Watch; Serial: C89WT039K47L

Communication System: UID 0, LTE Band 41; Frequency: 2680 MHz; Duty Cycle: 1:1.58 Medium: 2600 Body Medium parameters used (interpolated): $f = 2680 \text{ MHz}; \ \sigma = 2.369 \text{ S/m}; \ \epsilon_r = 50.003; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-19-2018; Ambient Temp: 20.5°C; Tissue Temp: 21.1°C

Probe: ES3DV3 - SN3288; ConvF(4.27, 4.27, 4.27); Calibrated: 1/12/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 1/18/2018
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: LTE Band 41, Extremity SAR, Back side, High.ch, 20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset, Aluminum, Sport Wrist Band

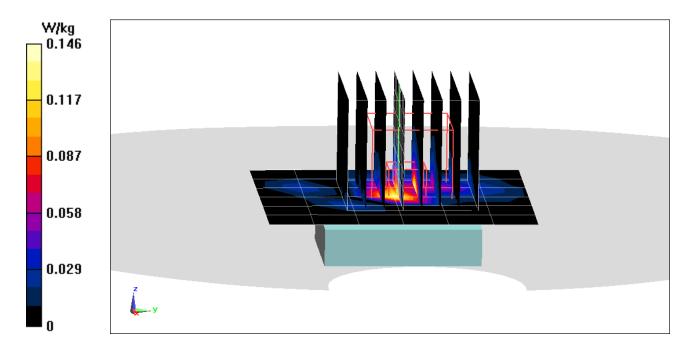
Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (9x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.380 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.280 W/kg

SAR(10 g) = 0.036 W/kg



DUT: BCG-A2008; Type: Watch; Serial: C89WR007K47P

Communication System: UID 0, IEEE 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1 Medium: 2450 Body Medium parameters used (interpolated): $f = 2437 \text{ MHz}; \ \sigma = 2.003 \text{ S/m}; \ \epsilon_r = 51.43; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-10-2018; Ambient Temp: 21.9°C; Tissue Temp: 21.7°C

Probe: ES3DV3 - SN3131; ConvF(4.45, 4.45, 4.45); Calibrated: 3/13/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/7/2018
Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: IEEE 802.11b, 22 MHz Bandwidth, Extremity SAR, Ch 6, 1 Mbps, Back Side, Stainless Steel, Metal Links Wrist Band

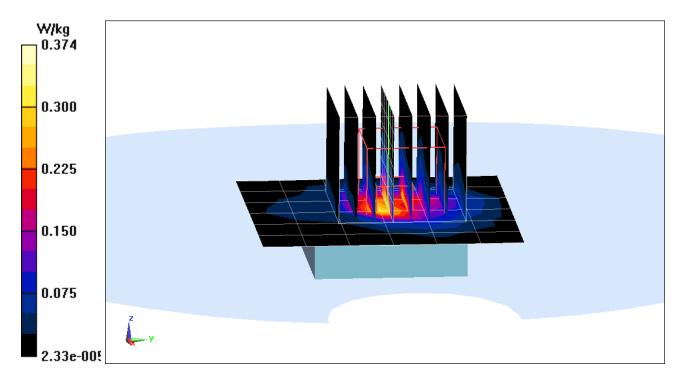
Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.48 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.735 W/kg

SAR(10 g) = 0.108 W/kg



DUT: BCG-A2008; Type: Watch; Serial: D92WV01UK47P

Communication System: UID 0, Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1 Medium: 2450 Body Medium parameters used (interpolated): $f = 2441 \text{ MHz}; \ \sigma = 2.008 \text{ S/m}; \ \epsilon_r = 51.414; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-10-2018; Ambient Temp: 21.9°C; Tissue Temp: 21.7°C

Probe: ES3DV3 - SN3131; ConvF(4.45, 4.45, 4.45); Calibrated: 3/13/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/7/2018
Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: Bluetooth ePA, Extremity SAR, Ch 39, 1 Mbps, Back Side, Stainless Steel, Metal Links Wrist Band

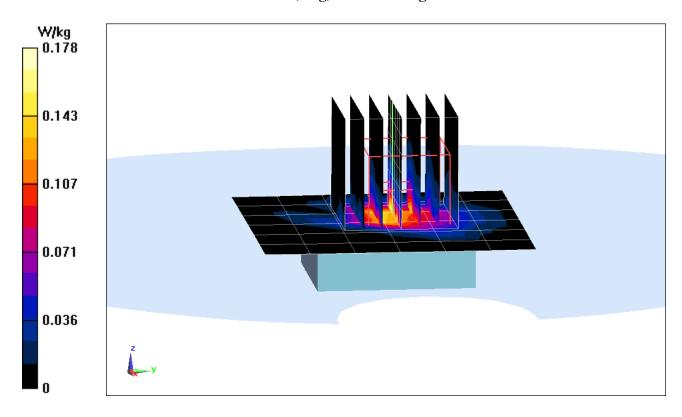
Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.191 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.313 W/kg

SAR(10 g) = 0.047 W/kg



DUT: BCG-A2008; Type: Watch; Serial: C89WR007K47P

Communication System: UID 0, Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1 Medium: 2450 Body Medium parameters used (interpolated): $f = 2441 \text{ MHz}; \ \sigma = 2.008 \text{ S/m}; \ \epsilon_r = 51.414; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-10-2018; Ambient Temp: 21.9°C; Tissue Temp: 21.7°C

Probe: ES3DV3 - SN3131; ConvF(4.45, 4.45, 4.45); Calibrated: 3/13/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/7/2018
Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

Mode: Bluetooth iPA, Extremity SAR, Ch 39, 1 Mbps, Back Side, Stainless Steel, Metal Links Wrist Band

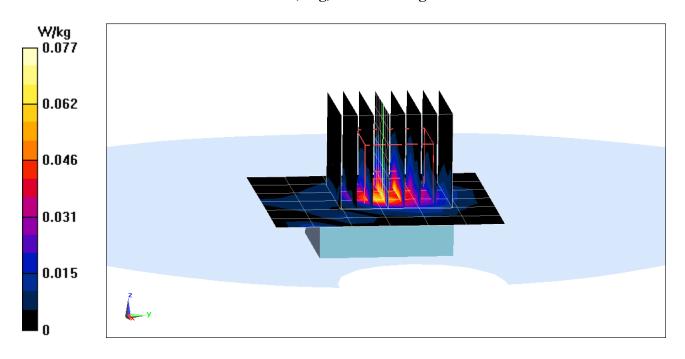
Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.740 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.152 W/kg

SAR(10 g) = 0.022 W/kg



APPENDIX B: SYSTEM VERIFICATION

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d180

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium: 835 Head Medium parameters used: $f = 835 \text{ MHz}; \ \sigma = 0.882 \text{ S/m}; \ \epsilon_r = 41.222; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-09-2018; Ambient Temp: 21.0°C; Tissue Temp: 19.8°C

Probe: ES3DV3 - SN3287; ConvF(6.7, 6.7, 6.7); Calibrated: 9/18/2017; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1533; Calibrated: 1/26/2018
Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

835 MHz System Verification at 23.0 dBm (200 mW)

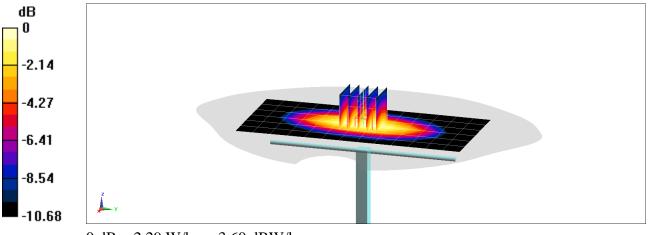
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.93 W/kg

SAR(1 g) = 1.96 W/kg

Deviation(1 g) = 2.08%



DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d180

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium: 835 Head Medium parameters used: $f = 835 \text{ MHz}; \ \sigma = 0.899 \text{ S/m}; \ \epsilon_r = 40.636; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-10-2018; Ambient Temp: 22.2°C; Tissue Temp: 21.6°C

Probe: ES3DV3 - SN3329; ConvF(6.41, 6.41, 6.41); Calibrated: 2/13/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn1403; Calibrated: 2/8/2018 Phantom: SAM Sub; Type: SAM 4.0; Serial: TP-1403

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

835 MHz System Verification at 23.0 dBm (200 mW)

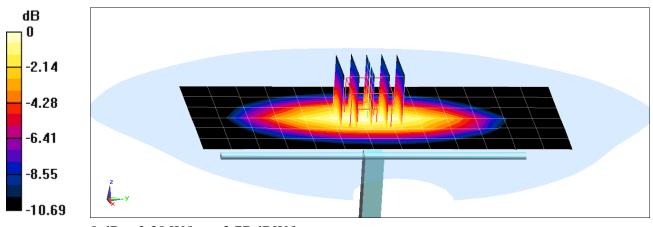
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.00 W/kg

SAR(1 g) = 2.03 W/kg

Deviation(1 g) = 5.73%



0 dB = 2.38 W/kg = 3.77 dBW/kg

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1 Medium: 2450 Head Medium parameters used: $f = 2450 \text{ MHz}; \ \sigma = 1.889 \text{ S/m}; \ \epsilon_r = 38.373; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-05-2018; Ambient Temp: 22.9°C; Tissue Temp: 20.8°C

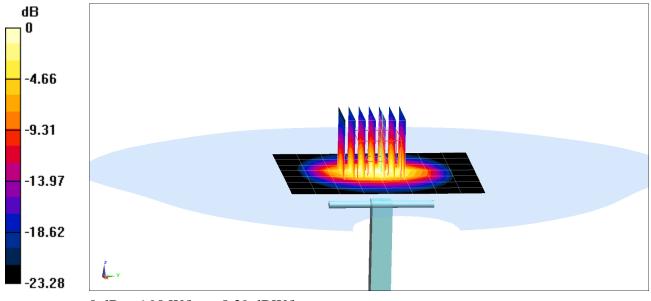
Probe: ES3DV3 - SN3131; ConvF(4.75, 4.75, 4.75); Calibrated: 3/13/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/7/2018 Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

2450 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mmZoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mmPeak SAR (extrapolated) = 11.0 W/kg SAR(1 g) = 5.28 W/kg Deviation(1 g) = 0.96%



0 dB = 6.90 W/kg = 8.39 dBW/kg

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 945

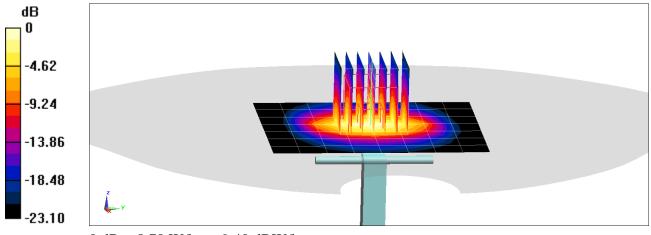
Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1 Medium: 2450 Head Medium parameters used: $f = 2450 \text{ MHz}; \ \sigma = 1.872 \text{ S/m}; \ \epsilon_r = 38.585; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-10-2018; Ambient Temp: 21.9°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7490; ConvF(7.89, 7.89, 7.89); Calibrated: 1/26/2018; Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1532; Calibrated: 1/26/2018
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

2450 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mmZoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mmPeak SAR (extrapolated) = 11.1 W/kg SAR(1 g) = 5.03 W/kg Deviation(1 g) = -1.37%



0 dB = 8.70 W/kg = 9.40 dBW/kg

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

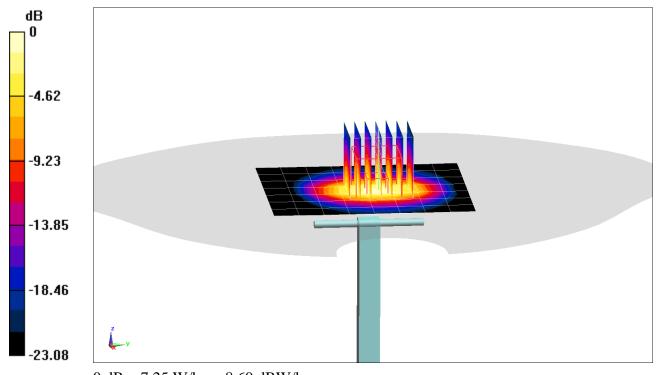
Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1 Medium: 2450 Head Medium parameters used: $f = 2450 \text{ MHz}; \ \sigma = 1.871 \text{ S/m}; \ \epsilon_r = 38.371; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-30-2018; Ambient Temp: 22.8°C; Tissue Temp: 20.8°C

Probe: ES3DV3 - SN3119; ConvF(4.58, 4.58, 4.58); Calibrated: 5/18/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn728; Calibrated: 5/17/2018
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

2450 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mmZoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mmPeak SAR (extrapolated) = 11.5 W/kg SAR(1 g) = 5.43 W/kg Deviation(1 g) = 3.82%



0 dB = 7.25 W/kg = 8.60 dBW/kg

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1069

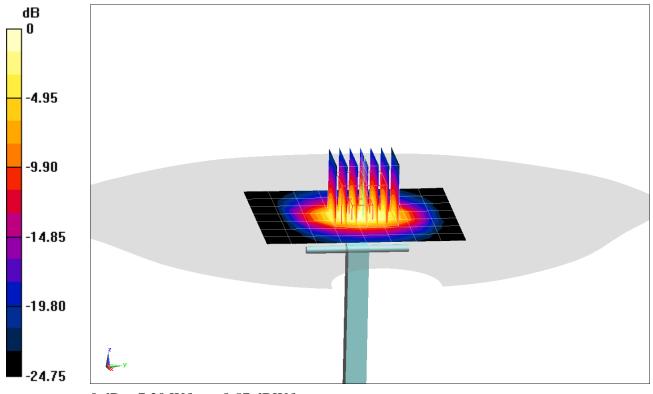
Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1 Medium: 2600 Head Medium parameters used: $f = 2600 \text{ MHz}; \ \sigma = 2.017 \text{ S/m}; \ \epsilon_r = 37.435; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-19-2018; Ambient Temp: 24.0°C; Tissue Temp: 21.2°C

Probe: ES3DV3 - SN3119; ConvF(4.47, 4.47, 4.47); Calibrated: 5/18/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn728; Calibrated: 5/17/2018
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

2600 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mmZoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mmPeak SAR (extrapolated) = 12.0 W/kg SAR(1 g) = 5.44 W/kg Deviation(1 g) = -4.39%



0 dB = 7.20 W/kg = 8.57 dBW/kg

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1009

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1 Medium: 2600 Head Medium parameters used: $f = 2600 \text{ MHz}; \ \sigma = 2.037 \text{ S/m}; \ \epsilon_r = 37.801; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-30-2018; Ambient Temp: 22.8°C; Tissue Temp: 20.8°C

Probe: ES3DV3 - SN3119; ConvF(4.47, 4.47, 4.47); Calibrated: 5/18/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn728; Calibrated: 5/17/2018
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

2600 MHz System Verification at 20.0 dBm (100 mW)

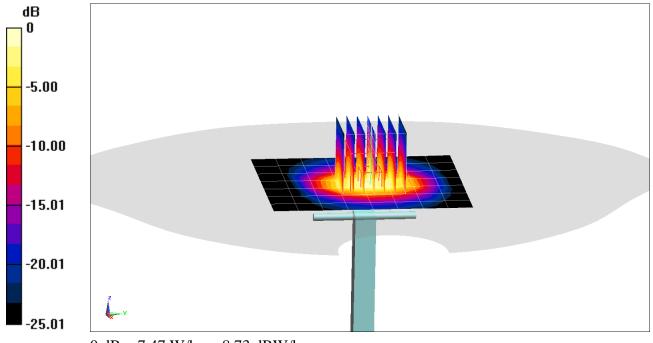
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 5.6 W/kg

Deviation(1 g) = 0.36%



0 dB = 7.47 W/kg = 8.73 dBW/kg

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d180

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium: 835 Body Medium parameters used: $f = 835 \text{ MHz}; \ \sigma = 1.004 \text{ S/m}; \ \epsilon_r = 53.814; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-16-2018; Ambient Temp: 22.3°C; Tissue Temp: 21.8°C

Probe: ES3DV3 - SN3287; ConvF(6.56, 6.56, 6.56); Calibrated: 9/18/2017; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1533; Calibrated: 1/26/2018
Phantom: Twin-SAM V8.0; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

835 MHz System Verification at 23.0 dBm (200 mW)

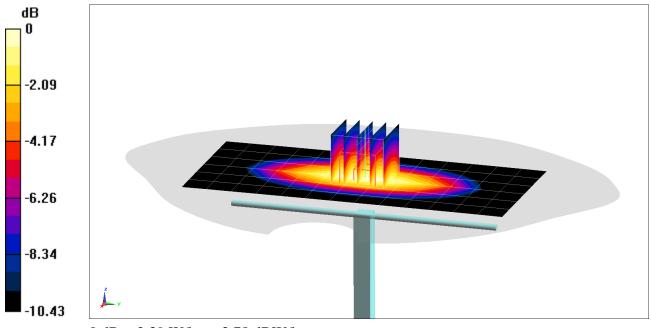
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.05 W/kg

SAR(10 g) = 1.35 W/kg

Deviation(10 g) = 6.97%



DUT: Dipole 850 MHz; Type: D850V2; Serial: 1009

Communication System: UID 0, CW (0); Frequency: 850 MHz; Duty Cycle: 1:1 Medium: 835 Body Medium parameters used: $f = 850 \text{ MHz}; \ \sigma = 1.021 \text{ S/m}; \ \epsilon_r = 53.867; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-23-2018; Ambient Temp: 21.6°C; Tissue Temp: 22.0°C

Probe: ES3DV3 - SN3275; ConvF(6.16, 6.16, 6.16); Calibrated: 4/12/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/12/2018
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

850 MHz System Verification at 23.0 dBm (200 mW)

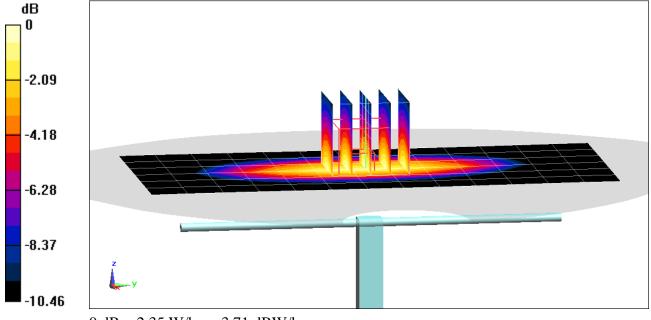
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.00 W/kg

SAR(10 g) = 1.34 W/kg

Deviation(10 g) = 3.40%



DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 945

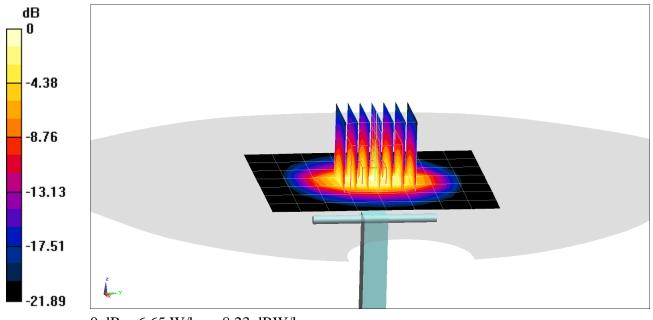
Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1 Medium: 2450 Body Medium parameters used: $f = 2450 \text{ MHz}; \ \sigma = 2.042 \text{ S/m}; \ \epsilon_r = 51.293; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-09-2018; Ambient Temp: 21.8°C; Tissue Temp: 20.7°C

Probe: ES3DV3 - SN3288; ConvF(4.51, 4.51, 4.51); Calibrated: 1/12/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 1/18/2018
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

2450 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mmZoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mmPeak SAR (extrapolated) = 10.6 W/kg SAR(10 g) = 2.34 W/kg Deviation(10 g) = 0.86%



0 dB = 6.65 W/kg = 8.23 dBW/kg

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 750

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1 Medium: 2450 Body Medium parameters used: $f = 2450 \text{ MHz}; \ \sigma = 2.02 \text{ S/m}; \ \epsilon_r = 51.378; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-10-2018; Ambient Temp: 21.9°C; Tissue Temp: 21.7°C

Probe: ES3DV3 - SN3131; ConvF(4.45, 4.45, 4.45); Calibrated: 3/13/2018;

Sensor-Surface: 3mm (Mechanical Surface Detection) Electronics: DAE4 Sn604; Calibrated: 3/7/2018 Phantom: SAM Main; Type: SAM 4.0; Serial: TP-1406

Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

2450 MHz System Verification at 20.0 dBm (100 mW)

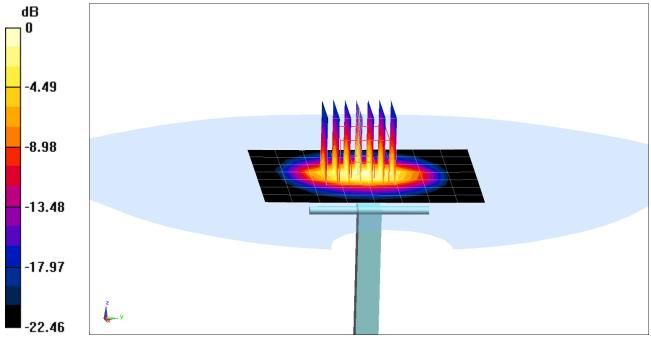
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 11.0 W/kg

SAR(10 g) = 2.48 W/kg

Deviation(10 g) = 2.48%



0 dB = 6.96 W/kg = 8.43 dBW/kg

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1009

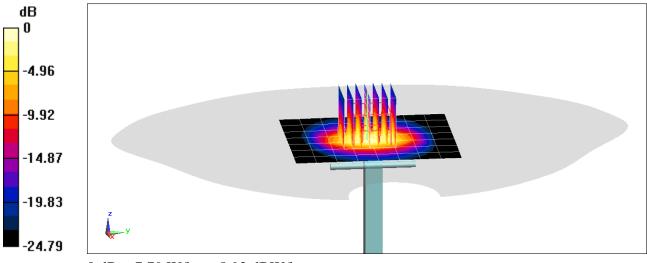
Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1 Medium: 2600 Body Medium parameters used: $f = 2600 \text{ MHz}; \ \sigma = 2.254 \text{ S/m}; \ \epsilon_r = 50.326; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-19-2018; Ambient Temp: 20.5°C; Tissue Temp: 21.1°C

Probe: ES3DV3 - SN3288; ConvF(4.27, 4.27, 4.27); Calibrated: 1/12/2018; Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 1/18/2018
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596
Measurement SW: DASY52, Version 52.10; SEMCAD X Version 14.6.10 (7417)

2600 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mmZoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mmPeak SAR (extrapolated) = 13.2 W/kg SAR(10 g) = 2.63 W/kg Deviation(10 g) = 5.20%



0 dB = 7.79 W/kg = 8.92 dBW/kg

APPENDIX C: PROBE CALIBRATION

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





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

Accreditation No.: SCS 0108

Client

PC Test

Certificate No: ES3-3119_May18

CALIBRATION CERTIFICATE

Object

ES3DV3 - SN:3119

Calibration procedure(s)

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

5/31/2019

Calibration date:

May 18, 2018

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Арг-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-17)	In house check: Oct-18

Calibrated by:

Name
Function
Signature
Laboratory Technician

Approved by:

Katja Pokovic
Technical Manager

Issued: May 21, 2018

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

Calibration Laboratory of

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





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Glossary:

TSL

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

ConvF

sensitivity in TSL / NORMx.v.z diode compression point

DCP CF

crest factor (1/duty cycle) of the RF signal

A, B, C, D

modulation dependent linearization parameters

Polarization o

φ rotation around probe axis

Polarization 9

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

i.e., 9 = 0 is normal to probe axis

Connector Angle

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

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

Page 2 of 39 Certificate No: ES3-3119_May18

Probe ES3DV3

SN:3119

Manufactured: March 6, 2006 Calibrated: May 18, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: ES3-3119_May18 Page 3 of 39

ES3DV3-SN:3119

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3119

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ²) ^A	1.29	1.24	1.46	± 10.1 %
DCP (mV) ^B	103.8	100.9	104.2	

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	216.1	±3.5 %
		Y	0.0	0.0	1.0		211.8	
		Z	0.0	0.0	1.0		224.3	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	T6
Х	72.42	520.3	35.53	32.26	3.723	5.10	0.546	0.664	1.013
Υ	69.42	504.6	36.16	29.8	3.581	5.10	0.322	0.714	1.012
Z	62.37	447.3	35.30	29.91	3.519	5.10	0.726	0.593	1.014

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

Numerical linearization parameter: uncertainty not required.

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: ES3DV3 - SN:3119

Calibration Parameter Determined in Head Tissue Simulating Media

					_			
f (MHz) ^c	Relative Permittivity ^f	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	6.18	6.18	6.18	0.80	1.17	± 12.0 %
835	41.5	0.90	5.96	5.96	5.96	0.80	1.12	± 12.0 %
1750	40.1	1.37	5.22	5.22	5.22	0.55	1.37	± 12.0 %
1900	40.0	1.40	4.97	4.97	4.97	0.71	1.21	± 12.0 %
2300	39.5	1.67	4.78	4.78	4.78	0.79	1.28	± 12.0 %
2450	39.2	1.80	4.58	4.58	4.58	0.60	1.44	± 12.0 %
2600	39.0	1.96	4.47	4.47	4.47	0.78	1.30	± 12.0 %

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

Certificate No: ES3-3119_May18 Page 5 of 39

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

the ConvF uncertainty for indicated target tissue parameters.

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

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3119

Calibration Parameter Determined in Body Tissue Simulating Media

			_		_			
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	6.01	6.01	6.01	0.80	1.16	± 12.0 %
835	55.2	0.97	5.84	5.84	5.84	0.68	1.25	± 12.0 %
1750	53.4	1.49	4.87	4.87	4.87	0.52	1.51	± 12.0 %
1900	53.3	1.52	4.65	4.65	4.65	0.60	1.45	± 12.0 %
2300	52.9	1.81	4.52	4.52	4.52	0.80	1.30	± 12.0 %
2450	52.7	1.95	4.42	4.42	4.42	0.72	1.30	± 12.0 %
2600	52,5	2.16	4.24	4.24	4.24	0.80	1.25	± 12.0 %

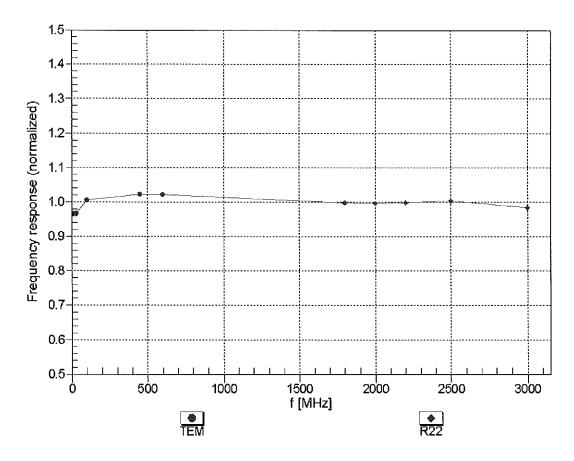
^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is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

Certificate No: ES3-3119_May18

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

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

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

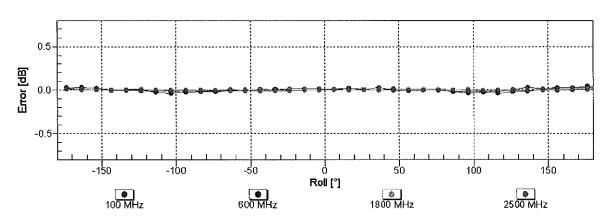


Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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

f=600 MHz,TEM f=1800 MHz,R22

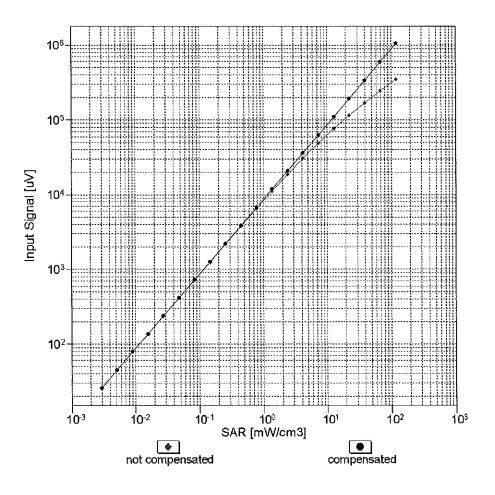
Tot

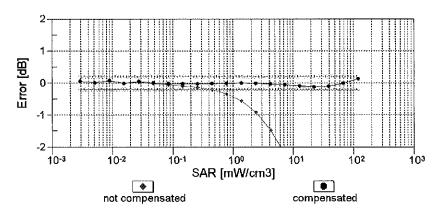


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Tot

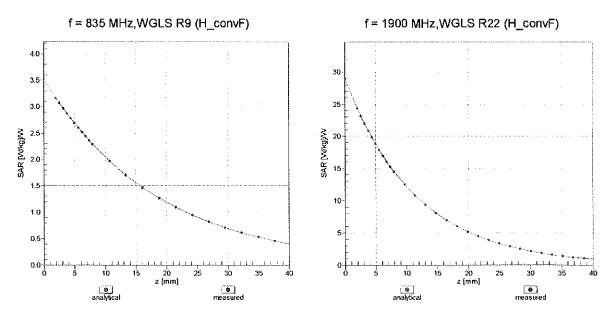
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



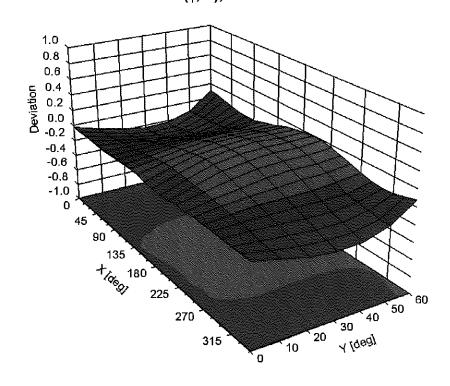


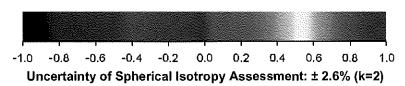
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



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





DASY/EASY - Parameters of Probe: ES3DV3 - SN:3119

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	116.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

Certificate No: ES3-3119_May18 Page 11 of 39

Appendix: Modulation Calibration Parameters

ÚÍĎ	ix: Modulation Calibration Paral 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	216.1	± 3.5 %
		Y	0.00	0.00	1.00		211.8	
10010-	SAR Validation (Square, 100ms, 10ms)	Z X	0.00 8.73	0,00 79.24	1.00 19.64	40.00	224.3	1000
CAA	SAR Validation (Square, 100ms, 10ms)	^	6.73	19.24	19.04	10.00	25.0	± 9.6 %
		Υ	8.22	78.60	19.24		25.0	
		Z	8.30	78.73	19.30		25.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.18	69,40	16.37	0.00	150.0	± 9.6 %
****		Y Z	1.00 1.02	66.42 66.81	14.47 14.65		150.0 150.0	
10012-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	X	1.35	65.74	16.29	0.41	150.0	± 9.6 %
CAB	Mbps)		1.00	00.74	10.20	0.41	100.0	1 3.0 /0
		Υ	1.27	64.54	15.34		150.0	***************************************
10010		Z	1.29	64.83	15.46		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	5.27	67.30	17.53	1.46	150.0	± 9.6 %
		Y	5.21	67.06	17.33		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	Z X	5.19 13.20	67.24 87.31	17.38 24.20	9.39	150.0 50.0	± 9.6 %
		Y	14.24	89.06	24.72		50.0	
		Z	13.07	87.41	24.10		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	12.71	86.51	23.97	9.57	50.0	± 9.6 %
		Y	13.48	87.95	24.39		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	12.52 29.44	86.52 100.96	23.84 26.87	6.56	50.0 60.0	± 9.6 %
<i>D</i> , 10		Y	36.27	104.28	27.64		60.0	
		Ż	27.08	99.64	26.30		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	Х	19.40	104.04	39.34	12.57	50.0	± 9.6 %
***************************************		Y	15.24	96.91	36.40		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	19.47 19.15	104.97 100.47	39.82 34.47	9.56	50.0 60.0	± 9.6 %
		Y	16.00	96.21	32.83		60.0	
		Z	18.67	100.57	34.57		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	118.39	30.10	4.80	80.0	± 9.6 %
		Y	100.00	118.07	29.78		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00 100.00	117.92 118.11	29.73 29.09	3.55	80.0 100.0	± 9.6 %
		Y	100.00	117.47	28.62		100,0	
		Z	100.00	117.40	28.61		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	Х	14.41	94.58	31.36	7.80	80.0	± 9.6 %
		Y	11.98	90.47	29.74		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Z X	13.55 71.37	93.77 113.48	31.11 29.28	5.30	80.0 70.0	± 9.6 %
		Y	80.38	114.95	29.42		70.0	
		Z	51.73	108.49	27.78		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Х	100.00	119.05	27.84	1.88	100.0	± 9.6 %
		Y	100.00	116.75	26.65	<u> </u>	100.0	
		Z	100.00	116.98	26.79		100.0	

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	100.00	122.71	28.21	1.17	100.0	± 9.6 %
		Y	100.00	117.99	26,02		100.0	
		Z	100.00	118.71	26.38		100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Х	13.57	91.65	25.57	5.30	70.0	± 9.6 %
		Υ	11.95	89.62	24.76		70.0	
		Z	11.45	88.56	24.23		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	7.28	86.87	22.66	1.88	100.0	± 9.6 %
		Υ	5.23	81.63	20,57		100.0	
		Z	5.28	81.38	20.22		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Х	4.50	81.61	20.64	1.17	100.0	± 9.6 %
		Y	3.25	76.50	18.39		100.0	
40000	NEEE 000 45 4 DL / / / O DDOM DLIA	Z	3.35	76.72	18,21	E 00	100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	15.24	93.77	26.32	5.30	70.0	± 9.6 %
		Y	13.48	91.82	25.54		70.0	
40007	HEEF COO AS A Physical Control of the Property Street	Z	12.71	90.45	24.91		70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Х	7.19	86.72	22.57	1.88	100.0	± 9.6 %
*		Y	5.11	81.33	20.42		100.0	
40000	JEEE 000 45 4 Physical March 20 PROM SWEET	Z	5.15	81.11	20.08	4	100.0	. 0 0 0
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	4.68	82.42	21.00	1.17	100.0	± 9.6 %
		Y	3.33	77.08	18.69		100.0	
40000	ODAMOROO (4. DTT. DO4)	Z	3.43	77.26	18.50	0.00	100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	Х	2.16	73.15	17.25	0.00	150.0	± 9.6 %
		Y	1.77	69.93	15.42		150.0	
		Z	1.72	70.01	15.21		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	18.43	92.51	24.39	7.78	50.0	± 9.6 %
		Υ	20.51	94.38	24.83		50.0	
		Z	17.67	91.92	24.02		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	122.09	1.31	0.00	150.0	± 9.6 %
		Υ	0.04	110.13	12.38		150.0	
		Z	0.00	105.54	4.08		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	10.37	80.17	23.48	13.80	25.0	± 9.6 %
·····		Y	10.36	80.56	23.53		25.0	
		Z	10.13	80.12	23.33		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	Х	11.21	83.49	23.32	10.79	40.0	± 9.6 %
		Υ	11.43	84.26	23.51		40.0	
10055	1114770 770 770 770 770 770 770 770 770 770	Z	11.02	83.48	23.17		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	11.59	84.51	24.03	9.03	50.0	± 9.6 %
		Y	11.18	84.11	23.78		50.0	
		Z	11.20	84.06	23.67		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	11.19	89.96	29.01	6.55	100.0	± 9.6 %
		Y	9.36	86.15	27.45		100.0	
10059-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	Z X	10.26 1.57	88.57 68.22	28.50 17.45	0.61	100.0 110.0	± 9.6 %
CAB	Mbps)		_ء د		10.00			
		Y	1.45	66.58	16.33		110.0	
10000	IEEE 900 445 MEELO 4 OUT /DOOD 5.5	Z	1.47	66.93	16.46		110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	Х	100.00	130.04	33,38	1.30	110.0	± 9.6 %
		Y	26.92	109.88	28.23		110.0	
		Z	34.27	113.21	29.05		110.0	i

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Х	11.36	96.78	27.09	2.04	110.0	± 9.6 %
סעם	Mbps)	Y	7.01	88.67	24.31		4400	
		Z	7.44				110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.98	89.54 67.03	24.54 16.80	0.49	110.0 100.0	± 9.6 %
		Y	4.93	66.80	16.61		100.0	
		Z	4.88	66,93	16.62		100.0	-
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	5.03	67.22	16.96	0.72	100.0	± 9.6 %
		Υ	4.97	66.97	16.76		100.0	
		Z	4.93	67.10	16.77		100.0	
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.40	67.60	17.24	0.86	100.0	± 9.6 %
		Y	5.33	67.36	17.04		100.0	
		Z	5.27	67.47	17.06		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	Х	5.30	67.66	17.42	1.21	100.0	± 9.6 %
		Υ	5.24	67.40	17.21		100.0	
10555		Z	5.19	67.53	17.24		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.37	67.83	17.66	1.46	100.0	± 9.6 %
		Y	5.30	67.55	17.45		100.0	
		Z	5.25	67.70	17.49		100.0	
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	Х	5.70	67.99	18.14	2.04	100.0	± 9.6 %
		Y	5.63	67.72	17.92		100.0	
		Z	5.59	67.91	17.99		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.88	68.47	18.56	2.55	100.0	± 9.6 %
		Y	5.80	68.16	18.32		100.0	
		Z	5.76	68.35	18.40		100.0	
10069- CAC	IEEE 802.11a/h WiFl 5 GHz (OFDM, 54 Mbps)	Х	5.95	68.35	18.73	2.67	100.0	± 9.6 %
		Υ	5.87	68.05	18.49		100.0	
		Z	5.84	68.31	18.61		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.43	67.58	17.94	1.99	100.0	± 9.6 %
		Υ	5.37	67.33	17.73		100.0	
		Z	5.35	67.53	17.80		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	5.53	68.22	18.29	2.30	100.0	± 9.6 %
		Υ	5.45	67.92	18.06	4	100.0	
		Z	5.43	68.14	18.14		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.69	68.63	18.74	2.83	100.0	± 9.6 %
		Y	5.60	68.30	18.49		100.0	
10074-	IEEE 802.11g WiFi 2.4 GHz	Z X	5.60 5.74	68.56 68.79	18.60 19.06	3.30	100.0 100.0	± 9.6 %
CAB	(DSSS/OFDM, 24 Mbps)	+ ,	ECF	60.40	40 70		400.0	1
		Y 7	5.65	68.42	18.78		100.0	
10075-	IEEE 802.11g WiFi 2.4 GHz	Z	5,65 5.96	68.70 69.48	18.90 19.66	3.82	100.0 90.0	1000
CAB	(DSSS/OFDM, 36 Mbps)					3.62		± 9.6 %
		Y	5.85	69.02	19.33		90.0	<u> </u>
10076-	IEEE 802.11g WiFi 2.4 GHz	Z X	5.85 5.96	69.31 69.26	19.47 19.77	4.15	90.0	± 9.6 %
CAB	(DSSS/OFDM, 48 Mbps)	Y	5.85	68.80	19.43		00.0	
		Z	5.87	69.15	19.43		90.0	Д
10077-	IEEE 802.11g WiFi 2.4 GHz	X	6.00	69.15	19.88	4.30	90.0	± 9.6 %
CAB	(DSSS/OFDM, 54 Mbps)					4.30		T 3.0 %
		Y	5.89	68.89	19.54		90.0	ļ
		Z	5.91	69.25	19.72	<u> </u>	90.0	<u> </u>

		·					·	
10081- CAB	CDMA2000 (1xRTT, RC3)	X	1.08	68.35	14.76	0.00	150.0	± 9.6 %
		Υ	0.89	65.35	12.75		150.0	
		Ζ	0.86	65.31	12.50		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	Х	2.63	65.24	10.07	4.77	80.0	± 9.6 %
		Y	2.38	64.43	9.48		80.0	
		Z	2.42	64.64	9.62		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	Х	28.70	100.61	26.81	6.56	60.0	± 9.6 %
		Υ	35.30	103.92	27.58		60.0	· · ·
		Ζ	26.48	99.34	26.25		60.0	
10097- CAB	UMTS-FDD (HSDPA)	Х	1.91	67.94	16.12	0.00	150.0	± 9.6 %
		Y	1.79	66.66	15.20		150.0	
	4.0.15.	Z	1.79	66.89	15.24	0.00	150.0	
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.87	67.94	16.10	0.00	150.0	± 9.6 %
		Y	1.75	66.61	15.16		150.0	***************************************
40000	FROM FROM (TOLL)	Z	1.75	66.86	15.20		150.0	
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	Х	19.04	100.29	34.41	9.56	60.0	± 9.6 %
		Υ	15.94	96.08	32.79		60.0	
		Z	18.56	100.39	34.51		60.0	
10100- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.45	71.42	17.07	0.00	150.0	± 9.6 %
		Y	3.20	70.01	16.28		150.0	
		Z	3.18	70.12	16.33		150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.47	68.22	16.25	0.00	150.0	± 9.6 %
		Υ	3.36	67.53	15.79		150.0	
		Z	3.32	67.60	15.80		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.56	68.08	16.30	0.00	150.0	± 9.6 %
		Y	3.46	67.47	15.88		150.0	
		Z	3.42	67.51	15.88		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	Х	8.64	77.20	20.80	3.98	65.0	±9.6%
	The second secon	Y	8.38	76.89	20.66		65.0	
		Z	8.29	76.81	20.60		65.0	
10104- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	8.95	76.81	21.55	3.98	65.0	± 9.6 %
		Υ	8.55	76.08	21.19		65.0	
		Z.	8.63	76.46	21.35		65.0	
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	8.33	75.39	21.22	3.98	65.0	± 9.6 %
		Y	7.70	74.02	20.57		65.0	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Z	8.09	75.17	21.07		65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	×	3.06	70.58	16.90	0.00	150.0	± 9.6 %
		Υ	2.84	69.23	16.10	<u></u>	150.0	
		Z	2.81	69.34	16.16		150.0	
10109- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	3.15	67.99	16,20	0.00	150.0	±9.6%
		Υ	3.03	67.27	15.70		150.0	
		Z	2.99	67.33	15.69		150.0	
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	×	2.53	69.63	16.63	0.00	150.0	± 9.6 %
		Υ	2.34	68.24	15.76		150.0	
		Z	2.30	68.40	15.82		150.0	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.82	68.33	16.43	0.00	150.0	± 9.6 %
	·	Y	2.70	67.57	15.88	·	150.0	
		Z	2.66	67.62	15.81	1	150.0	·

10112-	LTE-FDD (SC-FDMA, 100% RB, 10	х	3.26	67.85	16,20	0.00	150.0	± 9.6 %
CAE	MHz, 64-QAM)		0.20	07.03	10,20	0.00	150.0	I I 9.0 %
		Υ	3.15	67.21	15.75		150.0	
		Z	3.11	67.27	15.73	***************************************	150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	2.97	68,34	16.51	0.00	150.0	± 9.6 %
		Υ	2.86	67.66	16.01		150.0	
		Z	2.81	67.71	15.93		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	Х	5.32	67.42	16.55	0.00	150.0	± 9.6 %
		Υ	5.26	67.16	16.36		150.0	
		Z	5.21	67.21	16.35		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	5.74	67.85	16.77	0.00	150.0	± 9.6 %
		Υ	5.67	67.57	16.57		150.0	
		Ζ	5.59	67.55	16.53		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	Х	5.45	67.66	16.59	0.00	150.0	± 9.6 %
		Υ	5.39	67.42	16.41		150.0	
		Z	5.34	67.49	16.41		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	Х	5.32	67.43	16.58	0.00	150.0	± 9.6 %
		Υ	5.27	67.20	16.39		150.0	
		Ζ	5.22	67.24	16.39		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	Х	5.75	67.79	16.74	0.00	150.0	± 9.6 %
		Υ	5.70	67.57	16.57		150.0	
		Z	5.66	67.71	16.62		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	Х	5.42	67.62	16.58	0.00	150.0	± 9.6 %
		Υ	5.37	67.40	16.41		150.0	
		Ζ	5.32	67.45	16.41		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.62	68.08	16.23	0.00	150.0	± 9.6 %
		Υ	3.52	67.48	15,81		150.0	
		Ζ	3.47	67.53	15.81		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3.73	68.07	16.35	0.00	150.0	±9.6%
		Y	3.63	67.52	15.97		150.0	
		Ζ	3.59	67.57	15.96		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	2.30	69.51	16.49	0.00	150.0	± 9.6 %
		Y	2.11	68.01	15.52		150.0	
		Ζ	2.07	68.17	15.52		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	2.70	68.91	16.38	0.00	150.0	±9.6%
		Y	2.56	68.00	15.71		150.0	
		Z	2.50	68.03	15.56		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.56	67.32	15.21	0.00	150.0	± 9.6 %
		Υ	2.43	66.43	14.52		150.0	
		Z	2.37	66.52	14.40		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	1.69	68.28	14.84	0.00	150.0	±9.6 %
		Y	1.48	66.23	13.42		150.0	
		Z	1.39	65.84	12.87		150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	3.98	75.21	17.70	0.00	150.0	±9.6%
		Υ	3.30	72.27	16.12		150.0	
		Z	3.38	72.80	16.00		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	4.85	78.25	19.08	0.00	150.0	±9.6%
		Y	4.01	75.19	17.53		150.0	
		Z	4.13	75.68	17.34	,	150.0	

10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	3.15	68.04	16.24	0.00	150.0	± 9.6 %
		Υ	3.04	67.32	15.74		150.0	
		Z	3.00	67.38	15.73		150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	Х	3.27	67.89	16.24	0.00	150.0	± 9.6 %
		Υ	3.16	67.26	15.78		150.0	
		Z	3.12	67.31	15.77		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	9.08	79.17	21.71	3.98	65.0	± 9.6 %
		Υ	8.66	78.57	21.43		65.0	
		Ζ	8.76	78.93	21.54		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	8.61	77.04	21.49	3.98	65.0	± 9.6 %
		Y	8.16	76.19	21.06		65.0	
10/50		Z	8.25	76.62	21.21		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	8.89	77.55	22.01	3.98	65.0	± 9.6 %
		Υ	8.48	76.82	21.65		65.0	
40:-:		Z	8.56	77.20	21,77		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.58	70.07	16.91	0.00	150.0	± 9.6 %
		Y	2.39	68.67	16.03		150.0	
40488		Z	2.35	68.75	16.04		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.82	68.33	16.44	0.00	150.0	± 9.6 %
		Y	2.70	67.56	15.88		150.0	
10150	LITE EDD (OO EDMA GOO! DD EANL	Z	2.66	67.62	15.82		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	2.17	69.82	16.55	0.00	150.0	± 9.6 %
		Υ	1.97	68.12	15.45		150.0	
		Z	1.92	68,22	15.38		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.40	67.95	15.40	0.00	150.0	± 9.6 %
		Y	2.25	66.86	14.60		150.0	
		Z	2.19	66.92	14.43		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.98	68.37	16.54	0.00	150.0	±9.6 %
		Υ	2.87	67.70	16.04		150.0	
		Z	2.81	67.75	15.96		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	2.51	68.29	15.64	0.00	150.0	± 9.6 %
		Y	2.35	67.25	14.87		150.0	
		Z	2.29	67.27	14.67		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.99	69.24	16.61	0.00	150.0	± 9.6 %
		Y	2.85	68.29	15.98		150.0	
10161-	LTE-FDD (SC-FDMA, 50% RB, 15 MHz,	Z X	2.81 3.15	68.40 67.74	16.01 16.18	0.00	150.0 150.0	± 9.6 %
CAD	16-QAM)	Y	2.05	6711	16.70		450.0	
		Z	3.05 3.01	67.11	15.72		150.0	
10162-	LTE-FDD (SC-FDMA, 50% RB, 15 MHz,	X		67.18	15.69	0.00	150.0 150.0	+060/
CAD	64-QAM)		3.25	67.73	16.22	0.00		± 9.6 %
		Y	3.15	67.15	15.79	<u></u>	150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	Z X	3.11 4.19	67.26 70.80	15.78 19.90	3.01	150.0 150.0	± 9.6 %
<u> </u>	QLOIN)	Y	4.05	70.08	19.40		150.0	
		Z	4.05	70.08		<u></u>	150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	5.48	74.21	19.80 20.58	3.01	150.0	± 9.6 %
UAE	TO-Q/AIVI)	Υ	E 10	72 12	10.05		450.0	
		Z	5.19	73.13	19.95		150.0	
··			5.31	74.28	20.49	L	150.0	

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	5.90	75.78	21.52	3.01	150.0	± 9.6 %
		Y	5.63	74.88	21.00		150.0	
		Z	5.76	76.02	21.51		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	4.12	73.63	21.07	3.01	150.0	± 9.6 %
		Υ	3.82	71.98	20.15		150.0	
		Z	3.81	72.59	20.57		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	6.34	80.63	23.44	3.01	150.0	± 9.6 %
		Υ	5.64	78.30	22.38		150.0	
404=4		Z	5.78	79.52	22.98	,,,,,	150.0	
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	5.20	76.32	20.89	3.01	150.0	± 9.6 %
		<u>Y</u>	4.62	73.99	19.74		150.0	
40470	1 TT TDD (0.0 FD) 1 TD 0.0 (1)	Z	4.75	75.32	20.43		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	28.12	106.47	32.64	6.02	65.0	± 9.6 %
***************************************		Y	20.29	100.26	30.66		65.0	
40470	LITE TOD (OO EDIA) A DD COLUI	Z	30.84	109.43	33.61		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	24.51	99.51	29.04	6.02	65.0	± 9.6 %
		Y	21.06	97.01	28.21		65.0	
40474	LTT TOP (OO EDIA 4 ED CO 1111	Z	27.06	102.23	29.86		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	20.30	95.06	27.24	6.02	65.0	± 9.6 %
		Y	17.61	92.80	26.46		65.0	
40475	LITE FOR 100 FRAM 4 PR 10 HILL	<u>Z</u>	22.39	97.69	28.04		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	4.06	73.26	20.82	3.01	150.0	± 9.6 %
		Y	3.77	71.61	19.88		150.0	
		Z	3.77	72.26	20.34		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	6.35	80.66	23.45	3.01	150.0	± 9.6 %
		Y	5.65	78.32	22.39		150.0	
		Z	5.79	79.55	22.99		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	4.10	73.44	20.92	3.01	150.0	± 9.6 %
		Υ	3.80	71.80	20.00		150.0	
		Z	3.80	72.42	20.43		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	6.25	80.32	23.30	3.01	150.0	± 9.6 %
		Υ	5.56	77.99	22.23		150.0	
		<u> Z</u>	5.71	79.26	22.86		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	5.71	78.27	22.00	3.01	150.0	±9.6%
		Y	5.07	75.93	20.89		150.0	
		Z	5.22	77.27	21.56		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	5.17	76.20	20.82	3.01	150.0	± 9.6 %
		Y	4.59	73.88	19.67		150.0	
		Z	4.74	75.23	20.38	<u> </u>	150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	4.09	73.42	20.91	3.01	150.0	±9.6%
		<u>Y</u>	3.80	71.78	19.99		150.0	
		Z	3.79	72.40	20.42		150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	6.24	80.30	23.29	3.01	150.0	± 9.6 %
		Υ	5.55	77.97	22.22		150.0	
		Z	5.70	79.24	22.84		150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	5.16	76.18	20.81	3.01	150.0	± 9.6 %
		Y	4.59	73.86	19.66		150.0	
		Z	4.73	75.21	20.37		150.0	

10184-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz,	Х	4.11	73.46	20.93	3.01	150.0	± 9.6 %
CAD	QPSK)	Υ	3.81	74.00	20.01		150.0	
		Z		71.82				
10185-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-	X	3.81 6.27	72.44 80.37	20.44 23.32	3.01	150.0 150.0	± 9.6 %
CAD	QAM)	Y	E E0	70.04	00.00		450.0	
		Z	5.58 5.73	78.04 79.31	22.26		150.0	
10186-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-	X	5.19	76.25	22.88 20.85	3.01	150.0 150.0	± 9.6 %
AAD	QAM)					3.01		± 9.0 %
		Y	4.61	73.93	19.70		150.0	
40407	TT CDD (OO CDMA 4 DD 4 4 MILE	Z X	4.75	75.28	20.40	0.04	150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)		4.12	73.50	20.98	3.01	150.0	± 9.6 %
		Y	3.82	71.85	20.05		150.0	
40400	(TE EDD /00 EDIM / 00 / 1	Z	3.81	72.49	20.49	0.04	150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	6.50	81.13	23.70	3.01	150.0	± 9.6 %
		Υ	5.79	78.80	22.66		150.0	
		Ζ	5.93	80.01	23.24		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	5.32	76.74	21.12	3.01	150.0	± 9.6 %
		Υ	4.72	74.40	19.98		150.0	
·····		Z	4.87	75.74	20.67		150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	Х	4.74	66.77	16.33	0.00	150.0	± 9.6 %
		Υ	4.69	66.52	16.12		150.0	
		Ζ	4.64	66.62	16.12		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	Х	4.96	67.16	16.44	0.00	150.0	± 9.6 %
		Υ	4.89	66,91	16.23		150.0	
		Z	4.84	66.99	16.23		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	Х	4.99	67,16	16.43	0.00	150.0	± 9.6 %
		Υ	4.93	66.91	16.24		150.0	
		Z	4.88	67.00	16.24		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	Х	4.77	66.89	16.37	0.00	150.0	± 9.6 %
		Υ	4.71	66.63	16.16		150.0	
	***************************************	Z	4.66	66.72	16.15		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.97	67.18	16.44	0.00	150.0	± 9.6 %
		Υ	4.91	66.93	16.24		150.0	
		Z	4.85	67.01	16.24		150.0	
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	Х	5.00	67.17	16.44	0.00	150.0	± 9.6 %
		Υ	4.94	66.92	16.24		150.0	
		Z	4.88	67.02	16.25		150.0	
10219- CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.72	66.90	16.34	0.00	150.0	± 9.6 %
		Υ	4.66	66.64	16.12		150.0	
		Z	4.61	66.72	16.11		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.98	67.19	16.45	0.00	150.0	± 9.6 %
		Υ	4.91	66.93	16.24		150.0	
		Z	4.85	67.00	16.24		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	5.01	67.11	16.44	0.00	150.0	± 9.6 %
		Y	4.95	66.87	16.24		150.0	
		Z	4.89	66.96	16.24		150.0	
10222-	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.30	67.47	16.58	0.00	150.0	± 9.6 %
UAU								5
CAC	DI ORY	Υ	5.25	67.22	16.39		150.0	

10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	Х	5,69	67.78	16.76	0.00	150.0	± 9.6 %
		Y	5.65	67.60	16.61		150.0	
		Ż	5.58	67.65	16.61		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5,37	67.60	16.57	0.00	150.0	± 9.6 %
		Y	5.31	67.33	16.37		150.0	
		Z	5,24	67.35	16.35		150.0	
10225- CAB	UMTS-FDD (HSPA+)	Х	3.00	66.32	15.76	0.00	150.0	± 9.6 %
		Υ	2.92	65.84	15.36		150.0	
		Z	2.88	65.96	15.31		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	25.34	100.21	29,32	6.02	65.0	± 9.6 %
		Υ	21.88	97.80	28.53		65.0	
		Z	28.16	103.05	30.17		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	20.89	95.65	27.50	6.02	65.0	± 9.6 %
		Υ	18.66	93.90	26.89		65.0	
		Z	23.03	98.25	28.28		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	27.90	106.81	32.85	6.02	65.0	± 9.6 %
		Υ	21.79	102.13	31.35		65.0	
		Z	29.50	109.02	33,59		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	24.51	99.50	29.04	6.02	65.0	± 9.6 %
		Υ	21.09	97.02	28.22		65.0	
		Z	27.07	102.22	29.86		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	20.30	95.08	27.26	6.02	65.0	±9.6%
		Υ	18.06	93.26	26.62		65.0	
		Z	22.29	97.60	28.02		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	26.95	106.05	32.56	6.02	65.0	± 9.6 %
		Υ	20.98	101.31	31.03		65.0	
		Z	28.34	108.14	33.27		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	24.50	99.50	29.04	6.02	65.0	± 9.6 %
		Υ	21.08	97.02	28.21		65.0	
		Z	27.06	102.22	29.86		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	20,31	95,10	27.27	6.02	65.0	±9.6%
		Υ	18.06	93.27	26.63		65.0	
		Z	22.30	97.62	28,03		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	25.91	105.12	32.20	6.02	65.0	± 9.6 %
		Υ	20.17	100.39	30.66		65.0	
		Z	27.13	107.11	32.88		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	24.55	99.55	29.05	6.02	65.0	± 9.6 %
		Υ	21.11	97.06	28.23		65.0	
		Z	27.13	102.28	29.88		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	20.44	95.20	27.30	6.02	65.0	± 9.6 %
	_	Y	18.18	93.36	26.65		65.0	
10237-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz,	Z X	22.46 27.19	97.73 106.24	28.06 32.62	6.02	65.0 65.0	± 9.6 %
CAD	QPSK)	1	04.44	404 45	24.07		CE O	1
		Y	21.11	101.45	31.07		65.0	
40000	LTC TDD (CO CDMA 4 DD 45 ML)	Z	28.60	108.34	33.33	6.00	65.0	1000
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	24.51	99.52	29.04	6.02	65.0	± 9.6 %
		Y	21.08	97.02	28.22		65.0	ļ
		Z	27.06	102.23	29.86	1	65.0	

10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	20.32	95.12	27.28	6.02	65.0	±9,6 %
J, 10	V - SQ (VI)	Y	18.06	93.28	26.63		65.0	
		Z	22.31	97.64	28.04		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	27.11	106.18	32.60	6.02	65.0	±9.6%
		Υ	21,05	101.40	31.05		65.0	
		Ζ	28.51	108.28	33.31		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	13.32	86.96	27.76	6.98	65.0	± 9.6 %
		Υ	12.14	84.93	26.82		65.0	
		Z	13.21	87.48	27.86		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	13.08	86.53	27.54	6.98	65.0	±9.6%
		Y	11.36	83.43	26.15		65.0	
		Z	13.18	87.43	27.79		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	×	11.12	85.13	27.92	6.98	65.0	± 9.6 %
		Υ	9.55	81.58	26.25		65.0	
		Ζ	9.75	82.70	26.82		65.0	ļ
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	10.08	80.93	21.89	3,98	65.0	± 9.6 %
		Y	9.48	80.06	21.41		65.0	
		Z	9.49	80.06	21.16		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	10.01	80.58	21.71	3.98	65.0	±9.6 %
	^	Y	9.41	79.71	21.23		65.0	
10010		Ζ	9.41	79.68	20.97		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	9.15	81.91	21.99	3.98	65.0	± 9.6 %
		Υ	8,42	80.72	21.40		65.0	
		Z	8.30	80.41	21.06		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	8.09	77.75	20.93	3.98	65.0	± 9.6 %
	<u> </u>	Υ	7.59	76.84	20.43		65.0	
		Z	7.53	76.72	20.17		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	8.15	77.44	20.80	3.98	65.0	± 9.6 %
		Υ	7.65	76.49	20.28	1111	65.0	
		Z	7.59	76.44	20.05		65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	9.64	82.72	22.72	3.98	65.0	± 9.6 %
		Υ	8.97	81.70	22.24		65.0	
		Z	9.02	81.83	22.13		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	8.73	78.92	22.34	3.98	65.0	± 9.6 %
		Υ	8.28	78.14	21.95		65.0	
105=1		Z	8.33	78.38	21.94		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	8.43	77.25	21.45	3.98	65.0	± 9.6 %
		Υ	7.98	76.39	21.00		65.0	
		Z	8.08	76.82	21.08		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	9.50	81,63	22.75	3.98	65.0	± 9.6 %
		Υ	8.96	80.86	22.39		65.0	
		Z	9.11	81.29	22.49		65.0	.
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	8.39	76.50	21.34	3.98	65.0	±9.6%
		Υ	7.96	75.65	20.90		65.0	
		Z	8.06	76.10	21.04		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	8.71	77.06	21.85	3.98	65.0	± 9.6 %
		Y	8.30	76.30	21,46		65.0	
		Z	8.39	76.71	21.57	T .	65.0	

TE-TDD (SC-FDMA, 100% RB, 1.4 X 9.52 79.84 20.86 3.98 66.0 10266 10266 1126 11	10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	8.87	78.97	21.88	3.98	65.0	± 9.6 %
TE-TDD (SC-FDMA, 100% RB, 1.4 X 9.52 78.72 21.89 66.0 £9.6 %			γ	8.43	78.29	21.57		65.0	
10256- LTE-TDD (SC-FDMA, 100% RB, 14 X 9.52 79.84 20.86 3.98 65.0 19.8 MHz, 19-QAM)									
TIE-TDD (SC-FDMA, 100% RB, 1.4 X 9.44 79.37 20.61 3.98 65.0 29.6 % MHz, 64-QAM)							3.98	***************************************	± 9.6 %
10227- LTE-TDD (SC-FDMA, 100% RB, 1.4 X 9.44 79.37 20.61 3.98 65.0 £9.6 %			Y	8.85	78,79	20.27		65.0	
10267- LTE-TDD (SC-FDMA, 100% RB, 1.4 X 9.44 79.37 20.61 3.98 65.0 ± 9.6 %			Z	8.64	78.29	19.78		65.0	
TO258- CAA				9.44	79.37		3.98	65.0	± 9.6 %
10259- LTE-TDD (SC-FDMA, 100% RB, 3 MHz, X 8.57 80.68 21.12 3.98 65.0 ± 9.6 %								65.0	
CAA MHz, QPSK) Y 7,76 79,24 20,40 65,0 10259- CAB LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) X 8,34 78,31 19,75 65,0 10260- CAB LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 27,00) X 8,34 78,11 21,40 3,98 65,0 ±9,6 % 10260- CAB LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 27,00) Y 7,86 77,25 20,94 66,0 66,0 CAB 4-QAM) Y 7,92 77,09 20,90 65,0 56,0 CAB G4-QAM) Y 7,92 77,09 20,90 65,0 56,0 10261- CAB LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 27,00) Y 8,33 81,91 22,65 3,98 65,0 ±9,6 % 66,0 10262- CAB LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 27,00) Y 8,73 80,93 22,19 65,0 56,0 10,66 65,0 10,66 10,60 10,60 10,60 10,60 10,60 10,60 10,60 10,60				8.53	77.74			65.0	
TOZ59- T							3.98		± 9.6 %
10259- LTE-TDD (SC-FDMA, 100% RB, 3 MHz, CAB No. 16-QAM)									
CAB									
Tozeo							3.98		± 9.6 %
10260- LTE-TDD (SC-FDMA, 100% RB, 3 MHz, CAB No. 100% RB, 5 MHz, CAB No. 100% RB,									
CAB 64-QAM	10000	LTE TOP (00 TO 10				***********			
Tight Tigh							3.98		± 9.6 %
10261- LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)									
CAB QPSK) Y 8.73 80.93 22.19 65.0 10262- CAD LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) X 8.73 78.90 22.31 3.98 65.0 ± 9.6 % 10262- CAD LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) Y 8.27 78.11 21.92 65.0 ± 9.6 % 10263- CAD LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) X 8.43 77.25 21.45 3.98 65.0 ± 9.6 % CAD LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) X 8.43 77.25 21.45 3.98 65.0 ± 9.6 % LTE-TDD (SC-FDMA, 100% RB, 5 MHz, CAD X 8.67 76.81 21.00 65.0 ± 9.6 % 65.0 LTE-TDD (SC-FDMA, 100% RB, 5 MHz, CAD X 9.46 81.55 22.70 3.98 65.0 ± 9.6 % 65.0 LTE-TDD (SC-FDMA, 100% RB, 10 X 8.60 77.04 21.49 3.98 65.0 ± 9.6 % CAD LTE-TDD (SC-FDMA, 100% RB, 10 X 8.89 77.55	100				·				
Time							3.98		± 9.6 %
10262- LTE-TDD (SC-FDMA, 100% RB, 5 MHz, X 8.73 78.90 22.31 3.98 65.0 ±9.6 %					<u> </u>				
CAD 16-QAM)									
Total							3.98		± 9.6 %
10263- CAD C								+	
CAD 64-QAM) Y 7.97 76.39 21.00 65.0 10264-CAD LTE-TDD (SC-FDMA, 100% RB, 5 MHz, CAD X 9.46 81.55 22.70 3.98 65.0 ± 9.6 % CAD QPSK) Y 8.92 80.75 22.34 65.0 ± 9.6 % CAD X 8.60 77.04 21.49 3.98 65.0 ± 9.6 % 10265-CAD LTE-TDD (SC-FDMA, 100% RB, 10 X 8.60 77.04 21.49 3.98 65.0 ± 9.6 % ACAD MHz, 16-QAM) Y 8.16 76.19 21.06 65.0 ± 9.6 % ACAD MHz, 64-QAM) Y 8.48 76.82 21.21 65.0 ± 9.6 % ACAD MHz, 64-QAM) Y 8.48 76.82 21.65 65.0 ± 9.6 % ACAD MHz, QPSK) Y 8.65 78.54 21.42 65.0 ± 9.6 % ACAD MHz, 16-QAM) Y 8.65 75.83 21.53								1	
CAD							3.98		± 9.6 %
10264- CAD									
CAD QPSK) Y 8.92 80.75 22.34 65.0 10265- CAD LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) X 8.60 77.04 21.49 3.98 65.0 ± 9.6 % 10266- CAD LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) X 8.60 77.55 22.01 3.98 65.0 ± 9.6 % 10266- CAD LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) X 8.89 77.55 22.01 3.98 65.0 ± 9.6 % 10267- CAD LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) X 9.07 79.14 21.70 3.98 65.0 ± 9.6 % 10268- CAD LTE-TDD (SC-FDMA, 100% RB, 15 X 9.02 76.50 21.57 3.98 65.0 ± 9.6 % 10268- CAD LTE-TDD (SC-FDMA, 100% RB, 15 X 9.02 76.50 21.57 3.98 65.0 ± 9.6 % 10269- CAD LTE-TDD (SC-FDMA, 100% RB, 15 X 8.95 76.51 21.51 3.98 65.0 ± 9.6 % 10270- CAD LTE-TDD (SC-FDMA, 100%									
Tensor T							3.98		± 9.6 %
10265- LTE-TDD (SC-FDMA, 100% RB, 10 X 8.60 77.04 21.49 3.98 65.0 ±9.6 %									
CAD MHz, 16-QAM) Y 8.16 76.19 21.06 65.0 Z 8.25 76.62 21.21 65.0 10266- CAD MHz, 64-QAM) Y 8.48 76.82 21.65 65.0 Z 8.57 77.20 21.76 65.0 10267- CAD MHz, QPSK) Y 8.65 78.54 21.42 65.0 AMHz, 16-QAM) Y 8.65 78.90 21.53 65.0 10268- CAD MHz, 16-QAM) Y 8.65 75.83 21.23 65.0 10269- CAD MHz, 64-QAM) Y 8.65 75.83 21.23 65.0 10269- CAD MHz, 64-QAM) Y 8.65 75.83 21.23 65.0 10269- CAD MHz, 64-QAM) Y 8.65 75.83 21.23 65.0 AMHz, 64-QAM) Y 8.68 75.47 21.16 65.0 AMHz, 64-QAM) Y 8.58 75.47 21.16 65.0 AMHz, 64-QAM) Y 8.58 75.47 21.16 65.0 AMHz, 64-QAM) Y 8.58 75.47 21.16 65.0 AMHz, QPSK) Y 8.48 76.60 20.79 65.0								-	
TE-TDD (SC-FDMA, 100% RB, 10		LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)					3.98		±9.6%
10266- CAD			Y	**************					
CAD MHz, 64-QAM) Y 8.48 76.82 21.65 65.0 I 2 8.57 77.20 21.76 65.0 LTE-TDD (SC-FDMA, 100% RB, 10 X 9.07 79.14 21.70 3.98 65.0 ± 9.6 % 65.0 MHz, QPSK) Y 8.65 78.54 21.42 65.0 Z 8.76 78.90 21.53 65.0 LTE-TDD (SC-FDMA, 100% RB, 15 X 9.02 76.50 21.57 3.98 65.0 ± 9.6 % 65.0 MHz, 16-QAM) Y 8.65 75.83 21.23 65.0 LTE-TDD (SC-FDMA, 100% RB, 15 X 8.95 76.21 21.38 65.0 LTE-TDD (SC-FDMA, 100% RB, 15 X 8.95 76.15 21.51 3.98 65.0 ± 9.6 % 65.0 LTE-TDD (SC-FDMA, 100% RB, 15 X 8.95 76.15 21.51 3.98 65.0 ± 9.6 % 65.0 LTE-TDD (SC-FDMA, 100% RB, 15 X 8.95 75.47 21.16 65.0 LTE-TDD (SC-FDMA, 100% RB, 15 X 8.82 77.11 21.02 3.98 65.0 ± 9.6 % 65.0 LTE-TDD (SC-FDMA, 100% RB, 15 X 8.82 77.11 21.02 3.98 65.0 ± 9.6 % 65.0 LTE-TDD (SC-FDMA, 100% RB, 15 X 8.82 77.11 21.02 3.98 65.0 ± 9.6 % 65.0 LTE-TDD (SC-FDMA, 100% RB, 15 X 8.82 77.11 21.02 3.98 65.0 ± 9.6 % 65.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
Total Content of the content of th			l				3.98		± 9.6 %
10267- LTE-TDD (SC-FDMA, 100% RB, 10 X 9.07 79.14 21.70 3.98 65.0 ± 9.6 %									
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Tender T	CAD	WITZ, WEON)	- V	0.65	79.54	21.42	 	SE O	
10268- CAD LTE-TDD (SC-FDMA, 100% RB, 15 CAD X 9.02 76.50 21.57 3.98 65.0 ± 9.6 % MHz, 16-QAM) Y 8.65 75.83 21.23 65.0 65									
CAD MHz, 16-QAM) Y 8.65 75.83 21.23 65.0 10269- CAD LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) X 8.95 76.15 21.51 3.98 65.0 Y 8.58 75.47 21.16 65.0 Z 8.67 75.86 21.32 65.0 10270- CAD LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) X 8.82 77.11 21.02 3.98 65.0 ± 9.6 % Y 8.48 76.60 20.79 65.0	10069	LTE TOD (SC EDMA 1000/ DB 15					3.00		+060/
Te-ton Test Test							3.80		£ 9.0 %
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10270- LTE-TDD (SC-FDMA, 100% RB, 15 X 8.82 77.11 21.02 3.98 65.0 ±9.6 % CAD MHz, QPSK) Y 8.48 76.60 20.79 65.0		·							
Y 8.48 76.60 20.79 65.0							3.98	+	± 9.6 %
	UNU	1911 IZ.; QL OTO	$+ \overline{}$	8 40	76.60	20.70		65.0	
			Z	8.54	76.88	20.79	 	65.0	

10274-	UMTS-FDD (HSUPA, Subtest 5, 3GPP	Х	2.69	66.50	15.57	0.00	150.0	±9.6 %
CAB	Rel8.10)							
		Y	2.62	65.90	15.08		150.0	
400==		Z	2.61	66.11	15.09		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	Х	1.78	68.98	16.23	0.00	150.0	± 9.6 %
		Y	1.61	67.12	15.02		150.0	
		Z	1.61	67.39	15.12		150.0	
10277- CAA	PHS (QPSK)	Х	6.69	71.68	15.98	9.03	50.0	± 9.6 %
****		Υ	6.28	70.89	15.40		50.0	
		Z	6.22	70.67	15.16		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	Х	9.84	80.42	21.73	9.03	50.0	± 9.6 %
		Υ	9.33	79.68	21.28		50.0	
		Z	8.91	78.62	20,66		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	10.04	80.66	21.83	9.03	50.0	± 9.6 %
		Υ	9.51	79.89	21.37		50.0	
		Ζ	9.07	78.83	20.75		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	1.82	70.55	15.88	0.00	150.0	± 9.6 %
		Υ	1.53	67.85	14.22		150.0	
		Z	1.49	67.91	13.99		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	1.05	68.04	14.60	0.00	150.0	±9.6 %
		Y	0.87	65.14	12.63		150.0	
		Z	0.85	65.11	12.38		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	1.30	72.10	16.88	0.00	150.0	± 9.6 %
		Υ	0.99	67.69	14.29		150.0	
		Z	0.97	67.76	14.08		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	1.73	76.59	19.23	0.00	150.0	± 9.6 %
		Υ	1.24	70.97	16.28		150.0	
		Ζ	1.22	71.03	16.05		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	10.30	82.33	24.11	9.03	50.0	± 9.6 %
		Υ	9.86	81.57	23.65		50.0	
		Z	10.26	82.24	23.75		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	3.07	70.67	16.96	0.00	150.0	± 9.6 %
		Υ	2.85	69.32	16.16		150.0	
		Z	2.82	69.42	16.21		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.95	69,42	15.87	0.00	150.0	± 9.6 %
		Υ	1.73	67.49	14.59		150.0	
		Z	1.67	67.42	14.33		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	4.16	75.23	18.27	0.00	150.0	± 9.6 %
		Υ	3.62	72.95	17.02		150.0	
		Z	3.79	73.98	17.20		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	3.24	70.49	15.56	0.00	150.0	± 9.6 %
		Υ	2.85	68.54	14.36		150.0	
		Z	2.88	69.12	14.38		150.0	
10301- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	6,29	69.71	19.78	4.17	80.0	±9.6 %
		Υ	5.94	68.34	18.90		80.0	1
		Z	6.29	70.13	19.82		80.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	Х	6.76	70.27	20.51	4.96	80.0	± 9.6 %
		Υ	6.41	68.86	19.59		80.0	
		Z	6.69	70.41	20.40		80.0	1

10303- AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	6.71	70.71	20.76	4.96	80.0	± 9.6 %
		Υ	6.29	69.07	19.72		80.0	
		Z	6.62	70.79	20.61		80.0	
10304- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	Х	6.19	69.47	19.65	4.17	80.0	± 9.6 %
		Υ	5.87	68.17	18,80		80.0	
		Z	6.10	69.53	19.49		80.0	
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	Х	9.95	82.67	26.69	6.02	50.0	± 9.6 %
		Υ	10.15	84.21	27.39		50.0	
40000		Z	10.19	83.14	26.44		50.0	
10306- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	7.82	75.69	23.92	6.02	50.0	± 9.6 %
	444	Y	6.85	72.18	21.91		50.0	
40007	LEEE COO CO MUNICIPAL COO CO MA	Z	7.86	76.03	23.76		50.0	
10307- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	8.17	76.98	24.26	6.02	50.0	± 9.6 %
		Y	6.98	72.96	22.07		50.0	
40000	LEEE 000 40 Million 100 100 100	Z	8,22	77.31	24.10		50.0	
10308- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	8.34	77.70	24.59	6.02	50.0	± 9.6 %
		Y	7.04	73.38	22.27		50.0	
		Z	8.42	78.07	24.43		50.0	
10309- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	Х	7.98	76.05	24.09	6.02	50.0	± 9.6 %
		Υ	6.97	72.49	22.06		50.0	
		Z	8.04	76.48	23.98		50.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Х	7.91	76.10	23.99	6.02	50.0	±9.6%
		Υ	6.87	72.41	21.91		50.0	}
		Z	7.97	76.48	23.85		50.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.42	69.92	16.58	0.00	150.0	± 9.6 %
		Υ	3.19	68.66	15.86		150.0	
		Z	3.16	68.73	15.89		150.0	
10313- AAA	iDEN 1:3	Х	7,40	77.32	18.57	6.99	70.0	±9.6%
		Υ	6.67	76.09	18.00		70.0	
		Ζ	6.86	76.47	18.15		70.0	1
10314- AAA	iDEN 1:6	Х	8.58	80.83	22.15	10.00	30.0	± 9.6 %
		Y	7.73	79.50	21.60		30.0	
		Z	7.82	79.66	21.66		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	Х	1.19	65.11	15.97	0.17	150.0	±9.6%
		Y	1.12	63.96	15.01		150.0	
		Z	1.14	64.21	15.10		150.0	
10316- AAB	IEEE 802.11g WIFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	4.86	66.98	16.54	0.17	150.0	± 9.6 %
		Y	4.80	66.73	16.33		150.0	
		Z	4.76	66.85	16.34		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	Х	4.86	66.98	16.54	0.17	150.0	± 9.6 %
		Y	4.80	66.73	16.33		150.0	
		Z	4.76	66.85	16.34		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.98	67.24	16.44	0.00	150.0	± 9.6 %
		Υ	4.91	66.97	16.23		150.0	
		Z	4.85	67.07	16.24		150.0	
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	Х	5.56	67.23	16.48	0.00	150.0	± 9.6 %
		Y	5.51	67.02	16.31		150.0	<u> </u>
		Z	5.49	67.21	16.38	T	150.0	

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	Х	5.88	67.86	16.62	0.00	150.0	± 9.6 %
		Y	5.83	67.64	16.45		150.0	
		Z	5.78	67.69	16.45		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.82	70.55	15.88	0.00	115.0	± 9.6 %
		Υ	1.53	67.85	14.22		115.0	
		Z	1.49	67.91	13.99		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.82	70.55	15.88	0.00	115.0	± 9.6 %
		Υ	1.53	67.85	14.22		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full	Z X	1.49 54.89	67.91 116.02	13.99 30.72	0.00	115.0 100.0	± 9.6 %
7010	Tato	Υ	19.65	100.06	26.33		100.0	
		Z	53.88	114.30	29,69		100.0	,
10410- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	120.18	31.16	3.23	80.0	± 9.6 %
		Y	100.00	120.00	30.94		80.0	
		Z	100.00	120.41	31.02		80.0	***************************************
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	Х	1.01	63.38	15.00	0.00	150.0	± 9.6 %
		Υ	0.97	62.46	14.12		150.0	
		Z	0.99	62.70	14.21		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.74	66.79	16.35	0.00	150.0	± 9.6 %
		Υ	4.69	66.54	16.15		150.0	
		Z	4.64	66.66	16.16		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.74	66.79	16.35	0.00	150.0	± 9.6 %
		Υ	4.69	66.54	16.15		150.0	
		Z	4.64	66.66	16.16		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.72	66.91	16.35	0.00	150.0	± 9.6 %
		Υ	4.67	66.66	16.14		150.0	
		Z	4.62	66.78	16.15		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.75	66.88	16.36	0.00	150.0	± 9.6 %
		Υ	4.70	66.63	16.16		150.0	
		Z	4.65	66.75	16.17		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.88	66.90	16.38	0.00	150.0	± 9.6 %
		Y	4.83	66.66	16.18		150.0	
		Z	4.78	66.77	16.19		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	Х	5.11	67.32	16.54	0.00	150.0	± 9.6 %
		<u>Y</u>	5.05	67.07	16.34		150.0	
10101	1555	Z	4.98	67.15	16.34	···-	150.0	
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	5.01	67.24	16.49	0.00	150.0	± 9.6 %
	IVIDPS, 04-QAIVI)				16.29	I	150.0	
	IVIDUS, 04-QAIVI)	Y	4.95	66.99				
10425-	IEEE 802.11n (HT Greenfield, 15 Mbps,	Y Z X	4.95 4.89 5.58	67.08 67.64	16.30 16.67	0.00	150.0 150.0	± 9.6 %
		Z X	4.89 5.58	67.08 67.64	16.30 16.67	0.00	150.0 150.0	± 9.6 %
10425-	IEEE 802.11n (HT Greenfield, 15 Mbps,	Z X	4.89 5.58 5.54	67.08 67.64 67.43	16.30 16.67 16.50	0.00	150.0 150.0	± 9.6 %
10425- AAB 10426-	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 90 Mbps,	Z X	4.89 5.58	67.08 67.64	16.30 16.67	0.00	150.0 150.0	± 9.6 %
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	Z X Y Z	4.89 5.58 5.54 5.47	67.08 67.64 67.43 67.45	16.30 16.67 16.50 16.48		150.0 150.0 150.0 150.0	

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	5.62	67.70	16.68	0.00	150.0	± 9.6 %
		Y	5.57	67.46	16.51		150.0	
		Z	5.50	67.49	16.49		150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	Х	4.38	69.67	17.94	0.00	150,0	± 9.6 %
		Y	4.33	69.58	17.80		150.0	
		Z	4.20	69.45	17,56		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.52	67.35	16.46	0.00	150.0	± 9.6 %
		Y	4.44	67.04	16.20		150.0	
10432-	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	Z	4.37	67.16	16.19		150.0	
AAB	LTE-FOD (OFDWA, 15 MIZ, E-1W 3.1)	X	4.80	67.28	16.47	0.00	150.0	± 9.6 %
		Y Z	4.73	67.00	16.25		150.0	
10433-	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.66 5.03	67.10 67.30	16.25		150.0	
AAB	ETE-1 DD (OF-DIVIA, 20 WIHZ, E-1W 5.1)	^ Y	4.97		16.53	0.00	150.0	± 9.6 %
		Z		67.05	16.32		150.0	
10434-	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.90 4.44	67.13	16,32	0.00	150.0	1000
AAA	VY ODMIN (DO 1651 WIOUGI 1, 04 DECH)	Y	4.44	70.22	17.90	0.00	150.0	± 9.6 %
		Z	4.39 4.25	70.14	17.76		150.0	
10435-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	X	100.00	70.00 120.04	17.47	2.00	150.0	+000
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	^ Y	100.00	119.86	31.10	3.23	80.0	± 9.6 %
		Z	100.00	[80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.84	120.26 67.38	30.96 16.06	0.00	80.0 150.0	± 9.6 %
		Υ	3.74	66.97	15.70		150.0	
		Z	3.66	67.07	15.61		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	Х	4.32	67.11	16.31	0.00	150.0	± 9.6 %
		Υ	4.24	66.80	16.05	*****	150.0	
		Ζ	4.18	66.92	16.03		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	Х	4.56	67.09	16.36	0.00	150.0	± 9.6 %
		Υ	4.50	66.80	16.13		150.0	-
		Z	4.44	66.90	16.13		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	4.73	67.04	16.37	0.00	150.0	± 9.6 %
		Υ	4.68	66.77	16,16		150.0	
		Z	4.63	66.86	16.16		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	Х	3.78	67.68	15.87	0.00	150.0	± 9.6 %
		Y	3.67	67.21	15.46		150.0	ļ
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	Z X	3.58 6.44	67.29 68.30	15.33 16.85	0.00	150.0 150.0	± 9.6 %
/VID	oopo daty cycle/	Y	6.39	68.08	16.70		150.0	
		Z	6.33	68.10	16.68		150.0	
10457-	UMTS-FDD (DC-HSDPA)	X	3.88	65.45	16.12	0.00	150.0	± 9.6 %
AAA	,	Y	3.85	65.19	15.88		150.0	
		Ż	3.83	65.30	15.89		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.99	69.06	17.30	0,00	150.0	± 9.6 %
		Y	3.94	68.99	17.12		150.0	
		Z	3.88	69.16	16.95		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	Х	5.14	66.79	17.69	0.00	150.0	± 9.6 %
		Υ	5.17	67.07	17.77		150.0	
		Z	5.03	67.03	17.57		150.0	

10460- AAA	UMTS-FDD (WCDMA, AMR)	Х	1.01	70.18	17.23	0.00	150.0	± 9.6 %
		Υ	0.84	66.63	14.95		150.0	
		Z	0.86	67.07	15.16		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	122.05	32.10	3.29	80.0	± 9.6 %
•		Υ	100.00	121.55	31.74		80.0	
		Ζ	100.00	122.65	32.14		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	110.61	26.61	3.23	80.0	± 9.6 %
		Υ	94.23	109.23	26.02		80.0	
		Z	100.00	110.18	26.15		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	78.75	105.62	24.90	3.23	80.0	± 9.6 %
		Y	29.03	93.62	21.69		80.0	
10101	1 THE TOP (SO FOLIA) FOR SAME	Z	35.25	96.07	22.21		80.0	
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	120.54	31.26	3.23	80.0	± 9.6 %
······································		Y	100.00	119.94	30.85		80.0	
40405	LITE TOD (OO FDMA 4 DD O ME 40	Z	100.00	121.04	31.24	0.00	80.0	1000
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.25	26.42	3.23	80.0	± 9.6 %
		Y	50.78	101.60	24.13		80.0	
40400	LTE TOD (OO FOMA 4 DD O MIL OA	Z	70.19	105.68	25.02	2 22	80.0	. 0 0 0
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	47.84	99.56	23.37	3.23	80.0	± 9.6 %
	-	Y Z	19.27	88.73	20.29		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	23.58 100.00	91.30 120.70	20.90 31.33	3.23	80.0 80.0	± 9.6 %
	ar org or damante rior (1) age	Y	100.00	120.11	30.92		80.0	
		Ż	100.00	121.21	31.32		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.36	26.47	3.23	80.0	± 9.6 %
	a mij oz odstanie zjoj iji jeje/	Y	58.61	103.38	24.58	<u> </u>	80.0	
		Z	81.66	107.55	25.48		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	49.33	99.92	23.45	3.23	80.0	± 9.6 %
		Υ	19.62	88.94	20.35		80.0	
		Z	24.11	91.56	20.96		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	120.72	31.34	3.23	80.0	± 9.6 %
		Y	100.00	120.13	30.93		80.0	
		Z.	100.00	121.23	31.32		80.0	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	110.32	26.45	3.23	80.0	± 9.6 %
		Y	58.86	103.40	24.58		80.0	
		Z	82.23	107.60	25.48		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	49.97	100.04	23.47	3.23	80.0	± 9.6 %
		Υ	19.65	88.94	20.34		80.0	
		Z	24.22	91.59	20.96		80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	120.70	31.33	3.23	80.0	±9.6 %
		Y	100.00	120.11	30.91	1	80.0	<u> </u>
40.47.1	LITE TOP (OR FOLK) TOP (TAKE)	Z	100.00	121.21	31.31		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.33	26.46	3.23	80.0	± 9.6 %
		Y	57.97	103.23	24.54		80.0	
40475	LITE TOD (OO EDIA) (DD (TAN)) O	Z	80.96	107.43	25.44	0.00	80.0	1.000
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	49.03	99.83	23.42	3.23	80.0	± 9.6 %
		Y	19.43	88.82	20.31		80.0	
		Z	23.91	91.46	20.92		80.0	-

May 18, 2018

10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	110.21	26.40	3.23	80.0	± 9.6 %
		Υ	52.60	101.98	24.20		80.0	
		Ζ	73.44	106.17	25.12		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	48.33	99.64	23.36	3.23	80.0	± 9,6 %
		Y	19.20	88.67	20.26		80.0	
		Z	23.64	91.30	20.88		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	11.17	89.11	24.99	3.23	80.0	± 9.6 %
		Y	9.72	86.78	24.01		80.0	
10100	1 TE TEE (60 TEN)	Z	11.19	89.29	24.70		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	12.30	86.18	22.71	3.23	80.0	± 9.6 %
		Y	10.82	84.18	21.84		80.0	
40404	TE TOD (CO EDIAM FOR DD 4 AMILE	Z	12.05	85.88	22.16		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	11.45	84.51	21.90	3.23	80.0	± 9.6 %
		Υ	10.02	82.49	21.00		80.0	
10400	LITE TDD (OO FDMA FOO(DD OAT)	Z	10.82	83.70	21.17		80.0	<u> </u>
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.11	78.83	20.21	2.23	80.0	± 9.6 %
		Y	4.96	75.77	18.86		80.0	
40400	LTE TOD (OO FOMA FOR ONE)	Z	4.90	75.64	18.57		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	8.68	81.26	21.25	2.23	80.0	± 9.6 %
		Y	7.88	79.76	20.50		80.0	
40404	LTE TED (OO EDIA) FOR ED O MIL	Z	7.94	79.89	20.29		80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	8.31	80.37	20.94	2.23	80.0	± 9.6 %
		Υ	7.54	78.89	20.20		80.0	
		Z	7.52	78.88	19.94		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.32	79.32	20.87	2.23	80.0	± 9.6 %
		Y	5.23	76.46	19.63	••••	80.0	
40400		Z	5.24	76.63	19.55		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	5.11	73,35	18.47	2.23	80.0	± 9.6 %
		Υ	4.61	71.85	17.68		80.0	
		Z	4.56	71.81	17.45		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.09	72.96	18.32	2.23	80.0	± 9.6 %
		Υ	4.61	71.53	17.56		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Z X	4.55 6.25	71.46 77.69	17.31 20.57	2.23	80.0 80.0	± 9.6 %
	QI ON, OE Subitanie-2,5,4,7,6,9)	Υ	5.40	75.44	19.60		80.0	
		Z	5.42	75.44	19.64	 	80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.17	72.45	18.81	2.23	80.0	± 9.6 %
,		Υ	4.77	71.23	18.18		80.0	
		Z	4.76	71.40	18.15		80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.22	72.07	18.69	2.23	80.0	± 9.6 %
		Y	4.84	70.95	18.11		80.0	
		Ζ	4.84	71.14	18.08		80.0	
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.95	75.11	19.68	2.23	80.0	± 9.6 %
		Υ	5.36	73.49	18.94		80.0	1
		Z	5.37	73.72	18.99		80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5,37	71.35	18.56	2.23	80.0	± 9.6 %
	30,11,00	Y	5.04	70.36	18.04		80.0	
		Z	5.04	70.57	18.06		80.0	

40402	LITE TOD (CC FDMA 500) DD 45 MILE	T 🗸 T	E 40	74.40	40.40	0.00	000	1 . 0 0 0/
10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	5.42	71.12	18.49	2.23	80.0	± 9.6 %
***************************************		Υ	5.10	70.19	18.00		80.0	
		Z	5.10	70.40	18.02		80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.67	77.03	20.20	2.23	80.0	± 9.6 %
		Υ	5.89	75.13	19.38		80.0	
		Z	5.87	75.25	19.40		80.0	
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.50	71.99	18.78	2.23	80.0	± 9.6 %
·		Υ	5.13	70.92	18,24		80.0	
		Z	5.12	71.07	18.25		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.52	71.52	18.64	2.23	80.0	± 9.6 %
		Y	5.18	70.54	18.14		80.0	
		Z	5.17	70.71	18.15		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.20	76.63	18.92	2.23	80.0	± 9.6 %
		Y	4.16	73.44	17.44		80.0	
40400	LITE TOD (OO COMA (OOO) DO (Z	3.95	72.68	16.81		80.0	<u> </u>
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.23	71.07	16.05	2.23	80.0	± 9.6 %
		Υ	3.57	68.80	14.82		80.0	
		Z	3.29	67.79	14.00		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.21	70.66	15.78	2.23	80.0	± 9.6 %
		Y	3.55	68.42	14.55		80.0	
		Z	3.25	67.34	13.69		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.06	78.01	20.54	2.23	80.0	±9.6 %
		Y	5.15	75.54	19.46		80.0	
		Z	5.19	75.83	19.46		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.11	72.83	18.54	2.23	80.0	± 9.6 %
		Y	4.66	71.48	17.83		80.0	
10=05		Z	4.64	71.57	17.69		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.13	72.53	18.39	2.23	80.0	± 9.6 %
		Υ	4.71	71.27	17.72		80.0	
10500		Z	4.68	71.36	17.57		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.18	77.51	20.49	2.23	80.0	± 9.6 %
		Y	5.34	75.27	19.52		80.0	
40504	LITE TOD (OO COMA ACCOUNTS TO THE	Z	5.37	75.55	19.57		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.15	72.39	18.77	2.23	80.0	± 9.6 %
		Y	4.75	71.16	18.14		80.0	
10505	1 TE TDD (00 ED) 4000 ED 5400	Z	4.75	71.34	18.11		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.19	72.00	18.65	2.23	80.0	± 9.6 %
		Y	4.82	70.87	18.06	<u> </u>	80.0	ļ
40500	LITE TOD (OO PDAM (OCC) TO 10	Z	4.82	71.07	18.04		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.62	76.90	20.14	2.23	80.0	± 9,6 %
		Y	5.85	75.00	19.32		80.0	
10000	1	Z	5.83	75.14	19.34		80.0	
10507- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.48	71.94	18.75	2.23	80.0	±9.6 %
		4					1	J
		Υ	5.11	70.86	18.21		80.0	

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.50	71.47	18.61	2.23	80.0	± 9.6 %
		Y	5.17	70.49	18.10		80.0	
		Z	5.16	70.66	18.12		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.45	74.61	19.28	2.23	80.0	± 9.6 %
		Y	5.91	73.26	18.67		80.0	
		Z	5.88	73.34	18.68		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.89	71.35	18.56	2.23	80.0	± 9.6 %
		Υ	5.57	70.45	18.11		80.0	
40E44		Ζ	5.55	70.59	18.13		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.88	70.97	18.46	2.23	80.0	± 9.6 %
		Υ	5.58	70.13	18.03		80.0	
		Z	5.57	70.28	18.06		80.0	
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.08	76.75	19.94	2.23	80.0	± 9.6 %
		Y	6.33	75.02	19,19		80.0	
40540	LITE TOD (OO EDIM 1000) DE CO	Z	6.29	75.06	19.18		80.0	
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5,86	71.94	18.77	2.23	80.0	± 9.6 %
		Y	5.50	70.93	18.27	.,	80.0	
		Z	5.49	71.03	18.28		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.78	71.32	18.59	2.23	80.0	±9.6%
		Y	5.46	70.40	18.13		80.0	
		Z	5.45	70.53	18.14		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	Х	0.98	63.62	15.09	0.00	150.0	± 9.6 %
		Y	0.94	62.61	14.14		150.0	
40540	JEEE 000 445 MEE: 0.4 OH- (D000 E.E.	Z	0.95	62.86	14.24		150.0	. 0 0 0/
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.81	76.11 67.70	19.82 15.09	0.00	150.0	± 9.6 %
		Z	0.54	68.52	15.55		150.0 150.0	•
10517- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.86	66.23	16.05	0.00	150.0	± 9.6 %
	impo, copo adij ojoloj	Y	0.78	64.24	14.48		150.0	
		Z	0.80	64.56	14.64		150.0	
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.74	66.88	16.34	0.00	150.0	± 9.6 %
		Υ	4.69	66.63	16.14		150.0	
		Z	4.64	66.73	16.14		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.99	67.21	16.50	0.00	150.0	±9.6%
		Y	4.92	66.95	16.29		150.0	<u></u>
10500	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18	Z	4.86	67.03	16.29	0.00	150.0	1000
10520- AAB	Mbps, 99pc duty cycle)	X	4.83	67.19 66.92	16.42 16.21	0.00	150.0	±9.6%
		Z	4.77 4.70	66.99	16.21		150.0 150.0	-
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.76	67.20	16.41	0.00	150.0	± 9.6 %
_		Y	4.70	66.92	16.19		150.0	
		Z	4.63	66.99	16.18		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	Х	4.79	67.09	16.40	0.00	150.0	± 9.6 %
		Υ	4.73	66.84	16.20		150.0	
		Ζ	4.68	66.98	16.22		150.0	

10523-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	I X I	4.67	67.04	16.28	0.00	150.0	± 9.6 %
AAB	Mbps, 99pc duty cycle)	^	4.07	07.04	10.20	0.00	130.0	1 9.0 76
		Y	4.60	66.76	16.06		150.0	
		Z	4.55	66.86	16.07		150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	Х	4.75	67.08	16.41	0.00	150.0	±9.6 %
		Y	4.69	66.83	16.20		150.0	
		Z	4.63	66.94	16.21		150.0	
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.69	66.11	15.99	0.00	150.0	± 9.6 %
		Y	4.63	65.84	15.78		150.0	
40500	JEEE 000 44 - INSEL (OOM II - MOOA	Z	4.59	65.95	15.79	0.00	150.0	
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.91	66.53 66.26	16.14 15.93	0.00	150.0 150.0	± 9.6 %
·····		Z	4.85 4.79	66.36	15.93		150.0	
10527-	IEEE 802.11ac WiFi (20MHz, MCS2,	X	4.83	66.52	16.10	0.00	150.0	± 9.6 %
AAB	99pc duty cycle)	I Y	4.76	66.23	15.88	0.00	150.0	1 3.0 %
		Z	4.70	66.32	15.88		150.0	
10528- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.85	66.54	16.14	0.00	150.0	± 9.6 %
		Y	4.78	66.26	15.92		150.0	
		Z	4.72	66.35	15.92		150.0	
10529- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	Х	4.85	66.54	16.14	0.00	150.0	± 9.6 %
		Υ	4.78	66.26	15.92		150.0	
		Z	4.72	66.35	15.92		150.0	
10531- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	Х	4.87	66.71	16.17	0.00	150.0	± 9.6 %
		Y	4.80	66.41	15.94		150.0	
		Z	4.73	66.49	15.94		150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.72	66.60	16.13	0.00	150.0	± 9.6 %
		Y	4.64	66.28	15.89	····	150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	Z X	4.58 4.86	66.34 66.55	15.88 16.11	0.00	150.0 150.0	± 9.6 %
אאט	93pc daty cycle)	Y	4.79	66.27	15.89		150.0	
		Z	4.73	66.36	15.90		150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.35	66.74	16.19	0.00	150.0	± 9.6 %
***************************************		Υ	5.30	66.49	16,01		150.0	
		Z	5.24	66.53	16.00	****	150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	Х	5.43	66.88	16.24	0.00	150.0	± 9.6 %
		Y	5.37	66.63	16.06	ļ	150.0	
10500	IEEE BOO 44 WEE: (40 - HOES	Z	5.31	66.67	16.05	0.00	150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.29	66.86	16.22	0.00	150.0	± 9.6 %
		Y	5.23	66.60	16.03		150.0	
10537-	IEEE 802.11ac WiFi (40MHz, MCS3,	Z	5.18 5.36	66.65 66.83	16.02	1 000	150.0	+000
AAB	99pc duty cycle)	Y	5.30	66.58	16.21	0.00	150.0	± 9.6 %
		Z	5.24	66.64	16.02		150.0 150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5,49	66.94	16.31	0.00	150.0	± 9.6 %
	, , , , , , , , , , , , , , , , , , , ,	Y	5.43	66.69	16.12	-	150.0	
		Z	5.36	66.72	16.11		150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.37	66.86	16.28	0.00	150.0	± 9.6 %
		Υ	5.31	66.60	16.09		150.0	
		Z	5.26	66.66	16.09		150.0	

10541- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5,37	66.83	16.27	0.00	150.0	± 9.6 %
		Υ	5.31	66.55	16.07		150.0	
		Z	5.24	66.56	16.04		150.0	·
10542- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	Х	5.51	66.80	16.27	0.00	150.0	± 9.6 %
		Y	5.45	66.56	16.09		150.0	
		Z	5.39	66.62	16.08		150.0	
10543- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	Х	5.61	66.84	16.30	0.00	150.0	± 9.6 %
		Y	5.54	66.58	16.11		150.0	
		Z	5.48	66.63	16.11		150.0	
10544- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.61	66.83	16.17	0.00	150.0	± 9.6 %
		Y	5.56	66.59	15,99		150.0	
40545	IEEE 000 44 - WEE (000 B) 14004	Z	5.52	66.64	15.99		150.0	
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.83	67.22	16.29	0.00	150.0	± 9.6 %
		Y	5.78	67.01	16.14		150.0	
40540	IEEE 000 44 WEEL (001 EL 1100)	Z	5.73	67.07	16.14		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.73	67.15	16.28	0.00	150.0	± 9.6 %
		Y	5.67	66.90	16.11		150.0	
10547	IEEE DOO 44 o - MEET (OOM 11 MOOS	Z	5.62	66.93	16.09		150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.83	67.25	16.32	0.00	150.0	± 9.6 %
		Y	5.77	66.99	16.14		150.0	
10548-	JEET 000 44 M/IE: (00MI - MOO4	Z	5.70	67.00	16.12	0.00	150.0	
AAB	IEEE 802.11ac WIFi (80MHz, MCS4, 99pc duty cycle)	X	6.16	68.40	16.87	0.00	150.0	± 9.6 %
		Y	6.13	68.23	16.73		150.0	
40550	JEEE 000 44 - WEE (DOM) L MOOO	Z	6.04	68.18	16.69		150.0	5.5.0/
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	Х	5.74	67.08	16.25	0.00	150.0	± 9.6 %
		Y	5.69	66.84	16.08		150.0	
10551-	IEEE DOO 4400 MIEI (DOMNIE MACCO	Z	5.63	66.88	16.07	0.00	150.0	1000
AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)		5.77	67.22	16.28	0.00	150.0	± 9.6 %
		Y	5.72	66.98	16.11		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	Z X	5.65 5.66	66.98 66.96	16.08 16.18	0.00	150.0 150.0	± 9.6 %
	tope day ejele/	Y	5.61	66.71	16.00		150.0	
		Ż	5.55	66.73	15.97		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.76	66.99	16.21	0.00	150.0	± 9.6 %
		Υ	5.70	66.75	16.04		150.0	
		Z	5.65	66.79	16.03		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	Х	6.01	67.22	16.27	0.00	150.0	± 9.6 %
		Y	5.96	67.00	16.11		150.0	
		Z	5.92	67.04	16.09		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	6.19	67.64	16.44	0.00	150.0	± 9.6 %
		Y	6.14	67.39	16.27		150.0	
10556-	IEEE 802.11ac WiFi (160MHz, MCS2,	Z X	6.07 6.18	67.38 67.58	16.24 16.41	0.00	150.0 150.0	±9.6%
AAC	99pc duty cycle)	Y	6.13	67.35	16.25		150.0	
		Z	6.08	67.39	16.24		150.0	
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	6.18	67.59	16.44	0.00	150.0	±9.6 %
		Y	6.13	67.35	16.27		150.0	
		Ż	6.07	67.36	16.25		150.0	<u>†</u>

10558-	IEEE 802.11ac WiFi (160MHz, MCS4,	X	6.25	67.80	16.56	0.00	150.0	± 9.6 %
AAC	99pc duty cycle)							
		Υ	6.20	67.56	16.39		150.0	
		Z	6.13	67.56	16.36		150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.25	67.63	16.51	0.00	150.0	± 9.6 %
		Y	6.19	67.37	16.33		150.0	
		Z	6.12	67.38	16.31		150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	Х	6.15	67.57	16.52	0.00	150.0	± 9.6 %
		Υ	6.09	67.32	16.35		150.0	
	· · · · · · · · · · · · · · · · · · ·	Z	6.04	67.34	16.33		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.33	68.13	16.81	0.00	150.0	± 9.6 %
		Y	6.28	67.89	16.63	ļ	150.0	
10500	1777 000 44 11177 (400141 11000	Z	6.20	67.86	16.59		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.57	68.37	16.87	0.00	150.0	± 9.6 %
		Y	6,55	68.21	16.74		150.0	
4055:		Z	6.52	68.35	16.79	<u> </u>	150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	5.09	67.05	16.56	0,46	150.0	±9.6 %
		Y	5.04	66.80	16.35		150.0	
		Z	4.99	66.92	16.37		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	5.37	67.55	16.88	0.46	150.0	± 9.6 %
		Y	5.31	67.30	16.68		150.0	
10566-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z X	5.24 5.20	67.38 67.44	16.68 16.72	0.46	150.0 150.0	± 9.6 %
AAA	OFDM, 18 Mbps, 99pc duty cycle)	Υ	5.14	67.17	16.51		150.0	<u> </u>
		Z	5.14	67.17	16.51		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	5.22	67.76	17.01	0.46	150.0	± 9.6 %
7471	Of Divi, 24 Widds, Jobe duty Cycle)	\dagger_{Y}	5.16	67.53	16.82		150.0	
		Ż	5.09	67.58	16.80		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	5.11	67.15	16.48	0.46	150.0	± 9.6 %
······································		Y	5.05	66.88	16.25		150,0	
		Z	5.00	67.04	16,31		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	Х	5.15	67.74	17.00	0.46	150.0	± 9.6 %
		Y	5.09	67.52	16.83		150.0	
		Z	5.03	67.57	16.81	**************************************	150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	Х	5.20	67.58	16.95	0.46	150.0	± 9.6 %
		Υ	5.14	67.36	16.77		150.0	
		Z	5.08	67.46	16.78		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	1.41	66.77	16.75	0.46	130.0	± 9.6 %
		Υ	1.31	65.36	15.71		130.0	·
		Z	1.33	65.68	15.83		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	Х	1.44	67.46	17.13	0.46	130.0	± 9.6 %
		Υ	1.33	65.94	16.04		130.0	
		Z	1.35	66.24	16.15		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	14.90	112.90	30.59	0.46	130.0	± 9.6 %
*******		Υ	2.52	84.17	21.53		130.0	
		Z	2.93	86.36	22.30		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	Х	1.82	75.10	20.54	0.46	130.0	± 9.6 %
		Υ	1.52	71.65	18.64		130.0	
		Ζ	1.54	71.84	18.68		130.0	

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.91	66.92	16.66	0.46	130.0	1 +0 0 0/
AAA	OFDM, 6 Mbps, 90pc duty cycle)		7.01	00.92	10.00	0.40	130.0	± 9.6 %
		Υ	4.86	66.67	16.45		130.0	
10576-	IFFE 900 44 - WIFE 0 4 OLL (D000	Z	4.81	66.80	16.47		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	X	4.94	67.06	16.71	0.46	130.0	±9.6 %
		Y	4.88	66.82	16.51		130.0	
10577-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.84	66.94	16.52		130.0	
AAA	OFDM, 12 Mbps, 90pc duty cycle)	^ Y	5.19	67.42	16.90	0.46	130.0	± 9.6 %
		Z	5.13 5.07	67.18 67.27	16.70 16.70		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	5.08	67.57	16.97	0.46	130.0 130.0	± 9.6 %
		Υ	5.02	67.33	16.78		130.0	
		Z	4.96	67.40	16.77		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	Х	4.88	67.07	16.43	0.46	130.0	± 9.6 %
		Y	4.81	66.76	16.18		130.0	
10580-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.75	66.88	16.21		130.0	
AAA	OFDM, 36 Mbps, 90pc duty cycle)	X	4.92	67.00	16.41	0.46	130.0	± 9.6 %
		Y	4.85	66.70	16.17		130.0	
10581-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.80 5.00	66.86 67.69	16.22 16.94	0.46	130.0	1000
AAA	OFDM, 48 Mbps, 90pc duty cycle)	Y	4.93	67.42	16.74	0.46	130.0	± 9.6 %
		Z	4.86	67.42	16.74		130.0 130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.84	66.84	16.26	0.46	130.0	± 9.6 %
		Y	4.77	66.51	15.99		130.0	
		Z	4.71	66.67	16.04	, , , , , , , , , , , , , , , , , , , ,	130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	Х	4.91	66.92	16.66	0.46	130.0	± 9.6 %
		Υ	4.86	66.67	16.45		130.0	
40504	Improved a constant of the con	Z	4.81	66.80	16.47		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.94	67.06	16.71	0.46	130.0	± 9.6 %
		Y	4.88	66.82	16.51		130.0	
10585-	IEEE 000 44 a/b MBELE OLL- (OEDM 40	Z	4.84	66.94	16.52	2.40	130.0	
AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	5.19	67.42	16.90	0.46	130.0	± 9.6 %
		Z	5.13 5.07	67.18 67.27	16.70		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	5.08	67.57	16.70 16.97	0.46	130.0 130.0	± 9.6 %
		Υ	5.02	67.33	16.78		130.0	
		Z	4.96	67.40	16.77		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.88	67.07	16.43	0.46	130.0	±9.6 %
		Y	4.81	66.76	16.18		130.0	
40500	IEEE 000 44 - IN MIEEE OUT (OFFICE OF	Z	4.75	66.88	16.21		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.92	67.00	16.41	0.46	130.0	± 9.6 %
		Y Z	4.85 4.80	66.70 66.86	16.17 16.22	<u> </u>	130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	5.00	67.69	16.22	0.46	130.0 130.0	± 9.6 %
2 M 17m²	po, cope daily ofolo)	Y	4.93	67.42	16.74		130.0	
		Z	4.86	67.47	16.72		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.84	66.84	16.26	0.46	130.0	± 9.6 %
		Υ	4.77	66.51	15.99		130.0	
		Z	4.71	66.67	16.04		130.0	

10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	5.06	66.96	16.74	0.46	130.0	± 9.6 %
	52, 52, 52, 53, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51	Y	5.01	66.74	16.55		130.0	
		Z	4.96	66.85	16.56		130.0	
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	Х	5.25	67.31	16.85	0.46	130.0	± 9.6 %
		Υ	5.19	67.08	16.67		130.0	
		Z	5.13	67.19	16.68		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	5.19	67.30	16.79	0.46	130.0	± 9.6 %
		_ Y	5.13	67.05	16.59		130.0	
		Z	5.07	67.15	16.60		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	5.23	67.42	16.90	0.46	130.0	± 9.6 %
		Y	5.17	67.18	16.71		130.0	
		Z	5.11	67.28	16.72	0.40	130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	5.22	67.43	16.83	0.46	130.0	± 9.6 %
		Y	5.16	67.17	16.63		130.0	
105	1	Z	5.09	67.26	16.64	6.15	130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	5.15	67.41	16.83	0.46	130.0	± 9.6 %
		Y	5.09	67.15	16.62		130.0	
		Z	5.03	67.27	16.64		130.0	
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	5.11	67.38	16.76	0.46	130.0	± 9.6 %
		Y	5.04	67.11	16.54		130.0	
		Z	4.98	67.21	16.55		130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	5.09	67.62	17.00	0.46	130.0	± 9.6 %
		Y	5.02	67.35	16.79		130.0	
		Z	4.96	67.41	16.78		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	Х	5.73	67.62	16.94	0.46	130.0	± 9.6 %
		Y	5.68	67.40	16.77		130.0	
		Z	5.63	67.48	16.78		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	6.00	68.43	17.33	0.46	130.0	± 9.6 %
		Y	5.96	68.23	17.16		130.0	
		Z	5.85	68.13	17.09		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.81	67.92	17.08	0.46	130.0	± 9.6 %
		Y	5.76	67.71	16.91		130.0	
		Z	5.69	67.73	16.90		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.94	68.04	17.07	0.46	130.0	± 9.6 %
		Y	5.88	67.79	16.88		130.0	
		Z	5.78	67.75	16.84		130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	Х	6.05	68.39	17.36	0.46	130.0	± 9.6 %
		Y	5.99	68.16	17.18		130.0	
		Z	5.87	68.05	17.10		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	Х	5.75	67.62	16.96	0.46	130.0	± 9.6 %
		Υ	5.70	67.40	16.79		130.0	
		Z	5.64	67.44	16.79		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.86	67.93	17.13	0.46	130.0	± 9.6 %
		Y	5.81	67.71	16.95		130.0	
		Z	5.75	67.77	16.96		130.0	
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	Х	5.62	67.39	16.73	0.46	130.0	±9.6 %
		Y	5.58	67.18	16.56		130.0	
		Z	5.52	67.25	16.58		130.0	

10607-	IEEE 802.11ac WiFi (20MHz, MCS0,	ТХТ	4.88	66.23	16.33	0.46	130.0	+06%
AAB	90pc duty cycle)	^	4.00	00.23	10.33	0.40	130.0	± 9.6 %
		Y	4.82	65.98	16.13		130.0	
		Z	4.78	66.10	16.14		130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	5.11	66.66	16.48	0.46	130.0	± 9.6 %
		Y	5.05	66.41	16.29		130.0	
		Z	4.99	66.52	16.30		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	5.01	66.58	16.37	0.46	130.0	±9.6 %
		Υ	4.94	66.31	16.16		130.0	
10010		Z	4.89	66.41	16.17		130.0	
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	Х	5.06	66.72	16.51	0.46	130.0	±9.6%
		Y	4,99	66.46	16.31		130.0	,
40044	IEEE 000 44 WEE: (COMUL. MOO)	Z	4.94	66.55	16.32		130.0	
10611- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.99	66.60	16.40	0.46	130.0	± 9.6 %
#		Y	4.92	66,32	16.19		130.0	
40040		Z	4.86	66.40	16.19	-	130.0	
10612- AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	5.01	66.73	16.43	0,46	130.0	± 9.6 %
		Y	4.94	66.45	16.21		130.0	
10040	IEEE 000 44 WEE' (001411 A4000	Z	4.88	66.56	16.23		130.0	
10613- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	5.03	66.69	16.36	0.46	130.0	±9.6%
		Y	4.96	66.39	16.13		130.0	
10014	UEEE 000 44 18/51 (00881 84007	Z	4.90	66.50	16.15	2.12	130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	Х	4.95	66.85	16.56	0.46	130.0	± 9.6 %
		Y	4.88	66.56	16.35		130.0	
40045	IEEE COO 44 - WEE COMMITTED CO	Z	4.82	66.62	16.33		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	5.00	66.42	16.20	0.46	130.0	± 9.6 %
		Y	4.93	66.13	15.97		130.0	
10010	1000 44 14/5: (4044)	Z	4.87	66.26	16.00		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	×	5,54	66.86	16.53	0.46	130.0	± 9.6 %
		Y	5.49	66.62	16.36		130.0	
40047		Z	5.43	66.68	16.35		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.61	66.97	16.56	0.46	130.0	±9.6%
		Y	5.56	66.74	16.38		130.0	
40040	JEEE 000 44 INTE (40) 41 INGGO	Z	5.49	66.78	16.38		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.50	67.03	16.60	0.46	130.0	± 9.6 %
		Y	5.44	66.79	16.42		130.0	
10640	IDDE 900 4400 MID: /40841 - 84000	Z	5.39	66.84	16.42	0.40	130.0	1000
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.52	66.85	16.45	0.46	130.0	± 9.6 %
		Y	5.47	66.61	16.27		130.0	
10620-	IEEE 902 1100 WIE: (4084LI- 84004	Z	5.41	66.69	16.29	0.40	130.0	1000
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.67	67.04	16.60	0.46	130.0	± 9.6 %
		Y	5.61	66.78	16.41	····	130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	Z X	5.54 5.62	66.82 67.03	16.40 16.69	0.46	130.0 130.0	± 9.6 %
7770	Jopo duty Cycle)	Y	5.56	66.80	16.53		130.0	
		Z	5.50	66.82	16.50		130.0	
10622-	IEEE 802.11ac WiFi (40MHz, MCS6,	X	5.61	67.13	16.74	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	^ ^ Y				0.40		1 9.U 70
		Z	5.56	66.90	16.57		130.0	
	<u>l</u>	4	5.50	66.94	16.56	<u> </u>	130.0	<u> </u>

10623-	IEEE 802.11ac WiFi (40MHz, MCS7,	ТХТ	5.54	66.86	16.51	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	^	5.54	00.00	10.51	0.40	130.0	1 9.0 76
7 17 11	oopo dat, ojoloj	Y	5.47	66.57	16.30		130.0	
		Z	5.40	66.58	16.27		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.69	66.89	16.58	0.46	130.0	± 9.6 %
		Y	5.64	66.67	16.41		130.0	
		Z	5.58	66.74	16.41		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	Х	6.04	67.74	17.05	0.46	130.0	± 9.6 %
		Y	6.03	67.66	16.95		130.0	
		Z	6.00	67.84	17.02	- 1-	130.0	
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.78	66.87	16.46	0.46	130.0	± 9.6 %
		Y	5.73	66.65	16.29		130.0	
10627-	IEEE 802.11ac WiFi (80MHz, MCS1,	Z	5.69 6.04	66.71 67.38	16.29 16.65	0.46	130.0 130.0	± 9.6 %
AAB	90pc duty cycle)	Y				0.40		± 9.0 %
			6.00	67.21	16.52		130.0 130.0	
10628	IEEE 802.11ac WiFi (80MHz, MCS2,	Z	5.95 5.87	67.28 67.10	16.53 16.47	0.46	130.0	± 9.6 %
10628- AAB	90pc duty cycle)	^ Y	5.81	66.87	16.29	0.40	130.0	19.0 %
		Z	5.76	66.92	16.30		130.0	
10629-	IEEE 802.11ac WiFi (80MHz, MCS3,		5.98	67.25	16.53	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	Y	5.92	67.00	16.35	0.10	130.0	20.0 %
		Ż	5.85	66.99	16.32		130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.60	69.22	17.52	0.46	130.0	± 9.6 %
		Y	6.58	69.06	17.38		130.0	
		Z	6.45	68.96	17.32		130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.44	68.80	17.48	0.46	130.0	±9.6 %
		Υ	6.38	68.59	17.32		130.0	
		Z	6.26	68.46	17.23		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	6.03	67.50	16.84	0.46	130.0	± 9.6 %
		Y	5.98	67.30	16.70		130.0	
		Z	5.91	67.29	16.66		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	6.01	67.47	16.67	0.46	130.0	± 9.6 %
		Y	5.95	67.22	16.50		130.0	
10634~ AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	Z X	5.86	67.40	16.44 16.69	0.46	130.0	± 9.6 %
, , , ,	oopo daty oyolo)	Y	5.91	67.16	16.53		130.0	
		Z	5.82	67.10	16.46		130.0	
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.85	66.78	16.15	0.46	130.0	± 9.6 %
		Υ	5.79	66.49	15.94		130.0	
		Z	5.73	66,56	15.97		130.0	
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	Х	6.18	67.27	16.56	0.46	130.0	± 9.6 %
		Υ	6.14	67.07	16.41		130.0	
4000=		Z	6.10	67.11	16.40		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.39	67.76	16.78	0.46	130.0	± 9.6 %
		Y	6.34	67.53	16.61		130.0	
10620	[EEE 902 44cc M/C: /4ccM/L- \$4000	Z	6.27	67.52	16.58		130.0	
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.36	67.63	16.69	0.46	130.0	± 9.6 %
		Y	6:32	67.44	16.54		130.0	
		Z	6.27	67.48	16.55	<u> </u>	130.0	

10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	Х	6.38	67.71	16.77	0.46	130.0	± 9.6 %
		Y	6.33	67.49	16.62		130.0	
		Z	6.27	67.50	16.60		130.0	
10640- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.43	67.85	16.80	0.46	130.0	± 9.6 %
		Y	6.38	67.63	16.63		130.0	
		Z	6.31	67.62	16.61		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.40	67.53	16.65	0.46	130.0	±9.6%
		Υ	6.35	67.30	16.49		130.0	
		Z	6.29	67.34	16.48		130.0	
10642- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.48	67.86	16.97	0.46	130.0	± 9.6 %
		Y	6.42	67,63	16.81	***************************************	130.0	
		Ζ	6.35	67.61	16.77		130.0	
10643- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.31	67.58	16.75	0.46	130.0	± 9.6 %
		Y	6.25	67.34	16.57	·····	130.0	
1007		Z	6.19	67.36	16.56		130.0	
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.58	68.40	17.19	0.46	130.0	±9.6%
		Y	6.53	68.15	17.01		130.0	
10645	IEEE DOO 4400 MIE! /400MI II MOOO	Z	6.43	68.09	16.96	0.40	130.0	1000
10645- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.81	68,60	17.23	0.46	130.0	± 9.6 %
		Y	6.79	68.43	17.09 17.18		130.0	
10646-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz,	Z X	6.78 25.15	68.63		0.20	130.0	1060/
AAD	QPSK, UL Subframe=2,7)			105.85	35.05	9.30	60.0	± 9.6 %
		Y	21.75	102.80	33.96		60.0	
10647-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	X	30.08 26.44	111.30 107.75	36.91 35.76	9.30	60.0 60.0	± 9.6 %
AAC	QPSK, UL Subframe=2,7)	TY	22.30	104.09	34.48		60.0	
		<u>'</u>	32.07	113.59	37.73		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.88	65.58	12.85	0.00	150.0	± 9.6 %
		TY	0.76	63.51	11.26		150.0	<u> </u>
		Z	0.73	63.36	10.94		150.0	ĺ
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	Х	4.67	68.94	17.67	2.23	80.0	± 9.6 %
		Υ	4,45	68.16	17.20		80.0	
		Z	4.45	68.41	17.21		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	Х	5.13	68.26	17.69	2.23	80.0	± 9.6 %
		Υ	4.94	67.62	17.31		0,08	
		Z	4.95	67.85	17.35		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	5.04	67.95	17.68	2.23	80.0	± 9.6 %
		Y	4.86	67.32	17.30		80.0	
		Z	4.89	67.55	17.36		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	5,09	68.03	17.74	2.23	80.0	±9.6%
		Y	4.92	67.39	17.35		80.0	_
10658- AAA	Pulse Waveform (200Hz, 10%)	Z X	4.94 11.06	67.61 82.99	17.41 22.61	10.00	80.0 50.0	± 9.6 %
/ 0 🗸		Y	11.23	83.63	22.75		50.0	
		Ż	10.79	82.81	22.39		50.0	<u></u>
10659- AAA	Pulse Waveform (200Hz, 20%)	X	18.52	92.74	24.40	6.99	60.0	± 9.6 %
AAA	1	1	ı	P	1	J	l	
		Υ	20.18	94.23	24.71		60.0	

10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	116.44	28.66	3.98	80.0	± 9.6 %
		Υ	100.00	115.80	28.20		80.0	
		Z	100.00	115.68	28.17		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	Х	100.00	117.14	27.43	2.22	100.0	± 9.6 %
		Y	100.00	115.35	26.46		100.0	
		Z	100.00	115.50	26.56		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	X	100.00	121.39	27.21	0.97	120.0	± 9.6 %
		Y	100.00	115.32	24.49		120.0	
		Z	100.00	116.43	25.01		120.0	

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

Calibration Laboratory of

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





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

Accreditation No.: SCS 0108

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

Client

PC Test

Certificate No: ES3-3131 Mar18

CALIBRATION CERTIFICATE

Object

ES3DV3 - SN:3131

Calibration procedure(s)

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

Calibration procedure for dosimetric E-field probes

Calibration date:

March 13, 2018

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

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

Calibration Equipment used (M&TE critical for calibration)

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

Name Signature Calibrated by: Jeton Kastrati Laboratory Technician Approved by: Katja Pokovic Technical Manager

Issued: March 13, 2018

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Certificate No: ES3-3131_Mar18

Page 1 of 39

Calibration Laboratory of

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Schweizerischer Kalibrierdienst S

Service suisse d'étalonnage

C Servizio svizzero di taratura S

Accreditation No.: SCS 0108

Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

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

Glossary:

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

ConvF

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

Methods Applied and Interpretation of Parameters:

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

Probe ES3DV3

SN:3131

Manufactured: Calibrated:

February 6, 2007 March 13, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ²) ^A	1.27	1.26	1.21	± 10.1 %
DCP (mV) ⁸	104.8	101.0	102.1	

Modulation Calibration Parameters

UID	Communication System Name		Α	В	С	D	VR	Unc
			dB	dB√μV		dB	mV	(k=2)
0	CW	Х	0.0	0.0	1.0	0.00	190.2	±3.5 %
		Y	0.0	0.0	1.0		209.7	
		Z	0.0	0.0	1.0		205.3	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V⁻¹	Т6
X	59.71	424.3	34.95	29.43	2.926	5.10	0.529	0.536	1.010
Y	55.55	399.2	35.49	28.93	2.461	5.10	0.546	0.521	1.009
Z	63.86	454.3	34.89	29.70	3.365	5.10	0.736	0.556	1.011

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

 $^{^{}A}_{-}$ The uncertainties of Norm X,Y,Z do not affect the E 2 -field uncertainty inside TSL (see Pages 5 and 6).

Numerical linearization parameter: uncertainty not required.

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

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	6.65	6.65	6.65	0.80	1.13	± 12.0 %
835	41.5	0.90	6.35	6.35	6.35	0.80	1.09	± 12.0 %
1750	40.1	1.37	5.57	5.57	5.57	0.41	1.61	± 12.0 %
1900	40.0	1.40	5.27	5.27	5.27	0.55	1.42	± 12.0 %
2300	39.5	1.67	5.01	5.01	5.01	0.78	1.19	± 12.0 %
2450	39.2	1.80	4.75	4.75	4.75	0.71	1.31	± 12.0 %
2600	39.0	1.96	4.56	4.56	4.56	0.64	1.39	± 12.0 %

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

validity can be extended to ± 110 MHz.

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 fissue 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.

Calibration Parameter Determined in Body Tissue Simulating Media

			_		_			
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	6.26	6.26	6.26	0.80	1.10	± 12.0 %
835	55.2	0.97	6.14	6.14	6.14	0.80	1.16	± 12.0 %
1750	53.4	1.49	5.03	5.03	5.03	0.69	1.29	± 12.0 %
1900	53.3	1.52	4.80	4.80	4.80	0.45	1.65	± 12.0 %
2300	52.9	1.81	4.59	4.59	4.59	0.80	1.22	± 12.0 %
2450	52.7	1.95	4.45	4.45	4.45	0.80	1.25	± 12.0 %
2600	52.5	2.16	4.25	4.25	4.25	0.80	1.20	± 12.0 %

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

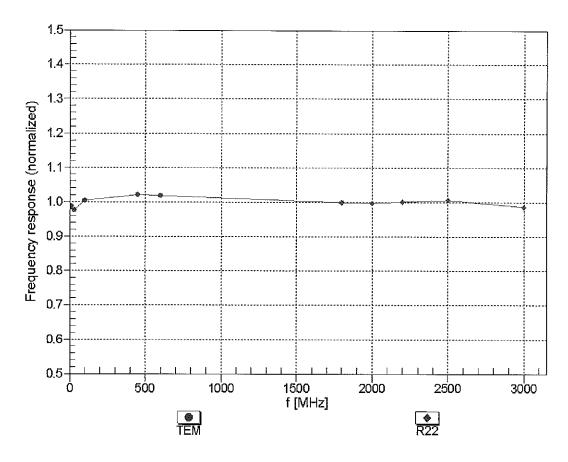
validity can be extended to ± 110 MHz.

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

the ConvF uncertainty for indicated target tissue parameters.

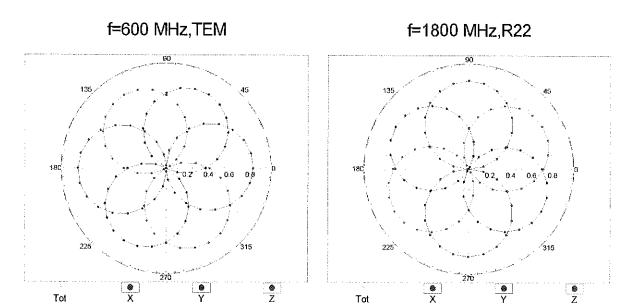
Galpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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

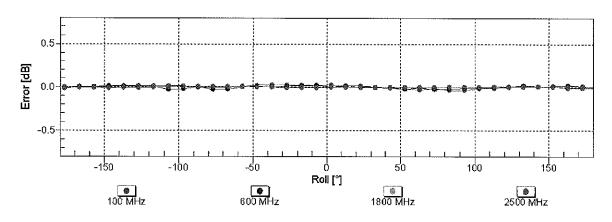
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

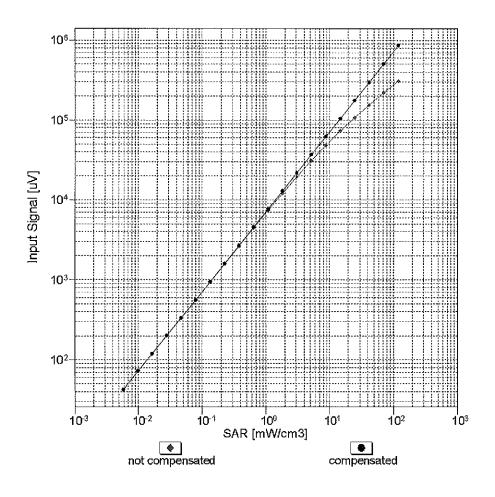
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

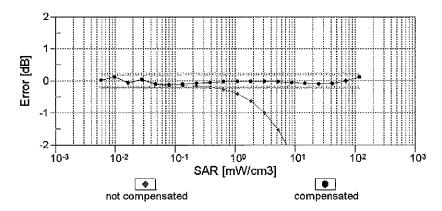




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

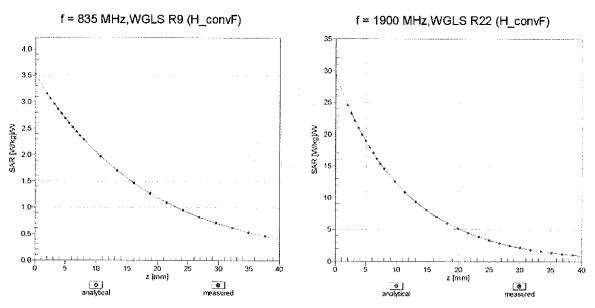
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



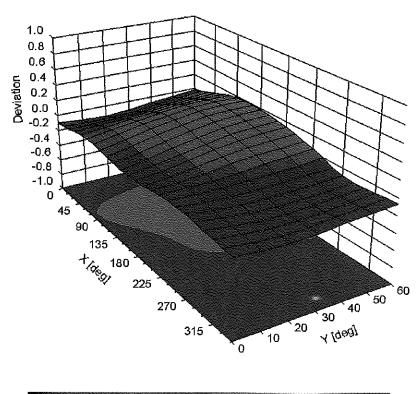


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



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



Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-37
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

ES3DV3-SN:3131

Appendix: Modulation Calibration Parameters

Üİ	ix: Modulation Calibration Paral Communication System Name		A dB	B dBõV	Ç	D dB	VR mV	Max Unc ^E (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	190.2	± 3.5 %
		Υ	0.00	0.00	1.00		209.7	
		Z	0.00	0.00	1.00		205.3	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	9.70	81.61	20.07	10.00	25.0	±9.6 %
		Υ	8.09	78.72	18.33		25.0	
10011	LIMTO FDD (MODIAN)	Z	8.65	79.46	19.49		25.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.28	71.48	17.61	0.00	150.0	± 9.6 %
	***************************************	Z	0.99 1.09	67.09 68.27	14.81		150.0	
10012-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	X	1.09	66.34	15.63 16.80	0.41	150.0 150.0	± 9.6 %
CAB	Mbps)							
		Υ	1.25	64.91	15.58		150.0	
40040	IEEE 000 44: MEELO 4 OLL (DODO	Z	1.31	65.37	15.94	4.40	150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	Х	5.18	67.46	17.61	1.46	150.0	± 9.6 %
		Y	5.07	67.19 67.29	17.35		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	5.19 21.37	96.39	17.43 26.81	9.39	150.0 50.0	± 9.6 %
		Y	30.58	101.71	27.75		50.0	
		Z	14.87	89.78	24.86		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	19.13	94.38	26.23	9.57	50.0	± 9.6 %
		Υ	25.16	98.44	26.84		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	Z X	14.01 100.00	88.61 119.54	24.51 31.26	6.56	50.0 60.0	± 9.6 %
DAC		Υ	100.00	117.35	29.89		60.0	
		Z	47.84	108.37	28.65		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	Х	22.23	110.40	41.95	12.57	50.0	± 9.6 %
		Υ	17.21	103.09	38.95		50.0	
		Z	18.59	103.51	39.13		50.0	*/
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Х	21.90	105.65	36.48	9.56	60.0	± 9.6 %
		Y	19.07	102.43	35.12		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	18.57 100.00	100.40 118.49	34.43 29.81	4.80	60.0 80.0	± 9.6 %
שאט		Υ	100.00	115.80	28.25		80.0	
		Ż	100.00	118.07	29.75		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	Х	100.00	118.84	29.12	3.55	100.0	± 9.6 %
		Υ	100.00	115.34	27.23		100.0	
40000	The second secon	Z	100.00	117.81	28.76		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	15.03	97.24	32.55	7.80	80.0	± 9.6 %
		Y	12.91 13.55	93.88 93.79	31.10 31.06		80.0 80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	118.09	29.97	5.30	70.0	± 9.6 %
O, 11 1		Υ	100.00	115.53	28.47		70.0	
		Z	100.00	117.95	30.06		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Х	100.00	120.93	28.41	1.88	100.0	± 9.6 %
		Υ	100.00	113.98	25.09		100.0	
		Z	100.00	118.18	27.28		100.0	

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	100.00	127.01	29.78	1.17	100.0	± 9.6 %
		TY	100.00	114.85	24.36	-	100.0	
		Z	100.00	121.16	27.38	 	100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Х	20.78	99.53	27.79	5.30	70.0	± 9.6 %
		Y	19.34	97.65	26.66		70.0	
		Z	13.81	92.04	25.45	1	70.0	1
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	12.96	96.00	25,24	1.88	100.0	± 9.6 %
ļ 		Υ	7.44	86.66	21.59		100.0	
10035-	IEEE 000 45 4 PL	Z	6.91	85.91	21.97		100.0	
CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	7.00	88.70	22.77	1.17	100.0	± 9.6 %
		Y	3.95	79.50	18.86		100.0	
10036-	IEEE 000 45 4 Planta III (0 PPOIC PLAN	Z	4.17	80.37	19.79		100.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	25.54	103.17	28.91	5.30	70.0	± 9.6 %
		Υ	24.56	101.70	27.91	<u> </u>	70.0	
10037-	JEEE 000 45 4 Pt. 1 40 P. P. C.	Z	15.79	94.44	26.27		70.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	12.38	95.34	25.01	1.88	100.0	± 9.6 %
		Y	7.01	85.86	21.29		100.0	
40000	IEEE 000 45 4 DL	Z	6.72	85.54	21.81		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Х	7.40	89.83	23.23	1.17	100.0	± 9.6 %
		Y	4.11	80.29	19.23	<u> </u>	100.0	
10039-	CDMA0000 (4 DTT DOA)	Z	4.31	81.10	20.14		100.0	
CAB	CDMA2000 (1xRTT, RC1)	Х	2.72	77.70	18.83	0.00	150.0	± 9.6 %
		Υ	1.75	71.04	15.31		150.0	
400.40	10 51 (10 100 -05 -	Z	1.99	72.39	16.50		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	Х	59.15	110.49	29.04	7.78	50.0	± 9.6 %
		Υ	84.85	113.90	29.06		50.0	
40044	10.04.511.000	Z	23.75	96.54	25.38		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Х	0.00	120.72	0.22	0.00	150.0	±9.6 %
		Υ	0.02	127.01	0.12		150.0	
10010	DEOT (TDD TOUR)	Z	0.00	108.37	4.86		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	11.59	83.57	24.35	13.80	25.0	± 9.6 %
		Υ	12.79	85.72	24.55		25.0	
10010	DECT (TDD TDLLL (TDLL	Z	10.49	80.96	23.58		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	Х	13.73	88.07	24.55	10.79	40.0	± 9.6 %
		Υ	15.47	90.03	24.62		40.0	
10056-	LIMTE TOD (TO CODINA 1 CO.)	Z	11.69	84.69	23.55		40.0	
CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	Х	13.55	88.32	25.13	9.03	50.0	± 9.6 %
		Y	13.84	88.70	24.80		50.0	
10058-	FDOE EDD /FDMA CDC// THE /	Z	11.76	85.13	24.06		50.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	11.01	91.12	29.68	6.55	100.0	± 9.6 %
		Y	9.50	88.00	28.27		100.0	
10059-	IEEE 900 44h MIEE 9 4 GU (FOOD 5	Z	10.33	88.76	28.55		100.0	
CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.58	69.01	18.07	0.61	110.0	± 9.6 %
		Y	1.42	67.12	16.66		110.0	
10000	IEEE DOO 445 MEET O A COLOREST	Z	1.51	67.68	17.04		110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	Х	100.00	132.95	34.51	1.30	110.0	± 9.6 %
		V T	100.00	7				
		Y	100.00 100.00	128.66 129.71	32.37		110.0	

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	X	20.38	108.34	30.72	2.04	110.0	± 9.6 %
OUD	Mbps)	Y	11.19	97.44	27.03		110.0	
		Ż	10.04	95.03	26.45		110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.90	67.22	16.91	0.49	100.0	± 9.6 %
0,10	(поро)	Y	4.79	66.93	16.63		100.0	
		Z	4.90	67.02	16.70		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.94	67.39	17.05	0.72	100.0	± 9.6 %
0/10	Wilder	Y	4.83	67.10	16.77		100.0	
		Z	4.94	67.19	16.85		100.0	
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	Х	5.27	67.72	17.31	0.86	100.0	± 9.6 %
		Υ	5.15	67.43	17.04		100.0	
		Z	5.29	67.55	17.13		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	Х	5.18	67.78	17.49	1.21	100.0	± 9.6 %
		Υ	5.06	67.46	17.21		100.0	
		Z	5.20	67.61	17.30		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	Х	5.24	67.92	17.73	1.46	100.0	± 9.6 %
		Υ	5.12	67.60	17.44		100.0	
		Z	5.26	67.76	17.55	0.04	100.0	1000
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	Х	5.56	68.08	18.18	2.04	100.0	± 9.6 %
		Υ	5.44	67.80	17.91		100.0	
		Z	5.59	67.93	18.02		100.0	
10068- CAC	IEEE 802.11a/h WIFi 5 GHz (OFDM, 48 Mbps)	Х	5.71	68.47	18.57	2.55	100.0	± 9.6 %
		Υ	5.57	68.12	18.27		100.0	
		Z	5.76	68.36	18.42		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	Х	5.79	68.41	18.75	2.67	100.0	± 9.6 %
		Υ	5.65	68.09	18.46		100.0	
		Z	5.83	68.29	18.60		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	Х	5.33	67.71	18.01	1.99	100.0	± 9.6 %
		Υ	5.22	67.44	17.74		100.0	
		Z	5.35	67.56	17.84		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	×	5.41	68.32	18.35	2.30	100.0	±9.6%
		Υ	5.28	67.99	18.07		100.0	
		Z	5.43	68.17	18.17		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	Х	5.55	68.71	18.79	2.83	100.0	± 9.6 %
		Y	5.42	68.35	18.49	<u> </u>	100.0	
		Z	5.59	68.57	18.62	0.00	100.0	1000
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	Х	5.60	68.80	19.06	3.30	100.0	± 9.6 %
		Y	5.46	68.43	18.75		100.0	
		Z	5.64	68.69	18.91		100.0	1000
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	Х	5.77	69.35	19.60	3.82	90.0	± 9.6 %
		Y	5.61	68.90	19.23		90.0	
		Z	5.83	69.29	19.46	1	90.0	1000
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	Х	5.79	69.16	19.72	4.15	90.0	± 9.6 %
		Υ	5.63	68.72	19.36		90.0	
		Z	5.84	69.09	19.58		90.0	10000
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	Х	5.83	69.26	19.83	4.30	90.0	± 9.6 %
		Υ	5.67	68.81	19.47		90.0	
		Z	5.89	69.20	19.69	1	90.0	

10081- CAB	CDMA2000 (1xRTT, RC3)	X	1.20	71.01	15.79	0.00	150.0	± 9.6 %
		Y	0.81	65.47	12.21		150.0	
		Z	0.96	67.03	13.66	 	150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	2.34	64.70	9.44	4.77	80.0	± 9.6 %
		_ <u> </u>	1.96	63.12	8.15		80.0	
40000	000000000000000000000000000000000000000	Z	2.41	64.66	9.57		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	119.63	31.33	6.56	60.0	± 9.6 %
		<u>Y</u>	100.00	117.44	29.96	_	60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	46.14 1.98	107.88 69.13	28.56 16.74	0.00	60.0 150.0	± 9.6 %
		Y	1.78	67.31	15.40	 	150.0	
		Z	1.85	67.66	15.78	+	150.0	
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	Х	1.94	69.14	16.74	0.00	150.0	± 9.6 %
		Υ	1.74	67.26	15.37		150.0	
40555		Z	1.81	67.64	15.76		150.0	
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	21.76	105.45	36.41	9.56	60.0	± 9.6 %
		_ Y	19.00	102.30	35.08		60.0	
10100-	LTC CDD (OO CDAM ASSOCIATION	Z	18.47	100.23	34.37		60.0	
CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.49	72.16	17.57	0.00	150.0	± 9.6 %
		Y	3.13	70.27	16.47		150.0	
10101-	LTE-FDD (SC-FDMA, 100% RB, 20	Z	3.30	70.93	16.79		150.0	
CAD	MHz, 16-QAM)	X	3.43	68.49	16.49	0.00	150.0	±9.6 %
		Y	3.26	67.60	15.84		150.0	
10102-	LTE-FDD (SC-FDMA, 100% RB, 20	Z	3.37	67.97	16.05		150.0	
CAD	MHz, 64-QAM)	X	3.52	68.35	16.53	0.00	150.0	±9.6 %
		Y	3.36	67.55	15.94	Ĺ	150.0	
10103-	LTE-TDD (SC-FDMA, 100% RB, 20	Z	3.47	67.86	16.12		150.0	
CAD	MHz, QPSK)	X	8.96	78.81	21.55	3.98	65.0	± 9.6 %
			8.50	78.18	21.18		65.0	
10104-	LTE-TDD (SC-FDMA, 100% RB, 20	Z	8.56	77.50	20.90		65.0	
CAD	MHz, 16-QAM)	X	8.82	77.41	21.87	3.98	65.0	± 9.6 %
		_	8.44	76.84	21.50		65.0	
10105-	LTE-TDD (SC-FDMA, 100% RB, 20	X	8.69 7.81	76.68	21.44		65.0	
CAD	MHz, 64-QAM)	Y		74.99	21.11	3.98	65.0	± 9.6 %
		Z	7.78 7.67	75.24 74.19	21.10		65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	3.07	71.34	20.64 17.42	0.00	65.0 150.0	± 9.6 %
		Y	2.75	69.52	16.31		150.0	
		Z	2.92	70.12	16.62		150.0	
10109- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	3.10	68.36	16.46	0.00	150.0	± 9.6 %
		Y	2.92	67.40	15.75		150.0	
10110	LTE EDD (OO EDM) (OOO)	Z	3.04	67.74	15.98		150.0	
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	2.52	70.52	17.19	0.00	150.0	± 9.6 %
		Y	2.24	68.59	15.93		150.0	
10111-	LTE-EDD (SC EDMA 4000) DD 5100	Z	2.39	69.17	16.31		150.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	2.81	69.10	16.82	0.00	150.0	± 9.6 %
		Y	2.62	68.01	15.98		150.0	
		Z	2.73	68.19	16.21		150.0	

10112-	LTE-FDD (SC-FDMA, 100% RB, 10	X	3.21	68.23	16.45	0.00	150.0	± 9.6 %
CAE	MHz, 64-QAM)							
		Υ	3.04	67.37	15.80		150.0	
101:0		Z	3.16	67.65	16.00		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	2.96	69.10	16.88	0.00	150.0	± 9.6 %
		Υ	2.77	68.13	16.12		150.0	
		Z	2.88	68.24	16.31		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.24	67.53	16.64	0.00	150.0	± 9.6 %
		Y	5.16	67.27	16.41		150.0	
10115	USES 000 44 - (UT O Sald 04 Min	Z	5.23	67.33	16.43	0.00	150.0	1000
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	5.61	67.85	16.80	0.00	150.0	± 9.6 %
		Y	5.52	67.61	16.59		150.0	
10110	1555 000 44 (UT O . C. L. 405 MI	Z	5.60	67.65	16.60	0.00	150.0	1000
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.38	67.81	16.71	0.00	150.0	± 9.6 %
		Y	5.28	67.54	16.47		150.0	
40447		Z	5.36	67.60	16.49	0.00	150.0	10000
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.25	67.54	16.67	0.00	150.0	± 9.6 %
		Y	5.15	67.21	16.40		150.0	
40440	UEEE 000 44 WITH 1 04 1 W	Z	5.24	67.36	16.47	0.00	150.0	1000
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.69	68.04	16.91	0.00	150.0	± 9.6 %
		Y	5.61	67.82	16.70		150.0	
	<u> </u>	Z	5.67	67.78	16.67		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	Х	5.35	67.76	16.70	0.00	150.0	± 9.6 %
		Υ	5.26	67.48	16.45		150.0	
		Z	5.33	67.55	16.48		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.57	68.35	16.45	0.00	150.0	± 9.6 %
		Υ	3.41	67.55	15.86		150.0	
		Ζ	3.52	67.87	16.05		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3.69	68.36	16.57	0.00	150.0	± 9.6 %
		Υ	3.53	67.63	16.03		150.0	
		Z	3.64	67.90	16.19		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	2.31	70.70	17.09	0.00	150.0	± 9.6 %
		Υ	2.01	68.47	15.61		150.0	
		Z	2.16	69.06	16.10		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	2.72	70.07	16.82	0.00	150.0	± 9.6 %
		Υ	2.47	68.60	15.71		150.0	
		Z	2.60	68.79	16.08		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	2.51	67.97	15.36	0.00	150.0	±9.6 %
		Υ	2.28	66.59	14.25		150.0	
		Z	2.44	67.05	14.81		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	1.68	69.24	14.82	0.00	150.0	± 9.6 %
		Y	1.28	65.49	12.22		150.0	
		Z	1.52	67.19	13.80	<u> </u>	150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	3.59	74.27	16.49	0.00	150.0	± 9.6 %
		Υ	2.48	69.03	13.53		150.0	
		Z	3.48	73.38	16.27		150.0	<u> </u>
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	4.81	78.43	18.29	0.00	150.0	±9.6 %
		Υ	3.06	71.86	14.93		150.0	
		Z	4.39	76.74	17.80		150.0	

10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	3.11	68.42	16.50	0.00	150.0	± 9.6 %
		Υ	2.93	67.46	15.79	 	150.0	
		Z	3.05	67.79	16.02		150.0	1
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.22	68.28	16.49	0.00	150.0	± 9.6 %
		Y	3.05	67.42	15.84		150.0	
40454		Z	3.17	67.70	16.04		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	9.55	81.17	22.58	3.98	65.0	± 9.6 %
<u> </u>		ļΥ	9.21	80.82	22.29		65.0	
10152-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	Z	9.01	79.54	21.81		65.0	
CAD	16-QAM)	X	8.49	77.73	21.79	3.98	65.0	± 9.6 %
		Y	8.06	77.04	21.32		65.0	
10153-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	Z	8.33	76.87	21.33	ļ	65.0	
CAD	64-QAM)	X	8.83	78.38	22.38	3.98	65.0	± 9.6 %
		Y	8.47	77.90	22.02		65.0	
10154-	LTE-FDD (SC-FDMA, 50% RB, 10 MHz,	Z	8.65	77.49	21.91	<u> </u>	65.0	
CAE	QPSK)	X	2.59	70.99	17.47	0.00	150.0	± 9.6 %
		Y	2.29	69.02	16.20		150.0	
10155-	LTE-FDD (SC-FDMA, 50% RB, 10 MHz,	Z	2.45	69.60	16.57		150.0	
CAE	16-QAM)	X	2.81	69.11	16.83	0.00	150.0	± 9.6 %
		Y	2.62	68.02	15.99		150.0	
10156-	LTE-FDD (SC-FDMA, 50% RB, 5 MHz,	Z	2.73	68.19	16.22		150.0	
CAE	QPSK)	Х	2.20	71.20	17.17	0.00	150.0	± 9.6 %
		Y	1.86	68.56	15.44		150.0	
10157-	L'TE EDD (CC EDMA FOO) DD FANI	Z	2.03	69.28	16.06		150.0	
CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	2.39	68.89	15.65	0.00	150.0	± 9.6 %
<u></u>		Υ	2.11	67.10	14.29		150.0	,
10158-	TE EDD (SC EDMA 500) DD 40 MIL	Z	2.28	67.64	14.94		150.0	
CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.96	69.15	16.92	0.00	150.0	± 9.6 %
		Υ	2.78	68.19	16.16		150.0	
10159-	LTE EDD (DO EDMA FOO) DD TO	Z	2.88	68.29	16.35		150.0	
CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	2.51	69.32	15.92	0.00	150.0	±9.6 %
		Υ	2.22	67.54	14.58		150.0	
10160-	LTE EDD (CO EDMA 500/ PD 45 M)	Z	2.39	68.04	15.21		150.0	
CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	2.99	69.94	17.05	0.00	150.0	± 9.6 %
		Y	2.77	68.65	16.16		150.0	
10161-	LTE-FDD (SC-FDMA, 50% RB, 15 MHz,	Z	2.88	68.94	16.37		150.0	
CAD	16-QAM)	Х	3.11	68.19	16.45	0.00	150.0	± 9.6 %
·		Y	2.95	67.33	15.77		150.0	
10162-	LTE-EDD (SC EDMA 500) DD 45.55	Z	3.06	67.58	15.98		150.0	
CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	3.22	68.24	16.50	0.00	150.0	± 9.6 %
		Y	3.05	67.44	15.87		150.0	
10166-	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz,	Z	3.16	67.62	16.05		150.0	
CAE	QPSK)	Х	3.96	70.82	19.89	3.01	150.0	± 9.6 %
		Y	3.78	70.13	19.34		150.0	
10167-	LTE EDD (SC EDMA 50% DD 445%)	Z	4.03	70.67	19.70		150.0	
CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	×	5.11	74.26	20.56	3.01	150.0	± 9.6 %
		Y	4.79	73.27	19.88		150.0	
		Z	5.26	74.15	20.39		150.0	

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	5.60	76.23	21.70	3.01	150.0	± 9.6 %
		Υ	5.31	75.53	21.18		150.0	
		Z	5.73	76.01	21.47		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	3.58	72.12	20.50	3.01	150.0	± 9.6 %
		Υ	3.30	70.64	19.56		150.0	
		Ζ	3.78	72.59	20.51		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	5.42	79.38	23.12	3.01	150.0	± 9.6 %
		7	4.85	77.44	22.11		150.0	
		Z	5.84	79.95	23.10		150.0	
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	4.40	74.87	20.38	3.01	150.0	± 9.6 %
		Υ	3.89	72.72	19.17		150.0	
		Z	4.70	75.31	20.35		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	34.94	113.16	34.77	6.02	65.0	± 9.6 %
		Y	22.71	105.08	32.22		65.0	
		Z	26.85	106.59	32.64		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	37.64	109.23	31.90	6.02	65.0	± 9.6 %
		Υ	35.13	108.10	31.31		65.0	
		Z	28.94	103.32	30.05		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	28.41	102.80	29.56	6.02	65.0	± 9.6 %
		Υ	26.93	102.01	29.05		65.0	
		Z	22.73	97.84	27.96		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	3.53	71.78	20.25	3.01	150.0	± 9.6 %
		Υ	3.25	70.28	19.30		150.0	
		Ζ	3.72	72.23	20.26		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	5.43	79.41	23.13	3.01	150.0	± 9.6 %
		Υ	4.86	77.46	22.12		150.0	-
		Z	5.85	79.97	23.11		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	3.57	71.95	20.35	3.01	150.0	±9.6%
		Υ	3.28	70.45	19.40		150.0	
		Ζ	3.76	72.40	20.36		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	5.35	79.11	22.99	3.01	150.0	± 9.6 %
		Υ	4.79	77.17	21.97		150.0	}
		Z	5.76	79.65	22.96		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	4.87	77.00	21.61	3.01	150.0	± 9.6 %
		Υ	4.32	74.89	20.48		150.0	
		Z	5.21	77.44	21.57		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	4.38	74.78	20.32	3.01	150.0	± 9.6 %
		Υ	3.87	72.63	19.11		150.0	
		Z	4.68	75.20	20.29		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	3.56	71.93	20.34	3.01	150.0	± 9.6 %
		Υ	3.28	70.44	19.39		150.0	
		Z	3.75	72.39	20.35		150.0	ļ
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	Х	5.34	79.09	22.98	3.01	150.0	±9.6%
		Υ	4.78	77.14	21.96		150.0	
		Z	5.75	79.62	22.95		150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	4.37	74.75	20.31	3.01	150.0	± 9.6 %
		Υ	3.86	72.60	19.10		150.0	
		Z	4.67	75.17	20.28		150.0	

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	3.57	71.98	20.36	3.01	150.0	± 9.6 %
		Y	3.29	70.48	19.42		150.0	-
		Z	3.76	72.43	20.37		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	5.37	79.16	23.01	3.01	150.0	± 9.6 %
		Y	4.81	77.22	22.00		150.0	
40400		Z	5.78	79.70	22.98		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	4.40	74.83	20.35	3.01	150.0	± 9.6 %
		Y	3.88	72.68	19.14		150.0	
10187-	LTE EDD (OO EDMA 4 DD 4 4 4 4	Z	4.70	75.25	20.31	<u> </u>	150.0	
CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.58	72.02	20.42	3.01	150.0	± 9.6 %
		Y	3.30	70.53	19.48		150.0	
10188-	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz,	Z	3.77	72.48	20.43	<u> </u>	150.0	ļ
CAE	16-QAM)	X	5.57	79.92	23.41	3.01	150.0	± 9.6 %
		Y	5.00	78.02	22.42	<u> </u>	150.0	
10189-	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz.	Z	6.00	80.49	23.39	<u> </u>	150.0	
AAE	64-QAM)	X	4.51	75.31	20.63	3.01	150.0	± 9.6 %
		Y	3.98	73.16	19.43	ļ	150.0	
10193-	IEEE 802.11n (HT Greenfield, 6.5 Mbps,	Z	4.82	75.75	20.60		150.0	
CAC	BPSK)	X	4.67	66.97	16.43	0.00	150.0	±9.6 %
		Y	4.56	66.66	16.13	<u> </u>	150.0	
10194-	IEEE 802.11n (HT Greenfield, 39 Mbps,	Z	4.66	66.74	16.22	<u> </u>	150.0	
CAC	16-QAM)	X	4.86	67.33	16.54	0.00	150.0	±9.6%
		Y	4.75	67.00	16.25		150.0	
10195-	1555 900 44- (UT O 5 11 05 14)	Z	4.86	67.11	16.33	<u> </u>	150.0	
CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.90	67.34	16.55	0.00	150.0	± 9.6 %
		Υ	4.79	67.02	16.26		150.0	
10196-	IEEE 900 445 /IJTAS 1 0 CAN	Z	4.90	67.12	16.33		150.0	
CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.68	67.07	16.46	0.00	150.0	±9.6 %
		Υ	4.57	66.74	16.16		150.0	
10197-	IEEE 000 44" (UTAC - 1 00 10	Z	4.68	66.84	16.25		150.0	
CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.88	67.35	16.56	0.00	150.0	± 9.6 %
		<u>Y</u>	4.76	67.02	16.26		150.0	
10198-	IEEE 900 44 m /UT Minned OF MI	Ζ	4.87	67.14	16.34		150.0	
CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	Х	4.91	67.36	16.56	0.00	150.0	± 9.6 %
		Υ	4.79	67.04	16.28		150.0	
10219-	IEEE 802.11n (HT Mixed, 7.2 Mbps,	Z	4.90	67.14	16.35		150.0	
CAC	BPSK)	X	4.63	67.08	16.43	0.00	150.0	± 9.6 %
		Y	4.52	66.75	16.12		150.0	
10220-	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-	Z	4.63	66.86	16.22		150.0	
CAC	QAM)	X	4.88	67.34	16.55	0.00	150.0	± 9.6 %
		Y	4.76	67.01	16.26		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	Z X	4.87 4.91	67.13 67.29	16.34 16.55	0.00	150.0 150.0	± 9.6 %
		Υ	4.80	66.97	16.26		150.0	
		Ż	4.91	67.07	16.34		150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.23	67.56	16.67	0.00	150.0	± 9.6 %
		Y	5.12	67.23	16.39		150.0	
		ż	5.22	67.38	16.47			
			V.EZ	07.00	10.47		150.0	

March 13, 2018

10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	Х	5.59	67.88	16.85	0.00	150.0	± 9.6 %
		Υ	5.45	67.47	16.54		150.0	
		Ζ	5.60	67.75	16.68		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	Х	5.27	67.65	16.64	0.00	150.0	±9.6 %
		Y	5.17	67.32	16.36		150.0	
		Ζ	5.27	67.48	16.44		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	2.95	66.74	15.92	0.00	150.0	± 9.6 %
		Y	2.82	66.08	15.31		150.0	
		Z	2.92	66.24	15.55		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	39.92	110.44	32.32	6.02	65.0	± 9.6 %
		Y	37.98	109.65	31.83	1.8.1	65.0	
		Z	30.32	104.28	30.40		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	30.54	104.19	30.05	6.02	65.0	± 9.6 %
		Y	29.85	103.92	29.69		65.0	
		Z	24.24	99.06	28.40		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	40.97	116.76	35.87	6.02	65.0	± 9.6 %
	<u> </u>	Υ	33.05	112.71	34.49		65.0	
		Z	30.60	109.58	33.61		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	37.64	109.22	31.90	6.02	65.0	± 9.6 %
		Υ	35.21	108.13	31.33		65.0	
		Z	28.96	103.32	30.05		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	29.14	103.27	29.72	6.02	65.0	± 9.6 %
O/ID	CO (VI)	Υ	28.04	102.73	29.28		65.0	
		Z	23.34	98.31	28.11		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	38.69	115.50	35.45	6.02	65.0	± 9.6 %
0,12		Y	30.84	111.23	34.00		65.0	
		Ż	29.25	108.59	33.26		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	37.64	109,22	31.91	6.02	65.0	± 9.6 %
0,.0		Υ	35.20	108.13	31.32		65.0	
		Z	28.95	103.32	30.05		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	29.17	103.30	29.73	6.02	65.0	± 9.6 %
		Y	28.04	102.74	29.28		65.0	
		Z	23.35	98.33	28.12		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	36.40	114.09	34.96	6.02	65.0	± 9.6 %
		Υ	28.84	109.71	33.46		65.0	
		Z	27.86	107.46	32.84		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	37.79	109.31	31.93	6.02	65.0	± 9.6 %
		Y	35.33	108.21	31.35		65.0	
		Z	29.02	103.38	30.07		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	29.44	103.44	29.76	6.02	65.0	±9.6 %
		Υ	28.30	102.88	29.31		65.0	
		Z	23.52	98.44	28.15		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	39.17	115.77	35.53	6.02	65.0	± 9.6 %
		Υ	31.13	111.44	34.06		65.0	
		Z	29.52	108.79	33.31		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	37.67	109.25	31.91	6.02	65.0	±9.6 %
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Υ	35.21	108.15	31.33		65.0	
F		Ż	28.96	103.33	30.06	1	65.0	1

ES3DV3-SN:3131

10240- CAD 10241- CAA 10242- CAA 10243- CAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	Y Z X Y Z X Y Z X Y Z X X Y Z X X Y Z X X X X X X X X X	28.04 23.36 39.02 31.02 29.43 12.98 12.11 12.95 11.85 11.82 11.69	102.76 98.35 115.70 111.38 108.74 87.83 86.66 87.02 85.78	29.28 28.12 35.51 34.04 33.30 27.99 27.31 27.60 27.12	6.02	65.0 65.0 65.0 65.0 65.0 65.0 65.0	±9.6 % ±9.6 %
10241- CAA 10242- CAA 10243- CAA	QPSK) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z X Y Z X Y Z X	23.36 39.02 31.02 29.43 12.98 12.11 12.95 11.85	98.35 115.70 111.38 108.74 87.83 86.66 87.02	28.12 35.51 34.04 33.30 27.99 27.31 27.60	6.98	65.0 65.0 65.0 65.0 65.0	
10241- CAA 10242- CAA 10243- CAA	QPSK) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	X Y Z X Y Z X Y Z Z Z	39.02 31.02 29.43 12.98 12.11 12.95 11.85	115.70 111.38 108.74 87.83 86.66 87.02	35.51 34.04 33.30 27.99 27.31 27.60	6.98	65.0 65.0 65.0 65.0	
10241- CAA 10242- CAA 10243- CAA	QPSK) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Y Z X Y Y Z Z Z Z	31.02 29.43 12.98 12.11 12.95 11.85	111.38 108.74 87.83 86.66 87.02	34.04 33.30 27.99 27.31 27.60	6.98	65.0 65.0 65.0	
10242- CAA 10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z X Y Z X Y Z	29.43 12.98 12.11 12.95 11.85	108.74 87.83 86.66 87.02	33.30 27.99 27.31 27.60		65.0 65.0 65.0	± 9.6 %
10242- CAA 10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	X Y Z X Y	12.98 12.11 12.95 11.85	87.83 86.66 87.02	27.99 27.31 27.60		65.0 65.0	± 9.6 %
10242- CAA 10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Y Z X Y Z	12.11 12.95 11.85	86.66 87.02	27.31 27.60		65.0	± 9.6 %
10243- CAA	64-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z X Y Z	12.95 11.85 11.82	87.02	27.60			
10243- CAA	64-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	X Y Z	11.85 11.82				65.0	
10243- CAA	64-QAM) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Y	11.82	85.78	27 42		00.0	
10244-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	Z				6.98	65.0	± 9.6 %
10244-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	1	11 60	86.11	27.03		65.0	
10244-	QPSK)	X	11.00	84.73	26.63		65.0	
		<u> </u>	9.73	83.39	27.11	6.98	65.0	± 9.6 %
		Y	8.46	80.56	25.70		65.0	
	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Z	9.65	82.46	26.63		65.0	
	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	9.87	81.23	21.47	3.98	65.0	± 9.6 %
		Υ	9.25	80.21	20.66	<u> </u>	65.0	1
40045		Ζ	9.69	80.52	21.33		65.0	T
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	9.71	80.72	21.24	3.98	65.0	± 9.6 %
		Y	9.06	79.63	20.40		65.0	
		Z	9.59	80.11	21.14		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	10.11	84.44	22.62	3.98	65.0	± 9.6 %
		Υ	9.22	82.93	21.64		65.0	
		Z	8.93	81.85	21.69		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	8.06	78.54	20.96	3.98	65.0	± 9.6 %
		Υ	7.54	77.59	20.24		65.0	
		Z	7.77	77.42	20.53			
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	8.03	78.04	20.76	3.98	65.0 65.0	± 9.6 %
		Υ	7.49	77.03	20.00		65.0	<u> </u>
		Ż	7.80	77.05	20.38			
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	10.98	86.04	23.80	3.98	65.0 65.0	± 9.6 %
		Υ	10.39	85.20	23.16		65.0	
		Z	9.61	83.12	22.69		65.0	
	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	8.85	80.19	22.80	3.98	65.0	± 9.6 %
		Y	8.49	79.74	22.41		65.0	
		Z	8.52	78.91	22.21		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	8.39	78.14	21.73	3.98	65.0	± 9.6 %
		Y	7.96	77.45	21.21		65.0	
		Z	8.18	77.14	21.25		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	10.49	84.62	23.91	3.98	65.0	± 9.6 %
		Y	10.11	84.24	23.55		65.0	 ,,
		Z	9.51	82.20	22.88		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	8.26	77.12	21.58	3.98	65.0	± 9.6 %
		Υ	7.86	76.46	21.11		65.0	
		Z	8.13	76.32	21.16	-	65.0	
10254- I CAD (LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	×	8.62	77.80	22.14	3.98	65.0	± 9.6 %
		Y	8.26	77.29	21.75		- 05.0	
		ż	8.47	76.96	21.70		65.0 65.0	

10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	9.24	80.82	22.69	3.98	65.0	± 9.6 %
U/ID	QI OIV	Y	8.89	80.44	22.37		65.0	
	-	Z	8.76	79.27	21.94		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	8.83	79.06	19.89	3.98	65.0	± 9.6 %
		Υ	7.90	77.28	18.69		65.0	
		Ζ	8.86	78.81	19.98		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	8.62	78.33	19.52	3.98	65.0	±9.6%
		Υ	7.66	76.48	18.29		65.0	
		Z	8.72	78.23	19.68		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	8.73	81.62	21.03	3.98	65.0	± 9.6 %
		Υ	7.58	79.33	19.66		65.0	
		Z	8.01	79.82	20.43		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	8.37	79.10	21.60	3.98	65.0	± 9.6 %
		Υ	7.91	78.35	21.00		65.0	
		Ζ	8.06	77.92	21.11		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	8.37	78.81	21.51	3.98	65.0	± 9.6 %
		Υ	7.91	78.05	20.90		65.0	
		Z	8.10	77.72	21.05		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	10.34	84.80	23.65	3.98	65.0	± 9.6 %
		Υ	9.82	84.08	23.09		65.0	
		Z	9.28	82.27	22.63		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	8.84	80.16	22.77	3.98	65.0	± 9.6 %
		Υ	8.48	79.69	22.38		65.0	
		Z	8.51	78.88	22.18		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	8.38	78.13	21.73	3.98	65.0	± 9.6 %
		Υ	7.95	77.44	21.21		65.0	
-		Z	8.17	77.14	21.26		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	10.42	84,49	23.84	3.98	65.0	± 9.6 %
		Y	10.03	84.06	23.46		65.0	
		Z	9.46	82.08	22.82		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	8.49	77.73	21.79	3.98	65.0	± 9.6 %
		Υ	8.06	77.04	21.33		65.0	
		Z	8.33	76.88	21.33		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	8.83	78.38	22.38	3.98	65.0	± 9.6 %
		Υ	8.47	77.89	22.02		65.0	
		Z	8.66	77.49	21.90		65.0	1
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	Х	9.53	81.14	22.57	3.98	65.0	± 9.6 %
		Υ	9.19	80.79	22.27		65.0	
		Z	8.99	79.51	21.80		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	8.88	77.07	21.86	3.98	65.0	± 9.6 %
		Υ	8.53	76.57	21.52		65.0	
		Z	8.78	76.39	21.46		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	8.79	76.65	21.76	3.98	65.0	± 9.6 %
		Υ	8.45	76.15	21.41		65.0	
		Z	8.71	76.02	21.39		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	8.94	78.31	21.61	3.98	65.0	± 9.6 %
		Υ	8.64	77.99	21.35		65.0	
		Z	8.68	77.27	21.06	1	65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.71	67.13	15.85	0.00	150.0	±9.6 %
		Y	2.57	66.31	15.13		150.0	
		Z	2.64	66.45	15.37	<u> </u>	150.0	-
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	Х	1.85	70.30	16.99	0.00	150.0	± 9.6 %
		<u> </u>	1.58	67.65	15.24		150.0	
40077	DIO (ODO)	Z	1.69	68.38	15.77		150.0	
10277- CAA	PHS (QPSK)	X	5.94	70.38	14.66	9.03	50.0	± 9.6 %
		<u> Y</u>	5.17	68.50	13.15		50.0	
10278-	PHS (QPSK, BW 884MHz, Rolloff 0.5)	Z	6.22	70.77	15.16		50.0	
CAA	TTIS (QFSA, BW 604IVIFIZ, KOHOIT U.5)	X	9.51	80.33	21.13	9.03	50.0	± 9.6 %
		Y	8.70	78.78	19.94		50.0	
10279-	DHC (ODCK DM COAMUL D.II. (CO.CO)	Z	9,27	79.51	21.02		50.0	
CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	9.68	80.54	21.22	9.03	50.0	± 9.6 %
		Y	8.84	78.95	20.02		50.0	
10290-	CDMA2000 BOA 2055 5 HB :	Z	9.44	79.73	21.11		50.0	
AAB	CDMA2000, RC1, SO55, Full Rate	X	2.06	73.44	16.85	0.00	150.0	± 9.6 %
<u> </u>		Y	1.43	68.22	13.77		150.0	
10291-	CDMARROR DOG COES 5 11 5	Z	1.66	69.67	15.05		150.0]
AAB	CDMA2000, RC3, SO55, Full Rate	Х	1.16	70.60	15.59	0.00	150.0	± 9.6 %
		Y	0.80	65.26	12.08		150.0	
10292-	CDMA2000 BOX DOX 5 HB 4	Z	0.93	66.77	13.52		150.0	
AAB	CDMA2000, RC3, SO32, Full Rate	X	1.81	78.25	19.24	0.00	150.0	±9.6 %
		Υ	0.97	68.79	14.20		150.0	
40000	ODIMAGO TO THE TOTAL THE TOTAL TO THE TOTAL	Z	1.15	70.64	15.76		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	Х	3.34	88.05	23.27	0.00	150.0	± 9.6 %
		Υ	1.42	74.19	17.06		150.0	
10005		Z	1.58	75.44	18.29		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	11.20	84.73	24.67	9.03	50.0	± 9.6 %
		Υ	11.16	84.72	24.22		50.0	
40000		Z	10.30	82.53	23.89		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	3.08	71.44	17.49	0.00	150.0	± 9.6 %
		Υ	2.76	69.62	16.37		150.0	
40000	LWE EDD (CO. Della Co. Del	Z	2.93	70.21	16.68		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	2.00	70.97	16.35	0.00	150.0	± 9.6 %
····		Y	1.59	67.59	14.12		150.0	
10299-	LITE EDD (CC EDMA FOX DE A - ::	Z	1.80	68.71	15.16		150.0	
AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	4.04	75.60	17.83	0.00	150.0	± 9.6 %
		Y	3.13	71.73	15.61		150.0	
10300-	LTE EDD (CO EDMA FOX ES	Z	3.87	74.41	17.40		150.0	
AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	2.81	69.39	14.43	0.00	150.0	± 9.6 %
		Y	2.30	66.70	12.58		150.0	
10301-	IEEE 902 400 M/MAN/ (CC 40 E	Z	2.87	69.17	14.42		150.0	
AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	Х	5.89	68.81	19.16	4.17	80.0	± 9.6 %
		Υ	5.66	68.36	18.79		80.0	
10302-	IEEE 900 40- W/MAN (OD 10-	Z	5.92	68.57	18.96		80.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	Х	6.47	69.89	20.19	4.96	80.0	± 9.6 %
		Υ	6.05	68.47	19.23		80.0	
	1	Z						I

10303- AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	Х	6.36	70.13	20.33	4.96	80.0	± 9.6 %
		TY	5.89	68.50	19.26		80.0	
		Z	6.45	70.13	20.27		80.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	5.92	69.16	19.37	4.17	80.0	± 9.6 %
7000	1011112; 0102111; 1 000)	Υ	5.54	67.83	18.47		80.0	
		Z	5.99	69.06	19.25		80.0	
10305- AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	8.54	79.67	25.07	6.02	50.0	± 9.6 %
7001	70.1112, 0.100 111, 1.000, 1.00	Y	8.44	80.60	25.43		50.0	
	and the same of th	Ż	8.86	79.98	25.15		50.0	
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	7.15	74.17	22.93	6.02	50.0	± 9.6 %
		Y	6.22	70.94	21.02		50.0	
		Z	7.34	74.36	22.97		50.0	
10307- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	Х	7.37	75.21	23.20	6.02	50.0	± 9.6 %
		Y	7.05	75.26	23.20		50.0	
		Z	7.59	75.43	23.23		50.0	
10308- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	Х	7.50	75.84	23.49	6.02	50.0	± 9.6 %
		Y	7.19	75.98	23.54		50.0	
		Z	7.73	76.05	23.51		50.0	
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	7.30	74.58	23.14	6.02	50.0	± 9.6 %
		Y	6.32	71.25	21.19		50.0	
		Z	7.50	74.75	23.17		50.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Х	7.21	74.54	23.00	6.02	50.0	± 9.6 %
		Y	6.23	71.15	21.02		50.0	
		Z	7.41	74.72	23.02		50.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.45	70.59	17.05	0.00	150.0	± 9.6 %
		Υ	3.11	68.90	16.04		150.0	
		Ζ	3.28	69.48	16.32		150.0	
10313- AAA	iDEN 1:3	Х	8.25	79.81	19.40	6.99	70.0	±9.6 %
		Υ	7.09	77.52	18.13		70.0	1
		Z	7.19	77.26	18.43		70.0	
10314- AAA	iDEN 1:6	Х	10.47	85.49	23.78	10.00	30.0	± 9.6 %
		Y	9.83	84.58	23.09		30.0	
		Z	8.47	81.15	22.18		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	Х	1.20	65.79	16.55	0.17	150.0	±9.6 %
		Υ	1.11	64.35	15.27		150.0	
		Z	1.16	64.78	15.62		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	4.78	67.18	16.65	0.17	150.0	±9.6%
		Υ	4.67	66.86	16.35		150.0	
		Z	4.77	66.96	16.43		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	Х	4.78	67.18	16.65	0.17	150.0	± 9.6 %
		Y	4.67	66.86	16.35		150.0	
		Z	4.77	66.96	16.43		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.87	67.42	16.55	0.00	150.0	±9.6%
		Υ	4.75	67.07	16.25		150.0	
		Z	4.87	67.19	16.33		150.0	
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	Х	5.51	67.49	16.64	0.00	150.0	± 9.6 %
[Υ	5.43	67.26	16.42	1	150.0	[
	i	Z	J 0.70	01.4.0	10.12	3	150.0	<u>; </u>

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.81	67.96	16.71	0.00	150.0	± 9.6 %
		Υ	5.70	67.66	16.46		150.0	
		Z	5.79	67.80	16.52	1	150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	Х	2.06	73.44	16.85	0.00	115.0	± 9.6 %
		Y	1.43	68.22	13.77		115.0	
40404		Z	1.66	69.67	15.05		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	Х	2.06	73.44	16.85	0.00	115.0	± 9.6 %
		<u> Y</u>	1.43	68.22	13.77		115.0	
10406-	CDMA2000 BOO COOK COUR TO	Z	1.66	69.67	15.05		115.0	
AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	125.25	32.47	0.00	100.0	± 9.6 %
		<u> </u>	92.30	121.40	30.74	ļ	100.0	
40440	LTE TOP (OA EDIN (DE LA COLOR	Z	100.00	123.39	31.76		100.0	
10410- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	121.01	31.06	3.23	80.0	± 9.6 %
		Y	100.00	119.50	30.06		80.0	
10415-	LEEE 000 441 MIET C 1 E11	Z	100.00	119.85	30.68		80.0	
AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.04	64.03	15.57	0.00	150.0	±9.6 %
		Υ	0.96	62.80	14.36		150.0	
40.440		Z	1.00	63.15	14.69		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	Х	4.67	67.01	16.48	0.00	150.0	± 9.6 %
		Y	4.57	66.70	16.19		150.0	
40447		Z	4.66	66.77	16.26		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	Х	4.67	67.01	16.48	0.00	150.0	± 9.6 %
		Υ	4.57	66.70	16.19		150.0	
10110		Z	4.66	66.77	16.26		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.66	67.15	16.49	0.00	150.0	± 9.6 %
		Y	4.55	66.84	16.19		150.0	
10110		Z	4.64	66.90	16.25		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.68	67.11	16.49	0.00	150.0	± 9.6 %
		Y	4.58	66.79	16.20		150.0	
		Ζ	4.67	66.87	16.27		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	Х	4.81	67.11	16.50	0.00	150.0	± 9.6 %
		Υ	4.70	66.81	16.22		150.0	
40400	LEGE 000 44 (1)	Z	4.80	66.88	16.29		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	5.00	67.48	16.64	0.00	150.0	± 9.6 %
		Υ	4.88	67.16	16.35		150.0	
10424	JEEE 900 44 - // IE O	Z	5.01	67.27	16.43		150.0	
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.92	67.43	16.61	0.00	150.0	± 9.6 %
		Y	4.80	67.10	16.32		150.0	
10425-	IEEE 900 145 /UT O	Z	4.91	67.20	16.39		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	Х	5.49	67.74	16.75	0.00	150.0	± 9.6 %
		Υ	5.41	67.50	16.53		150.0	
10426	IEEE 900 44m (UT O	Z	5.48	67.54	16.55		150.0	
10426- AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	Х	5.51	67.77	16.76	0.00	150.0	± 9.6 %
		Υ	5.41	67.51	16.53		150.0	"
		Z	5.50	67.58	16.57	•	100.0	

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	5.52	67.76	16.75	0.00	150.0	± 9.6 %
		Υ	5.42	67.48	16.51		150.0	
		Z	5.52	67.60	16.57		150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	Х	4.36	70.60	18.31	0.00	150.0	± 9.6 %
		Υ	4.25	70.46	18.04		150.0	-
		Z	4.30	69.92	17.90		150.0	-
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.41	67.63	16.57	0.00	150.0	± 9.6 %
		Y	4.27	67.23	16.20		150.0	
12.22		Z	4.40	67.32	16.32		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	Х	4.69	67.49	16.59	0.00	150.0	± 9.6 %
		<u> </u>	4.57	67.13	16.26		150.0	
40400	LITE EDD (OFDIA OO HILL E TIMO I)	Z	4.69	67.23	16.36		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	×	4.93	67.47	16.63	0.00	150.0	± 9.6 %
		Y	4.81	67.14	16.34		150.0	
40.40.4	W ODIM (DO T. (1) 11 (Of DE C)	Z	4.93	67.25	16.42		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.46	71.39	18.32	0.00	150.0	± 9.6 %
		Y	4.33	71.22	18.00		150.0	
40405	1 TE TOO (00 FD) 4 C DD 00 M	Z	4.37	70.56	17.87	0.00	150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	120.84	30.99	3.23	80.0	± 9.6 %
		Y	100.00	119.33	29.98		80.0	
40447	1.75 500 (050)14 5101 5 7110 4	Z	100.00	119.70	30.61		80.0	0.004
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.73	67.79	16.13	0.00	150.0	± 9.6 %
		Υ	3.56	67.19	15.56		150.0	
		Z	3.71	67.33	15.83		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	×	4.23	67.40	16.43	0.00	150.0	± 9.6 %
		Y	4.10	67.00	16.05		150.0	
		Z	4.22	67.08	16.17		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.48	67.31	16.49	0.00	150.0	± 9.6 %
		Y	4.36	66.95	16.15		150.0	
		Z	4.47	67.05	16.25		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	×	4.66	67.23	16.49	0.00	150.0	± 9.6 %
		Y	4.55	66.88	16.18		150.0	
		Z	4.65	66.99	16.27		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.67	68.12	15.89	0.00	150.0	± 9.6 %
		Y	3.46	67.39	15.22		150.0	
40.450		Z	3.64	67.60	15.59	0.00	150.0	4000
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.35	68,33	16.90	0.00	150.0	±9.6%
		Y	6.27	68.07	16.69		150.0	
40457	LIMTO EDD (DO LIODDA)	Z	6.34	68.18	16.74	0.00	150.0	1000
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.86	65.63	16.22	0.00	150.0	± 9.6 %
		Y	3.78	65.32	15.90		150.0	
10458-	CDMA2000 (1xEV-DO, Rev. B, 2	Z X	3.84 4.07	65.41 70.58	15.99 17.80	0.00	150.0 150.0	± 9.6 %
AAA	carriers)	Y	3.95	70.20	17.20		150.0	
				70.36	17.39		150.0	
10459-	CDMA2000 (1xEV-DO, Rev. B, 3	Z	3.97 5.15	69.62 67.87	17.31 18.11	0.00	150.0 150.0	± 9.6 %
AAA	carriers)					0.00		± 9.0 %
		Y	5.07	67.97	18.01	<u> </u>	150.0	ļ
		<u> Z</u>	5.11	67.33	17.80	ļ	150.0	1

10460- AAA	UMTS-FDD (WCDMA, AMR)	X	1.14	73.10	18.91	0.00	150.0	± 9.6 %
		Y	0.84	67.69	15.51		150.0	
		Z	0.93	68.92	16.40		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	124.42	32.70	3.29	80.0	± 9.6 %
		<u> </u>	100.00	122.81	31.66		80.0	
40.100		Z	100.00	122.33	31.90		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.52	26.05	3.23	80.0	± 9.6 %
		Y	100.00	107.73	24.50		80.0	
40400		Z	100.00	109.56	25.78		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	107.72	24.70	3.23	80.0	± 9.6 %
		Y	16.53	86.46	18.64		80.0	
10404	LTC TDD (CC EDIM A DD	Z	57.16	100.91	23.16		80.0	
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	122.66	31.73	3.23	80.0	± 9.6 %
		Y	100.00	120.75	30.55		80.0	
40405	LTC TDD (00 FDV)	Z	100.00	120.64	30.98		80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.07	25.82	3.23	80.0	±9.6 %
		Y	63.13	102.33	23.15		80.0	
10400	1 TE TOD (OO EDIM A DE CAME	Z	100.00	109.15	25.57		80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	107.29	24.49	3.23	80.0	± 9.6 %
		Υ	9.87	80.97	16.99		80.0	
40407		Z	32.16	94.29	21.45		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	122.86	31.82	3.23	80.0	± 9.6 %
		Y	100.00	120.96	30.65		80.0	
40400		Z	100.00	120.82	31.06		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	110.21	25.89	3.23	80.0	± 9.6 %
_ 		Υ	85.23	105.68	23.94		80.0	
40400	175 700 (00 50 10 10 10 10 10 10 10 10 10 10 10 10 10	Z	100.00	109.27	25.63		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	107.30	24.49	3.23	80.0	±9.6 %
		Υ	10.04	81.16	17.05		80.0	
40470		Z	33.09	94.61	21.52		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	122.89	31.83	3.23	80.0	± 9.6 %
		Υ	100.00	120.98	30.65		80.0	
40474	1.75 752 (6.8 75.4)	Z	100.00	120.85	31.06		80.0	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.17	25.86	3.23	80.0	± 9.6 %
		Y	84.36	105.52	23.89		80.0	
10470	LITE TOP (OO FPM: 1 55 12 12	Ζ	100.00	109.23	25.61		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	107.26	24.47	3.23	80.0	± 9.6 %
		Υ	9.96	81.06	17.00		80.0	
40470	LTE TOP (00 ==:::	Z	33.22	94.62	21.52		80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	122.86	31.82	3.23	80.0	± 9.6 %
		Y	100.00	120.95	30.64		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Z X	100.00 100.00	120.82 110.18	31.05 25.87	3.23	80.0 80.0	± 9.6 %
, , , , ,	37 mi, OL Gubilanie-2,3,4,7,0,9)		00.00	40= ==	0			
		Y	82.22	105.25	23.83		80.0	
10475-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-	_Z	100.00	109.24	25.61		80.0	
AAC	QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	107.27	24.47	3.23	80.0	± 9.6 %
		Y	9.84	80.95	16.97		80.0	
		Ζ	32.70	94.46	21.48		80.0	

ES3DV3- SN:3131 March 13, 2018

10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.03	25.79	3.23	80.0	± 9.6 %
		Y	66.19	102.79	23.23		80.0	
		Z	100.00	109.11	25.54		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	107.22	24.45	3.23	80.0	± 9.6 %
		Y	9.68	80.75	16.90		80.0	
		Z	32.14	94.24	21.41		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	19.06	98.69	27.56	3.23	80.0	± 9.6 %
		Y	17.48	96.78	26.48		80.0	ļ
40400	LITE TOD (OO FDAM FOR OD 4 AMILE	Z	12.38	91.03	25.23	0.00	80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	19.47	93.39	24.37	3.23	80.0	± 9.6 %
		Y Z	16.19	90.11	22.82		80.0	
40404	LITE TOD (CC FDMA 500/ DD 4 4 MHz		13.49	87.60	22.69	2.22	80.0	+06%
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	16.31	90.04	23.04	3.23	80.0	± 9.6 %
		Y	12.85	86.16	21.27		80.0	
10400	LITE TOD (SO EDMA #00/ DD 0 MI)	Z	11.99	85.24	21.64	0.00	80.0	1000
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.88	83.55	21.62	2.23	80.0	± 9.6 %
		Y	5.63	78.46	19.33		80.0	
40.400	LIE IDD (CC CDMA COS DD CAR)	Z	5.79	78.37	19.74	0.00	80.0	J. O C 0/
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	10.35	84.31	21.72	2.23	80.0	± 9.6 %
		Y	8.62	81.30	20.16		80.0	
10101	LTE TOD (OO FDAM SON DD O MIL	Z	8.63	81.26	20.79	0.00	80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	9.40	82.69	21.19	2.23	80.0	± 9.6 %
		Y	7.82	79.73	19.63		80.0	
		Z	8.11	80.14	20.41		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.65	83.49	22.32	2.23	80.0	± 9.6 %
		Υ	5.92	79.52	20.52		80.0	
		Z	6.00	78.96	20.56		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.45	75.29	19.04	2.23	80.0	± 9.6 %
		Y	4.69	73.13	17.78		80.0	
		Z	4.90	73.13	18.12		80.0	0.0.41
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	5.34	74.66	18.79	2.23	80.0	± 9.6 %
		Y	4.63	72.60	17.57		80.0	
		Z	4.87	72.70	17.95	0.00	80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.80	80.27	21.67	2.23	80.0	± 9.6 %
		Y	5.68	77.52	20.38		80.0	
40400	1 TE TOD (00 EDITA 50% DD 40.1%)	Z	5.92	77.32	20.36		80.0	1000
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.22	73.60	19.31	2.23	80.0	± 9.6 %
		Y	4.74	72.23	18.49		80.0	
40400	LITE TOD (OO EDIM FOO) DD (O.C.)	Z	4.95	72.22	18.59	0.00	80.0	1000
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.25	73.15	19.15	2.23	80.0	± 9.6 %
		Y	4.79	71.90	18.38		80.0	
10491-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	Z X	5.01 6.15	71.88 76.70	18.48 20.45	2.23	80.0 80.0	± 9.6 %
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	Y	5.42	74.81	19.51		80.0	1
		Z	5.68	74.81	19.51	1	80.0	
10492-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	X	5.32	72.07	18.92	2.23	80.0	± 9.6 %
10492- AAC	16-QAM, UL Subframe=2,3,4,7,8,9)	<u> </u>				2.23		± 3.0 %
		Y	4.93	71.02	18.28		80.0	
		Z	5.17	71.12	18.37		80.0	<u> </u>

10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.36	71.80	18.83	2.23	80.0	± 9.6 %
		Υ	4.98	70.81	18.21	1	80.0	
		Z	5.22	70.91	18.31		80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.04	78.97	21.11	2.23	80.0	± 9.6 %
		Y	6.06	76.67	20.03		80.0	
		Z	6.34	76.66	20.02		80.0	" "
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.45	72.70	19.17	2.23	80.0	± 9.6 %
		Y	5.02	71.55	18.50		80.0	
10100		Z	5.27	71.70	18.59		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.44	72.17	19.00	2.23	80.0	± 9.6 %
		Υ	5.06	71.13	18.38		80.0	
		Z	5.30	71.27	18.46		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.31	79.98	19.68	2.23	80.0	± 9.6 %
		Υ	4.14	73.96	16.85		80.0	
15.15		Z	4.73	75.49	18.07		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.04	71.02	15.41	2.23	80.0	± 9.6 %
		Υ	2.86	66.62	12.92		80.0	
		Z	3.69	69.48	14.89		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.89	70.20	14.95	2.23	80.0	± 9.6 %
		Y	2.76	65.93	12.48		80.0	
		Z	3.63	68.95	14.55		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.92	81.34	21.80	2.23	80.0	± 9.6 %
		Υ	5.62	78.13	20.28		80.0	
		Ζ	5.76	77.71	20.29		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.31	74.43	19.07	2.23	80.0	± 9.6 %
		Υ	4.70	72.70	18.03		80.0	
		Z	4.91	72.63	18.25		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.32	74.08	18.88	2.23	80.0	± 9.6 %
		Υ	4.73	72.42	17.87		80.0	
		Ζ	4.94	72.37	18.11		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.70	80.04	21.57	2.23	80.0	± 9.6 %
		Υ	5.60	77.28	20.28		80.0	
10504	LTE TOD (00 ED)	Z	5.85	77.13	20.28		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.20	73.52	19.26	2.23	80.0	± 9.6 %
		Υ	4.71	72.13	18.43		80.0	
40505	LTE TOP (OO FOLK)	Z	4.94	72.15	18.55		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.22	73.06	19.10	2.23	80.0	± 9.6 %
		<u>Y</u>	4.76	71.80	18.33		80.0	
10506	LITE TOD (CO FDM) (COS)	Z	4.99	71.80	18.44		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.98	78.81	21.04	2.23	80.0	± 9.6 %
		Y	6.00	76.50	19.96		80.0	
10507-	LTE TOD (SC EDMA 4000) DD 40	Z	6.29	76.52	19.96		80.0	
AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.42	72.64	19.14	2.23	80.0	± 9.6 %
		11					!	
		Υ	5.00	71.48	18.47		80.0	

ES3DV3-- SN:3131 March 13, 2018

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.43	72.11	18.96	2.23	0,08	± 9.6 %
-		Y	5.04	71.06	18.33		80.0	
		Z	5.29	71.21	18.42		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.59	75.82	19.92	2.23	80.0	± 9.6 %
		Υ	5.92	74.23	19.13		0.08	
		Z	6.19	74.33	19.14		0.08	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.78	71.79	18.85	2.23	80.0	± 9.6 %
		Υ	5.41	70.84	18.30		80.0	
10=11	1	Z	5.67	71.07	18.39	0.00	80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.77	71.37	18.73	2.23	80.0	± 9.6 %
		Y	5.43	70.49	18.21		80.0	
		Z	5.68	70.71	18.30		80.0	
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.41	78.38	20.72	2.23	80.0	± 9.6 %
	1	Y	6.46	76.27	19.74		80.0	
		Z	6.76	76.38	19.76	0.00	80.0	
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.76	72.39	19.08	2.23	80.0	± 9.6 %
		Y	5.35	71.31	18.47		80.0	
		Z	5.62	71.59	18.57		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.67	71.73	18.87	2.23	80.0	± 9.6 %
		Υ	5.31	70.75	18.31		80.0	
		Z	5.56	71.01	18.41		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	1.00	64.33	15.70	0.00	150.0	± 9.6 %
		Y	0.92	62.97	14.40		150.0	
		Z	0.96	63.35	14.76		150.0	0.00/
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	1.25	85.06	24.06	0.00	150.0	± 9.6 %
		Y	0.55	69.91	16.29		150.0	
40547	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Z	0.66 0.90	72.54	17.95 17.08	0.00	150.0 150.0	± 9.6 %
10517- AAA	Mbps, 99pc duty cycle)			67.58		0.00		I 9.0 %
		Z	0.77 0.82	64.81 65.55	14.88 15.48		150.0 150.0	
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.67	67.09	16.46	0.00	150.0	± 9.6 %
		Υ	4.56	66.77	16.16		150.0	
		Z	4.66	66.85	16.24		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	Х	4.88	67.37	16.60	0.00	150.0	± 9.6 %
		Υ	4.76	67.04	16.30		150.0	
		Z	4.88	67.15	16.39		150.0	1000
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.73	67.36 67.00	16.53	0.00	150.0	± 9.6 %
		Z	4.61 4.73	67.00	16.22 16.31		150.0 150.0	
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.66	67.37	16.52	0.00	150.0	± 9.6 %
		Y	4.54	67.00	16.20		150.0	
		Z	4.66	67.14	16.29		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	Х	4.71	67.36	16.56	0.00	150.0	± 9.6 %
		Υ	4.60	67.04	16.27		150.0	
		Z	4.70	67.10	16.32		150.0	

10523- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.58	67.25	16.42	0.00	150.0	± 9.6 %
		Y	4.47	66.91	16.11	T	150.0	
		Z	4.57	67.00	16.18		150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.66	67.32	16.55	0.00	150.0	± 9.6 %
		<u> </u>	4.55	66.98	16.24		150.0	
10525-	IEEE 000 44 - MEET (OOM III - MOOO	Z	4.66	67.06	16.31		150.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.62	66.34	16.13	0.00	150.0	± 9.6 %
		Z	4.52 4.61	66.00	15.83	-	150.0	
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.82	66.08 66.75	15.89 16.28	0.00	150.0 150.0	± 9.6 %
		Y	4.70	66.39	15.97	<u> </u>	150.0	
4.55-		Z	4.81	66.49	16.04		150.0	
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.74	66.72	16.23	0.00	150.0	± 9.6 %
		Y	4.62	66.35	15.92		150.0	
10528-	IEEE 900 44c - WEE 7004 III - 11000	Z	4.73	66.47	16.00		150.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.76	66.74	16.26	0.00	150.0	± 9.6 %
		Y	4.64	66.37	15.95		150.0	
10529-	IEEE 802.11ac WiFi (20MHz, MCS4,	Z	4.75	66.49	16.03		150.0	
AAB	99pc duty cycle)	X	4.76	66.74	16.26	0.00	150.0	± 9.6 %
		Y	4.64	66.37	15.95		150.0	
10531-	IEEE 802.11ac WiFi (20MHz, MCS6,	Z	4.75	66.49	16.03		150.0	
AAB	99pc duty cycle)		4.77	66.89	16.29	0.00	150.0	± 9.6 %
		Y	4.64	66.50	15.97	<u> </u>	150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.76 4.62	66.64 66.76	16.06 16.24	0.00	150.0 150.0	± 9.6 %
		Y	4.49	66.35	15.90		150.0	
		Z	4.61	66.51	16.00		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	Х	4.77	66.77	16.24	0.00	150.0	± 9.6 %
		Υ	4.65	66.41	15.93		150.0	
40504		Z	4.76	66.51	16.01	f	150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	Х	5.27	66.85	16,29	0.00	150.0	± 9.6 %
		Υ	5.17	66.53	16.03		150.0	
10535-	IEEE 802.11ac WiFi (40MHz, MCS1,	Z	5.26	66.66	16.09		150.0	
AAB	99pc duty cycle)	Х	5.34	67.00	16.35	0.00	150.0	± 9.6 %
		Y Z	5.24 5.33	66.69	16.10		150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.33	66.80 66.99	16.14 16.33	0.00	150.0 150.0	± 9.6 %
		Υ	5.10	66.65	16.06	<u> </u>	150.0	
		Ż	5.20	66.79	16.12		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	×	5.28	66.96	16.32	0.00	150.0	± 9.6 %
		Y	5.16	66.63	16.05		150.0	
		Ζ	5.27	66.77	16.11	·····	150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	Х	5.39	67.03	16.39	0.00	150.0	± 9.6 %
		Υ	5.27	66.68	16.12		150.0	
10540	IEEE 000 44 14851 1155	Z	5.38	66.84	16.19		150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	Х	5.29	66.98	16.38	0.00	150.0	± 9.6 %
		Υ	5.18	66.66	16.12		150.0	
		Z	5.28	66.78	16.18		150.0	

10541- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.27	66.87	16.32	0.00	150.0	± 9.6 %
_	(Y	5.16	66.53	16.05		150.0	
		Ż	5.26	66.70	16.13		150.0	
10542- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.42	66.92	16.36	0.00	150.0	± 9.6 %
		Y	5.32	66.61	16.11		150.0	
		Z	5.41	66.73	16.16		150.0	
10543- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	Х	5.50	66.93	16.38	0.00	150.0	± 9.6 %
		Υ	5.40	66.65	16.14		150.0	
		Z	5.50	66.75	16.19		150.0	
10544- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.56	66.94	16.26	0.00	150.0	± 9.6 %
		Y	5.46	66.64	16.02		150.0	
		Z	5.54	66.77	16.07		150.0	
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	Х	5.77	67.38	16.42	0.00	150.0	±9.6 %
		Y	5.68	67.09	16.19		150.0	
10515	LEEE BOO ALL MARK AND	Z	5.75	67.17	16.22		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	Х	5.65	67.23	16.37	0.00	150.0	± 9.6 %
		Y	5.55	66.90	16.11		150.0	
105.17	1555 000 (4 1455) (0011) 14000	Z	5.64	67.06	16.18		150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	Х	5.74	67.31	16.40	0.00	150.0	± 9.6 %
		Υ	5.64	66.98	16.14		150.0	
		Z	5.73	67.13	16.20		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	6.08	68.50	16.96	0.00	150.0	± 9.6 %
****		Υ	5.97	68.15	16.69	·	150.0	
		Z	6.05	68.25	16.74		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.67	67.18	16.35	0.00	150.0	± 9.6 %
		Y	5.57	66.87	16.11		150.0	
		Z	5.66	67.00	16.16		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	Х	5.69	67.26	16.35	0.00	150.0	±9.6%
		Υ	5.57	66.92	16.09		150.0	
		Z	5.68	67.11	16.17		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	Х	5.58	67.02	16.25	0.00	150.0	± 9.6 %
		Y	5.48	66.70	15.99		150.0	
		Z	5.57	66.86	16.07		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.68	67.07	16.30	0.00	150.0	±9.6%
		Y	5.57	66.76	16.05		150.0	
		Z	5.67	66.91	16.12		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.96	67.32	16.35	0.00	150.0	± 9.6 %
		Y	5.87	67.02	16.12		150.0	
70	1,555	Z	5.94	67.15	16.17		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Х	6.11	67.66	16.49	0.00	150.0	± 9.6 %
		Y	6.01	67.35	16.26		150.0	
10556-	IEEE 802.11ac WiFi (160MHz, MCS2,	Z X	6.09 6.12	67.50 67.68	16.32 16.50	0.00	150.0 150.0	±9.6 %
AAC	99pc duty cycle)	+	6.00	67.00	10.07		450.0	
		Y	6.03	67.38	16.27		150.0	
40557	IEEE 902 44 to MEE: (400MU = MOC2	Z	6.10	67.50	16.31	0.00	150.0	1000
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	Х	6.11	67.63	16.50	0.00	150.0	± 9.6 %
		Y	6.00	67.31	16.25		150.0	
		Z	6.09	67.48	16.33	L	150.0	

10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	Х	6.17	67.83	16.61	0.00	150.0	± 9.6 %
		Y	6.06	67.49	16.36		150.0	
		Z	6.15	67.68	16.44		150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	Х	6.15	67.64	16.56	0.00	150.0	± 9.6 %
		Y	6.05	67.32	16.31	""	150.0	
		Z	6.14	67.50	16.39		150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	Х	6.07	67.61	16.58	0.00	150.0	± 9.6 %
		Y	5.97	67.29	16.33		150.0	
40500		Z	6.05	67.46	16.41		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	Х	6.24	68.12	16.84	0.00	150.0	± 9.6 %
		Y	6.12	67.76	16.57		150.0	
40500	1=== 000 44	Z	6.22	67.97	16.66		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	Х	6.59	68.70	17.07	0.00	150.0	± 9.6 %
		Υ	6.50	68.45	16.86		150.0	
4055		Z	6.52	68.39	16.82		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	Х	5.01	67.21	16.65	0.46	150.0	± 9.6 %
		Y	4.90	66.90	16.36		150.0	
		Z	5.00	67.01	16.45		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	Х	5.26	67.68	16.95	0.46	150.0	± 9.6 %
		Y	5.15	67.37	16.68	i	150.0	
		Z	5.27	67.49	16.76		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Х	5.10	67.56	16.80	0.46	150.0	± 9.6 %
		Υ	4.98	67.23	16.50		150.0	
		Z	5.10	67.37	16.60		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	Х	5.12	67.92	17.12	0.46	150.0	± 9.6 %
		Υ	5.00	67.60	16.84		150.0	
		Z	5.12	67.71	16.91		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	Х	5.01	67.34	16.58	0.46	150.0	± 9.6 %
,		Υ	4.90	67.01	16.28		150.0	
		Z	5.01	67.12	16.37		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	Х	5.06	67.94	17.14	0.46	150.0	± 9.6 %
		Υ	4.95	67.66	16.89		150.0	
		Z	5.06	67.72	16.92		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	Х	5.11	67.80	17.09	0.46	150.0	± 9.6 %
		Υ	4.99	67.52	16.83		150.0	
		Z	5.10	67.57	16.87		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	1.42	67.47	17,33	0.46	130.0	± 9.6 %
		Υ	1.29	65.81	16.00		130.0	
40570		Z	1.36	66.32	16.37		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.45	68.27	17.77	0.46	130.0	± 9.6 %
		Υ	1.31	66.47	16.37		130.0	
10555		Z	1.39	66.98	16.74		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	Х	100.00	147.00	39.19	0.46	130.0	± 9.6 %
		Υ	4.99	95.51	25.16		130.0	
		Z	7.12	101.14	27.21		130.0	
10574- 4AA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	Х	1.99	77.81	22.04	0.46	130.0	± 9.6 %
<u>AAA</u>	Minha, anho data cacie)							
AAA	mops, sope daty cycle)	Y	1.59	73.42	19.55		130.0	

ES3DV3-- SN:3131

10575- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 90pc duty cycle)	X	4.83	67.10	16.76	0.46	130.0	± 9.6 %
" ,		Y	4.72	66.80	16.47		130.0	
		Z	4.83	66.89	16.55		130.0	
10576- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	Х	4.85	67.25	16.81	0.46	130.0	± 9.6 %
		Υ	4.75	66.95	16.53		130.0	
		Z	4.85	67.04	16.60		130.0	
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	Х	5.08	67.57	16.98	0.46	130.0	± 9.6 %
		Y	4.96	67.26	16.71		130.0	
		Z	5.09	67.37	16.79		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	Х	4.98	67.73	17.08	0.46	130.0	± 9.6 %
		Υ	4.86	67.43	16.80		130.0	
		Z	4.98	67.53	16.87		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	Х	4.76	67.16	16.49	0.46	130.0	± 9.6 %
		Υ	4.64	66.77	16.15		130.0	
		Z	4.77	66.97	16.29		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	Х	4.81	67,14	16.49	0.46	130.0	± 9.6 %
		Υ	4.68	66.77	16.16		130.0	
		Z	4.81	66.93	16.28		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	Х	4.88	67.83	17.04	0.46	130.0	± 9.6 %
		Υ	4.76	67.49	16.75		130.0	
		Z	4.89	67.61	16.83		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	Х	4.72	66.93	16.30	0.46	130.0	± 9.6 %
		Y	4.58	66.53	15.94		130.0	
		Z	4.73	66.74	16.10		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.83	67.10	16.76	0.46	130.0	± 9.6 %
		Y	4.72	66.80	16.47		130.0	
		Z	4.83	66.89	16.55		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	Х	4.85	67.25	16.81	0.46	130.0	± 9.6 %
		Υ	4.75	66.95	16.53		130.0	
		Z	4.85	67.04	16.60		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	5.08	67.57	16.98	0.46	130.0	± 9.6 %
		Y	4.96	67.26	16.71		130.0	
		Z	5.09	67.37	16.79		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.98	67.73	17.08	0.46	130.0	± 9.6 %
		Υ	4.86	67.43	16.80		130.0	
		Z	4.98	67.53	16.87		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	Х	4.76	67.16	16.49	0.46	130.0	± 9.6 %
		Υ	4.64	66.77	16.15		130.0	
		Z	4.77	66.97	16.29		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	Х	4.81	67.14	16.49	0.46	130.0	± 9.6 %
		Υ	4.68	66.77	16.16		130.0	
		Ζ	4.81	66.93	16.28		130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	Х	4.88	67.83	17.04	0.46	130.0	± 9.6 %
		Υ	4.76	67.49	16.75		130.0	
		Z	4.89	67.61	16.83		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.72	66.93	16.30	0.46	130.0	± 9.6 %
		Υ	4.58	66.53	15.94		130.0	
		Z	4.73	66.74	16.10		130.0	

10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	Х	4.97	67.13	16.83	0.46	130.0	± 9.6 %
		Y	4.87	66.85	16.56		130.0	
10592-	IEEE 802.11n (HT Mixed, 20MHz,	Z	4.97	66.94	16.64		130.0	
AAB	MCS1, 90pc duty cycle)	X	5.15	67.48	16.96	0.46	130.0	± 9.6 %
		_ Y	5.03	67.19	16.69		130.0	
10500	IEEE 000 44 (UEVA	Z	5.15	67.28	16.76		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	5.08	67.44	16.87	0.46	130.0	± 9.6 %
·		Y	4.96	67.12	16.59		130.0	
10594-	IEEE 200 44 - (LITAN - LOOMIL	<u>Z</u>	5.08	67,25	16.68		130.0	
AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	5.13	67.57	17.00	0.46	130.0	± 9.6 %
		Y	5.01	67.28	16.73		130.0	
10595-	ICEE 000 44 /UTLE 1 001 III	Z	5.13	67.38	16.80		130.0	
AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	5.10	67.55	16.91	0.46	130.0	± 9.6 %
		Y	4.98	67.24	16.63		130.0	
10500	IEEE 000 44: (IEEE	Z	5.11	67.36	16.72		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	5.04	67.57	16.93	0.46	130.0	± 9.6 %
		Y	4.92	67.24	16.64		130.0	
10597-	IFFE DOO 44 - ATT LE L. COSTIL	Z	5.05	67.36	16.72		130.0	
AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	Х	4.99	67.50	16.83	0.46	130.0	± 9.6 %
		Y	4.87	67.16	16.53		130.0	
10598-	IEEE 000 44 × (IEEM) 1 000 HI	Z	5.00	67.31	16.63		130.0	
AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.97	67.73	17.08	0.46	130.0	± 9.6 %
		Y	4.85	67.40	16.79		130.0	
40500		Z	4.98	67.54	16.88		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	Х	5.64	67.71	17.02	0.46	130.0	± 9.6 %
		Y	5.54	67.42	16.77		130.0	
40000	1	Z	5.64	67.54	16.83		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.84	68.32	17.30	0.46	130.0	± 9.6 %
		Υ	5.74	68.02	17.05		130.0	
		Z	5.86	68.21	17.15		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	Х	5.70	67.95	17.13	0.46	130.0	± 9.6 %
		Y	5.59	67.66	16.88		130.0	
		Z	5.70	67.81	16.95		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	Х	5.78	67.96	17.05	0.46	130.0	± 9.6 %
		Y	5.68	67.66	16.80		130.0	<u> </u>
10000		Z	5.80	67.83	16.89		130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	Х	5.86	68.23	17.31	0.46	130.0	± 9.6 %
		Y	5.76	67.95	17.07		130.0	
40001		Z	5.90	68.18	17.18		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	Х	5.64	67.67	17.02	0.46	130.0	± 9.6 %
		Y	5.54	67.38	16.78		130.0	<u>.</u>
40005		Z	5.65	67.52	16.85		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	Х	5.76	68.00	17.19	0.46	130.0	± 9.6 %
		Υ	5.67	67.75	16.97		130.0	
40000		Z	5.76	67.83	17.01		130.0	
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.53	67.46	16.79	0.46	130.0	± 9.6 %
V (D		1 32						
		Υ	5.42	67.14	16.52	l	130.0	

10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.81	66.43	16.45	0.46	130.0	± 9.6 %
		Y	4.70	66.13	16.17		130.0	
		Ż	4.80	66.21	16.23		130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	5.02	66.87	16.61	0.46	130.0	± 9.6 %
		Y	4.90	66.55	16.33		130.0	
		Z	5.02	66.64	16.39		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	Х	4.91	66.76	16.48	0.46	130.0	± 9.6 %
		Υ	4.79	66.41	16.18		130.0	
10010	1555 000 11 1155 1001 11 1150	Z	4.91	66.53	16.26		130.0	
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.96	66.90	16.63	0.46	130.0	± 9.6 %
		Y	4.84	66.57	16.34		130.0	
40044	IEEE 000 44 - MIEI (OOMI I- MOOA	Z	4.96	66.68	16.41	0.40	130.0	
10611- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.88	66.74	16.50	0.46	130.0	± 9.6 %
		Y	4.76	66.39	16.20		130.0	
40040		Z	4.89	66.53	16.29	0.40	130.0	
10612- AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.90	66.91	16.55	0.46	130.0	±9.6 %
		Y	4.77	66.55	16.24		130.0	
10010	IEEE 900 44 c - MUM (OOF II) A COC	Z	4.90	66.68	16.33	0.15	130.0	
10613- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.92	66.84	16.46	0.46	130.0	± 9.6 %
• 11111		Y	4.78	66.46	16.14		130.0	
10011	IEEE 000 44 MEE! (OOM) II. MOOZ	Z	4.92	66.62	16.24	0.40	130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	Х	4.84	66.99	16.66	0.46	130.0	± 9.6 %
		Y	4.72	66.63	16.36		130.0	
10045		Z	4.84	66.77	16.44	- 1-	130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.89	66.58	16.29	0.46	130.0	± 9.6 %
		Y	4.76	66.22	15.98		130.0	
10010	1777 200 11 11177 (1011)	Z	4.89	66.36	16.08		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.46	66.96	16.62	0.46	130.0	± 9.6 %
		Υ	5.35	66.66	16.37		130.0	
		Z	5.45	66.78	16.43		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.51	67.06	16.64	0.46	130.0	± 9.6 %
		Y	5.42	66.80	16.41		130.0	
100/2		Z	5.51	66.89	16.45		130.0	ļ
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.41	67.14	16.70	0.46	130.0	± 9.6 %
		Y	5.31	66.84	16.45		130.0	
10015	1555 000 44 1155 1165 1165 1165	Z	5.41	66.96	16.50		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	Х	5.44	66.98	16.56	0.46	130.0	± 9.6 %
		Y	5.34	66.68	16.31		130.0	
10000		Z	5.43	66.79	16.36		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.55	67.07	16.65	0.46	130.0	± 9.6 %
		Y	5.44	66.75	16.39		130.0	
400-1		Z	5.55	66.91	16.47		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.52	67.10	16.77	0.46	130.0	± 9.6 %
		Y	5.41	66.81	16.54		130.0	
10555	\	Z	5.52	66.94	16.59		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.52	67.23	16.83	0.46	130.0	± 9.6 %
		Y	5.43	66.97	16.61		130.0	
		Z	5.52	67.05	16.64		130.0	

10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	Х	5.41	66.83	16.52	0.46	130.0	± 9.6 %
		Υ	5.30	66.50	16.26		130.0	
		Z	5.42	66.69	16.35		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.60	67.00	16.67	0.46	130.0	± 9.6 %
		Y	5.50	66.72	16.43		130.0	"
		Z	5.60	66.82	16.48		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	Х	6.04	68.15	17.29	0.46	130.0	± 9.6 %
		Y	5.94	67.90	17.06		130.0	
10000		Z	6.00	67.86	17.04		130.0	
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.71	66.97	16.54	0.46	130.0	± 9.6 %
		Y	5.63	66.69	16.31		130.0	
40007	IEEE 000 44 IANE: (00) III DOG	Z	5.70	66.81	16.36		130.0	
10627- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	Х	5.98	67.56	16.79	0.46	130.0	± 9.6 %
		Υ	5.90	67.32	16.58		130.0	
40000	IEEE 000 (4) WE WE WE	Z	5.96	67.36	16.59		130.0	
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.79	67.17	16.54	0.46	130.0	±9.6 %
		Y	5.68	66.85	16.29		130.0	
10000	155500011	Z	5.78	67.02	16.36		130.0	
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	Х	5.87	67.22	16.56	0.46	130.0	±9.6 %
		Υ	5.77	66.92	16.32		130.0	
		Z	5.87	67.09	16.39		130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.48	69.22	17.56	0.46	130.0	± 9.6 %
		Υ	6.36	68.86	17.28		130.0	
		Z	6.45	68.98	17.34		130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.29	68.75	17.49	0.46	130.0	± 9.6 %
<u>-</u> -		Υ	6.17	68.38	17.23		130.0	
		Z	6.29	68.57	17.31		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.94	67.58	16.93	0.46	130.0	± 9.6 %
		Y	5.85	67.33	16.73		130.0	
		Z	5.93	67.41	16.74		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	Х	5.87	67.37	16.67	0.46	130.0	± 9.6 %
		Υ	5.75	67.00	16.39		130.0	
		Z	5.88	67.29	16.52		130.0	
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.84	67.34	16.70	0.46	130.0	± 9.6 %
		Y	5.73	67.01	16.46		130.0	
10005	IEEE 000 44 MEET (001 W	Z	5.85	67.24	16.55		130.0	
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	Х	5.74	66.76	16.17	0.46	130.0	± 9.6 %
		Y	5.62	66.39	15.89		130.0	
40000	IEEE 000 //	Z	5.74	66.64	16.02		130.0	
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.13	67.36	16.63	0.46	130.0	± 9.6 %
		Y	6.05	67.09	16.42		130.0	
40007	LEEE OOD 44 AME	Z	6.11	67.20	16.46		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.30	67.76	16.81	0.46	130.0	± 9.6 %
		Y	6.21	67.50	16.60		130.0	
40000	IEEE 000 / /	Z	6.29	67.62	16.64		130.0	
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.30	67.73	16.78	0.46	130.0	± 9.6 %
		Y	6.21	67.47	16.56		130.0	
		Z					100.0	

10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.29	67.73	16.82	0.46	130.0	± 9.6 %
		TY	6.20	67.43	16.59		130.0	
		Ż	6.29	67.60	16.66		130.0	
10640- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.33	67.84	16.82	0.46	130.0	± 9.6 %
		Y	6.22	67.49	16.57		130.0	
		Z	6.32	67.71	16.67		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	Х	6.32	67.56	16.70	0.46	130.0	± 9.6 %
		Υ	6.23	67.29	16.48		130.0	
10010		Z	6.31	67.42	16.54		130.0	
10642- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.38	67.85	17.00	0.46	130.0	±9.6 %
		Y	6.28	67.57	16.79		130.0	
10010	IEEE 000 44 - WiE: (400M) MOOZ	Z	6.37	67.73	16.85		130.0	
10643- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.22	67.58	16.78	0.46	130.0	± 9.6 %
		Y	6.12	67.27	16.54		130.0	
10044	IEEE 000 44 a MEET (400) P. L. LOGO	Z	6.21	67.45	16.62		130.0	
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.45	68.30	17.16	0.46	130.0	± 9.6 %
		Y	6.33	67.92	16.89		130.0	
10645		<u>Z</u>	6.45	68.18	17.01		130.0	
10645- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.85	69.01	17.46	0.46	130.0	± 9.6 %
		Y	6.84	68.95	17.35		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Z	6.76 40.26	68.63 119.11	17.18 39.27	9.30	130.0 60.0	± 9.6 %
MAU	QF3K, OL Subitatile=2,7)	Y	36.93	117.62	38.61		60.0	
		Z	28.78	110.02	36.33		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	43.42	121.73	40.16	9.30	60.0 60.0	± 9.6 %
	at orgoz odbitanto 2,1)	Y	37.87	119.05	39.16		60.0	
		Ż	30.35	112.02	37.07		60.0	<u> </u>
10648- AAA	CDMA2000 (1x Advanced)	X	0.89	66.81	13.23	0.00	150.0	± 9.6 %
		Υ	0.67	63.28	10.48		150.0	
		Z	0.78	64.48	11.81		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	Х	4.61	69.53	17.90	2.23	80.0	± 9.6 %
	·	Υ	4.34	68.71	17.31		80.0	
		Z	4.53	68.80	17.47		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	Х	5.03	68.53	17.83	2.23	80.0	± 9.6 %
		Υ	4.81	67.89	17.37		80.0	
400=4	LITE TOD (OFFICE ASSESSMENT)	Z	4.99	68.09	17.51		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	Х	4.95	68.16	17.81	2.23	80.0	± 9.6 %
		Y	4.75	67.54	17.37		80.0	
40055	LITE TOD (OFDIA) COAM STATE	Z	4.92	67.77	17.50		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	5.01	68.19	17.85	2.23	80.0	± 9.6 %
		Y	4.81	67.55	17.41		80.0	
10055		Z	4.97	67.82	17.55		80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	Х	13.53	87.28	23.74	10.00	50.0	± 9.6 %
		Y	14.55	88.29	23.48		50.0	
40050	D b = 101 - 102	Z	11.52	84.09	22.80		50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	Х	60.38	110.77	29.03	6.99	60.0	± 9.6 %
		Υ	78.03	112.57	28.65		60.0	
		Z	23.63	96.55	25.31		60.0	

10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	116.42	28.34	3.98	80.0	± 9.6 %
		Y	100.00	113.13	26.55		80.0	
		Z	100.00	115.93	28.24		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	Х	100.00	118.32	27.69	2.22	100.0	± 9.6 %
		Υ	100.00	112.54	24.86		100.0	
		Z	100.00	116.38	26.92		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	Х	100.00	126.39	29.06	0.97	120.0	± 9.6 %
		Y	100.00	111.25	22.47	-	120.0	
		Z	100.00	119.29	26.16		120.0	

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

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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Accreditation No.: SCS 0108

Client

PC Test

Certificate No: ES3-3275_Apr18

C

CALIBRATION CERTIFICATE

Object

ES3DV3 - SN:3275

Calibration procedure(s)

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

Calibration date:

April 12, 2018

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-17)	In house check: Oct-18

Calibrated by:

Name

Function

Claudio Leubler

Laboratory Technician

Approved by:

Katja Pokovic

Technical Manager

Issued: April 14, 2018

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

Calibration Laboratory of

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





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Glossary:

TSL

tissue simulating liquid

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

DCP

diode compression point

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

Polarization φ

φ rotation around probe axis

Polarization 9

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

i.e., 9 = 0 is normal to probe axis

Connector Angle

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

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

Certificate No: ES3-3275_Apr18

Page 2 of 39

Probe ES3DV3

SN:3275

Manufactured: February 25, 2010

Calibrated:

April 12, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ²) ^A	1.30	1.12	1.19	± 10.1 %
DCP (mV) ^B	106.5	106.3	107.8	

Modulation Calibration Parameters

UID	Communication System Name		Α	В	C	D	VR	Unc
			dB	dB√μV		dB	mV	(k=2)
0	CW	X	0.0	0.0	1.0	0.00	211.6	±3.3 %
		Y	0.0	0.0	1.0		202.8	
		Z	0.0	0.0	1.0		212.4	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V⁻¹	T6
Х	47.39	333.3	34.06	27.31	1.692	5.10	0.785	0.383	1.01
Υ	60.06	422.6	34.22	29.68	3.227	5.10	1.009	0.485	1.01
Z	52.40	372.5	34.74	28.40	1.978	5.10	0.709	0.438	1.01

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 E^{2} -field uncertainty inside TSL (see Pages 5 and 6).

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

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	6.56	6.56	6.56	0.80	1.12	± 12.0 %
835	41.5	0.90	6.28	6.28	6.28	0.76	1.19	± 12.0 %
1750	40.1	1.37	5.52	5.52	5.52	0.80	1.19	± 12.0 %
1900	40.0	1.40	5.33	5.33	5.33	0.63	1.39	± 12.0 %
2300	39.5	1.67	5.02	5.02	5.02	0.80	1.25	± 12.0 %
2450	39.2	1.80	4.74	4.74	4.74	0.64	1.41	± 12.0 %
2600	39.0	1.96	4.58	4.58	4.58	0.72	1.37	± 12.0 %

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

F At frequencies below 3 GHz the validity of the second of the convF assessments.

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

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

Calibration Parameter Determined in Body Tissue Simulating Media

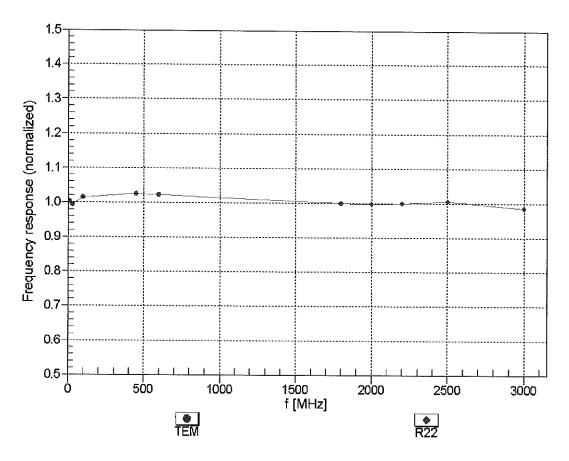
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	6.34	6.34	6.34	0.80	1.14	± 12.0 %
835	55.2	0.97	6.16	6.16	6.16	0.80	1.15	± 12.0 %
1750	53.4	1.49	5.08	5.08	5.08	0.62	1.38	± 12.0 %
1900	53.3	1.52	4.85	4.85	4.85	0.61	1.46	± 12.0 %
2300	52.9	1.81	4.66	4.66	4.66	0.80	1.38	± 12.0 %
2450	52.7	1.95	4.57	4.57	4.57	0.80	1.38	± 12.0 %
2600	52.5	2.16	4.47	4.47	4.47	0.80	1.30	± 12.0 %

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

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.

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)

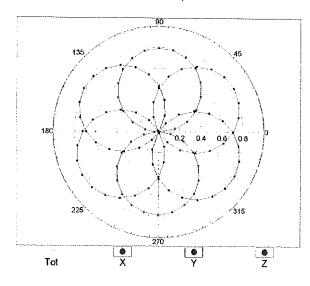


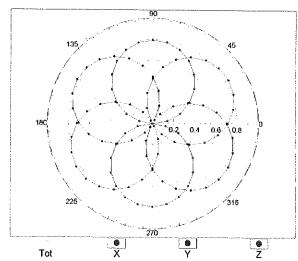
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

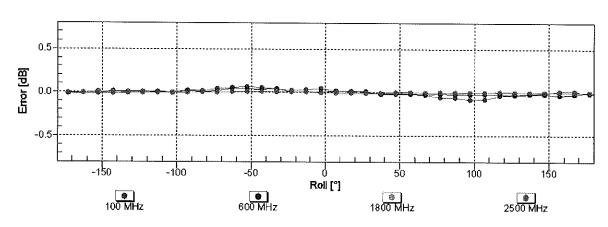
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

f=600 MHz,TEM

f=1800 MHz,R22

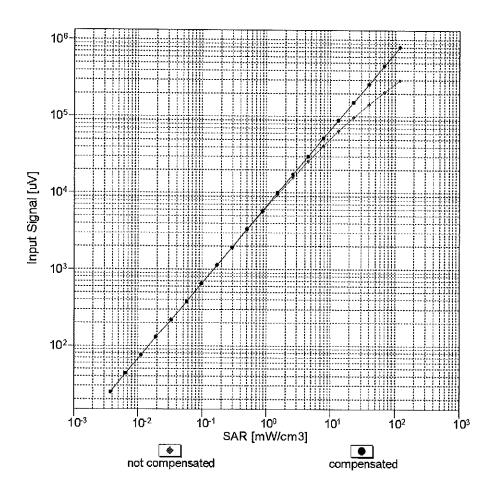


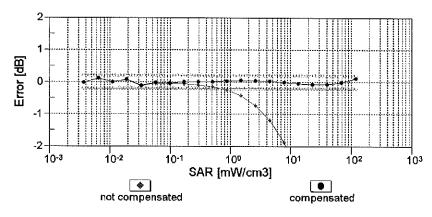




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

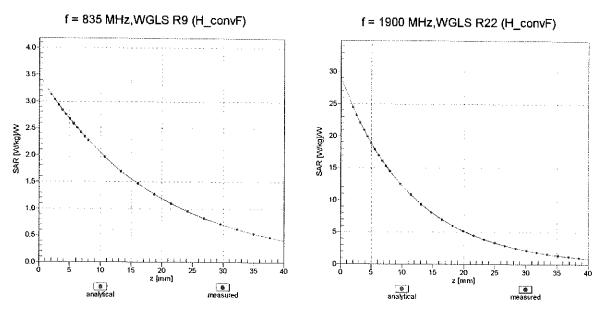
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



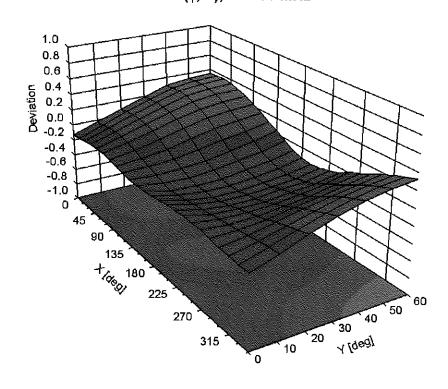


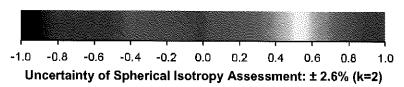
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



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





Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-2.8
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

Appendix: Modulation Calibration Parameters

ÜİD	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max Unc ^E (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	211.6	± 3.3 %
		Υ	0.00	0.00	1.00		202.8	
10010		Z	0.00	0.00	1.00		212.4	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	Х	8.10	79.10	17.81	10.00	25.0	± 9.6 %
		Υ	8.98	80.10	19.70		25.0	
		Z	8.37	79.48	18.27		25.0	
10011- CAB	UMTS-FDD (WCDMA)	×	0.88	65.06	13.38	0.00	150.0	± 9.6 %
		Y	1.07	67.99	15.47		150.0	
40040	1775 000 445 W/F: 0 4 OU - (DOOD 4	Z	0.93	65.71	13.90	0.44	150.0	1000
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	Х	1.21	64.06	14.74	0.41	150.0	± 9.6 %
··········		Y	1.31	65.35	15.86		150.0	
10013-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z X	1.23 4.96	64.32 67.12	15.05 17.13	1.46	150.0 150.0	± 9.6 %
CAB	OFDM, 6 Mbps)					1.46		£9.6%
		Y	5.16	67.34	17.40		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	5.03 100.00	67.12 119.32	17.22 31.53	9.39	150.0 50.0	± 9.6 %
		Υ	15.84	90.94	25.21		50.0	
		Z	61.29	112.41	30.22		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	Х	77.79	115.43	30.62	9.57	50.0	± 9.6 %
		Υ	14.80	89.62	24.82		50.0	
		Z	43.92	107.10	28.86		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	Х	100.00	115.73	28.71	6.56	60.0	±9.6%
		Y	58.69	111.44	29.41		60.0	
		Z	100.00	116.52	29.27		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	Х	17.13	105.61	40.29	12.57	50.0	± 9.6 %
		Y	18.87	104.10	39.34		50.0	
10000	FDOF FDD (TDMA BDC)(TN 0.4)	Z	17.63	105.48	40.14 36.55	0.56	50.0	1.06%
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	20.83	106.25		9.56	60.0	± 9.6 %
		Y	18.80 20.73	100.85	34.58		60.0	
10027-	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	105.43 114.30	36.25 27.22	4.80	60.0 80.0	± 9.6 %
DAC		Y	100.00	118.06	29.74		80.0	
		Z	100.00	115.07	27.73		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	113.86	26.28	3.55	100.0	± 9.6 %
<i></i>		Y	100.00	117.89	28.79		100.0	
		Ż	100.00	114.66	26.78		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	12.40	94.17	31.28	7.80	80.0	± 9.6 %
		Υ	13.55	93.90	31.08		80.0	
		Z	12.90	94.54	31.40		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	113.83	27.31	5.30	70.0	±9.6 %
		Y	100.00	117.88	30.01		70.0	
1-0		Z	100.00	114.71	27.89		70.0	L
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	111.82	23.95	1.88	100.0	±9.6 %
		Y	100.00	118.45	27.41		100.0	ļ
		Z	100.00	113.17	24.65	I .	100.0	

CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	112.20	23.12	1.17	100.0	± 9.6 %
U/ J/		Υ	100.00	121.81	27.68	-	100.0	
		Z	100.00	114,11	24.02	 	100.0	ļ
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	21.07	98.64	26.38	5.30	100.0 70.0	± 9.6 %
		Y	14.09	92.25	25.41		70.0	
		Z	20.45	98.58	26.72		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	5.23	81.12	19.05	1.88	100.0	± 9.6 %
		Υ	7.04	85.97	21.84		100.0	
		Z	5.81	82.96	20.11		100,0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Х	2.87	74.72	16.38	1.17	100.0	± 9.6 %
		Y	4.21	80.36	19.64		100.0	
40000	JEEG BOOME AND A MARKET BLOOM	Z	3.19	76.34	17.44		100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	28.09	103.31	27.76	5.30	70.0	±9.6 %
		Y	16.17	94.70	26,25		70.0	
10037-	IEEE 000 45 4 Dt (, /0 DDOK DUO)	Z	26.60	102.95	28.04		70.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	4.90	80.29	18.73	1.88	100.0	± 9.6 %
		Y	6.80	85.50	21.65		100.0	
10038-	IEEE 000 45 4 Division to 10 DDOM DIVE	Z	5.49	82.23	19.83		100.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Х	2.93	75.19	16.66	1.17	100.0	± 9.6 %
· · · · · · · · · · · · · · · · · · ·		Y	4.35	81.05	19.97		100.0	
10039-	CDMA2000 (1xRTT, RC1)	Z	3.27	76.90	17.74		100.0	
CAB	CDWA2000 (TXRTT, RC1)	Х	1.31	67.49	13.02	0.00	150.0	± 9.6 %
		Y	1.95	72.25	16.31		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	Z X	1.50 100.00	68.83 114.49	14.08 28.35	7.78	150.0 50.0	± 9.6 %
O/LD	DQF3K, Hamate)	Υ	27.19	00.00	05.00			
		Z	100.00	98.62	25.96		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	115.37 111.31	28.96 1.40	0.00	50.0 150.0	± 9.6 %
		Υ	0.00	103.37	3.11		150.0	
		Z	0.00	110.12	0.15		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	21.05	95.06	26.86	13.80	25.0	± 9.6 %
		Υ	10.74	81.59	23.78		25.0	
		Ζ	16.51	90.77	25.87	<u></u>	25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	Х	26,53	98.80	26.58	10.79	40.0	± 9.6 %
		Υ	12.09	85.40	23.77	V	40.0	
40050	LINTO TOD (TO COOK	Z	20.58	94.89	25.77		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	Х	17.62	93.32	25.83	9.03	50.0	± 9.6 %
		Y	12.02	85,58	24.15		50.0	
10058-	EDGE EDD (TDMA ODOM THE A CO.	Z	16.01	91.64	25.58		50.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	Х	8.71	87.03	27.93	6.55	100.0	± 9.6 %
		Y	10.25	88.69	28.50		100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	9.17 1.34	87.70 65.88	28.19 15.66	0.61	100.0 110.0	± 9.6 %
		Υ	1.51	67.63	16.95		110.0	
		z	1.38	66.26	16.01		110.0	
	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	X	29.91	111.02	27.96	1.30	110.0	± 9.6 %
10060- CAB		l	1	I	}		I	
	Mbps)	Y	100.00	129.73	33.11		110.0	

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	Х	7.26	90.44	24.60	2.04	110.0	± 9.6 %
O/UD	inipo)	Y	9.89	94.72	26.32		110.0	
		Z	8.15	92.24	25.31		110.0	· · · · · · · · · · · · · · · · · · ·
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.68	66.84	16.38	0.49	100.0	± 9.6 %
0, 10	Thopo,	ΙΥΙ	4.87	67.06	16.67		100.0	
		Z	4.75	66.85	16.49	w	100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.71	66.99	16.52	0.72	100.0	± 9.6 %
		Y	4.91	67.23	16.82	·,	100.0	***
		Z	4.79	67.01	16.62		100.0	
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.01	67.29	16.78	0.86	100.0	± 9.6 %
	·	Υ	5.25	67.57	17.09		100.0	
		Z	5.10	67.33	16.89		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	Х	4.92	67.31	16.94	1.21	100.0	± 9.6 %
		Υ	5.16	67.64	17.27		100.0	
		Z	5.01	67.35	17.06		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.97	67.44	17.17	1.46	100.0	± 9.6 %
		Y	5.23	67.79	17.51		100.0	
		Z	5.06	67.48	17.28		100.0	
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.30	67.71	17.69	2.04	100.0	± 9.6 %
		Y	5.56	67.97	17.98		100.0	
		Z	5.38	67.70	17.77	0.55	100.0	1000
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	Х	5.40	67.92	18.00	2.55	100.0	± 9.6 %
		Υ	5.72	68.38	18.38		100.0	
		Z	5.50	67.99	18.12		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	Х	5.48	67.95	18.21	2.67	100.0	± 9.6 %
		Υ	5.80	68.33	18.57		100.0	
		Z	5.58	67.97	18.31		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.10	67.35	17.51	1.99	100.0	± 9.6 %
		Υ	5.32	67.61	17.81		100.0	
		Z	5.17	67.35	17.60		100.0	<u> </u>
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	Х	5.14	67.84	17.82	2.30	100.0	± 9.6 %
		Y	5.41	68.22	18.15		100.0	
		Z	5.22	67.87	17.91		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.27	68.20	18.25	2.83	100.0	± 9.6 %
		Y	5.56	68.62	18.60		100.0	
		Z	5.35	68.21	18.34	0.00	100.0	10000
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.31	68.26	18.49	3.30	100.0	± 9.6 %
		<u>Y</u>	5.62	68.74	18.88		100.0	1
		Z	5.38	68,28	18.58		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	Х	5.42	68.63	18.93	3.82	90.0	± 9.6 %
		Y	5.80	69.31	19.42	 	90.0	-
10076-	IEEE 802.11g WiFi 2.4 GHz	Z X	5.51 5.46	68.69 68.51	19.05 19.11	4.15	90.0	± 9.6 %
CAB	(DSSS/OFDM, 48 Mbps)			00.44	40.55		90.0	-
		Y	5.82	69.14	19.55			
		Z	5.54	68.54	19.20	4 20	90.0	+060/
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.50	68.62	19,22	4.30	90.0	± 9.6 %
		Y	5.87	69.25	19.67		90.0	
		Z	5.58	68.63	19.31	1	90.0	

10081- CAB	CDMA2000 (1xRTT, RC3)	X	0.67	63.34	10.42	0.00	150.0	± 9.6 %
***************************************		Y	0.93	66.76	13.40		150.0	
		Z	0.75	64.19	11.31		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	Х	1.67	62.28	7.31	4.77	80.0	± 9.6 %
· · · · · · · · · · · · · · · · · · ·		Y	2.42	64.72	9.59		80.0	1
		Z	1.82	62,74	7.75		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	Х	100.00	115.81	28.77	6.56	60.0	± 9.6 %
		Υ	56.26	110.87	29.30		60.0	-
		Z	100.00	116.61	29.33		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	1.67	66.31	14.50	0.00	150.0	± 9.6 %
		Y	1.84	67.65	15.71		150.0	
40000		Z	1.72	66.59	14.85		150.0	
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	Х	1.63	66.25	14.46	0.00	150.0	± 9.6 %
		Y	1.81	67.62	15.68		150.0	
40000		Z	1.69	66.54	14.81		150.0	
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	20.79	106.16	36.52	9.56	60.0	± 9.6 %
		Y	18.70	100.68	34.52		60.0	
40400		Z	20.67	105.32	36.21		60.0	
10100- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	2.89	69.12	15.77	0.00	150.0	±9.6%
		Y	3.26	70.83	16.74		150.0	
40404	175 500 (00 500)	Z	3.00	69.53	16.03		150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.12	67.04	15.37	0.00	150.0	± 9.6 %
		Y	3.34	67.92	16.00		150.0	
		Z	3.20	67.25	15.56		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.23	67.05	15.49	0.00	150.0	± 9.6 %
		Υ	3.44	67.83	16.07		150.0	
		Z	3.31	67.24	15.67		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	Х	8.43	78.64	21.26	3.98	65.0	± 9.6 %
		Υ	8.62	77.74	20.97		65.0	
		Z	8.52	78.48	21.24		65.0	
10104- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	8.17	76.82	21.36	3.98	65.0	± 9.6 %
		Υ	8.69	76.76	21.44		65.0	****
		Z	8.34	76.86	21.44		65.0	·········
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	7.76	75.79	21.22	3.98	65.0	±9.6 %
		Y	7.66	74.29	20.64		65.0	
40400	LITE EDD (OR ED)	Z	7.91	75.83	21.30		65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.53	68.36	15.57	0.00	150.0	± 9.6 %
		Υ	2.87	70.01	16.56		150.0	
40400	1 TO FOR (60 FOR	Z	2.63	68.77	15.84		150.0	
10109- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.77	66.79	15.20	0.00	150.0	± 9.6 %
		Y	3.01	67.70	15.91		150.0	
40440	LTC EDD (OO ED) (OO)	Z	2.86	67.01	15.42		150.0	
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.03	67.36	15.06	0.00	150.0	± 9.6 %
		Υ	2.35	69.06	16.22		150.0	
10111	LTE EDD (OO ED) (A COO) ED LA	Z	2.14	67.79	15.40		150.0	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	×	2.45	67.27	15.27	0.00	150.0	± 9.6 %
		Υ	2.70	68.19	16.15		150.0	
		Z	2.54	67.49	15.56		150.0	

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	2.90	66.83	15.29	0.00	150.0	± 9.6 %
		Υ	3.13	67.63	15.95		150.0	
		Ζ	2.98	67.02	15.50		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	2.61	67.47	15.44	0.00	150.0	± 9.6 %
		Υ	2.85	68.27	16.25		150.0	
		Z	2.69	67.66	15.71		150,0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	Х	5.06	67.18	16.20	0.00	150.0	± 9.6 %
		Υ	5.20	67.35	16.40		150.0	
		Z	5.13	67.21	16.28		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.35	67.33	16.28	0.00	150.0	± 9.6 %
		Υ	5.57	67.66	16.57		150.0	
		Z	5.46	67.46	16.42		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	Х	5.16	67.37	16.22	0.00	150.0	±9.6 %
		Y	5.33	67.61	16.46		150.0	
		Z	5.24	67.44	16.33		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	Х	5.03	67.04	16.14	0.00	150.0	± 9.6 %
		Υ	5.20	67.36	16.43		150.0	
		Z	5.10	67.11	16.25		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	Х	5.44	67.54	16.40	0.00	150.0	± 9.6 %
	·	Υ	5.64	67.83	16.66		150.0	
		Z	5.54	67.67	16.54		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.14	67.32	16.20	0.00	150.0	± 9.6 %
		Υ	5.30	67.56	16.44		150.0	
		Z	5.21	67.37	16.30		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.27	67.06	15.42	0.00	150.0	± 9.6 %
		Y	3.49	67.84	16.00		150.0	
		Z	3.35	67.25	15.60		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3,39	67.19	15.61	0.00	150.0	± 9.6 %
		Y	3.61	67.88	16.14		150.0	
		Z	3.47	67.35	15.78		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.79	67.06	14.53	0.00	150.0	± 9.6 %
		Y	2.12	68.96	15.99		150.0	
		Z	1.90	67.56	14.99		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.25	67.55	14.72	0.00	150.0	± 9.6 %
		Y	2.56	68.81	15.99		150.0	
		Z	2.36	67.89	15.16		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.09	65.69	13.32	0.00	150.0	± 9.6 %
		Y	2.40	67.02	14.68		150.0	
		Z	2.20	66.07	13.79		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	1.05	63.35	10.30	0.00	150.0	± 9.6 %
		Υ	1.46	66.87	13.44		150.0	
		Z	1.18	64.41	11.38		150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	1.86	65.82	11.18	0.00	150.0	±9.6%
		Υ	3.29	72.53	15.56		150.0	
		Z	2.22	67.67	12.62		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	2.14	67.48	12.12	0.00	150.0	± 9.6 %
		Y	4.19	75.89	17.09		150.0	

Certificate No: ES3-3275_Apr18

10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.78	66.84	15.24	0.00	150.0	± 9.6 %
		Υ	3.02	67.75	15.95		150.0	
		Z	2.86	67.07	15.46		150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	Х	2.91	66.88	15.33	0.00	150.0	± 9.6 %
		Υ	3.14	67.67	15.98	1	150.0	
		Z	2.99	67.07	15.54		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	9.16	81.37	22.36	3.98	65.0	± 9.6 %
		Υ	9.09	79.83	21.89		65.0	7
		Z	9.17	81.01	22.29		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	7.77	76,96	21.11	3.98	65.0	± 9.6 %
		Υ	8.32	76.95	21.30		65.0	
		Z	7.95	77.03	21.24		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	Х	8.23	77.96	21.87	3.98	65.0	± 9.6 %
		Υ	8.66	77.60	21.89		65.0	
40.7=		Z	8.37	77.93	21.96		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	2.07	67.69	15.28	0.00	150.0	± 9.6 %
		Υ	2.40	69.48	16.48		150.0	
10:		Z	2.18	68.16	15.64		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.45	67.29	15.29	0.00	150.0	± 9.6 %
		Υ	2.70	68.20	16.16		150.0	
45455		Z	2.54	67.50	15.57		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	1.62	66,85	14.14	0.00	150.0	± 9.6 %
		Y	1.98	69.14	15.92		150.0	
		Z	1.74	67.48	14.72		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	1.89	65.90	13.14	0.00	150.0	± 9.6 %
		Υ	2.24	67.60	14.80		150.0	
		Z	2.01	66.40	13.72		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.61	67.53	15.49	0.00	150.0	± 9.6 %
		Υ	2.85	68.31	16.29		150.0	
		Z	2.70	67.71	15.76		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	1.98	66,28	13.39	0.00	150.0	± 9.6 %
		Υ	2.35	68.01	15.07	********	150.0	
		Z	2.11	66.81	13.99		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	2.58	67.74	15.49	0.00	150.0	± 9.6 %
		Υ	2.84	68.87	16.30		150.0	
40464		Z	2.67	68.04	15.75		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	2.80	66.79	15.23	0.00	150.0	± 9.6 %
		Υ	3.03	67.56	15.92	· · · · · · · · · · · · · · · · · · ·	150.0	
40400		Ζ	2.88	66.97	15.46		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	2.91	66.96	15.36	0.00	150.0	± 9.6 %
		Υ	3.13	67.64	16.00		150.0	
40400	LTE EDD (OO ED)	Z	2.99	67.11	15.57		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.59	69.77	19.04	3.01	150.0	± 9.6 %
······		Υ	4.00	70.80	19.68		150.0	
10107	LTE EDD (00 mb.)	Z	3.70	69.87	19.15		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	4.47	72.90	19.57	3.01	150.0	± 9.6 %
		· · · T				****		
		Y Z	5.27 4.64	74.48 73.01	20.43 19.69		150.0	

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	4.99	75.28	20.95	3.01	150.0	± 9.6 %
		Υ	5.79	76.50	21.58		150.0	
***************************************		Z	5.15	75.23	20.99		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.02	69.44	18.89	3.01	150.0	± 9.6 %
		Y	3.72	72.54	20.42		150.0	
		Z	3.17	70.01	19.21		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	4.27	75.88	21.39	3.01	150.0	± 9.6 %
		Υ	5.90	80.40	23.19		150.0	
		Z	4.56	76.58	21.71		150.0	
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	3.46	71.49	18.53	3.01	150.0	± 9.6 %
		Y	4.68	75.47	20.32		150.0	
		Z	3.69	72.13	18.87		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	22.89	107.17	33.00	6.02	65.0	± 9.6 %
		Υ	29.16	108.40	33.11		65.0	
	1001/41/0000	Z	25.77	108.46	33.30		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	45.14	114.12	32.95	6.02	65.0	± 9.6 %
		Υ	33.44	106.00	30.71		65.0	
		Z	41.34	111.77	32.33		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	29.39	105.15	29.95	6.02	65.0	± 9.6 %
		Y	25.45	99.94	28.48		65.0	
***************************************		Z	28.31	103.70	29.56		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	2.98	69.13	18.64	3.01	150.0	± 9.6 %
		Y	3.67	72.17	20.16		150.0	
		Z	3.13	69.69	18.96		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	4.28	75.90	21.40	3.01	150.0	± 9.6 %
		Υ	5.91	80.43	23.20		150.0	
		Z	4.57	76.60	21.72		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.01	69.28	18.73	3.01	150.0	± 9.6 %
		Y	3.70	72.35	20.26		150.0	
		Z	3.16	69.85	19.06		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	4.24	75.68	21.28	3.01	150.0	± 9.6 %
		Υ	5.82	80.10	23.05		150.0	
		Z	4.51	76.35	21.59		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.83	73.53	19.82	3.01	150.0	± 9.6 %
		Υ	5.23	77.74	21.60		150.0	
		Z	4.08	74.20	20.14		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	3.45	71.42	18.49	3.01	150.0	± 9.6 %
		Υ	4.66	75.36	20.26		150.0	
		Z	3,68	72.05	18.82		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.00	69.26	18.73	3.01	150.0	± 9.6 %
		Υ	3.70	72.33	20.25		150.0	
10182-	LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	Z X	3.15 4.23	69.83 75.65	19.05 21.27	3.01	150.0 150.0	± 9.6 %
CAD	16-QAM)	 ,,		1				
		l Y	5.81	80.07	23.04		150.0	
40400	LTE EDD (OO EDIM 4 CD 4 CTC)	Z	4.50	76.32	21.58	<u> </u>	150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	3.45	71.39	18.47	3.01	150.0	± 9.6 %
		Y	4.65	75.34	20.25		150.0	
		Z	3.67	72.02	18.81		150.0	

10184-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz,	X	3.01	69.30	18.75	3.01	150.0	± 9.6 %
CAD	QPSK)							
		Υ	3.71	72.38	20.28		150.0	
40405	LTE EDD (CO EDMA 4 DD CAN)	Z	3.16	69.87	19.07		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	4.25	75.73	21.31	3.01	150.0	± 9.6 %
		Y	5.84	80.16	23.08		150.0	
10186-	LTE FDD /CC FDMA 4 DD 2 MH= 04	Z	4.53	76.40	21.62		150.0	
AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	3.46	71.46	18.51	3.01	150.0	± 9.6 %
		Z	4.68 3.69	75.42	20.28		150.0	
10187-	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz,	X	3.09	72.09	18.84	2.04	150.0	1000
CAE	QPSK)	^ Y	3.72	69.36	18.81	3.01	150.0	±9.6%
	i -	$\frac{1}{Z}$	3.12	72.43	20.33		150.0	·····
10188-	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz,	 × −	4.39	69.92 76.42	19.13	2.04	150.0	1000
CAE	16-QAM)	^ Y			21.70	3.01	150.0	± 9.6 %
		Z	6.08	80.98	23.49	ļ	150.0	
10189-	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz,	X	4.69 3.55	77.13 71.90	22.01	2.04	150.0	1000
AAE	64-QAM)	Y			18.79	3.01	150.0	± 9.6 %
		Z	4.81 3.78	75.94	20.58		150.0	
10193-	IEEE 802.11n (HT Greenfield, 6.5 Mbps.	X	4.45	72.55	19.13	0.00	150.0	. 0.0.01
CAC	BPSK)	Y		66.56	15.86	0.00	150.0	± 9.6 %
***************************************		Z	4.63	66.77	16.18		150.0	
10194-	IEEE 802.11n (HT Greenfield, 39 Mbps,	X	4.53	66.58	15.98	0.00	150.0	
CAC	16-QAM)		4.62	66.87	15.99	0.00	150.0	± 9.6 %
		Υ	4.82	67.14	16.29		150.0	
10195-	IEEE 802.11n (HT Greenfield, 65 Mbps,	Z	4.70	66.91	16.10		150.0	
CAC	64-QAM)	X	4.66	66.90	16.01	0.00	150.0	± 9.6 %
		Y	4.86	67.15	16.30		150.0	
10196-	IEEE 802.11n (HT Mixed, 6.5 Mbps,	Z	4.75	66.94	16.12		150.0	
CAC	BPSK)	Х	4.46	66.61	15.88	0.00	150.0	± 9.6 %
		Y	4.65	66.87	16.21		150.0	
10197-	IEEE 802.11n (HT Mixed, 39 Mbps, 16-	Z	4.53	66.65	16.00		150.0	
CAC	QAM)	X	4.64	66.89	16.00	0.00	150.0	± 9.6 %
		Y	4.84	67.16	16.30		150.0	
10198-	IEEE 802.11n (HT Mixed, 65 Mbps, 64-	Z	4.72	66.93	16.11		150.0	
CAC	QAM)	X	4.66	66.92	16.02	0.00	150.0	± 9.6 %
		Y	4.87	67.17	16.31		150.0	
10219-	IEEE 802.11n (HT Mixed, 7.2 Mbps,	Z	4.75	66.96	16.13		150.0	
CAC	BPSK)	X	4.40	66.62	15.83	0.00	150.0	± 9.6 %
		Y	4.59	66.88	16.17		150.0	
10220-	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-	Z	4.48	66.66	15.96		150.0	
CAC	QAM)	X	4.63	66.86	15.99	0.00	150.0	± 9.6 %
· · · · · · · · · · · · · · · · · · ·		Y	4.84	67.15	16,30		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.72 4.67	66.91 66.85	16.11 16.01	0.00	150.0 150.0	± 9.6 %
	Se sivi)	Υ	4.00	07.40	40.00			
			4.88	67.10	16.30		150.0	
10222-	IEEE 802.11n (HT Mixed, 15 Mbps,	Z X	4.76 5.00	66.89	16.12		150.0	
CAC	BPSK)			67.05	16.14	0.00	150.0	± 9.6 %
		Y	5.18	67.38	16.43		150.0	
	<u> </u>	Ζ	5.08	67.12	16.24		150.0	

10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	Х	5.31	67.27	16.28	0.00	150.0	± 9.6 %
***		Y	5,55	67.70	16.61		150.0	
		Z	5.39	67.33	16.38		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	×	5.05	67.15	16.12	0.00	150.0	± 9.6 %
		Υ	5.23	67.47	16.40		150.0	
		Ζ	5.12	67.22	16.22		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	2.70	65.72	14.75	0.00	150.0	± 9.6 %
		Υ	2.89	66.26	15.48		150.0	
10000		Z	2.77	65.84	15.01		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	50.25	116.22	33.59	6.02	65.0	± 9.6 %
		1	35.30	107.10	31.10		65.0	
40007		Z	45.30	113.57	32.91		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	39.94	110.39	31.44	6.02	65.0	±9.6%
		Y	27.63	101.45	29.00		65.0	
40000	LITE TOP (OO FDIIA (FF) () ()	Z	35.20	107.48	30.68		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	31.91	113.91	34.98	6.02	65.0	± 9.6 %
		Υ	33.76	111.66	34.13		65.0	
40000	LITE TOP (CO FEMALE) OF CAME	Z	33.64	113.99	34.94		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	45.34	114.19	32.97	6.02	65.0	± 9.6 %
		Y	33.47	106.00	30.72		65.0	
40000	LITE TOP (OO FOLIA & P.D. O.L.)	Z	41.47	111.81	32.35		65.0	0.00
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	36.52	108.73	30.92	6.02	65.0	± 9.6 %
		Υ	26.46	100.60	28.69		65.0	
		Z	32.69	106.09	30.22		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	29.50	112.23	34.43	6.02	65.0	± 9.6 %
***************************************		Y	32.10	110.57	33.75		65.0	
		Z	31.26	112.42	34.42		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	45.34	114.20	32.98	6.02	65.0	± 9.6 %
		Υ	33.46	106.00	30.72		65.0	
		Z	41.46	111.82	32.35		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	36.50	108.73	30.92	6.02	65.0	± 9.6 %
		Υ	26.48	100.63	28.69		65.0	
		Z	32.69	106.10	30.23		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	27.44	110.59	33.85	6.02	65.0	± 9.6 %
		Υ	30.42	109,33	33.31		65.0	
		Z.	29.16	110.83	33.87		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	×	45.55	114.29	33.00	6.02	65.0	±9.6%
		Y	33.56	106.07	30.74		65.0	
		Z	41.64	111.91	32.38		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	36.95	108.91	30.96	6.02	65.0	± 9.6 %
		Υ	26.68	100.74	28.72		65.0	
		Z	33.05	106.26	30.27		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	29.76	112.43	34.49	6.02	65.0	± 9.6 %
		Υ	32.41	110.77	33.81		65.0	
		Z	31.56	112.63	34.48		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	Х	45.34	114.21	32.98	6.02	65.0	± 9.6 %
		Υ	33.47	106.02	30.72		65.0	
		Z	41.47	111.83	32.35	1	65.0	

10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	36.46	108.72	30.92	6.02	65.0	± 9.6 %
		Υ	26.48	100.65	28.70		65.0	
		Z	32.67	106.10	30.23		65.0	-
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	29.66	112.38	34.47	6.02	65.0	± 9.6 %
		Υ	32.31	110.72	33.80		65.0	1
		Z	31.45	112.57	34.47		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	12.07	87.90	27.72	6.98	65.0	± 9.6 %
		Y	13.30	87.80	27.79		65.0	
10242-	TE TOD (00 FOLK)	Z	12.09	87.25	27.54		65.0	
CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	10.79	85.52	26.74	6.98	65.0	± 9.6 %
		Y	11.93	85.40	26.80		65.0	
40040	LTE TOD (OO FDMA FOX DD () AND	Z	10.92	85.06	26.63		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	8.53	82.01	26.28	6.98	65.0	± 9.6 %
		Υ	9.73	82.85	26.70		65.0	
10044	LTE TDD /00 EDMA 500/ TO 500	Z	8.73	81.87	26.27		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	8.65	79.36	19.73	3.98	65.0	± 9.6 %
		Υ	9.67	80.41	21.07		65.0	
40045	LITE TOP (OO EDIA) FOR ON	Z	9.07	80.05	20.38		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	8.37	78.61	19.39	3.98	65.0	± 9.6 %
		Υ	9.55	79.98	20.86		65.0	
40040	LTE TOD (OO FOLK)	Z	8.85	79.41	20.09		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	8.45	81.72	20.65	3.98	65.0	± 9.6 %
		Υ	8.96	81.90	21.58		65.0	
		Z	8.89	82.46	21.26		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	7.05	76.85	19.45	3.98	65.0	± 9.6 %
		Υ	7.74	77.40	20.39		65.0	
		Z	7.34	77.32	19.94		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	6.95	76.21	19.18	3.98	65.0	± 9.6 %
		Υ	7.76	77.01	20.23	***************************************	65.0	
		Ζ	7,27	76.74	19.70		65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	10.21	85.26	22.77	3.98	65.0	± 9.6 %
		Υ	9.74	83.39	22.69		65.0	
400=0		Z	10.26	85.16	22.98		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	8.24	79.77	22.15	3.98	65.0	± 9.6 %
		Υ	8.54	79.06	22.18		65.0	
40004	LITE TOP (OC FOLL)	Z	8.37	79.72	22.29		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	7.65	77.33	20.87	3.98	65.0	± 9.6 %
		Υ	8.18	77.25	21.21		65.0	
10050	LTE TOP (OO FOLIA FOR FOR	Z	7.84	77.43	21.08		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	10,15	84.92	23.58	3.98	65.0	±9.6 %
		Υ	9.64	82.56	22.96		65.0	
10253-	LTC TDD (CO EDMA FOOK DE CENTRE	Z	10.08	84.44	23.52		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	7.59	76.43	20.88	3.98	65.0	± 9.6 %
		Υ	8.12	76.41	21.12		65.0	
10054	LTE TOD (OO FDW)	Z	7.75	76.47	21.02		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	8.02	77.36	21.56	3.98	65.0	± 9.6 %
		Υ	8.47	77.08	21.68		65.0	
		Z	8.16	77.32	21.67		65.0	

10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	8.82	80.95	22.40	3.98	65.0	± 9.6 %
		Y	8.84	79.53	22.01		65.0	
		Z	8.84	80.61	22.35		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	6.82	75.23	17.15	3.98	65.0	± 9.6 %
		Y	8.68	78.37	19.56		65,0	
		Z	7.54	76.70	18.19		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	6.54	74.30	16.68	3.98	65.0	± 9.6 %
		Y	8.52	77.75	19.24		65.0	
		<u>Z</u>	7.28	75.85	17.77		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	6.37	76.83	18.03	3.98	65.0	± 9.6 %
		<u>Y</u>	7.89	79.52	20.15		65.0	
		Z	7.10	78.42	19.06		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	7.52	77.93	20.42	3.98	65.0	± 9.6 %
		Υ	8.06	77.98	21.01		65.0	
		Z	7.74	78.19	20.78		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	7.49	77.59	20.29	3.98	65.0	± 9.6 %
		Υ	8.09	77.75	20.94		65.0	
		Z	7.73	77.88	20.67		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	9.67	84.29	22.82	3.98	65.0	± 9.6 %
		Υ	9.39	82.53	22.65		65.0	
		Z	9.71	84.10	22.96		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	8.22	79.70	22.11	3.98	65.0	± 9.6 %
		Υ	8.54	79.02	22.15		65.0	
		Z	8.36	79.67	22.25		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	7.64	77.31	20.87	3.98	65.0	± 9.6 %
		Υ	8.18	77.24	21,21		65.0	
		Z	7.83	77.41	21.08		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	10.05	84.72	23.48	3.98	65.0	± 9.6 %
		Y	9.59	82.44	22.90		65.0	
		Z	9.99	84.26	23.44		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	7.77	76.96	21.11	3.98	65.0	± 9.6 %
		Υ	8.32	76.95	21.31		65.0	
		Z	7.94	77.03	21.24		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	8.23	77.95	21.86	3.98	65.0	± 9.6 %
		Υ	8.66	77.60	21.89		65.0	
		Z	8.37	77.92	21.95		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	×	9.14	81.33	22.34	3.98	65.0	± 9.6 %
		Y	9.08	79.80	21.88		65.0	
		Z	9.15	80.97	22,27		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	8.28	76.59	21.39	3.98	65.0	± 9.6 %
		Y	8.78	76.48	21.45		65.0	
		Z	8.43	76.60	21.46		65.0	<u> </u>
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	8.21	76.18	21.28	3.98	65.0	± 9.6 %
		Υ	8.71	76.12	21.38		65.0	
		Z	8,36	76.19	21.36		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	8.50	78.31	21.37	3.98	65.0	± 9.6 %
		Y	8.72	77,47	21.11		65.0	
		Z	8.58	78.11	21.34		65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.47	65.94	14.57	0.00	150.0	± 9.6 %
		Y	2.63	66.50	15.32		150.0	
		Z	2.53	66.03	14.81		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	Х	1.44	66.22	14.17	0.00	150.0	± 9.6 %
		Y	1.67	68.26	15.67		150.0	
		Z	1.51	66.69	14.59		150.0	
10277- CAA	PHS (QPSK)	X	4.33	66.71	11.48	9.03	50.0	± 9.6 %
		Y	6.15	70.64	14.98		50.0	
40070	PHO (OPOK PIM OO MALL PLU (CO. 5)	Z	4.74	67.68	12.36		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	7.81	77.29	18.58	9.03	50.0	± 9.6 %
		Y	9.15	79.24	20.78		50.0	<u> </u>
10279-	DITO (ODOK DIW OO (NIII D. II (CO OO)	Z	8.54	78.77	19.60		50.0	
CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	7.93	77.47	18.68	9.03	50.0	± 9.6 %
····-		Y	9.31	79.44	20.87		50.0	
40000	ODIMAGOOD DOLLORE E HE	Z	8.68	78.95	19.70		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	Х	1.13	65.57	11.82	0.00	150.0	± 9.6 %
		<u> Y</u>	1.61	69.49	14.83		150.0	
40004	001440000 00000000000000000000000000000	Z	1.28	66.68	12.80		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	0.66	63.21	10.32	0.00	150.0	± 9.6 %
		Y	0.91	66.51	13.26		150.0	
40000	ODMANOOD DOO DOOG E U.D. (Z	0.74	64.03	11.21		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	0.74	65.25	11.76	0.00	150.0	± 9.6 %
		Υ	1.12	70.35	15.50		150.0	
	4,444	Z	0.84	66.45	12.83		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	0.95	68.31	13.72	0.00	150.0	± 9.6 %
· · · · · · · · · · · · · · · · · · ·		Υ	1.55	75.23	18.07		150.0	
40005	ODMASSOS DOL GOS LIST DE COL	Z	1.09	69.98	14.96	ļ	150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	Х	12.11	86.74	24.46	9.03	50.0	± 9.6 %
		Υ	10.43	82.76	23.86		50.0	
4000=		Z	11.51	85.80	24.46		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	2.54	68.44	15.63	0.00	150.0	± 9.6 %
		Υ	2.88	70.10	16.62		150.0	
40000	LTE FDB (00 FD)	Z	2.65	68.86	15.90		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	1.32	65.46	12.43	0.00	150.0	± 9.6 %
		Υ	1.75	68.52	14.93		150.0	
10200	LITE EDD (CO EDMA COS) DB CASS	Z	1.46	66.37	13.28		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	2.54	69.20	13.80	0.00	150.0	± 9.6 %
		Υ	3.80	74.14	16.99		150.0	
10200	LTE EDD (OO EDLIA SOO) ==	Z	2.86	70.52	14.83		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.93	65.01	11.07	0.00	150.0	± 9.6 %
····		Υ	2.76	68.72	13.93		150.0	
10001	IEEE 000 40 140 140 1	Z	2.16	66.01	12.01		150.0	
10301- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	Х	5.32	67.49	18.08	4.17	80.0	± 9.6 %
		Υ	5.89	68.64	18.91		80.0	
40202	IEEE 000 40- MENANY (CO. 10 -	Z	5.45	67.61	18.29		80.0	
10302- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	Х	5.78	68.03	18.79	4.96	80.0	± 9.6 %
		Υ	6.52	69.89	20.04		80.0	
		Z	5.91	68.17	19.00		80.0	

		·						
10303- AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	5.59	67.95	18.74	4.96	0.08	± 9.6 %
		Υ	6.42	70.15	20.19		80.0	
		Z	5.74	68.13	18.99		80.0	
10304- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	Х	5.29	67.40	18.02	4.17	80.0	± 9.6 %
		Y	5.95	69.11	19.19	***************************************	80.0	
		Z	5.41	67.52	18.23		80.0	
10305- AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	Х	7.11	77.24	23.60	6.02	50.0	± 9.6 %
		Υ	8.84	79.94	24.96		50.0	
		Z	7.43	78.03	24.25		50.0	
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	5.77	69.91	20.22	6.02	50.0	± 9.6 %
		Y	7.32	74.38	22.84		50.0	
.,		Z	5.96	70.26	20.60		50.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	6.28	73.17	21.91	6.02	50.0	± 9.6 %
		Y	7.57	75.42	23.10		50.0	
1855-		Z	6.51	73.71	22.40		50.0	
10308- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	6.38	73.80	22.22	6.02	50.0	± 9.6 %
		Y	7.71	76.06	23.38		50.0	
		Z	6.62	74.34	22.70		50.0	
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	Х	5.84	70.15	20.38	6.02	50.0	± 9.6 %
		Υ	7.47	74.77	23.04		50.0	
		Z	6.05	70.54	20.77		50.0	
10310- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	5.76	70.08	20.22	6.02	50.0	± 9.6 %
		Υ	7.39	74.75	22.90		50.0	
		Z	5.95	70.44	20.60		50.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	2.88	67.82	15.36	0.00	150.0	± 9.6 %
·····		Υ	3.24	69.40	16.27		150.0	1
		Z	2.99	68.21	15.61		150.0	
10313- AAA	IDEN 1:3	Х	6.98	77.79	17.99	6.99	70.0	± 9.6 %
		Υ	7.35	77.62	18.55		70.0	
		Z	7.10	77.83	18.14		70.0	
10314- AAA	IDEN 1:6	Х	10.47	86.66	23.65	10.00	30.0	±9.6%
		Y	8.79	81.86	22.43		30.0	
		Z	10.14	85.77	23.45		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	Х	1.08	63.51	14.40	0.17	150.0	± 9.6 %
		Y	1.16	64.75	15.55		150.0	
		Z	1.10	63.77	14.71		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X	4.55	66.75	16.09	0.17	150.0	± 9.6 %
		Υ	4.74	66.99	16.40		150.0	
		Z	4.63	66.78	16.20		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.55	66.75	16.09	0.17	150.0	± 9.6 %
		Υ	4.74	66.99	16.40		150.0	
		Z	4.63	66.78	16.20		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.61	66.92	15.98	0.00	150.0	± 9.6 %
		Υ	4.83	67.21	16.30		150.0	<u></u>
		Z	4.70	66.97	16.10		150.0	1
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.33	67.20	16.22	0.00	150.0	± 9.6 %
		Y	5.47	67.31	16.40		150.0	
		Z	5.40	67.21	16.30		150.0	

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	Х	5.57	67.46	16.21	0.00	150.0	± 9.6 %
		Υ	5.76	67.80	16.49		150.0	
		Z	5.66	67.55	16.32		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	Х	1.13	65.57	11.82	0.00	115.0	±9.6%
		Υ	1.61	69.49	14.83		115.0	
		Z	1.28	66.68	12.80		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	Х	1.13	65.57	11.82	0,00	115.0	± 9.6 %
		Υ	1.61	69.49	14.83		115.0	
10100		Z	1.28	66.68	12.80		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	88.62	118.42	29.12	0.00	100.0	± 9.6 %
		Υ	100.00	121.65	30.84		100.0	
40440		Z	64.62	115.49	28.99		100.0	
10410- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	119.91	29.89	3.23	0,08	± 9.6 %
		Y	100.00	119.37	30.35		80.0	
40445	TEE 000 441 WELL 1 TO 1	Z	100.00	119.74	30.02		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	Х	0.95	62.22	13.58	0.00	150.0	± 9.6 %
***************************************		Υ	1.00	63.15	14.62		150.0	
40440		Z	0.96	62.40	13.86		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	Х	4.46	66.60	15.93	0.00	150.0	± 9.6 %
		Υ	4.63	66.81	16.22		150.0	
40447		Z	4.53	66.62	16.04		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.46	66.60	15.93	0.00	150.0	± 9.6 %
·········		Υ	4.63	66.81	16.22		150.0	
40440		Z	4.53	66.62	16.04		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.44	66.75	15.94	0,00	150.0	± 9.6 %
		Υ	4.62	66.95	16.22		150.0	
		Z	4.52	66.76	16.04		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.47	66.70	15.95	0.00	150.0	± 9.6 %
····		Υ	4.64	66.91	16.23		150.0	
		Z	4.54	66.72	16.05		150.0	****
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	Х	4.58	66.71	15.97	0.00	150.0	± 9.6 %
		Υ	4.77	66.92	16.25		150.0	·····
40400	LEEE 000 44 (ME 6	Z	4.66	66.73	16.08		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.74	67.02	16.09	0.00	150.0	± 9.6 %
***************************************		Y	4.97	67.29	16.39		150.0	
40404	IEEE 000 44 /UT 0	Z	4.84	67.07	16.20		150.0	
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.67	66.97	16.06	0.00	150.0	± 9.6 %
		Y	4.88	67.23	16.36		150.0	
10425	IEEE 800 44- (IEE Co	Z	4.75	67.01	16.17		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.27	67.32	16.28	0.00	150.0	± 9.6 %
		Y	5.44	67.54	16.51		150.0	
40400		Z	5.36	67.40	16.39		150.0	
10426- AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	Х	5.28	67.36	16.29	0.00	150.0	± 9.6 %
		Υ	5.45	67.57	16.52		150.0	
		Z	5.36	67.41	16.39		150.0	

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	5.29	67.32	16.27	0.00	150.0	± 9.6 %
		Υ	5.47	67.58	16.52		150.0	
		Z	5,38	67.39	16.38		150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.07	70.23	17.55	0.00	150.0	± 9.6 %
		Υ	4.27	70.06	17.88		150.0	
		Z	4.15	70.14	17.71		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	Х	4.11	67.04	15.84	0.00	150.0	± 9.6 %
		<u>Y</u>	4.36	67.35	16.27		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.21 4.43	67.10 66.98	16.00 15.97	0.00	150.0 150.0	± 9.6 %
		Y	4.65	67.26	16.32		150.0	
		Z	4.52	67.02	16.10		150.0	***************************************
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.68	67.00	16.07	0.00	150.0	± 9.6 %
		Υ	4.89	67.27	16.38		150.0	
		Z	4.77	67.04	16.19		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	Х	4.12	70.89	17.41	0.00	150.0	± 9.6 %
	- Indiana and a second a second and a second a second and	Y	4.34	70.74	17.85		150.0	
15.15		Z	4.22	70.82	17.62		150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	119.71	29.80	3.23	80.0	± 9.6 %
		Y	100.00	119.22	30.28		80.0	
40447	LITE EDD (OFDMA E MILE E TMO)	Z	100.00	119.56	29.94	0.00	80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.37	66.82	14.98	0.00	150.0	± 9.6 %
		Y	3.67	67.36	15.75		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	3.49 3.96	66.96 66.81	15.27 15.69	0.00	150.0 150.0	± 9.6 %
7010	Опрриг 4470)	Y	4.18	67.12	16.13		150.0	
		Z	4.05	66.86	15.85		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	×	4.24	66.79	15.86	0.00	150.0	± 9.6 %
		Υ	4.44	67.08	16.21		150.0	
		Z	4.32	66.83	15.98		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.44	66.75	15.91	0.00	150.0	± 9.6 %
		Υ	4.62	67.02	16.23		150.0	
	•	<u> Z</u>	4.52	66.79	16.03		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.24	66.86	14.51	0.00	150.0	± 9.6 %
		Y	3,59	67.61	15.48		150.0	ļ
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	Z	3.38 6.15	67.08 67.91	14.88 16.46	0.00	150.0 150.0	± 9.6 %
	oopo darij ojoloj	Y	6.30	68.18	16.69	 	150.0	
		Ż	6.22	67.98	16.56		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.73	65.25	15.62	0.00	150.0	± 9.6 %
		Y	3.83	65.45	15.95		150.0	
		Z	3.77	65.26	15.74		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	Х	3.76	70.07	16.73	0.00	150.0	± 9.6 %
		Y	3.96	69.90	17.32		150.0	
		Z	3.85	70.03	17.01		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	Х	4.92	68.09	17.69	0.00	150.0	± 9.6 %
		Υ	5.09	67.55	17.82		150.0	
		Z	5.01	67.92	17.81	ı ———	150.0	

	UMTS-FDD (WCDMA, AMR)	X	0.75	65.19	13.76	0.00	150.0	± 9.6 %
		Y	0.92	68.59	16.20	 	150.0	
		Z	0.79	65.92	14.36	<u> </u>	150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	123.79	31.74	3.29	80.0	± 9.6 %
		Υ	100.00	122.12	31.69		80.0	
		Z	100.00	123.30	31.73		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	32.80	95.15	20.97	3.23	80.0	± 9.6 %
		Y	100.00	108.81	25.31		80.0	
10463-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z	69.50 5.39	103.52 75.30	23.30 14.79	3,23	80.0	± 9.6 %
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)	Y	43.22	97.24	21.98		000	
		⊢ <mark>'</mark>	9.33	80.70	16.78	·	80.0	
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	121.52	30.54	3.23	80.0 80.0	± 9.6 %
	4. 514 62 645 Harris 2,6,4,1 (6,6)	Y	100.00	120.38	30.74		80.0	
		Z	100.00	121.16	30.59		80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	14.77	86.68	18.69	3.23	80.0	± 9.6 %
		Y	100.00	108.39	25.10		80.0	
		Z	27.22	93.26	20.74	 	80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	4.02	72.31	13.72	3.23	80.0	± 9.6 %
		Υ	24.89	91.04	20.33		80.0	
		Z	6.35	76.67	15.47		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	121.77	30.65	3.23	80.0	± 9.6 %
		Υ	100.00	120.56	30.82		80.0	
		Z	100.00	121.39	30.69		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	17.84	88.71	19.26	3.23	80.0	± 9.6 %
		Υ	100.00	108.52	25.16		80.0	
46466	-	Ζ	33.81	95.65	21.37		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.05	72.41	13.75	3.23	80.0	± 9.6 %
		Υ	25.54	91.32	20.40		80.0	
40470	LTE TOD (OO ED)	Z	6.43	76.81	15.51		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	100.00	121.79	30.65	3.23	80.0	± 9.6 %
		Υ	100.00	120.58	30.82		80.0	
10471-	LTE TOD (OC FOMA 4 DD 40 MIL 40	Z	100.00	121.41	30.69		80.0	
AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	17.61	88.54	19.20	3.23	80.0	± 9.6 %
		Υ	100.00	108.47	25.13		80.0	
10472-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-	Z	33.47	95.51	21.32		80.0	
AAC	QAM, UL Subframe=2,3,4,7,8,9)	X	4.02	72.32	13.71	3.23	80.0	± 9.6 %
		Y Z	25.57	91.31	20.39		80.0	
10473-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	X	6,39 100.00	76.72	15.47	0.00	80.0	
AAC	QPSK, UL Subframe=2,3,4,7,8,9)			121.76	30.64	3.23	80.0	± 9.6 %
		Y	100.00	120.56	30.81		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00 17.32	121.38 88.38	30.68 19.16	3.23	80.0 80.0	± 9.6 %
	2,0,7,1,0,0	Υ	100.00	108.48	25.14		80.0	
		Z	32.82	95.31	21.27		80.0	
						0.00		
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	3.99	72.26	13.69	3.23	0.08	± 9.6 %
	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	3.99 25.19	91.16	20.35	3,23	80.0	± 9.6 %

10477-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-	Х	15.07	00 00	10.70	2 22	000	+0.69/
AAC	QAM, UL Subframe=2,3,4,7,8,9)	^	15.07	86.86	18.72	3.23	80.0	± 9.6 %
		Y	100.00	108.34	25.07		80.0	
		Z	28.04	93.54	20.79		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	3.95	72.14	13.64	3.23	80.0	± 9.6 %
		Υ	24.77	90.95	20.29		80.0	
		Z	6.24	76.49	15.38		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	18.00	97.43	26.23	3.23	80.0	± 9.6 %
		Υ	13.36	92.12	25.35		80.0	
		Z	14.86	94.42	25.64		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	15.57	89.49	22.03	3.23	80.0	± 9.6 %
		<u>Y</u>	14.49	88.43	22.68		80.0	
10101	TEN TEN (00 TENA)	Z	14.38	88.56	22.14		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	11.30	84.47	20.12	3.23	80.0	± 9.6 %
		Y	12.51	85.67	21.51		80.0	
40400	LIFE TOD (OO FOMA SON SO CAN)	Z	11.33	84.56	20.56	0.00	80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.07	74.15	17.16	2.23	80.0	± 9.6 %
······································		Y	5.81	78.45	19.63		80.0	
10100	1 TE TEE (00 FEMALES ON EE 0.11)	Z	4.63	75.76	18.13		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.76	77.89	18.30	2.23	80.0	± 9.6 %
		Y	8.61	81.09	20.48		80.0	
40404	LITE TOD (OO EDMA FOW DD CAN)	Z	7.45	79.28	19.22	0.00	80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6,10	76,33	17.74	2.23	80.0	± 9.6 %
		Y	8.03	79.88	20.06		80.0	
		Z	6.80	77.82	18.72		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.67	76.32	18.94	2.23	80.0	± 9.6 %
		Y	6.01	79.09	20.51		80.0	
		Z	5.06	77.24	19.52		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	4.00	71.17	16,48	2.23	80.0	± 9.6 %
		Y	4.90	73.23	18.04		80.0	
		Z	4.29	71.91	17.09		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.96	70.71	16.28	2.23	80.0	± 9.6 %
		Y	4.86	72.77	17.85		80.0	
10100		Z	4.25	71.45	16.90		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	4.80	75.39	19.35	2.23	80.0	± 9.6 %
		Y	5.90	77.41 75.98	20.35		80.0	-
10489-	LTE-TDD (SC-FDMA, 50% RB, 10 MHz,	Z X	5.11 4.30	75.98	19.69 17.75	2.23	80.0 80.0	± 9.6 %
AAC	16-QAM, UL Subframe=2,3,4,7,8,9)		105	70.01	40.50		60.0	
		Y	4.95	72.31	18.56		80.0	1
40400	LITE TOD (OO FDWA 500) DD 40.1"	Z	4.48	71.46	18.03	0.00	80.0	1000
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.37	70.93	17.67	2.23	80.0	± 9.6 %
***		Y	5.00	71.98	18.45	·	80.0	
10491-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	X	4.55 4.81	71.20 73.40	17.95 18.77	2.23	80.0 80.0	± 9.6 %
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	1	E 00	74.00	40.54	-	00.0	1
		Z	5.66	74.90	19.51		80.0	1
10400	LITE TOD /CC EDMA 500/ DD 45 MU-	X	5.05	73.81	19.01	2.22	80.0	4060/
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)		4.58	70.26	17.73	2.23	80.0	± 9.6 %
		Y	5.15	71.20	18.35		80.0	
		Z	4.74	70.48	17.94	l	80.0	l .

10493-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	TX	4.63	70.09	17.67	1 0 00	1 00 0	T . 0 0 0/
AAC	64-QAM, UL Subframe=2,3,4,7,8,9)	^	4.03	70.09	17.67	2.23	80.0	± 9.6 %
		Y	5.20	70.99	18.28		80.0	1
		Z	4.79	70.31	17.88		80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.26	74.92	19.20	2.23	80.0	± 9.6 %
		Υ	6.31	76.72	20.02		80.0	
		Z	5.56	75.45	19.47		80,0	
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.63	70.67	17.93	2.23	80.0	± 9.6 %
		Y	5.25	71.75	18.56		80.0	
10496-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	Z	4.81	70.95	18.14	ļ	80.0	
AAC	64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.69	70.35	17.84	2.23	80.0	± 9.6 %
		Y	5.28	71.32	18,43		80.0	
10497-	LIE TOD (SC CDMA 4000) DD 4.4	Z	4.85	70.59	18.04		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.80	69.04	14.16	2.23	80.0	± 9.6 %
		Y	4.67	75.26	17.80		80.0	
10498-	LTE-TDD (SC-FDMA, 100% RB, 1.4	Z	3.38	71.31	15.55	0.00	80.0	
AAA	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.04	63.14	10.52	2.23	80.0	± 9.6 %
		Υ	3.54	68.97	14.46		80.0	
4045-		Z	2.48	65.07	11.94		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.97	62.57	10.11	2.23	80.0	± 9.6 %
		Υ	3.46	68.37	14.08		80.0	†
		Ζ	2.40	64.45	11.52		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.63	75.63	19.00	2.23	80.0	± 9.6 %
		Y	5.77	77.85	20.27		80.0	
40504		Ζ	4.95	76.31	19.46		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.15	71.24	16.99	2.23	80.0	± 9.6 %
		Y	4.91	72.75	18.19		80.0	
10502-	LTE TDD (SC EDMA 4000) DD 0 MIL	Z	4.38	71.72	17.45		80.0	
AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.19	71.02	16.85	2.23	80.0	±9.6%
		Y	4.94	72.49	18.05		80.0	
10503-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	Z	4.41	71.50	17.31		80.0	
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	X	4.74	75.17	19.25	2.23	80.0	± 9.6 %
		Z	5.83 5.04	77.22	20.27		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.28	75.77 71.06	19.59 17.69	2.23	80.0 80.0	± 9.6 %
		Y	4.93	72.23	18.51		80.0	
		Ż	4.45	71.37	17.98		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.35	70.83	17.62	2.23	80.0	± 9.6 %
		Υ	4.98	71.89	18.41		80.0	
40=		Z	4.52	71.11	17.90		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.22	74.76	19.13	2.23	80.0	± 9.6 %
		Υ	6.26	76.58	19.96		80.0	
10507	LIE TOD (OG EDIV	Z	5.51	75.29	19.40		80.0	
10507- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.62	70.61	17.89	2.23	80.0	± 9.6 %
		Y	5.23	71.69	18.53	1	80.0	

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.67	70.27	17.79	2.23	80.0	± 9.6 %
		Υ	5.26	71.26	18.40		80.0	
		Ζ	4.84	70.52	18.00		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.37	73.08	18.53	2.23	80.0	± 9.6 %
		Υ	6.17	74.40	19.15		80.0	
		Z	5.59	73.44	18.73		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.06	70.14	17.83	2,23	80.0	± 9.6 %
		Υ	5.64	71.11	18.37		80.0	
		Ζ	5.23	70.39	18.01		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.10	69.87	17.77	2.23	80.0	± 9.6 %
		Υ	5.65	70.75	18.27	***************************************	80.0	
10=1-		Z	5.26	70.08	17.94	0.00	80.0	. 0 0 0′
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.71	74.71	19.00	2.23	80.0	± 9.6 %
		Y	6.73	76.43	19.76		80.0	
10512	LTC TDD (CC EDMA 4009/ DD 20	Z	6.00	75.21	19.25 17.95	2.23	80.0 80.0	+060/
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.97	70.47		2.23		± 9.6 %
		Y	5,59	71.60	18.54		80.0	
		Z	5.15	70.78	18.15		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.97	70.02	17.83	2.23	80.0	± 9.6 %
		Υ	5.54	71.04	18.38		80.0	
		Z	5.13	70.28	18.01		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	Х	0.91	62.31	13.57	0.00	150.0	± 9.6 %
		Y	0.96	63.34	14.68		150.0	
10-10		Z	0.92	62.52	13.87	0.00	150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.44	65.20	13,42	0.00	150.0	± 9.6 %
		Y	0.63	71.46	17.49		150.0 150.0	
10517	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Z	0.47 0.74	66.36 63.39	14.27 13.61	0.00	150.0	± 9.6 %
10517- AAA	Mbps, 99pc duty cycle)	Y	0.74	65.40	15.35	0.00	150.0	19.0 %
		Z	0.76	63.83	14.06		150.0	
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.45	66.67	15.90	0.00	150.0	± 9.6 %
		Υ	4.63	66.88	16.20		150.0	
		Z	4.52	66,69	16.01		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	Х	4.63	66.90	16.03	0.00	150.0	± 9.6 %
		\	4.84	67.17	16.34		150.0	
10.555	1555 000 14 11 11 15 15 15 15	Z	4.72	66.95	16.14	0.00	150.0	1
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.48	66.84	15.93 16.27	0.00	150.0 150.0	± 9.6 %
		Z	4.69 4.56	66.89	16.27		150.0	-
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.41	66.82	15.91	0.00	150.0	±9.6 %
		Y	4.62	67.15	16.25		150.0	
		Z	4.50	66.88	16.04		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	Х	4.47	66.93	16.01	0.00	150.0	± 9.6 %
		Υ	4.67	67.14	16.29		150.0	
		Z	4.56	66.96	16.12		150.0	

10523- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.35	66.79	15.85	0.00	150.0	± 9.6 %
,		Y	4.54	67.03	16.15	 	150.0	
		Z	4.43	66.81	15.95		150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	Х	4.41	66.84	15.97	0.00	150.0	± 9.6 %
		Y	4.62	67.10	16.28		150.0	
		Z	4.50	66.88	16.08		150.0	
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	Х	4.40	65.89	15.57	0.00	150.0	± 9.6 %
***************************************		Y	4.58	66.12	15.86		150.0	
10526-	IEEE 000 44cc W/IE: (00MI - MOO4	Z	4.48	65.92	15.67		150.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.56	66.24	15.71	0.00	150.0	± 9.6 %
············		Y	4.78	66.52	16.01		150.0	
10527-	IEEE 802.11ac WiFi (20MHz, MCS2,	Z	4.65	66.29	15.82		150.0	ļ
AAB	99pc duty cycle)	X	4.48	66.19	15.64	0.00	150.0	± 9.6 %
		Y Z	4.69	66.49	15.96	ļ	150.0	
10528-	IEEE 802.11ac WiFi (20MHz, MCS3,	X	4.57 4.50	66.24 66.21	15.76	0.00	150.0	10000
AAB	99pc duty cycle)	^ Y	4.50	66.51	15.67	0.00	150.0	± 9.6 %
		Z	4.71		15.99		150.0	
10529-	IEEE 802.11ac WiFi (20MHz, MCS4,	X	4.59	66.26	15.79	0.00	150.0	
AAB	99pc duty cycle)	Y	4.71	66.21	15.67	0.00	150.0	±9.6%
		Z	4.71	66.26	15.99 15.79		150.0	ļ
10531-	IEEE 802.11ac WiFi (20MHz, MCS6,	X	4.48	66.29		0.00	150.0	
AAB	99pc duty cycle)	Y		1	15.67	0.00	150.0	± 9.6 %
		Z	4.72	66.66	16.02		150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.58 4.35	66.37 66.14	15.80 15.60	0.00	150.0 150.0	± 9.6 %
		Y	4.57	66.52	15.96		150.0	
		Z	4.44	66.22	15.73		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	Х	4.51	66.26	15.66	0.00	150.0	± 9.6 %
		Υ	4.72	66.54	15.97		150.0	
		Z	4.60	66.30	15.77	······································	150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	Х	5.04	66.36	15.78	0.00	150.0	± 9.6 %
		Υ	5.23	66.67	16.05		150.0	
40505		Ζ	5.12	66.43	15.88		150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	Х	5.11	66.54	15.86	0.00	150.0	± 9.6 %
		Y	5.29	66.81	16.11		150.0	
10536-	IEEE 802.11ac WiFi (40MHz, MCS2,	Z	5.19	66.60	15.96		150.0	
AAB	99pc duty cycle)	X	4.98	66.48	15.81	0.00	150.0	± 9.6 %
		Y	5.16	66.79	16.08	<u> </u>	150.0	
10537-	IEEE 802.11ac WiFi (40MHz, MCS3,	Z	5.06	66.54	15.91		150.0	
AAB	99pc duty cycle)	X	5.04	66.45	15.80	0.00	150.0	± 9.6 %
		Y	5.23	66.77	16.07		150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.12 5.12	66.52 66.48	15.90 15.85	0.00	150.0 150.0	± 9.6 %
		Υ	5.34	66.84	16.15		150.0	
		Z	5.21	66.56	15.97		150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	x	5.06	66.49	15.87	0.00	150.0	± 9.6 %
-		Y	E 04	00.70	16.14			,
		1 1	5.24	66.78	16.14		150.0	

10541- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	Х	5.03	66.36	15.80	0.00	150.0	± 9.6 %
		Y	5.22	66.69	16.09		150.0	
		Ζ	5.11	66.43	15.91		150.0	
10542- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	Х	5.19	66.45	15.86	0.00	150.0	± 9.6 %
		Y	5.38	66.74	16.13		150.0	
		Z	5.27	66.51	15.96		150.0	
10543- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.26	66.49	15.90	0.00	150.0	± 9.6 %
		Y	5.46	66.76	16.15		150.0	
10544-	IFFE 000 44 pp W/IF: (00MHz MOCO	Z	5.35	66.56	16.01	0.00	150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.36	66.50	15.80	0.00	150.0	± 9.6 %
		Z	5.51 5.43	66.78	16.04		150.0	
10545-	IEEE 802.11ac WiFi (80MHz, MCS1,	X	5.55	66.56	15.89	0.00	150.0	1069/
AAB	99pc duty cycle)	^ Y		66.91	15.95	0.00	150.0 150.0	± 9.6 %
			5.72	67.18	16.18			
10546-	IEEE 802.11ac WiFi (80MHz, MCS2,	Z	5.63 5.42	66.98 66.69	16.05 15.85	0.00	150.0 150.0	1060/
AAB	99pc duty cycle)	Y	5.60	67.06	16.14	0.00	150.0	± 9.6 %
			5.50					
10547-	IEEE 802.11ac WiFi (80MHz, MCS3,	Z	5.49	66.79 66.74	15.97 15.87	0.00	150.0 150.0	± 9.6 %
AAB	99pc duty cycle)	Ŷ	5.69	67.14		0.00	150.0	±9.6 %
		$\frac{1}{Z}$	5.57	66.83	16.17 15.98		150.0	
10548-	IEEE 802.11ac WiFi (80MHz, MCS4,	$\frac{1}{X}$	5.71	67.58	16.27	0.00	150.0	± 9.6 %
AAB	99pc duty cycle)					0.00		19.0%
		Y	5.97	68.14	16.64		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	Z X	5.85 5.45	67.84 66.72	16.46 15.88	0.00	150.0 150.0	± 9.6 %
7010	oopo daty cycle)	Y	5.62	67.01	16.12		150.0	
		Z	5.52	66.78	15.98		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.45	66.76	15.86	0.00	150.0	± 9.6 %
		Υ	5.63	67.09	16.12		150.0	
		Z	5.53	66.83	15.96		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	Х	5.37	66.57	15.77	0.00	150.0	± 9.6 %
***************************************		Υ	5.54	66.86	16.03		150.0	
		Z	5.44	66.62	15.86		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	Х	5.45	66.60	15.82	0.00	150.0	± 9.6 %
		Y	5.63	66.92	16.08		150.0	
10001		Z	5.53	66.67	15.92		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	Х	5.77	66.88	15.90	0.00	150.0	± 9.6 %
	1	Y	5.91	67.16	16.14	-	150.0	
40555	IEEE 000 445 - MEE: (400) 41 - MOC4	Z	5.83	66.94	15.99		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.89	67.17	16.02	0.00	150.0	± 9.6 %
		Y	6.05	67.48	16.27		150.0	
10556-	IEEE 802.11ac WiFi (160MHz, MCS2,	X	5.97 5.91	67.24 67.21	16.12 16.04	0.00	150.0 150.0	± 9.6 %
AAC	99pc duty cycle)	Y	6.07	67.50	16.28		150.0	
		Z	6.07 5,99	67.29	16.14	-	150.0 150.0	
10557-	IEEE 802.11ac WiFi (160MHz, MCS3,	$\frac{1}{X}$	5.88	67.11	16.14	0.00	150.0	± 9.6 %
AAC	99pc duty cycle)							
		Υ	6.05	67.46	16.28		150.0	
	<u> </u>	Z	5.96	67.20	16.11		150.0	

10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.92	67.27	16.10	0.00	150.0	± 9.6 %
		Y	6.11	67.65	16.38	 	150.0	
		Z	6.01	67.37	16.21	***	150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	Х	5.92	67.13	16.07	0.00	150.0	± 9.6 %
		Y	6.10	67.49	16.34		150.0	
		Z	6.00	67.22	16.18		150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.85	67.10	16.09	0.00	150.0	± 9.6 %
		Y	6.02	67.44	16.36		150.0	
40500		Z	5.92	67.18	16.20		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	Х	5.95	67.44	16.26	0.00	150.0	±9.6 %
		Y	6.17	67.91	16.60		150.0	
40500	IFFE COO 44 MINE (400 MINE)	Z	6.06	67.60	16.40		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	Х	6.12	67.56	16.28	0.00	150.0	± 9.6 %
		Υ	6.49	68.42	16.80		150.0	
40504	ICEE 000 44 JAMES 0 4 DAY (DODE	Z	6.36	68.10	16.61		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	4.79	66.81	16.11	0.46	150.0	± 9.6 %
···		Y	4.97	67.04	16.41		150.0	
10505		Z	4.86	66.83	16.22		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	5.01	67.24	16.43	0.46	150.0	±9.6%
		Υ	5.23	67.50	16.72		150.0	
10-00		Z	5.10	67.28	16.54		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	4.84	67.08	16.24	0.46	150.0	± 9.6 %
		Υ	5.06	67.38	16,56		150.0	
		Z	4.93	67.13	16.35		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	4.87	67.44	16.58	0.46	150.0	±9.6 %
		Υ	5.08	67.73	16.87		150.0	
		Z	4.96	67.49	16.69		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	4.76	66.89	16.03	0.46	150.0	± 9.6 %
		Υ	4.98	67.15	16.34		150.0	
		Z	4.85	66.93	16.14		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	Х	4.83	67.56	16.65	0.46	150.0	± 9.6 %
		Y	5.02	67.75	16.89		150.0	
400		Z	4.91	67.57	16.74		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	Х	4.86	67.40	16.58	0.46	150.0	± 9.6 %
		Y	5.07	67.61	16.84		150.0	
10571	IEEE 000 441 INJECT COLUMN	Z	4.95	67.42	16.68		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.23	64.77	15.07	0.46	130.0	± 9.6 %
		Y	1.36	66.29	16.29		130,0	
40570	IETE 000 data Mileton de la companya	Z	1.26	65.09	15.40		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.25	65.30	15.38	0.46	130.0	± 9.6 %
		Υ	1,39	66.93	16.65		130.0	
40570		Z	1.28	65.66	15.73		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	1.67	78.46	19.14	0.46	130.0	± 9.6 %
		Υ	5.69	97.67	26.24		130.0	
40574	IEEE 000 441 WIELD 1 DIE IEEE	Ζ	2.12	82.08	20.66		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	Х	1.35	70.14	17.64	0.46	130.0	±9.6 %
J.D.1		Y	1.67	73.70	19.74		130.0	
		Ż	1.07		IO.14		130.0	

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.61	66.70	16.21	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)	1						
		Y	4.80	66.93	16.52		130.0	
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.68	66.72	16.32		130.0	
AAA	OFDM, 9 Mbps, 90pc duty cycle)	X	4.63	66.85	16.27	0.46	130.0	± 9.6 %
		Y	4.82	67.07	16.57		130.0	
10577-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.71	66.87	16.38		130.0	
AAA	OFDM, 12 Mbps, 90pc duty cycle)	X	4.82	67.13	16.44	0.46	130.0	± 9.6 %
		Y	5.05	67.39	16.75		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.91 4.72	67.17 67.27	16.55 16.53	0.46	130.0 130.0	± 9.6 %
	or bing to mobe, cope daty cycle)	Y	4.94	67.55	16.83		130.0	
*****		Ż	4.81	67.32	16.64		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.50	66.59	15.86	0.46	130.0	± 9.6 %
		Y	4.73	66.98	16.24		130.0	
		Z	4.59	66.66	15.99		130.0	<u> </u>
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	Х	4.54	66.63	15.89	0.46	130.0	± 9.6 %
		Υ	4.77	66.95	16.24		130.0	******
		Z	4.63	66.68	16.01		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.63	67.32	16.48	0.46	130.0	± 9.6 %
		Υ	4.85	67.63	16.79		130.0	
40500	JEEE 000 44 MIET 0 4 OU 4 POOG	Z	4.71	67.36	16.59		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.44	66,35	15.65	0.46	130.0	± 9.6 %
		Y	4.68	66.75	16.05		130.0	
10583-	JEEE 000 44-% WEE C OUT OF DIA 0	Z	4.53	66.43	15.79		130.0	
AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.61	66.70	16.21	0.46	130.0	± 9.6 %
		Y	4.80	66.93	16.52		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	Z X	4.68 4.63	66.72 66.85	16.32 16.27	0.46	130.0 130.0	± 9.6 %
	mape, cope day eyere)	Y	4.82	67.07	16.57		130.0	
		Ż	4.71	66.87	16.38		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.82	67.13	16.44	0.46	130.0	± 9.6 %
		Υ	5.05	67.39	16.75		130.0	
		Z	4.91	67.17	16.55		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.72	67.27	16.53	0.46	130.0	± 9.6 %
		Υ	4.94	67.55	16.83		130,0	
40507	IEEE 000 44 - 5 Mart E OV. (OFFICE	Z	4.81	67.32	16.64		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.50	66.59	15.86	0.46	130.0	±9.6%
		Y	4.73	66.98	16.24		130.0	
10588-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36	Z	4.59	66.66	15.99	0.40	130.0	
AAB	Mbps, 90pc duty cycle)		4.54	66.63	15.89	0.46	130.0	± 9.6 %
		Y Z	4.77 4.63	66.95	16.24 16.01		130.0	·····
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.63	66.68 67.32	16.48	0.46	130.0 130.0	± 9.6 %
·		Y	4.85	67.63	16.79		130.0	
		Z	4.71	67.36	16.59		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.44	66.35	15.65	0.46	130.0	± 9.6 %
		Υ	4.68	66.75	16.05		130.0	-
		Z	4.53	66.43	15.79		130.0	

10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.76	66.76	16.32	0.46	130.0	± 9.6 %
		Y	4.94	66.97	16.60		130.0	
		Ż	4.83	66.78	16.42		130.0	
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.90	67.08	16.45	0.46	130.0	±9.6%
		Υ	5.12	67.31	16.72		130.0	
		Z	4.99	67.11	16.55		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.82	66.99	16.32	0.46	130,0	±9.6%
		Υ	5.05	67.27	16.64		130.0	
····		Z	4.91	67.03	16.44		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	Х	4.88	67.15	16.48	0.46	130.0	± 9.6 %
		Y	5.10	67.41	16.77		130.0	
40505	JEEE 000 44- (UT M) J. COM	Z	4.97	67.19	16.59		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.85	67.11	16.38	0.46	130.0	±9.6%
***************************************		Y	5.07	67.38	16.68		130.0	
10500	IEEE 000 44- (UT No 1 CONT.)	Z	4.94	67.14	16.49		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.78	67.10	16.38	0.46	130.0	± 9.6 %
		Y	5.01	67.39	16.68		130.0	
10597-	IEEE 802.11n (HT Mixed, 20MHz,	Z X	4.87	67.15	16.49	6.45	130.0	
AAB	MCS6, 90pc duty cycle)		4.73	67.00	16.26	0.46	130.0	± 9.6 %
		Y	4.96	67.33	16.59		130.0	
10598-	IEEE 900 14s (UT Missed 20MI)	Z	4.82	67.06	16.38	0.10	130.0	
AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	Х	4.72	67.22	16.51	0.46	130.0	± 9.6 %
		Y	4.94	67.55	16.83		130.0	
40500		Z	4.80	67.28	16.63		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	Х	5.42	67.30	16.55	0.46	130.0	± 9.6 %
,		Y	5.61	67.56	16.80		130.0	
40000	155500011 (15500	Z	5.49	67.33	16.64		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.55	67.70	16.72	0.46	130.0	±9.6%
		Y	5.79	68.09	17.04		130.0	
40004		Z	5.65	67.82	16.85		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.44	67.45	16.61	0.46	130.0	± 9.6 %
		Y	5.65	67.77	16.89		130.0	
10000	ACTE COO 44 - 44T M I ACMI	Z	5.53	67.53	16.73		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.54	67.51	16.57	0.46	130.0	± 9.6 %
		Y	5.74	67.78	16.82		130.0	
10603-	IFFE 900 44 - (UT Mixed 40MH-	Z	5.62	67.54	16.66		130.0	
AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.61	67.77	16.83	0,46	130.0	± 9.6 %
		Y	5.83	68.07	17.09		130.0	
10604-	IEEE 802.11n (HT Mixed, 40MHz,	Z	5.70	67.85	16.93		130.0	
AAB	MCS5, 90pc duty cycle)	X	5.45	67.33	16.59	0.46	130.0	± 9.6 %
		Y	5.61	67.51	16.80		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	Z X	5.50 5.54	67.29 67.60	16.64 16.73	0.46	130.0 130.0	± 9.6 %
sher	oo, oope duty eyde)	Y	5.71	67.82	16.96		120.0	
***************************************		Z	5.62	67.65	16.83		130.0	·····
10606-	IEEE 802.11n (HT Mixed, 40MHz,	X	5.28	66.92	16.83	0.46	130.0	+000
AAB	MCS7, 90pc duty cycle)					0.46	130.0	± 9.6 %
			5.50	67.32	16.58		130.0	
		Z	5.38	67.07	16.40		130.0	

10607-	IEEE 802.11ac WiFi (20MHz, MCS0,	Х	4.59	66.03	15.92	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	 		<u> </u>	1	ļ	ļ	
		Y	4.77	66.25	16.20		130.0	
10608-	IEEE 802.11ac WiFi (20MHz, MCS1,	Z X	4.66	66.05	16.02	0.40	130.0	
AAB	90pc duty cycle)		4.76	66,42	16.08	0.46	130.0	± 9.6 %
		Y	4.98	66.67	16.36		130.0	******
10609-	IEEE 000 44 - MUE: (00ML MOOR	Z	4.85	66.45	16.18		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.65	66.26	15.92	0.46	130.0	± 9.6 %
hA		Y	4.87	66.56	16.23		130.0	
10610-	IEEE 000 44 MIEL (00MH MOOO	Z	4.74	66.31	16.03		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.70	66.42	16.08	0.46	130.0	± 9.6 %
		Y	4.92	66.71	16.38		130.0	
10611	IEEE 000 44 INIE! (00MH- MOOA	Z	4.79	66.46	16.19		130.0	
10611- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.62	66.23	15.93	0.46	130.0	± 9.6 %
***************************************		Y	4.85	66.54	16.25		130.0	
40040	IEEE 000 44 - 14/E1 (000 11)	Z	4.71	66.28	16.04		130.0	
10612- AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	Х	4.63	66.38	15.97	0.46	130.0	± 9.6 %
		Y	4.86	66.70	16.29		130.0	
40040	IEEE OOO 44 - WEEL OOS III	Z	4.72	66.43	16.08	<u></u>	130.0	
10613- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.63	66.26	15.85	0.46	130.0	± 9.6 %
		Υ	4.88	66.63	16.20		130.0	
40044		Z	4.73	66.34	15.98		130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.57	66.43	16.07	0.46	130.0	± 9.6 %
		Υ	4.80	66.78	16.40		130.0	
		Z	4.66	66.50	16.19		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.62	66.08	15.71	0.46	130.0	± 9.6 %
		Y	4.85	66.39	16.04		130.0	
		Z	4.71	66.12	15.83		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	Х	5.23	66.50	16.13	0.46	130.0	±9.6 %
		Y	5.42	66.79	16.39		130.0	
		Z	5.31	66.56	16.23		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.30	66.69	16.20	0.46	130.0	± 9.6 %
***		Y	5.47	66.89	16.41		130.0	
		Z	5.37	66.73	16.29		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.18	66.68	16.21	0.46	130.0	± 9.6 %
		Y	5.37	66.96	16.46		130.0	
		Z	5.26	66.73	16.30		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.20	66.49	16.05	0.46	130.0	± 9.6 %
		Υ	5.40	66.81	16.33		130.0	
		Z	5.29	66.58	16.16		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5,28	66.53	16.12	0.46	130.0	± 9.6 %
		Υ	5.51	66.90	16.42		130.0	
		Z	5.38	66.62	16.24		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.29	66.66	16.30	0.46	130.0	± 9.6 %
		Y	5.48	66.94	16.55		130.0	
		Z	5.37	66.71	16.39		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	Х	5.30	66.81	16.37	0.46	130.0	± 9.6 %
		Y	5.48	67.05	16.60		130.0	
		Z	5.38	66.87	16.47		130.0	

10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	Х	5.18	66.36	16.02	0.46	130.0	± 9.6 %
		Y	5.37	66.67	16.30		130.0	
		Z	5.26	66.42	16.12		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	Х	5.37	66.56	16.19	0.46	130.0	± 9.6 %
		Υ	5.56	66.83	16.44		130.0	
		Z	5.45	66.62	16.29		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.70	67.43	16.67	0.46	130.0	± 9.6 %
		Y	5.96	67.86	17.00		130.0	
10626-	IEEE 000 11 MITT (ORMAL MOOR	Z	5.85	67.68	16.87		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	Х	5.53	66.58	16,10	0.46	130.0	± 9.6 %
		Y	5.67	66.83	16.33		130.0	
10007	IEEE 000 44 MEE (00MH III MOOA	Z	5.59	66.62	16.19	0.40	130.0	5.5.0
10627- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.76	67.13	16.34	0.46	130.0	± 9.6 %
***			5.92	67.36	16.55	L	130.0	
40000	IEEE 000 44 - MEET (OOLUL MOOO	Z	5.84	67.20	16.44		130.0	
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	Х	5.55	66.65	16.04	0.46	130.0	± 9.6 %
		Y	5.74	67.01	16.32	<u> </u>	130.0	
40000	IFFE 660 14 MURI (COLUMN MAGE)	Z	5.64	66.75	16.15		130.0	
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	Х	5.63	66.70	16.06	0.46	130.0	± 9.6 %
***************************************		Y	5.82	67.06	16,34		130.0	
40000	1555 000 44 MG51 (001411 - MOO4	Z	5.73	66.85	16.20		130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	Х	6.02	68.08	16.75	0.46	130.0	±9.6 %
		Υ	6.35	68.81	17.22		130.0	
10001		Z	6.21	68.47	17.01		130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	Х	5.93	67.91	16.85	0.46	130.0	± 9.6 %
		Υ	6.22	68.49	17.23		130.0	
40000		Z	6.07	68.13	17.02		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	Х	5.73	67.18	16.51	0.46	130.0	± 9.6 %
		Υ	5.89	67.41	16.70		130.0	
		Z	5.80	67.23	16.59		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.62	66.81	16.15	0.46	130,0	±9.6%
		Υ	5.83	67.22	16.45		130.0	
		Z	5.70	66.89	16.25		130.0	
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	Х	5.60	66.83	16.22	0,46	130.0	±9.6%
		Y	5.80	67.20	16.49		130.0	
40005	TEE 000 44 NATE 150	Z	5.68	66.91	16.32		130.0	
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.49	66.20	15.64	0.46	130.0	± 9.6 %
···		Y	5.70	66.62	15.97		130.0	
40000		Z	5.57	66.30	15.76		130.0	
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	Х	5.94	66.94	16.20	0.46	130.0	±9.6 %
		Y	6.08	67.21	16.43		130.0	
4000=	LEEE 000 44	Z	6.01	67.01	16.29		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.09	67.31	16.37	0.46	130.0	± 9.6 %
		Y	6.25	67.59	16.60		130.0	
40000		Z	6.17	67.39	16.47		130.0	
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	Х	6.09	67.29	16.33	0.46	130.0	± 9.6 %
		Υ	6.24	67.57	16.56		130.0	
		Z	6.16	67.36	16.43		130.0	

10639-	IEEE 802.11ac WiFi (160MHz, MCS3,	X	6.07	67.23	16.35	0.46	130.0	± 9.6 %
AAC	90pc duty cycle)	 	0.04	<u> </u>	1.5.			
		Y	6.24	67.58	16.61		130.0	
10640-	IEEE 802.11ac WiFi (160MHz, MCS4,	Z X	6.15	67.32	16.46		130.0	
AAC	90pc duty cycle)		6.07	67.24	16.30	0.46	130.0	± 9.6 %
		Y	6.27	67.66	16.60		130.0	
10011	1555.000.14	Z	6.16	67.36	16.42		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	Х	6.12	67.17	16.28	0.46	130.0	± 9.6 %
		Y	6.27	67.42	16.50		130.0	
10642-	IEEE 000 44 WIE: (400) NI MOOO	Z	6.19	67.22	16.37		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.15	67.40	16.56	0.46	130.0	± 9.6 %
		Y	6.33	67.71	16.80		130.0	
10643-	IEEE 000 44 MIEI (400 MIL MOOT	Z	6.23	67.48	16.66		130.0	
AAC AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.00	67.10	16.31	0.46	130.0	± 9.6 %
		Y	6.17	67.42	16.57		130.0	
10644	JEET 900 44 a - 14001 11 - 14001	Z	6.07	67.18	16.41		130.0	
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.14	67.54	16.55	0.46	130.0	± 9.6 %
		Y	6.39	68.09	16.93		130.0	
10645-	IFFE 000 44 M/F) (4004 B) - 145 5 5	Z	6.25	67.74	16.71		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.37	67.87	16.68	0.46	130.0	± 9.6 %
		Υ	6.75	68.70	17.18		130.0	
40040	LITE TOD (OO ED) II A DO DO	Z	6.71	68.64	17.12		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Х	52.73	128.49	41.99	9.30	60.0	± 9.6 %
		Y	32.04	112.77	37.15		60.0	
			46.55	124.28	40.70		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	Х	50.70	128.57	42.19	9.30	60.0	± 9.6 %
		Υ	33.96	114.91	37.91		60.0	
		Z	46.47	125.17	41.11		60.0	
10648- AAA	CDMA2000 (1x Advanced)	Х	0.58	61.87	9.06	0.00	150.0	± 9.6 %
		Υ	0.76	64.26	11.57		150.0	
		Z	0.64	62.51	9.86		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	4.10	68.19	16.78	2.23	80.0	± 9.6 %
		Υ	4.52	68.90	17.43		80.0	
		Z	4.21	68.32	17.00		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	Х	4.60	67.52	16.98	2.23	80.0	±9.6 %
		Υ	4.98	68.15	17.48		80.0	
400=1	L.T. TDD (OFFICE	Z	4.71	67.63	17.14		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	Х	4.57	67.19	17.00	2.23	80.0	± 9.6 %
		Y	4.91	67.83	17.47		80.0	
40000	LTC TDD (OFD) A COLOR	Z	4.66	67.30	17.15		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.63	67.17	17.04	2.23	80.0	± 9.6 %
		Υ	4.97	67.86	17.52		80.0	
40000	D. I. M. C. (COC)	Z	4.72	67.30	17.19		80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	Х	21.51	94.36	24.67	10.00	50.0	± 9.6 %
		Υ	11.91	84.74	23.00		50.0	
400		Z	18.15	91.90	24.27		50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	Х	100.00	114.14	28.15	6.99	60.0	± 9.6 %
		Υ	26.50	98.27	25.77		60.0	
		Z	100.00	115.09	28.80		60.0	

10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	111.33	25.43	3.98	80.0	± 9.6 %
		Υ	100.00	115.92	28.23		80.0	
		Z	100.00	112.30	26.01		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	Х	100.00	110.55	23.78	2.22	100.0	±9.6%
		Υ	100.00	116.59	27.01		100.0	
		Z	100.00	111.76	24.43		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	Х	100.00	108.74	21.34	0.97	120.0	±9.6 %
***************************************		Υ	100.00	120.28	26.61		120.0	
		Z	100.00	110.89	22.32		120.0	

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

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





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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

PC Test

Certificate No: ES3-3287_Sep17

CALIBRATION CERTIFICATE

Object

ES3DV3 - SN:3287

Calibration procedure(s)

QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes 10/03/2017

Calibration date:

September 18, 2017

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

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

Calibration Equipment used (M&TE critical for calibration)

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

Calibrated by:

Name Leif Klysner Function

Laboratory Technician

Signature

Approved by:

Katja Pokovic

Technical Manager

Issued: September 19, 2017

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

Certificate No: ES3-3287_Sep17

Page 1 of 38

Calibration Laboratory of

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





Schweizerischer Kalibrierdienst S

Service suisse d'étalonnage

C Servizio svizzero di taratura **Swiss Calibration Service**

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Glossary:

TSL

tissue simulating liquid

NORMx,y,z

sensitivity in free space

ConvF DCP

sensitivity in TSL / NORMx,y,z

CF

diode compression point

crest factor (1/duty_cycle) of the RF signal

A, B, C, D

modulation dependent linearization parameters

Polarization ϕ

φ rotation around probe axis

Polarization &

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

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

Connector Angle

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

Calibration is Performed According to the Following Standards:

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

b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016

c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

NORMx,y,z: Assessed for E-field polarization $\vartheta = 0$ (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).

 $NORM(f)x,y,z = NORMx,y,z * frequency_response$ (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included

in the stated uncertainty of ConvF.

DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.

PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics

Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.

ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \le 800 \text{ MHz}$) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from \pm 50 MHz to \pm 100

Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.

Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No: ES3-3287_Sep17

Page 2 of 38

Probe ES3DV3

SN:3287

Manufactured:

June 7, 2010

Calibrated:

September 18, 2017

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Basic Calibration Parameters

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

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	191.5	±3.3 %
		Y	0.0	0.0	1.0		198.9	
<u></u>		Z	0.0	0.0	1.0		180.8	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

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

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

Numerical linearization parameter: uncertainty not required.

Certificate No: ES3-3287_Sep17

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

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

Calibration Parameter Determined in Head Tissue Simulating Media

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

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

validity can be extended to ± 110 MHz.

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

the ConvF uncertainty for indicated target tissue parameters.

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

Calibration Parameter Determined in Body Tissue Simulating Media

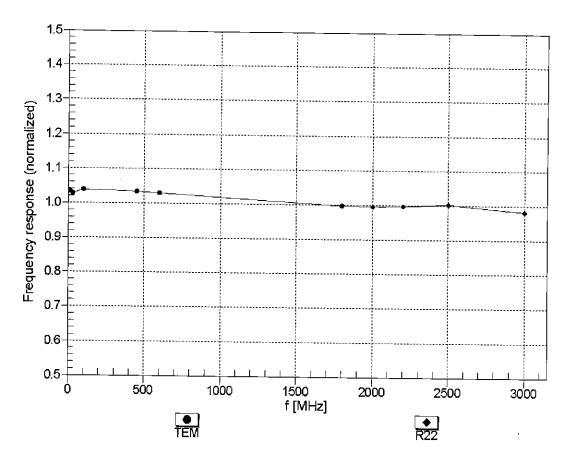
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	6.71	6.71	6.71	0.45	1.38	± 12.0 %
835	55.2	0.97	6.56	6.56	6.56	0.80	1.05	± 12.0 %
1750	53.4	1.49	5.19	5.19	5.19	0.37	1.73	± 12.0 %
1900	53.3	1.52	5.00	5.00	5.00	0.47	1.51	±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

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

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

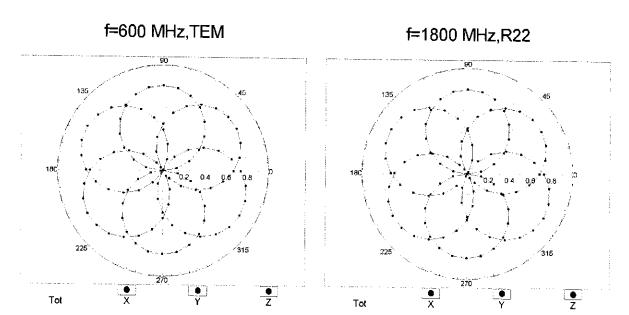
⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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

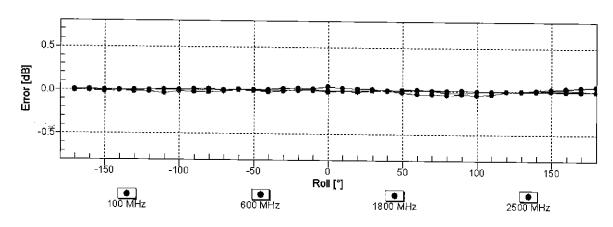
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

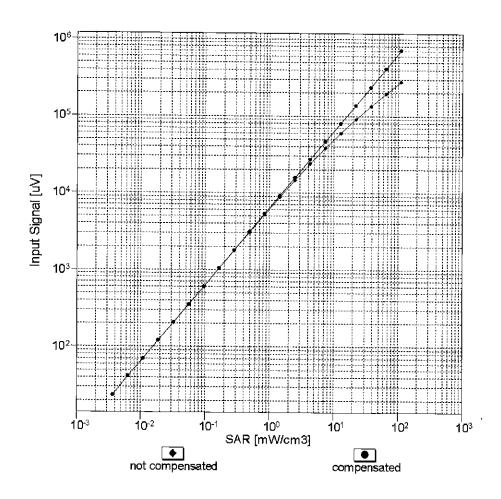
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

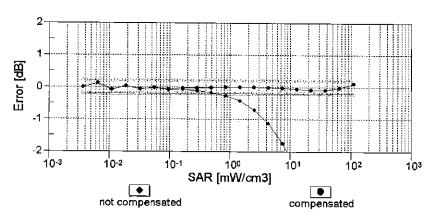




Uncertainty of Axial Isotropy Assessment: \pm 0.5% (k=2)

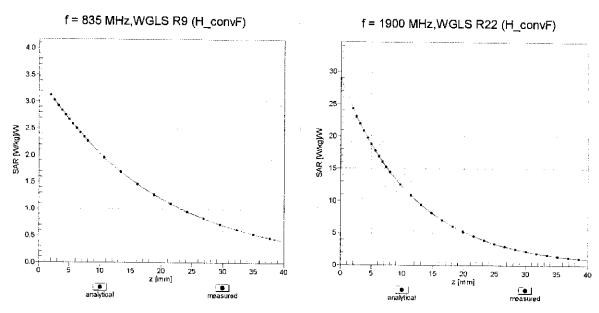
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



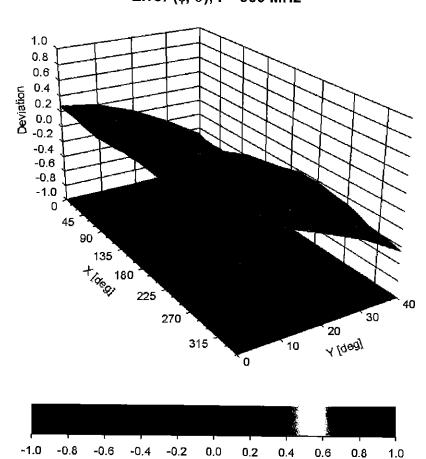


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



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



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

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	89.6
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D d B	VR mV	Max Unc ^E (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	191.5	± 3.3 %
		Υ	0.00	0.00	1.00		198.9	2 0.0 /0
		Z	0.00	0.00	1.00		180.8	_
10010- CAA	SAR Validation (Square, 100ms, 10ms)	Х	10.31	82.54	19.92	10.00	25.0	± 9.6 %
		Y	9.70	81.57	20.65		25.0	
		Z	13.02	86.61	21.44		25.0	
10011- CAB	UMTS-FDD (WCDMA)	Х	1.65	76.64	20.39	0.00	150.0	± 9.6 %
		Y	1.11	68.31	15.89		150.0	
10012-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	Z X	1.20 1.42	70.53	17.08	0.44	150.0	
CAB	Mbps)	Y		67.62	17.77	0.41	150.0	± 9.6 %
		Z	<u>1.35</u> 1.35	65.44	16.09		150.0	
10013-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X		66.18	16.60	4.40	150.0	. 0 0 8/
CAB	OFDM, 6 Mbps)	Y	5.13	67.63	17.69	1.46	150.0	± 9.6 %
		Z	5.21 5.05	67.37 67.67	17.49		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	36.11	104.66	17.63 28.70	9.39	150.0 50.0	± 9.6 %
		Y	17.06	92.75	26.26		50.0	
		Ż	74.47	117.68	32.39		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	29.01	100.99	27.69	9.57	50.0	± 9.6 %
	-	Y	15.70	91,12	25.76		50.0	
	-	Z	50.86	111.27	30.76		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	Х	100.00	118.25	30.37	6.56	60.0	± 9.6 %
·		Υ	79.14	117.46	31.45		60.0	-
		Z	100.00	119.51	30.92		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	18.01	104.77	39.73	12.57	50.0	± 9.6 %
		Y	13.85	93.70	35.01		50.0	
		Z	19.28	108.70	41.83		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Х	22.37	106.73	36.71	9.56	60.0	± 9.6 %
		Y	15.21	95.13	32.50		60.0	
10007	CDDC EDD (TDMA CMOK TN 0.4.0)	Z	23.85	109.99	38.29	4.55	60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	117.60	29.16	4.80	80.0	± 9.6 %
		Y_	100.00	119.86	30.73		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00 100.00	118.96 118.56	29.76 28.79	3.55	80.0 100.0	± 9.6 %
		Y	100.00	119.98	29.90	 	100.0	
		Ż	100.00	119.90	29.38		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	14.79	97.42	32.53	7.80	80.0	± 9.6 %
		Υ	11.52	89.75	29.55		80.0	
		Z	14.18	97.61	32.99		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	116.89	29.16	5.30	70.0	± 9.6 %
		Υ	100.00	119.53	30.94		70.0	
		Z	100.00	118.05	29.66		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Х	100.00	122.60	28.99	1.88	100.0	± 9.6 %
		Υ_	100.00	121.51	28.91	_	100.0	
	İ	Z	100.00	122.48	28.93		100.0	

10032-	IEEE 902 15 1 Blustooth (CECK DUS)	т 	T-400 00	T				-
CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	133.16	32.27	1.17	100.0	± 9.6 %
		Y	100.00	126.43	29.83		100.0	
10033-	IEEE COO 45 4 PL	Z	100.00	130.02	30.96		100.0	
CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	×	32.57	106.74	29.49	5.30	70.0	± 9.6 %
		Y	13.39	91.56	25.42		70.0	
40004		<u> Z</u>	28.98	104.37	28.55		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	45.93	114.88	30.10	1.88	100.0	± 9.6 %
		<u> </u>	7.50	87.12	22.45		100.0	
10035-	IEEE 000 45 4 Pl	Z	20.04	100.44	25.46		100.0	
CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	21.96	105.92	27.68	1.17	100.0	± 9.6 %
		Y	4.51	81.47	20.26		100.0	
10036-	JEEE COO AE A DI LA LA LA COMPANIA	Z	9.42	91.44	22.56		100.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	45.23	112.33	31.05	5.30	70.0	± 9.6 %
		Y	15.39	94.09	26.30		70.0	
10007	IFFE 000 45 4 PL	Z	38.95	109.34	29.96		70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	×	39.94	112.82	29.55	1.88	100.0	± 9.6 %
		Υ	7.15	86.45	22.19		100.0	
48000		Z	17.08	98.28	24.84		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	24.74	108.13	28.38	1.17	100.0	± 9.6 %
		Ϋ́	4.66	82.21	20.61		100.0	
10000		Z	9.87	92.45	22.99		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	X	7.01	92.94	24.21	0.00	150.0	± 9.6 %
		Υ	2.15	73.76	17.15		150.0	
		Z	2.61	77.73	17.80		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	Х	100.00	117.06	30.06	7.78	50.0	± 9.6 %
		Υ	33.54	102.85	27.66		50.0	-
		Z	100.00	118.08	30.50		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Х	0.00	127.60	2.39	0.00	150.0	± 9.6 %
		Y	0.00	96.78	0.00		150.0	
		Z	0.01	122.93	2.94		150.0	
10048- * CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	13.06	86.13	24.73	13.80	25.0	± 9.6 %
		Y	11.09	82.14	24.36		25.0	
		Z	16.17	90.99	26.57		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	16.50	91.24	25.09	10.79	40.0	± 9.6 %
		Υ	12.58	86.37	24.53		40.0	
40050		Ζ	22.30	97.25	27.17		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	15.28	90.62	25.52	9.03	50.0	± 9.6 %
		Υ	11.72	85.08	24.19		50.0	 _
			47.40	93.38	26.42		50.0	
10050	FDOE FDD.	Z	17.40	<u> </u>	20.72			
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	Х	10.69	91.04	29.62	6.55	100.0	± 9.6 %
	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	9.07			6.55	100.0	± 9.6 %
DAC	,	X Y Z	9.07 9.88	91.04 85.67 90.10	29.62	6.55		± 9.6 %
	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	Y Z X	9.07 9.88 1.68	91.04 85.67 90.10 70.66	29.62	0.61	100.0	± 9.6 % ± 9.6 %
DAC 10059-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	X Y Z X	9.07 9.88 1.68	91.04 85.67 90.10 70.66 67.69	29.62 27.37 29.57		100.0 100.0 100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X Y Z X Y	9.07 9.88 1.68 1.55 1.56	91.04 85.67 90.10 70.66	29.62 27.37 29.57 19.16		100.0 100.0 100.0 110.0	
DAC 10059-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	X Y Z X Y Z X	9.07 9.88 1.68	91.04 85.67 90.10 70.66 67.69	29.62 27.37 29.57 19.16		100.0 100.0 100.0 110.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	X Y Z X Y	9.07 9.88 1.68 1.55 1.56	91.04 85.67 90.10 70.66 67.69 68.66	29.62 27.37 29.57 19.16 17.16 17.81	0.61	100.0 100.0 100.0 110.0	± 9.6 %

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	54.02	125.97	35.38	2.04	110.0	± 9.6 %
		Y	8.96	93.29	26.14		110.0	
		Ż	19.56	108.50	30.84		110.0	
10062- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	Х	4.87	67.49	17.06	0.49	100.0	± 9.6 %
		Υ	4.91	67.10	16.78		100.0	
·		Z	4.75	67.38	16.89		100.0	
10063- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.91	67,64	17.19	0.72	100.0	± 9.6 %
		Υ	4.96	67.27	16.93		100.0	
		Z	4.80	67.55	17.03		100.0	
10064- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.22	67.92	17.42	0.86	100.0	± 9.6 %
		Y	5.29	67.61	17.19		100.0	
		Z	5.08	67.80	17.26		100.0	
10065- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	5.13 ——-	67.94	17.58	1.21	100.0	± 9.6 %
		Υ	5.21	67.67	17.37		100.0	
		Z	5.00	67.84	17.45		_ 100.0	
10066- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	Х	5.18	68.06	17.79	1.46	100.0	± 9.6 %
		Υ	5.27	67.81	17.60		100.0	
		Z	5.05	67.98	17.68		100.0	
10067- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.49	68.19	18.21	2.04	100.0	± 9.6 %
		Y	5.60	67.98	18.05		100.0	
•		Z	5.39	68.30	18.20		100.0	
10068- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.62	68.50	18.55	2.55	100.0	± 9.6 %
		Y	5.76	68.37	18.43		100.0	
		Z	5.50	68.48	18.50		100.0	
10069- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	Х	5.69	68.44	18.72	2.67	100.0	± 9.6 %
		Υ	5.84	68.31	18.60		100.0	
		Z	5.58	68.54	18.73		100.0	
10071- CAB	IEEE 802.11g WiFi 2,4 GHz (DSSS/OFDM, 9 Mbps)	Х	5.27	67.84	18.05	1.99	100.0	± 9.6 %
		Y	5.37	67.63	17.89		100.0	
		Z	5.20	67.92	18.02		100.0	
10072- CAB	JEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	Х	5.34	68.42	18.38	2.30	100.0	± 9.6 %
		Υ	5.45	68.23	18.22		100.0	
		Z	5.25	68.45	18.35		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	Х	5.47	68.76	18.79	2.83	100.0	± 9.6 %
		Υ	5.61	68.62	18.66		100.0	
		Z	5.40	68.87	18.81		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	Х	5.51	68.83	19.02	3.30	100.0	± 9.6 %
		Y	5.66	68.73	18.92		100.0	
		Z	5.46	68.99	19.07		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	Х	5.65	69.27	19.49	3.82	90.0	±9.6 %
		Y	5.85	69.26	19.43		90.0	
		Z	5.60	69.37	19.53		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	Х	5.67	69.08	19.61	4.15	90.0	± 9.6 %
		Y	5.87	69.08	19.56		90.0	
-		Z	5.65	69.30	19.73		90.0	
10077-						•		
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.72	69.19	19.72	4.30	90.0	± 9.6 %
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)				19.72 19.67	4.30	90.0	± 9.6 %

10081- CAB	CDMA2000 (1xRTT, RC3)	X	2.28	81.48	20.27	0.00	150.0	± 9.6 %
		Y	1.00	67.64	14.10	-	150.0	
		Z	1.04	69.66	14.21	T	150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	2.13	64.08	8.83	4.77	80.0	±9.6 %
		Υ	2.57	65.34	10.16		80.0	
		Z	2.13	64.35	9.02		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	118.32	30.42	6.56	60.0	± 9.6 %
		Y	75.01	116.70	31.30		60.0	
10097-	LIMTS FDD (HSDDA)	Z	100.00	119.58	30.97		60.0	
CAB	UMTS-FDD (HSDPA)	X	2.20	71.50	18.09	0.00	150.0	± 9.6 %
		<u> Y</u>	1.90	67.97	16.04		150.0	
10098-	LIMTE EDD (HOURA O LL 10)	Z	1.97	69.50	16.62		150.0	
CAB	UMTS-FDD (HSUPA, Subtest 2)	X	2.16	71.55	18.11	0.00	150.0	± 9.6 %
		Y	1.86	67.93	16.01	ļ	150.0	
10099-	EDGE-FDD (TDMA, 8PSK, TN 0-4)	Z	1.93	69.49	16.61	<u> </u>	150.0	
DAC	LUGL-POD (TDINIA, 6PSK, TN 0-4)	X	22.24	106.54	36.64	9.56	60.0	± 9.6 %
	 	Y	15.16	95.02	32.46		60.0	
10100-	LTE-FDD (SC-FDMA, 100% RB, 20	Z	23.72	109.80	38.22		60.0	
CAD	MHz, QPSK)	X	3.77	73.97	18.60	0.00	150.0	± 9.6 %
		1<	3.32	71.02	16.99	ļ	150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.27 3.50	71.57 69.24	17.41 17.00	0.00	150.0 150.0	± 9.6 %
	1 2 47 1117	TY	3.39	67.99	16.16	-	450.0	
		Z	3.29	68.22	16.35		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.59	69.07	17.02	0.00	150.0 150.0	± 9.6 %
		TY	3.49	67.92	16.24	 	150.0	
		Z	3.39	68.14	16.41		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	9.27	79.88	21.95	3.98	65.0	± 9.6 %
		Y	8.43	77.27	20.93	<u> </u>	65.0	
		Z	9.22	80.33	22.26		65.0	
10104 CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	8.81	77.80	21.97	3.98	65.0	± 9.6 %
		Y	8.62	76.41	21.37		65.0	
10105		Z	8.59	77.82	22.06		65.0	
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	8.19	76.36	21.65	3.98	65.0	± 9.6 %
	 	Y	7.71	74.18	20.67		65.0	
10108-	LITE FDD (DC FDMA 1000) FD	Z	7.86	76.00	21.56		65.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	3.29	73.14 	18.47	0.00	150.0	± 9.6 %
		Y	2.93	70.22	16.82		150.0	
10109-	TE-EDD (SC EDMA 4000) DD 40	Z	2.85	70.87	17.28		150.0	
CAE_	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.18	69.27	17.05	0.00	150.0	± 9.6 %
	 	Y	3.05	67.82	16.11		150.0	
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.94 2.72	68.18 72.52	16.29 18.35	0.00	150.0 150.0	± 9.6 %
UAE	T	Y	2.40	69.28	16.40		450.0	
		ż	2.33	70.22	16.49 16.99		150.0	
							1001111	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.96	70.65	17.72	0.00	150.0 150.0	± 9.6 %
						0.00		± 9.6 %

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	3.29	69.10	17.02	0.00	150.0	± 9.6 %
		Υ	3.17	67.76	16.14		150.0	
		Ζ	3.06	68.15	16.32		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	3.11	70.58	17.73	0.00	150.0	± 9.6 %
		Y	2.92	68.59	16.56		150.0	· -
		Z.	2.83	69.41	16.76		150.0	
10114- CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	Х	5.26	67.86	16.86	0.00	150.0	± 9.6 %
		Y	5.25	67.40	16.53		150.0	
		Z	5.14	67.65	16.68		150.0	
10115- CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	5.60	68.11	16.98	0.00	150.0	± 9.6 %
		Y	5.62	67.73	16.70		150.0	
		Z	5.40	67.70	16.71		150.0	
10116- CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.38	68.12	16.91	0.00	150.0	± 9.6 %
		Υ	<u>5</u> .38	67.68	16.59		150.0	
		Ζ	5.23	67.82	16.70		150.0	
10117- CAB	JEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	Х	5.24	67.79	16.84	0.00	150.0	± 9.6 %
		Υ	5.25	67.40	16.55		150.0	
		Z	5.10	67.49	16.62		150.0	
10118- CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	Х	5.68	68.30	17.08	0.00	150.0	± 9.6 %
		Y	5.70	67.92	16.80		150.0	
		Ζ	5.48	67.91	16.83		150.0	
101 1 9- CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	Х	5.35	68.04	16.89	0.00	150.0	± 9.6 %
		Y	5.35	67.63	16.58	_	150.0	
		Ζ	5.21	67.79	16.69		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.63	69.06	16.93	0.00	150.0	± 9.6 %
		Υ	3.53	67.92	16.17		150.0	
		Ζ	3.42	68.16	16.33		150.0	· · ·
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3.75	69.06	17.04	0.00	150.0	± 9.6 %
		Υ	3.65	67.98	16.31		150.0	
		Ζ	3.54	68.23	16.48		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	2.58	73.34	18.51	0.00	150.0	± 9.6 %
		Υ	2.18	69.29	16.31		150.0	
		Z	2.13	70.56	16,73		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	3.01	72.46	18.03	0.00	150.0	± 9.6 %
		Υ	2.65	69.32	16.38		150.0	
		Z	2.60	70.44	16.44		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	2.64	69.45	16.13	0.00	150.0	± 9.6 %
		Υ	2.44	67.23	14.90		150.0	
		Z	2.30	67.73	14.62		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	2.19	73.84	16.83	0.00	150.0	± 9.6 %
		Υ	1.54	67.56	13.92		150.0	
		Z	1.24	66.10	11.96		150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	6.00	80.94	18.56	0.00	150.0	± 9.6 %
		Υ	2.97	71.15	15.11		150.0	
		Ζ	2.39	68.87	12.55		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	13.14	91.59	22.17	0.00	150.0	± 9.6 %
	-	Y	3.76	74.52	16.70		150.0	
		Z	3.21	72.37	14.16	<u> </u>	150.0	

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10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	3.19	69.34	17.10	0.00	150.0	± 9.6 %
		Υ	3.06	67.89	16.15		150.0	
		Z	2.95	68.25	16.34		150.0	_
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.29	69.16	17.06	0.00	150.0	± 9.6 %
		_ Y	3.18	67.81	16.18		150.0	i
		Z	3.07	68.20	16.36	-	150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	10.08	82.65	23.10	3.98	65.0	± 9.6 %
		Y	9.04	79.65	21.96		65.0	
		Z	10.06	83.26	23.42		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	8.50	78.17	21.88	3.98	65.0	± 9.6 %
		Y	8.23	76.54	21.20		65.0	
		Z	8.27	78.18	21.88		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	Х	8.91	78.99	22.55	3.98	65.0	± 9.6 %
		Υ	8.60	77.29	21.85		65.0	
		Z	8.71	79.10	22.58		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.81	73.15	18.70	0.00	150.0	± 9.6 %
		Y	2.46	69.77	16.80		150.0	
		Z	2.38	70.62	17.23		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	2.96	70.66	17.73	0.00	150.0	± 9.6 %
		Y	2.76	68.51	16.46		150.0	
	<u> </u>	Z	2.69	69.35	16.69		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.55	74.52	18.86	0.00	150.0	± 9.6 %
		Y	2.05	69.58	16.30		150.0	
		Z	2.00	70.89	16.58			 -
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.62	71.06	16.72	0.00	150.0 150.0	± 9.6 %
		Y	2.30	67.95	15.09		150.0	
		Z	2.17	68.55	14.74		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	3.11	70.65	17.78	0.00	150.0	± 9.6 %
		Υ	2.92	68.65	16.60		150.0	
		Z	2.84	69.48	16.81		150.0	<u> </u>
10159- 7 CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.77	71.67	17.06	0.00	150.0	± 9.6 %
		Y	2.42	68.44	15.40		150.0	-
		Z	2.27	68.98	14.99		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	3.14	71.31	17.89	0.00	150.0	± 9.6 %
		Y	2.90	69.12	16.57		150.0	
		Z	2.85	69.90	17.00		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.19	69.15	17.05	0.00	150.0	± 9.6 %
		Y	3.08	67.73	16.13		150.0	
		Z	2.97	68.19	16.30		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.30	69.19	17.10	0.00	150.0	± 9.6 %
		Y	3.18	67.80	16.21		150.0	
10166	TE EDD (CC EDMA FOR THE	Z	3.08	68.34	16.41		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	4.14	72.27	20.63	3.01	150.0	± 9.6 %
		Υ	3.92	70.06	19.35		150.0	
10107	LTE EDD (OO ED)	Z	3.85	71.64	20.32		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	5.70	76.91	21.68	3.01	150.0	± 9.6 %
		Y	4.94	72.92	19.80		150.0	
		Z	5.14	76.11	21.32		150.0	

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6.50	79.76	23.17	3.01	150.0	± 9.6 %
		Y	5.42	74.94	21.01		150.0	
		Z	5.85	78.93	22.82		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	3.88	74.16	21.49	3.01	150.0	± 9.6 %
		Y	3.53	70.80	19.64		150.0	
		Z	3.37	71.79	20.43		150.0	_
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	7.14	85.17	25.38	3.01	150.0	± 9.6 %
		Υ	5.02	76.66	21.81		150.0	_
40474		Z	5.41	80.65	23.72		150.0	
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	5.21	78.32	21.78	3.01	150.0	± 9.6 %
		Υ _	4.13	72.50	19.15		150.0	
40470	1.75.700 (0.4.700)	<u>Z</u> _	4.25	75.40	20.64		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	×	82.16	130.26	39.09	6.02	65.0	± 9.6 %
		Y	17.62	97.94	29.93		65.0	
40456		Z	65.78	128.99	39.45		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	91.21	124.95	35.70	6.02	65.0	± 9.6 %
		Υ	19.75	96.35	28.03		65.0	
407-1		Z	100.00	129.35	37.29		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	55.61	114.43	32.46	6.02	65.0	± 9.6 %
		Υ	16.76	92.45	26.36		65.0	
		Z	70.56	121.14	34.65		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	3.81	73.71	21.19	3.01	150.0	± 9.6 %
		Y	3.48	70.45	19.37		150.0	
		Z	3.32	71.46	20.19		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	7.15	85.21	25.39	3.01	150.0	± 9.6 %
		Y	5.03	76.68	21.82		150.0	
		Z	5.42	80.68	23.74		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	3,85	73.93	21.31	3.01	150.0	± 9.6 %
		Y	3.51	70.63	19.48		150.0	
		Z	3.35	71.61	20.27		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	7.01	84.77	25.21	3.01	150.0	± 9.6 %
		Υ	4.96	76.40	21.67		150.0	
		Z	5.36	80.45	23.62		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	6.07	81.52	23.41	3.01	150.0	± 9.6 %
		Y	4.53	74.41	20.33		150.0	
		Z	4.79	77.92	22.06		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	5.18	78.18	21.70	3.01	150.0	± 9.6 %
		Υ	4.12	72.40	19.09		150.0	
		Z	4.24	75.33	20.60		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.84	73.91	21.30	3.01	150.0	± 9.6 %
		Υ	3.51	70.61	19.47		150.0	
		Z	3.35	71.60	20.27		150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	6.99	84.74	25.19	3.01	150.0	± 9.6 %
		Υ	4.95	76.38	21.66		150.0	
		Z	5.35	80.42	23.61		150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	5.17	78.15	21.69	3.01	150.0	± 9.6 %
		Y	4.11	72.38	19.08		150.0	

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	3.86	73.96	21.33	3.01	150.0	± 9.6 %
		Y	3.52	70.65	19.50		150.0	
40405	LTE FDD (OO FDL)	<u> Z</u>	3.36	71.64	20.29		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	7.04	84.85	25.24	3.01	150.0	± 9.6 %
		Y	4.98	76.45	21.70		150.0	
40400	LTE EDD (6.5	Z	5.38	80.50	23.65		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	5.20	78.24	21.73	3.01	150.0	± 9.6 %
		<u> Y</u>	4.13	72.45	19.11		150.0	
10187-	LTE EDD (OO ED)	Z	4.25	75.38	20.62		150.0	
CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.87	74.02	21.39	3.01	150.0	± 9.6 %
		Y	3.53	70.69	19.55		150.0	
40400	1 TE EDD (00 TELL)	Z	3.37	71.71	20.36		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	7.44	86.01	25.76	3.01	150.0	± 9.6 %
		Y	5.15	77.16	22.09		150.0	
10100	LTE EDD (00 ED)	Z	5.58	81.30	24.05		150.0	
10189- _AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	5.39	78.94	22.10	3.01	150.0	± 9.6 %
		Y	4.22	72.89	19.39		150.0	
10100	IEEE 000 44 /UT 0	Z	4.36	75.91	20.93		150.0	
10193- CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.67	67.32	16.65	0.00	150.0	± 9.6 %
		Y	4.67	66.82	16.30		150.0	
40404	ISSE COLUMN TO THE PARTY OF THE	Z	4.53	67.11	16.38		150.0	
10194- CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.85	67.66	16.76	0.00	150.0	± 9.6 %
		Υ	4.86	67.18	16.41		150.0	
10105		Z	4.69	67.40	16.51		150.0	
10195- CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.89	67.68	16.77	0.00	150.0	± 9.6 %
		Υ	4.90	67.20	16.42		150.0	
40400		<u></u>	4.73	67.43	16.52		150.0	
10196- CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.68	67.41	16.68	0.00	150.0	± 9.6 %
		Υ	4.68	66.91	16.33		150.0	
1010=		Z	4.52	67.15	16.39		150.0	
10197- * CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.87	67.69	16.78	0.00	150.0	± 9.6 %
		Y	4.88	67.20	16.42		150.0	
10100		Z	4.70	67.42	16.52		150.0	-
10198- CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.90	67.70	16.79	0.00	150.0	± 9.6 %
		Υ	4.91	67.21	16.43		150.0	
40040	IEEE OOO 44 OUT 13	Z	4.73	67.45	16.54		150.0	
10219- CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.63	67.43	16.65	0.00	150.0	± 9.6 %
		Υ	4.63	66.93	16.29		150.0	
40000	1555 000 11	Z	4.47	67.18	16.36		150.0	
10220- CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.86	67.66	16.77	0.00	150.0	± 9.6 %
		Υ	4.88	67.19	16.42		150.0	
40004		Ζ	4.69	67.38	16.50		150.0	
10221- <u>C</u> AB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.90	67.62	16.76	0.00	150.0	± 9.6 %
		Υ	4.91	67.14	16.42		150.0	
40000		Z	4.74	67.37	16.52	 -	150.0	
10222- CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	Х	5.22	67.81	16.85	0.00	150.0	± 9.6 %
		Υ	5.23	67.42	16.55		150.0	
	<u> </u>	Z	5.08	67.50	16.62		150.0	
							100.0	

10223- CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.53	67.97	16.94	0.00	150.0	± 9.6 %
		TY-	5.59	67.74	16,73		150.0	
		Ż	5.38	67.75	16.76		150.0	
10224- CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.26	67.91	16.83	0.00	150.0	± 9.6 %
		Y	5.27	67.51	16.52		150.0	
		Ż	5.12	67.61	16.60		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	3.00	67.51	16.39	0.00	150.0	± 9.6 %
		Y	2.93	66.39	15.65		150.0	
		Z	2.82	66.88	15.63		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	100.00	126.81	36.25	6.02	65.0	± 9.6 %
		Y	20.60	97.21	28.37		65.0	
		Z	100.00	129.54	37.41		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	65.64	117.49	33.34	6.02	65.0	± 9.6 %
		Y	18.22	94.00	26.93		65.0	
		Z	85.61	124.65	35.59		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	79.85	130.36	39.26	6.02	65.0	± 9.6 %
		Υ	20.21	101.07	31.01		65.0	
		Z	65.84	129.47	39.67		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	91.11	124.93	35.70	6.02	65.0	± 9.6 %
		Υ	19.80	96.38	28.04		65.0	İ
		Z	100.00	129.35	37.29		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	60.15	115.83	32.84	6.02	65.0	± 9.6 %
		Y	17.60	93.31	26.65		65.0	
		Z	77.12	122.67	35.03		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	72.28	128.22	38.64	6.02	65.0	± 9.6 %
		Y	19.39	100.17	30.67		65.0	
		Z	59.87	127.39	39.07		65.0	· -
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	91.25	124.96	35.71	6.02	65.0	± 9.6 %
		Y	19.78	96.37	28.04		65.0	
		Z	100.00	129.36	37.30		65.0	
10233- CAD	»LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	60.26	115.87	32.85	6.02	65.0	± 9.6 %
		Y	17.59	93.32	26.66		65.0	
		Z	77.19	122.70	35.04		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	65.41	125.97	37.96	6.02	65.0	± 9.6 %
		Υ	18.62	99.23	30.29		65.0	
		Z	54.84	125.34	38.42		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	91.93	125.11	35.75	6.02	65.0	± 9.6 %
		Y	19.81	96.41	28.05		65.0	
		Z	100.00	129.37	37.30		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	61.00	116.05	32.90	6.02	65.0	± 9.6 %
		Υ	17.69	93.40	26.68		65.0	
		Z	78.43	122.94	35.10		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	73.61	128.60	38.74	6.02	65.0	± 9.6 %
		Υ_	19.49	100.29	30.70		65.0	
		Z	60.90	127.76	39.16		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	91.47	125.02	35.72	6.02	65.0	± 9.6 %
CAD		1 37	40.70	00.00	00.04			
		Y	19.78 100.00	96.38	28.04		65.0	

CAD 64-QAM Y 17.58 93.22 26.86 65.0 10240 QPSK Y 19.44 102.72 35.05 65.0 19.6 % 10241 10241 10240 10241 1024	40000	LTC TDD (CO PD)							
10240-	10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	60.36	115.92	32.87	6.02	65.0	± 9.6 %
10240						26.66		65.0	1
CAD	-		<u> </u>		122.72	35.05		65.0	
10241-		QPSK) LTE-TDD (SC-FDMA, 1 RB, 15 MHz,			128.53	38.72	6.02	65.0	± 9.6 %
10241- LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, X 14.22 90.30 28.70 6.98 65.0 ± 9.6 %			<u> </u>			30.69		65.0	
CAA	45544		Z		127.70	39.15		65.0	
10242- CAA							6.98	65.0	± 9.6 %
10242- CAA 64-QAM) 10243- CAA 64-QAM) 10244- CAB 10244- CAB 10244- CAB 10245- CAB 10245- CAB 10246- CAB 10246- CAB 10247- CAB 10247- CAB 10246- CAB 10247- CAB 10247- CAB 10248- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10249- CAB 10250- CAB 10250- CAB 10250- CAB 10250- CAB 1026								65.0	
CAA 64-QAM) Y 11.04 83.09 25.82 65.0	40040	LTE TOP (OO EDING				29.82		65.0	
10243- CAA CPSK CFDMA, 50% RB, 1.4 MHz, X 9.46 83.32 26.91 6.98 65.0 ± 9.6 % CAA CPSK CFDMA, 50% RB, 1.4 MHz, X 9.46 83.32 26.91 6.98 65.0 ± 9.6 % CFDMA, 50% RB, 3 MHz, X 10.76 82.68 21.60 3.98 65.0 ± 9.6 % CFDMA, 50% RB, 3 MHz, X 10.76 82.68 21.60 3.98 65.0 ± 9.6 % CFDMA, 50% RB, 3 MHz, X 10.76 82.68 21.60 3.98 65.0 ± 9.6 % CFDMA, 50% RB, 3 MHz, X 10.44 81.95 21.29 3.98 65.0 ± 9.6 % CFDMA, 50% RB, 3 MHz, X 10.44 81.95 21.29 3.98 65.0 ± 9.6 % CFDMA, 50% RB, 3 MHz, X 10.44 81.95 21.29 3.98 65.0 ± 9.6 % CFDMA, 50% RB, 3 MHz, X 10.44 81.95 21.29 3.98 65.0 ± 9.6 % CFDMA, 50% RB, 5 MHz, X 10.44 81.95 21.69 65.0							6.98	65.0	± 9.6 %
10243- CAA OPSK) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QSK) LTE-TDD (SC-FDMA, 50								65.0	
CAA OPSK) Y 9.15 80.79 25.71 65.0 10244-CAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) X 10.76 82.68 21.60 3.98 65.0 ±9.6 % 10245-CAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, CAB X 10.76 82.68 21.60 3.98 65.0 ±9.6 % 10245-CAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, CAB X 10.44 81.95 21.29 3.98 65.0 ±9.6 % 10246-CAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, CAB X 10.44 81.95 21.29 3.98 65.0 ±9.6 % 10246-CAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, CAB X 11.044 81.95 21.29 3.98 65.0 ±9.6 % 10247-CAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, CAB X 11.041 84.49 21.88 65.0 ±9.6 % 10247-CAD LTE-TDD (SC-FDMA, 50% RB, 5 MHz, CAB X 8.24 79.27 21.01 3.98 65.0 ±9.6 % 10249-CAD LTE-TDD (SC-FDMA, 50% RB, 5 MHz, CAB	40010			14.66	92.40	29.55		65.0	
10,244					83.32	26.91	6.98	65.0	± 9.6 %
TO 244					80.79	25.71		65.0	T
10244- LTE-TDD (SC-FDMA, 50% RB, 3 MHz, CAB If-CABM)	1051								T
TO 245							3.98		± 9.6 %
Tight Tigh					79.37	20.74		65.0	Τ
10246- CAB GA-QAM CAB GA-QAM CAB GA-QAM CAB GA-QAM CAB GA-QAM CAB	400:5				80.90	20.36			
10246- LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)				10.44	81.95	21.29	3.98	65.0	± 9.6 %
10246- CAB			Υ	9.07	78.96	20.54		65.0	
10248- CAB QPSK) TE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) Y 8.94 81.85 21.69 65.0 ±9.6 %			Z	9.24					
10247- CAD 16-QAM 16-QAM 2 10.01 84.49 21.88 65.0 19.6 %			X	11.35	86.57	23.09	3.98		± 9.6 %
Tight Tigh			Υ	8.94	81.85	21.69		65.0	
10247- CAD				10.01					
10248- CAD C			X	8.24			3.98		± 9.6 %
10248- LTE-TDD (SC-FDMA, 50% RB, 5 MHz, CAD SC-FDMA, 50% RB, 10 MHz, CAD SC-FDMA, 50% RB, 1				7.74	77.28	20.43		65.0	
LTE-TDD (SC-FDMA, 50% RB, 5 MHz, CAD			Z				 -		
The color of the			Х				3.98		± 9.6 %
Tour			Υ	7.73	76.82	20.23		65.0	
10249- CAD CAD CRB, 50 MHz, CAD CAD CRB, 5 MHz, CAD CAD CAD CAD CRB, 50 MHz, CAD CAD CAD CAD CAD CAD CAD CAD CAD CAD			Ζ						
Tender T			Х				3.98		± 9.6 %
Tender T			Υ	9.64	83.20	22.76		65.0	
10250- CAD 16-QAM)			Ζ						
10251- LTE-TDD (SC-FDMA, 50% RB, 10 MHz, CAD LTE-TDD (SC-FDMA, 50% RB, 10 MHz, CAD LTE-TDD (SC-FDMA, 50% RB, 10 MHz, CAD LTE-TDD (SC-FDMA, 50% RB, 10 MHz, CAD LTE-TDD (SC-FDMA, 50% RB, 10 MHz, CAD LTE-TDD (SC-FDMA, 50% RB, 10 MHz, CAD LTE-TDD (SC-FDMA, 50% RB, 15 MHz, C							3.98		± 9.6 %
Te-ton Cade			Υ	8.50	78.84	22.20		65.0	
10251- CAD LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) Y 8.10 76.89 21.13 65.0 Z 8.20 78.63 21.61 65.0 LTE-TDD (SC-FDMA, 50% RB, 10 MHz, X 11.59 86.92 24.65 3.98 65.0 ± 9.6 % Y 9.53 82.29 23.01 65.0 Z 11.63 87.60 24.87 65.0 LTE-TDD (SC-FDMA, 50% RB, 15 MHz, X 8.27 77.55 21.65 3.98 65.0 ± 9.6 % Y 8.04 76.02 21.02 65.0 Z 8.09 77.65 21.62 65.0 LTE-TDD (SC-FDMA, 50% RB, 15 MHz, X 8.67 78.35 22.26 3.98 65.0 ± 9.6 % Y 8.41 76.75 21.61 65.0			Z						
10252- LTE-TDD (SC-FDMA, 50% RB, 10 MHz, CAD Y 9.53 82.29 23.01 65.0 ± 9.6 %							3.98		± 9.6 %
10252- LTE-TDD (SC-FDMA, 50% RB, 10 MHz, CAD Y 9.53 82.29 23.01 65.0 ± 9.6 %			Y	8.10	76.89	21.13		65.0	
LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)									
10253- LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD X 8.27 77.55 21.65 3.98 65.0 ± 9.6 %		LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)					3.98		± 9.6 %
10253- LTE-TDD (SC-FDMA, 50% RB, 15 MHz, CAD X 8.27 77.55 21.65 3.98 65.0 ± 9.6 %			Y	9.53	82.29	23.01		65 0	
10253- CAD 16-QAM)									
10254- LTE-TDD (SC-FDMA, 50% RB, 15 MHz, X 8.67 78.35 22.26 3.98 65.0 ± 9.6 %							3.98		± 9.6 %
10254- LTE-TDD (SC-FDMA, 50% RB, 15 MHz, X 8.67 78.35 22.26 3.98 65.0 ± 9.6 %			Y	8.04	76.02	21.02		65 A	
10254- CAD LTE-TDD (SC-FDMA, 50% RB, 15 MHz, X 8.67 78.35 22.26 3.98 65.0 ± 9.6 % Y 8.41 76.75 21.61 65.0			-						
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)					3.98		± 9.6 %
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			-	8.41	76.75	21 61		GE O	
			Z	8.50	78.49	22.25		65.0	

10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	9.69	82.20	23.16	3.98	65.0	± 9.6 %
		Υ	8.77	79.29	22.03		65.0	
		Z	9.70	82.84	23.45		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	9.10	79.45	19.54	3.98	65.0	±9.6 %
		Υ	8.28	77.46	19.27		65.0	
		Z	7.50	76.38	17.64		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	8.71	78.44	19.07	3.98	65.0	± 9.6 %
		Υ	8.14	76.86	18.96		65.0	
		Z	7.10	75.27	17.09		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	9.16	82.49	20.98	3.98	65.0	± 9.6 %
		Υ	7.92	79.54	20.28		65.0	
		Z	7.29	78.75	18.94		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	8.59 	79.95	21.73	3.98	65.0	± 9.6 %
		Υ	8.03	77.80	21.03		65.0	
10000		Z	8.13	79.27	21.11		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	8.53	79.55	21.59	3.98	65.0	±9.6 %
		Υ	8.06	77.57	20.96		65.0	
1000:		Z	8.06	78.82	20.93		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	11.51 	87.11	24.32	3.98	65.0	± 9.6 %
		Y	9.26	82.24	22.68		65.0	
		Z	11.28	87.12	24.13		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	9.12	81.19	23.06	3.98	65.0	± 9.6 %
		Y	8.49	78.79	22.16		65.0	
		Z	8.84	81.05	22.85		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	8.46	78.73	21.82	3.98	65.0	± 9.6 %
		Υ	8.09	76.88	21.13		65.0	
		Z	8.19	78.61	21.60		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	11.49	86.74	24.57	3.98	65.0	± 9.6 %
		Υ	9.47	82.16	22.94		65.0	
		Z	11.51	87.39	24.78		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	8.50	78.18	21.88	3.98	65.0	± 9.6 %
		Υ	8.22	76.54	21.21		65.0	
		Z	8.27	78.18	21.88		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	8.90	78.98	22.54	3.98	65.0	± 9.6 %
		Y	8.60	77.28	21.84		65.0	
		Z	8.71	79.09	22.57		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	Х	10.06	82.61	23.09	3.98	65.0	± 9.6 %
		Υ	9.03	79.62	21.95		65.0	
		Z	<u>1</u> 0.04	83.22	23.41		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	8.87	77.45	21.95	3.98	65.0	± 9.6 %
		Υ	8.72	76.18	21.40		65.0	
		Z	8.67	77.54	22.05		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	8.77	76.99	21.83	3.98	65.0	± 9.6 %
		Υ	8.66	75.80	21.31		65.0	
		Z	8.60	77.10	21.92		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	9.16	79.20	21.93	3.98	65.0	± 9.6 %
		Υ	8.71	77.35	21.19		65.0	
		Z	9.06	79.57	22.19		65.0	1

10274-	UMTS-FDD (HSUPA, Subtest 5, 3GPP	Х	2.80	68.17	16.47	0.00	150.0	± 9.6 %
CAB	Rel8.10)	ļ						= 5.0 %
		Y	2.67	66.63	15.50		150.0	
40075	1,11,170	Z	2.65	67.51	15.70		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	2.12	73.27	18.65	0.00	150.0	± 9.6 %
		Υ	1.72	68.53	16.00		150.0	
		Z	1.76	70.05	16.72		150.0	
10277- CAA	PHS (QPSK)	Х	5.32	68.96	13.42	9.03	50.0	± 9.6 %
		Υ	6.41	71.20	15.49		50.0	
		Z	5.12	68.74	13.08		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	9.11	79.62	20.31	9.03	50.0	± 9.6 %
		Υ	9.22	79.31	21.03		50.0	
		Z	8.20	77.78	19.21		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	9.25	79.80	20.39	9.03	50.0	±9.6 %
		Y	9.36	79.46	21.09		50.0	
10000		Z	8.30	77.91	19.28		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	3.59	82.57	20.48	0.00	150.0	± 9.6 %
		Υ	1.73	70.44	15.45		150.0	
		Z	1.75	72.09	15.26		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	2.13	80.55	19.92	0.00	150.0	± 9.6 %
		Y	0.98	67.37	13.95		150.0	
		Z	1.01	69.27	14.02		150.0	
10292- _AAB	CDMA2000, RC3, SO32, Full Rate	Х	12.02	108.71	29.17	0.00	150.0	± 9.6 %
		Υ	1.26	72.03	16.54		150.0	
		Z	1.93	79.12	18.49		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	100.00	144.61	38.38	0.00	150.0	± 9.6 %
		Y	1.90	78.46	19.68	_	150.0	_
		Z	6.64	97.19	24.86		150.0	-
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	11.58	85.59	24.60	9.03	50.0	± 9.6 %
·		Υ	10.44	82.50	23.85		50.0	_
<u></u> -		Z	13.98	88.93	25.45		50.0	
10297- * AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	3.31	73.28	18.55	0.00	150.0	± 9.6 %
		Y	2.94	70.32	16.89		150.0	
		Z	2.86	70.97	17.35		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	2.53	75.50	18.42	0.00	150.0	± 9.6 %
		Υ	1.83	69.14	15.39		150.0	
		Z	1.69	69.62	14.84		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	6.61	82.78	20.21	0.00	150.0	± 9.6 %
		Υ	3.43	72.67	16.51		150.0	
10055		Ζ	3.82	74.80	16.21		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	3.24	71.51	15.06	0.00	150.0	± 9.6 %
		Υ	2.57	67.68	13.54		150.0	
40004	IEEE 000 to Without	Z	2.21	66.93	12.03		150.0	
10301- <u>AAA</u>	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	5.62	68.28	18.87	4.17	80.0	±9.6 %
		Y	5.93	68.63	18.94		80.0	
40000	IEEE 000 40	Z	5.89	69.91	19.47		80.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	6.17	69.25	19.82	4.96	80.0	± 9.6 %
	,	Y Z	6.38	69.08	19.58		80.0	

10303-	IEEE 802.16e WIMAX (31:15, 5ms,	X	6.02	69.32	19.87	4.96	80.0	± 9.6 %
AAA	10MHz, 64QAM, PUSC)							
		Y	6.26	69.22	19.66		80.0	
40004	1555 000 40 1455 400 40 5	Z	6.09	70.04	19.96		80.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	5.67	68.65	19.09	4.17	80.0	± 9.6 %
		Y	5.85	68.42	18.82		80.0	
		Z	5.71	69.28	19.12		80.0	
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	9:13	83.00	26.75	6.02	50.0	± 9.6 %
		Y	11.08	85.83	27.58		50.0	
10306-	IEEE 802.16e WiMAX (29:18, 10ms,	Z	11.97	88.64	28.23	0.00	50.0	. 0.00/
AAA	10MHz, 64QAM, PUSC, 18 symbols)	X	6.47	72.26	21.90	6.02	50.0	± 9.6 %
		Y	6.84	72.27	21.68		50.0	
10307-	IEEE 802.16e WiMAX (29:18, 10ms,	Z	6.81 6.58	73.77 73.04	22.17	6.02	50.0 50.0	1000
AAA	10MHz, QPSK, PUSC, 18 symbols)				22.08	0.02		± 9.6 %
	 	Y Z	8.34	78.37	24.64		50.0	
10308-	IEEE 802.16e WiMAX (29:18, 10ms,	X	6.92	74.46	22.29	6.00	50.0	+000
AAA	10MHz, 16QAM, PUSC)	^ Y	6.66	73.56	22.34	6.02	50.0	± 9.6 %
		Z	8.60 7.08	79.30 75.16	25.04 22.62		50.0	
10309-	IEEE 802.16e WIMAX (29:18, 10ms,	X	6.58	72.60	22.02	6.02	50.0 50.0	± 9.6 %
AAA	10MHz, 16QAM, AMC 2x3, 18 symbols)	Y	6.95	72.58	21.85	0.02	50.0	19.0 %
		Z	6.90	74.05	22.35		50.0	
10310-	IEEE 802.16e WiMAX (29:18, 10ms,	X	6.50	72.56	21.95	6.02	50.0	± 9.6 %
AAA_	10MHz, QPSK, AMC 2x3, 18 symbols)					6.02		± 9.6 %
	- -	Z	6.87	72.52 74.10	21.70 22.23		50.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.86 3.70	72.28	18.01	0.00	50.0 150.0	± 9.6 %
7070	WHIZ, QLOR)	Y	3.30	69.61	16.53		150.0	
	-	Z	3.23	70.11	16.90		150.0	
10313- AAA	iDEN 1:3	X	9.18	81.61	19.86	6.99	70.0	± 9.6 %
	-	Y	7.64	78.40	19.13		70.0	
	-	Z	9.78	83.14	20.58		70.0	
10314- AAA	;iDEN 1:6	X	13.83	90.60	25.32	10.00	30.0	± 9.6 %
		Υ	9.35	83.01	23.15		30.0	
		Z	14.01	91.81	25.99		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.27	67.24	17.67	0.17	150.0	±9.6 %
		Y	1.20	64.93	15.83		150.0	
-		Z	1.21	65.68	16.36		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	4.76	67.47	16.83	0.17	150.0	± 9.6 %
·		Υ	4.78	67.03	1 6.51		150.0	
		Z	4.63	67.31	16.62		150.0	
10317- AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	Х	4.76	67.47	16.83	0.17	150.0	± 9.6 %
		Y	4.78	67.03	16.51	-	150.0	
10400-	IEEE 802.11ac WiFi (20MHz, 64-QAM,	Z X	4.63 4.86	67.31 67.74	16.62 16.77	0.00	150.0 150.0	± 9.6 %
AAC	99pc duty cycle)	1,	4.0=	07.01	40.10	-	450.0	
	-	Y	4.87	67.24	16.40		150.0	
10404	[EEE 900 4400 M/IE: /40MI - 64 CAM	Z	4.68	67.47	16.52	0.00	150.0	1000
10401- AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.51	67.76	16.81	0.00	150.0	± 9.6 %
	<u> </u>	Y	5.52	67.36	16.52		150.0	
		Z	5.41	67.67	16.70		150.0	

AAC									
10403-	10402- AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)				16.86	0.00	150.0	± 9.6 %
10404- CDMA2000 (1xEV-DO, Rev. 0)					67.85	16.61		150.0	
DMA2000 (1xEV-DO, Rev. 0)			Z	5.64	67.83	16.63			
10404-AAB		CDMA2000 (1xEV-DO, Rev. 0)		3.59	82.57		0.00		± 9.6 %
CDMA2000 (1xEV-DQ, Rev. A)			Y	1.73	70.44	15.45		115.0	
10404- AAB			Z	1.75			· · · · · · · · · · · · · · · · · · ·		1
10406- AAB		CDMA2000 (1xEV-DO, Rev. A)	Х				0.00		± 9.6 %
Total				1.73	70.44	15.45		115.0	
1046- CDMA2000, RC3, SO32, SCH0, Full X 100.00 122.57 31.18 0.00 100.0 ± 9 x x x x x x x x x			Z	1.75	72.09	15.26			
10410-						31.18	0.00		± 9.6 %
10410-					99.60	26.20		100.0	
AAC			Z	100.00	120.33	29.78		100.0	
10415-		LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)				30.51	3.23		± 9.6 %
10415- IEEE 802.11b WiFi 2.4 GHz (DSSS, 1					120.68	31.13		80.0	
10415- AAA Mbps, 99pc duty cycle) Y 1.03 63.31 14.91 150.0 Z 1.05 64.05 15.43 150.0 10416- AAA DFDM, 6 Mbps, 99pc duty cycle) Y 4.67 66.86 16.34 150.0 Y 4.67 66.86 16.34 150.0 Z 4.53 67.14 16.45 150.0 Y 4.67 66.86 16.34 150.0 IEEE 802.11ah WiFi 5 GHz (OFDM, 6 X 4.67 67.36 16.71 0.00 150.0 ±9. Mbps, 99pc duty cycle) Y 4.67 66.86 16.34 150.0 Y 4.67 66.86 16.34 150.0 IEEE 802.11ah WiFi 5 GHz (OFDM, 6 X 4.67 67.36 16.71 0.00 150.0 ±9. Mbps, 99pc duty cycle) Y 4.67 66.86 16.34 150.0 Z 4.53 67.14 16.45 150.0 IEEE 802.11g WiFi 2.4 GHz (DSSS- X 4.66 67.53 16.73 0.00 150.0 ±9. TO418- AAA IEEE 802.11g WiFi 2.4 GHz (DSSS- X 4.66 67.00 16.35 150.0 Y 4.66 67.00 16.35 150.0 IEEE 802.11g WiFi 2.4 GHz (DSSS- X 4.68 67.47 16.73 0.00 150.0 ±9. TO419- AAA IEEE 802.11g WiFi 2.4 GHz (DSSS- X 4.68 67.47 16.73 0.00 150.0 ±9. TO419- AAA IEEE 802.11g WiFi 2.4 GHz (DSSS- X 4.68 67.47 16.73 0.00 150.0 ±9. Y 4.68 66.95 16.36 150.0 IO422- AAA IEEE 802.11n (HT Greenfield, 7.2 Mbps, X 4.80 67.45 16.73 0.00 150.0 ±9. Y 4.81 66.96 16.37 150.0 IEEE 802.11n (HT Greenfield, 43.3 X 4.99 67.80 16.85 0.00 150.0 ±9. Y 4.81 66.96 16.37 150.0 IO423- AAA Mbps, 10-QAM) Y 4.91 67.27 16.47 150.0 IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.60 16.85 0.00 150.0 ±9. IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.60 16.83 0.00 150.0 ±9. IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.60 16.83 0.00 150.0 ±9. IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.60 16.83 0.00 150.0 ±9. IEEE 802.11n (HT Greenfield, 15 Mbps, X 5.49 68.02 16.94 0.00 150.0 ±9. IO424- AAA IEEE 802.11n (HT Greenfield, 15 Mbps, X 5.49 68.02 16.94 0.00 150.0 ±9. IO425- AAA IEEE 802.11n (HT Greenfield, 15 Mbps, X 5.49 68.02 16.94 0.00 150.0 ±9. IO426- AAA IEEE 802.11n (HT Greenfield, 90 Mbps, X 5.49 68.02 16.94 0.00 150.0 ±9.			Z	100.00					
10416- AAA IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle) Y 4.67 66.86 16.34 150.0 10417- AAA IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 AAA Mbps, 99pc duty cycle) Y 4.67 66.86 16.34 150.0 10417- AAA IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 AAA Mbps, 99pc duty cycle) Y 4.67 66.86 16.34 150.0 10418- AAA IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule) Y 4.66 67.00 16.35 150.0 IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule) Y 4.66 67.00 16.35 150.0 IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule) Y 4.68 66.95 16.36 150.0 IEEE 802.11n (HT Greenfield, 7.2 Mbps, AAA BPSK) Y 4.81 66.96 16.37 150.0 Y 4.81 66.96 16.37 150.0 IEEE 802.11n (HT Greenfield, 43.3 X 4.80 67.45 16.49 150.0 Y 5.00 67.33 16.51 150.0 10423- AAA Mbps, 16-QAM) Y 5.00 67.33 16.51 150.0 Y 4.81 66.96 IEEE 802.11n (HT Greenfield, 72.2 Mbps, AAA Mbps, 16-QAM) Y 4.91 67.27 16.63 0.00 150.0 ±9. Y 4.91 67.27 16.63 0.00 150.0 ±9. IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.76 16.83 0.00 150.0 ±9. Y 4.91 67.27 16.64 16.59 150.0 IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.76 16.83 0.00 150.0 ±9. AAA IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.76 16.83 0.00 150.0 ±9. IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.76 16.83 0.00 150.0 ±9. AAA IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.76 16.83 0.00 150.0 ±9. AAA IEEE 802.11n (HT Greenfield, 75.80 Mbps, AAA BPSK) Y 5.50 67.62 16.64 16.90 0.00 150.0 ±9. AAA IEEE 802.11n (HT Greenfield, 15 Mbps, AAA IEEE 802.11n (HT Greenfield, 90 Mbps, AAA IEEE 802.11n (HT Greenfield, 90 Mbps, AAA IEEE 802.11n (HT Greenfield, 90 Mbps, AAA IEEE 802.11n (HT Greenfield, 90 Mbps, AAA IEEE 802.11n (HT Greenfield, 90 Mbps, AAA IEEE 802.11n (HT Greenfield, 90 Mbps, AAA IEEE 802.11n (HT Greenfield, 90 Mbps, AAA IEEE 802.11n (HT Greenfield, 90 Mbps, AAA IEEE 802.11n (HT Greenfield, 90 Mbps, AAA IEEE 802.11n (HT Greenfield, 90 Mbps, AAA IEEE 802.11n (HT Greenfield, 90 Mbps, AAA IEEE 802.11n		IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)					0.00		± 9.6 %
10416- IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)			Y	1.03	63.31	14.91		150.0	
10416- AAA			Z	1,05			1		
10417- IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 X 4.67 67.36 16.71 0.00 150.0 ± 9.		IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	Х				0.00		± 9.6 %
Total			Y	4.67	66.86	16.34		150.0	<u> </u>
Total			Z	4.53					-
Total		IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	Х				0.00		± 9.6 %
Total			Y	4.67	66.86	16.34		150.0	
10418- IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)									
10419- IEEE 802.11g WiFi 2.4 GHz (DSSS-		OFDM, 6 Mbps, 99pc duty cycle, Long	X				0.00		± 9.6 %
Total Tota			Υ	4.66	67.00	16.35		150.0	-
Total Tota			Z	4.52					
10422- IEEE 802.11n (HT Greenfield, 7.2 Mbps, X 4.80 67.26 16.48 150.0 150.0 ± 9.	AAA —	OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X				0.00		± 9.6 %
Total Tota			Y	4.68	66.95	16.36		150.0	
10422- AAA BPSK FEE 802.11n (HT Greenfield, 7.2 Mbps, AAA A.80									
Total Tota							0.00		± 9.6 %
Total Tota			Y	4.81	66.96	16.37	-	150.0	
Total Tota			Z						
10424- IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.76 16.83 0.00 150.0 ± 9.00							0.00		± 9.6 %
10424- IEEE 802.11n (HT Greenfield, 72.2 X 4.90 67.76 16.83 0.00 150.0 ± 9.1			Y	5.00	67.33	16.51		150.0	
10424- AAA EEE 802.11n (HT Greenfield, 72.2 X 4.90 67.76 16.83 0.00 150.0 ± 9.									
10425- AAA IEEE 802.11n (HT Greenfield, 15 Mbps, X 5.49 68.02 16.94 0.00 150.0 ± 9.00 150.0 150.0			X	4.90	67.76		0.00		± 9.6 %
10425- AAA IEEE 802.11n (HT Greenfield, 15 Mbps, X 5.49 68.02 16.94 0.00 150.0 ± 9.4				4.91	67.27	16.47		150.0	
10425- AAA IEEE 802.11n (HT Greenfield, 15 Mbps, X 5.49 68.02 16.94 0.00 150.0 ± 9.00 ± 9.00				4.73					
10426- IEEE 802.11n (HT Greenfield, 90 Mbps, X 5.49 68.02 16.94 0.00 150.0 ± 9.00 16.00 150.0 15		IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	Х	5.49			0.00		± 9.6 %
10426- IEEE 802.11n (HT Greenfield, 90 Mbps, X 5.49 68.02 16.94 0.00 150.0 ± 9.00 16.94 16				5.50	67.62	16.64	_	150.0	
10426- IEEE 802.11n (HT Greenfield, 90 Mbps, X 5.49 68.02 16.94 0.00 150.0 ± 9.0			Z						
		IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)					0.00		± 9.6 %
Y 5.51 67.65 16.65 150.0			Y	5.51	67,65	16 65		150.0	
Z 5.36 67.83 16.78 150.0									 -

10427- AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	5.50	68.00	16.93	0.00	150.0	± 9.6 %
		Y	5.52	67.64	16.64	\vdash	150.0	
-		Ż	5.36	67.74	16.73		150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.54	72.09	19.09	0.00	150.0	± 9.6 %
		Υ	4.40	70.73	18.36		150.0	
		Z	4.26	71.56	18.37		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	Х	4.40	68.10	16.85	0.00	150.0	± 9.6 %
		Υ	4.40	67.42	16.40		150.0	
		Z	4.19	67.79	16.46		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.68	67.87	16.83	0.00	150.0	± 9.6 %
_		Υ	4.69	67.31	16.44		150.0	
40.400		Z	4.50	67.59	16.53		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.92	67.80	16.85	0.00	150.0	± 9.6 %
		Y	4.93	67.31	16.50		150.0	
1015:		Z	4.74	67.53	16.59		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.73	73.25	19.23	0.00	150.0	± 9.6 %
	<u> </u>	Υ	4.51	71.54	18.38		150.0	
		Z	4.38	72.53	18.34		150.0	_
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	120.11	30.42	3.23	80.0	± 9.6 %
-		Υ	100.00	120.53	31.07		80.0	
		Z	100.00	122.42	31.29		80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	_ x_	3.76	68.51	16.50	0.00	150.0	± 9.6 %
		Υ_	3.71	67.48	15.90		150.0	
		Z	3.49	67.91	15.73		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	Х	4.23	67.89	16.73	0.00	150.0	± 9.6 %
		Υ	4.22	67.19	16.26		150.0	
		Z	4.04	67.58	16.33		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	Х	4.49	67.72	16.75	0.00	150.0	± 9.6 %
		Υ	4.48	67.13	16.34		150.0	-
		Z	4.32	67.42	16.43		150.0	_
10450- AAB	"LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	4.67	67.59	16.73	0.00	150.0	± 9.6 %
		Υ	4.66	67.07	16.35		150.0	
		Z	4.52	67.31	16.45		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	Х	3.71	68.96	16.29	0.00	150.0	± 9.6 %
		Υ	3.63	67.76	15.64		150.0	
40455		Z	3.37	68.05	15.28		150.0	
10456- AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.34	68.51	17.03	0.00	150.0	± 9.6 %
		Υ	6.36	68.23	16.81		150.0	
		Z	6.24	68.31	16.89		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	Х	3.87	65.97	16.44	0.00	150.0	± 9.6 %
		Y	3.87	65.48	16.06		150.0	
40455	ODIMAGO // TO T	Z	3.81	65.79	16.17		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	Х	4.35	72.54	18.72	0.00	150.0	± 9.6 %
		Y	4.10	70.59	17.78		150.0	
1015		Z	4.02	71.83	17.67		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	Х	5.25	68.89	18.60	0.00	150.0	± 9.6 %
		Υ	5.22	68.08	18.20		150.0	
		ż	4.96		_ 10.20	l	150.0	t .

AAA Y 0.96 69.05 16.73 150.0 150.0 100.	10460-	UMTS-FDD (WCDMA, AMR)	X	1.62	80.44	22.68	1 0.00	450.0	1 . 0 0 0/
TIE-TDD (SC-FDMA, 1 RB, 1.4 MHz, AAA CPSK, UL Subframe-2,3.4,7,8,9)		Civite 1 BB (WeBha i, 7 iiviliy)					0.00	150.0	± 9.6 %
10461- LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, AAA CPSK, UL Subframe-2,3.4,7.8,9)								150.0	
AAA	40404	LTE TRR (OR EDING						150.0	
Tight Tigh		LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)			125.40	32.90	3.29	80.0	± 9.6 %
Tight Tigh					122.42	32.02		80.0	
10462- LTE-TDD (SC-FDMA, 1 RB, 1 A MHz, AAA			Ζ	100.00	127.89	33.84			-
Tender		LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X		109.25		3.23		± 9.6 %
Tight Tigh			Υ	100.00	110.42	26.29		80.0	
10463-				100.00	110.45	25.54			
10464- AAA		LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	106.10	23.70	3.23		± 9.6 %
Total				31.87	95.11	22.04		80.0	
10464- AAA			Z	100.00	107.01	23.88			
Terror T		LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	123.48		3.23		± 9.6 %
Total Color			Y	100.00	120.78	31.11		80.0	
10468- AAA AAA AAA AAA AAA AAA AAA AAA AAA A									 -
TE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-AAA CAM, UL Subframe=2,3,4,7,8,9)		LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X				3.23		± 9.6 %
10466-				57.38	103.50	24.59		80.0	_
10466- AAA			Z						
Te-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)		LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
10467- AC			Y	19.30	89.18	20.39	 	80.0	
10467- AAC QPSK, UL Subframe=2,3,4,7,8,9) 10468- AC QRM, UL Subframe=2,3,4,7,8,9) 10469- AAC QAM, UL Subframe=2,3,4,7,8,9) 10469- AAC QAM, UL Subframe=2,3,4,7,8,9) 10470- AAC QPSK, UL Subframe=2,3,4,7,8,9) 10470- AAC QRSK, UL Subframe=2,3,4,7,8,9) 10470- AAC QRSK, UL Subframe=2,3,4,7,8,9) 10470- AAC QPSK, UL Subframe=2,3,4,7,8,9) 10471- AAC QPSK, UL Subframe=2,3,4,7,8,9) 10471- AAC QAM, UL Subframe=2,3,4,7,8,9) 10471- AAC QAM, UL Subframe=2,3,4,7,8,9) 10472- AAC QAM, UL Subframe=2,3,4,7,8,9) 10473- AAC QAM, UL Subframe=2,3,4,7,8,9) 10474- AAC QAM, UL Subframe=2,3,4,7,8,9) 10475- AAC QAM, UL Subframe=2,3,4,7,8,9) 10476- AAC QAM, UL Subframe=2,3,4,7,8,9) 10477- AAC QAM, UL Subframe=2,3,4,7,8,9) 10478- AAC QAM, UL Subframe=2,3,4,7,8,9) 10479- AAC AC QAM, UL Subframe=2,3,4,7,8,9) 10478- AAC QAM, UL Subframe=2,3,4,7,8,9) 10479- AAC AC QAM, UL Subframe=2,3,4,7,8,9) 10474- AAC AC CAM, UL Subframe=2,3,4,7,8,9) 10475- AAC CAM, UL Subframe=2,3,4,7,8,9) 10476- AAC CAM, UL Subframe=2,3,4,7,8,9) 10477- AAC CAM, UL Subframe=2,3,4,7,8,9) 10478- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM, UL Subframe=2,3,4,7,8,9) 10470- AAC CAM, UL Subframe=2,3,4,7,8,9) 10470- AAC CAM, UL Subframe=2,3,4,7,8,9) 10471- AAC CAM, UL Subframe=2,3,4,7,8,9) 10472- AAC CAM, UL Subframe=2,3,4,7,8,9) 10473- AAC CAM, UL Subframe=2,3,4,7,8,9) 10474- AAC CAM, UL Subframe=2,3,4,7,8,9) 10475- AAC CAM, UL Subframe=2,3,4,7,8,9) 10476- AAC CAM, UL Subframe=2,3,4,7,8,9) 10478- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM, UL Subframe=2,3,4,7,8,9) 10479- AAC CAM,			Z						-
Tourish		LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
Tourish			Y	100.00	120.96	31 19		80.0	
10468- AAC AAC CAM, UL Subframe=2,3,4,7,8,9 Y 68.69 105.73 25.14 80.0 ±9.6 %									
10469-AC							3.23		± 9.6 %
10469-AC			Y	68.69	105.73	25 14	 	80.0	
TTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- AC AC CAM, UL Subframe=2,3,4,7,8,9) Y 19.75 89.45 20.46 80.0 ±9.6 %	_								
10470- AC CTE-TDD (SC-FDMA, 1 RB, 10 MHz, AC QPSK, UL Subframe=2,3,4,7,8,9) Y 100.00 123.74 31.96 3.23 80.0 ±9.6 %		LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
10470- AC CARPEN CARPE			Y	19.75	89.45	20.46		80.0	
10470- AAC							 		
Y 100.00 120.98 31.20 80.0		LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х				3.23		± 9.6 %
10471- LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- AC QAM, UL Subframe=2,3,4,7,8,9) Y 69.00 105.75 25.13 80.0 ± 9.6 %			Y	100.00	120.98	31.20		80.0	
10471- AAC			Z						<u> </u>
10472- LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- X 100.00 105.58 23.44 3.23 80.0 ± 9.6 %		LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
10472- LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- X 100.00 105.58 23.44 3.23 80.0 ± 9.6 %			Υ	69.00	105.75	25.13		80.0	
LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) 10472-AAC CAM, UL Subframe=2,3,4,7,8,9) Y 19.79 89.46 20.45 80.0									
10473- LTE-TDD (SC-FDMA, 1 RB, 15 MHz, ACC QPSK, UL Subframe=2,3,4,7,8,9)		LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
10473- LTE-TDD (SC-FDMA, 1 RB, 15 MHz, ACC QPSK, UL Subframe=2,3,4,7,8,9)			Y	19.79	89.46	20.45		80.0	
10473- AAC LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) Y 100.00 120.96 31.18 80.0 Z 100.00 126.20 32.88 80.0 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- AAC QAM, UL Subframe=2,3,4,7,8,9) Y 67.79 105.55 25.09 80.0 Z 100.00 110.08 25.35 80.0 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC QAM, UL Subframe=2,3,4,7,8,9) Y 67.79 105.55 25.09 80.0 Z 100.00 110.08 25.35 80.0 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC QAM, UL Subframe=2,3,4,7,8,9) Y 19.52 89.31 20.41 80.0									
10474- AAC LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- AAC QAM, UL Subframe=2,3,4,7,8,9) Y 67.79 105.55 25.09 80.0 Z 100.00 110.08 25.35 80.0 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC QAM, UL Subframe=2,3,4,7,8,9) Y 100.00 110.08 25.35 80.0 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC QAM, UL Subframe=2,3,4,7,8,9) Y 19.52 89.31 20.41 80.0							3.23		± 9.6 %
10474- AAC LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- AAC QAM, UL Subframe=2,3,4,7,8,9) Y 67.79 105.55 25.09 80.0 Z 100.00 110.08 25.35 80.0 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC QAM, UL Subframe=2,3,4,7,8,9) Y 100.00 110.08 25.35 80.0 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC QAM, UL Subframe=2,3,4,7,8,9) Y 19.52 89.31 20.41 80.0			Υ	100.00	120.96	31.18		80.0	
10474- AAC			-						
10475- LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- X 100.00 110.08 25.35 80.0		LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
10475- LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- X 100.00 110.08 25.35 80.0			Y	67.79	105.55	25.09		80.0	
10475- AAC LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- AAC QAM, UL Subframe=2,3,4,7,8,9) Y 19.52 89.31 20.41 80.0 ± 9.6 %							 		
Y 19.52 89.31 20.41 80.0		LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)					3.23		± 9.6 %
7 400 00 400 10			Υ	19.52	89 31	20.41		90.0	
			Z	100.00	106.49	23.63		80.0	

10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.68	24.92	3.23	80.0	± 9.6 %
		Υ	60.00	104.00	24.69		80.0	\vdash
		Z	100.00	109.90	25.26		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	105.53	23.42	3.23	80.0	± 9.6 %
-		Υ	19.24	89.12	20.35		80.0	
		Z	100.00	106.43	23.60		80.0	
10479- <u>AAA</u>	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	94.50 —_—	124.14	33.84	3.23	80.0	± 9.6 %
		Y	12.50	90.83	25.02		80.0	<u> </u>
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00 95.67	124.95 115.16	33.67 29.54	3.23	80.0	± 9.6 %
7001	10 Q0 WI, DE OUDITAINE-2,0,4,1,0,3)	Y	12.83	86.63	22.28		80.0	
		Z	100.00	114.83	28.84		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	58.64	107.02	27.16	3.23	80.0	± 9.6 %
		Y	11.35	84.25	21.22	-	80.0	
		Ż	80.09	110.11	27.23		80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	12.89	91.14	23.86	2.23	80.0	± 9.6 %
		Υ	6.25	79.51	20.15		80.0	
		Z	8.39	84.42	21.05		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	18.92	92.85	24.00	2.23	80.0	± 9.6 %
		Υ	8.58	80.90	20.47		80.0	
		Z	13.62	87.31	21.48		80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	15.36	89.71	23.07	2.23	80.0	± 9.6 %
		Y	7.99	79.65	20.04		80.0	
1010		_ Z	10.91	84.16	20.49		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	10.83	89.50	24.25	2.23	80.0	± 9.6 %
		Υ	6.29	79.77	20.91		80.0	
10486-	LTE TOD (OO FDMA FOX DD FAME	Z	8.35	85.48	22.54		80.0	
AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.33	78.08	19.97	2.23	80.0	± 9.6 %
		Y	5.11	73.82	18.38		80.0	
10487-	LTE TOD /CC EDMA FOO/ DD E MIL	Z	5.40	75.74	18.50		80.0	
AAC	"LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.09	77.15	19.61	2.23	80.0	± 9.6 %
		Y	5.06	73.33	18.18		80.0	ļ
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.20 7.97	74.88 83.54	18.15 22.89	2.23	80.0 80.0	± 9.6 %
		Y	6.02	77.67	20.60		80.0	
		Z	6.66	81.06	21.92		80.0	_
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.54	75.17	19.93	2.23	80.0	± 9.6 %
		Y	5.05	72.55	18.77		80.0	
		Z	5.10	74.15	19.29		80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	5.52	74.58	19.72	2.23	80.0	± 9.6 %
	-	Y	5.10	72.20	18.66		80.0	
40404	LITE TOP (OO EDA)	Z	5.11	73.70	19.12		80.0	
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.68	78.67	21.27	2.23	80.0	± 9.6 %
		Υ	5.75	75.05	19.71		80.0	
40400	LITE TOD (OO ED) (A SOC) DE CENTRE	Z	5.90	77.08	20.64		80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	5.47	73.05	19.35	2.23	80.0	± 9.6 %
		Υ	5.22	71.31	18.50		80.0	
		Z	5.12	72.35	18.92		80.0	

10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.48	72.72	19.22	2.23	80.0	± 9.6 %
		Y	5.27	71.08	18.43	+	80.0	-
		Ż	5.15	72.07	18.82		80.0	+
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.90	81.45	22.09	2.23	80.0	± 9.6 %
		Y	6.41	76.92	20.25		80.0	
40405		Ž	6.69	79.16	21.27		80.0	<u> </u>
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.61	73.73	19.62	2.23	80.0	± 9.6 %
	 	ļΫ́	5.32	71.86	18.72		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Z	5.21 5.57	72.81 73.09	19.16 19.41	2.23	80.0 80.0	± 9.6 %
		† _Y -	5.35	71.43	18.59		80.0	
		Ż	5.21	72.31	18.99	 	80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	10.14	86.59	21.54	2.23	80.0	± 9.6 %
		Y	5.12	76.51	18.39		80.0	 -
		Z	5.35	77.20	17.46		80.0	
10498- AAA 	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.29	72.00	15.43	2.23	80.0	± 9.6 %
		Y	3.72	69.52	14.77		80.0	-
		Z	2.43	65.17	11.54		80.0	· · · · · ·
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.97	70.70	14.77	2.23	80.0	± 9.6 %
		Υ	3.61	68.83	14.36		80.0	
40500		Z	2.26	64.14	10.91		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	8.79	85.79	23.33	2.23	80.0	± 9.6 %
		Υ	5.95	78.30	20.59		80.0	
10501-	LTE TOD (CO EDIM 1000) DD ALIV	Z	7.25	82.97	22.08		80.0	
AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.90	76.65	19.85	2.23	80.0	± 9.6 %
		Y	5.06	73.18	18.47		80.0	
10502-	LTE-TDD (SC-FDMA, 100% RB, 3 MHz,	Z	5.28	75.13	18.80		80.0	
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.87	76.18	19.62	2.23	80.0	± 9.6 %
		Y	5.09	72.91	18.33		80.0	
10503-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz,	Z	5.26	74.71	18.58	<u> </u>	80.0	
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	X	7.83 5.94	83.24	22.77	2.23	80.0	± 9.6 %
		Z		77.45	20.51		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.55 5.51	80.79 75.05	21.81 19.87	2.23	80.0 80.0	± 9.6 %
		Υ	5.02	72.46	18.72		80.0	
		Z	5.07	74.04	19.23		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.49	74.47	19.66	2.23	80.0	± 9.6 %
		_ Y	5.07	72.10	18.60	-	80.0	
10500	LTE TOP (00 ==================================	Z	5.08	73.60	19.06		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.81	81.23	22.00	2.23	80.0	± 9.6 %
		<u>Y</u>	6.35	76.76	20.18		80.0	
10507-	LTE-TDD (SC-FDMA, 100% RB, 10	Z	6.62	78.99	21.19		80.0	
10507- AAC	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.58	73.65	19.59	2.23	80.0	± 9.6 %
		Y	5.30	71.80	18.69		80.0	

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.55	73.01	19.36	2.23	80.0	±9.6 %
		Υ	5.33	71.35	18.55	-	80.0	
		Z	5.19	72.24	18.95		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.03	77.40	20.60	2.23	80.0	± 9.6 %
		Υ	6.25	74.54	19.35		80.0	
		Z	6.27	75.89	20.05		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.86	72.49	19.18	2.23	80.0	± 9.6 %
		Y	5.70	71.14	18.49		80.0	
		Z	5.51	71.73	18.83		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	5.83	72.01	19.03	2.23	80.0	± 9.6 %
		Υ	5.71	70.79	18.40		80.0	
		Z	5.52	71.35	18.71		80.0	
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	8.18	80.50	21.58	2.23	80.0	± 9.6 %
		Y	6.82	76.59	19.98		80.0	
10510		Z	6.97	78.23	20.79		80.0	
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.86	73.15	19.44	2.23	80.0	±9.6 %
		Υ	5.65	71.64	18.67		80.0	
		Z	5.45	72.18	19.02		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.75	72.41	19.20	2.23	80.0	±9.6%
		Y	5.60	71.07	18.51		80.0	
		Z	5.40	71.58	18.82		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	Х	1.06	65.76	16.90	0.00	150.0	± 9.6 %
		Υ	<u>1</u> .00	63.51	14.99		150.0	
10510		Z	1.02	64.32	15.55		150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	5.87	117.81	35.86	0.00	150.0	± 9.6 %
	 	Y	0.66	71.85	18.17		150.0	
10517-	JEEE 903 445 W/F: 2 4 CH- /DCCC 44	Z	0.94	79.02	21.78	2.22	150.0	
AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	1.03	70.61	19.18	0.00	150.0	± 9.6 %
-		Z	0.86 0.90	65.67 67.08	15.75	_	150.0	
10518- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.67	67.45	16.71 16.69	0.00	150.0 150.0	± 9.6 %
		Υ	4.67	66.94	16.33		150.0	
		Z	4.52	67.23	16.44		150.0	
10519- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	Х	4.87	67.70	16.81	0.00	150.0	± 9.6 %
		Y	4.88	67.22	16.46		150.0	
10505		Z	4.69	67.43	16.54		150.0	
10520- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.72	67.70	16.76	0.00	150.0	± 9.6 %
	-	Y	4.73	67.19	16.39	ļ	150.0	
10521- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.54 4.66	67.39 67.72	16.47 16.76	0.00	150.0 150.0	±9.6 %
		Y	4.66	67.20	16.38		150.0	-
		Z	4.48	67.38	16.46		150.0	
10522- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.71	67.76	16.82	0.00	150.0	± 9.6 %
		Υ	4.71	67.20	16.42		150.0	
		Z	4.54	67.51	16.56		150.0	

10523-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	X	4.59	67.65	16.68	0.00	150.0	± 9.6 %
AAA	Mbps, 99pc duty cycle)				Ĺ			- 5.5 /5
		Y	4.58	67.09	16.28		150.0	
40504		Z	4.43	67.41	16.42		150.0	
10524- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.66	67.69	16.79	0.00	150.0	± 9.6 %
		Y	4.66	67.15	16.40		150.0	
		Z	4.48	67.43	16.53		150.0	
10525- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.63	66.73	16.38	0.00	150.0	± 9.6 %
		Υ	4.62	66.18	15.99		150.0	
40500		Z_	4.49	66.49	16.12		150.0	
10526- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.82	67.13	16.53	0.00	150.0	± 9.6 %
		Y	4.82	66.58	16.14		150.0	
40507	IEEE 000 44 MININGS CONTROL OF THE C	Z	4.64	66.83	16,26		150.0	
10527- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.74	67.11	16.49	0.00	150.0	± 9.6 %
		Y	4.73	66.55	16.09		150.0	
40500	IFF 000 44	Z	4.57	66.80	16.20		150.0	
10528- <u>AA</u> A	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.76	67.13	16.52	0.00	150.0	± 9.6 %
		Y	4.75	66.57	16.12		150.0	
40500		Z	4.58	66.81	16.23		150.0	
10529- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.76 	67.13	16.52	0.00	150.0	± 9.6 %
		Υ	4.75	66.57	16.12		150.0	
10504	IEEE OOR 47 AMERICAN	Z	4.58	66.81	16.23		150.0	
10531- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.77	67.27	16.55	0.00	150.0	± 9.6 %
		Υ	4.76	66.71	16.15		150.0	
		Z	4.56	66.89	16.24		150.0	
10532- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.62	67.15	16.50	0.00	150.0	± 9.6 %
		Υ	4.61	66.57	16.09		150.0	
		Z	4.43	66.75	16.17		150.0	
10533- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.77	67.17	16.50	0.00	150.0	±9.6 %
		Υ_	4.76	66.59	16.10		150.0	-
	4	Z	4.59	66.88	16.23		150.0	_
10534- ³	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.27	67.15	16.50	0.00	150.0	± 9.6 %
		Y	5.27	66.72	16.17		150.0	
		Z	5.12	66.84	16.26		150.0	-
10535- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.34	67.31	16.57	0.00	150.0	± 9.6 %
		Υ	5.34	66.86	16.23		150.0	 -
10500		Z	5.19	67.03	16.35		150.0	
10536- <u>AAA</u>	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.22	67.31	16.55	0.00	150.0	± 9.6 %
		Υ	5.21	66.84	16.21		150.0	
4000-		Z	5.06	66.99	16.32	 -	150.0	
10537- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	Х	5.27	67.26	16.52	0.00	150.0	± 9.6 %
		Υ	5.28	66.82	16.20		150.0	
40500	IEEE OOO AA AANTANA	Ζ	5.12	66.94	16.29		150.0	
10538- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.37	67.28	16.57	0.00	150.0	± 9.6 %
		Y	5.39	66.89	16.27		150.0	
10515		Z	5.20	66.94	16.33		150.0	
10540- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	Х	5.29	67.28	16.59	0.00	150.0	± 9.6 %
		Y	5.29	66.84	16.26		150.0	

10541- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.26	67.15	16.52	0.00	150.0	± 9.6 %
		Y	5.27	66.73	16.20		150.0	
		Z	5.11	66.82	16.27		150.0	
10542- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.42	67.19	16.55	0.00	150.0	± 9.6 %
_		Υ	5.42	66.79	16.25		150.0	
		Z	5.26	66.90	16.33		150.0	
10543- <u>AAA</u>	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	Х	5.49	67.21	16.57	0.00	150.0	± 9.6 %
	·	Y	5.51	66.80	16.27		150.0	
		Z	5.32	66.91	16.36		150.0	
10544- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	Х	5.57	67.22	16.46	0.00	150.0	± 9.6 %
		Υ	5.56	66.82	16.16		150.0	
40-4-		Z	5.45	66.92	16.24		150.0	
10545- <u>AAA</u>	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.77	67.65	16.61	0.00	150.0	± 9.6 %
	-	Y	5.78	67.25	16.32		150.0	
405.5		Z	5.64	67.38	16.42		150.0	
10546- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.65	67.48	16.55	0.00	150.0	± 9.6 %
		Y	5.65	67.10	16.26		150.0	
	<u> </u>	Z	5.50	67.09	16.30		150.0	
10547- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.73 —	67.53	16.56	0.00	150.0	± 9.6 %
		Y	5.74	67.18	16.29		150.0	
		Z	5.57	67.16	16.32		150.0	
10548- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	Х	6.02	68.59	17.06	0.00	150.0	± 9.6 %
		Y	6.08	68.34	16.83		150.0	
		Z	5.80	68.04	16.74		150.0	
10550- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	×	5.67	67.46	16.54	0.00	150.0	± 9.6 %
		Y	5.67	67.06	16.25		150.0	
		Z	5.54	67.19	16.36		150.0	
10551- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.68	67.52	16.53	0.00	150.0	± 9.6 %
		Y	5.69	67.13	16.25		150.0	
		Z	5.53	67.15	16.30		150.0	
10552- AAA	HEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	Х	5.59	67.30	16.44	0.00	150.0	± 9.6 %
		Y	5.59	66.90	16.14		150.0	
		Z	5.46	67.00	16.23		150.0	
10553- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.68	67.34	16.48	0.00	150.0	± 9.6 %
		Y	5.68	66.95	16.20		150.0	
		Z	5.53	67.00	16.26		150.0	
10554- AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	Х	5.97	67.57	16.52	0.00	150.0	± 9.6 %
		Y	5.97	67.21	16.26		150.0	
		Z	5.86	67.27	_16.32		150.0	
10555- AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Х	6.11	67.88	16.66	0.00	150.0	± 9.6 %
		Y	6.11	67.54	16.39		150.0	
10556-	IEEE 802.11ac WiFi (160MHz, MCS2,	Z X	5.98 6.13	67.57 67.93	16.45 16.67	0.00	150.0 150.0	± 9.6 %
AAB	99pc duty cycle)		0.40	07.50	40.40		450.0	
	 	Y	6.13	67.56	16.40		150.0	
10557-	IEEE 902 11 po M/IE (460MU - MOCC	Z	6.01	67.63	16.48	0.00	150.0	
AAB	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	6.10	67.85	16.65	0.00	150.0	± 9.6 %
	-	Y	6.11	67.51	16.40		150.0	
		Z	5.97	67.50	16.43		150.0	

10560- AAB 10561- AAB 10562- AAB 10563- AAB	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X Y Z X Y Z X	6.16 6.17 6.01 6.15 6.16 6.00 6.06	68.03 67.70 67.66 67.86 67.52 67.50	16.76 16.50 16.53 16.71	0.00	150.0 150.0 150.0 150.0	± 9.6 %
10561- AAB 10562- AAB 10563-	99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS8,	Z X Y Z X	6.01 6.15 6.16 6.00	67.66 67.86 67.52	16.53 16.71	0.00	150.0	± 9.6 %
10561- AAB 10562- AAB 10563-	99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS8,	X Y Z X	6.15 6.16 6.00	67.86 67.52	16.71	0.00		± 9.6 %
10561- AAB 10562- AAB 10563-	99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS8,	Y Z X	6.16 6.00	67.52		0.00	150.0	± 9.6 %
10562- AAB	99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS8,	X	6.00		16 45		1	1
10562- AAB	99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS8,	X		67.50	10.70		150.0	
10562- AAB	99pc duty cycle) IEEE 802.11ac WiFi (160MHz, MCS8,	Y	6.06		16.49		150.0	
10563-	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)			67.83	16.73	0.00	150.0	± 9.6 %
10563-	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	Z	6.07	67.48	16.47		150.0	
10563-	99pc duty cycle)		5.94	67.50	16.52		150.0	
		X	6.21	68.28	16.96	0.00	150.0	± 9.6 %
		Y	6.23	67.97	16.72		150.0	
		Z	6.03	67.79	16.67		150.0	
	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	Х	6.55	68.85	17.19	0.00	150.0	± 9.6 %
		Υ	6.59	68.58	16.96		150.0	
40501	VEET 200 47 144-15	Z	6.12	67.71	16.59		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	4.99	67.50	16.82	0.46	150.0	± 9.6 %
		<u> </u>	5.01	67.06	16.50		150.0	
-10-0-	·	Z	4.85	67.32	16.61		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	5.24	67.95	17.13	0.46	150.0	± 9.6 %
		Υ	5.26	67.54	16.83		150.0	
		Z	5.06	67.72	16.90		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	5.07	67.84	16.98	0.46	150.0	± 9.6 %
		Y	5.10	67.41	16.66		150.0	
		Z	4.90	67.58	16.73		150.0	
	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	5.11	68.24	17.33	0.46	150.0	± 9.6 %
		Y	5.13	67.80	17.01		150.0	
		Z	4.93	67.94	17.07		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	Х	4.99	67.61	16.75	0.46	150.0	± 9.6 %
		Y	5.01	67.15	16.42		150.0	
		Z	4.83	67.42	16.55		150.0	
10569- ** AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	5.06	68.33	17.39	0.46	150.0	± 9.6 %
		Y	5.07	67.85	17.05		150.0	
		Z	4.91	68.11	17.17	_	150.0	_
	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	Х	5.09	68.14	17.31	0.46	150.0	± 9.6 %
		Υ	5.11	67.68	16.98		150.0	_
1005		Z	4.92	67.93	17.09		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.50	68.95	18.38	0.46	130.0	± 9.6 %
		Y	1.40	66.38	16.51	_	130.0	
		Z	1.40	67.23	17.09		130.0	
	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	Х	1.55	69.98	18.93	0.46	130.0	± 9.6 %
		Υ	1.43	67.06	16.91		130.0	
40570	IEEE 000 / 41 W ====	Z	1.44	67.99	17.53		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	100.00	153.35	41.94	0.46	130.0	± 9.6 %
		Υ	<u>5</u> .15	96.81	26.53		130.0	
1055		Ζ	50.11	136.49	37.17		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	Х	2.59	83.81	24.92	0.46	130.0	± 9.6 %
		Y	1.75	74.27	20.26		130.0	
		Z	1.86	76.56	21.49		130.0	

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.81	67.37	16.92	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)							20.0 /0
		Y	4.84	66.96	16.62		130.0	
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.68	67.23	16.73		130.0	
AAA	OFDM, 9 Mbps, 90pc duty cycle)	X	4.84	67.54	16.99	0.46	130.0	± 9.6 %
		Y	4.86	67.12	16.68		130.0	
10577-	IEEE 900 44 - WEE 0 4 OU / 1000	Z	4.71	67.40	16.79		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	5.05	67.83	17.14	0.46	130.0	± 9.6 %
	-	Y	5.09	67.44	16.86		130.0	
10578-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.89	67.64	16.94	- 10	130.0	
AAA	OFDM, 18 Mbps, 90pc duty cycle)		4.96	68.04	17.27	0.46	130.0	± 9.6 %
	-	Y	4.99	67.62	16.97		130.0	
10579-	IEEE 903 44a WiEi 3 4 CH- (DCCC	Z	4.79	67.80	17.04		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.73	67.38	16.62	0.46	130.0	± 9.6 %
	<u> </u>	Y	4.76	66.96	16.31		130.0	
10580-	IEEE 902 11a WEE 2 4 CUE / 0000	Z	4.57	67.14	16.40		130.0	
AAA 	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	X	4.77	67.37	16.62	0.46	130.0	± 9.6 %
	 	Y	4.80	66.94	16.31		130.0	
10581-	IEEE 909 44g MEE: 0.4 OUT (DOOD	Z	4.61	67.21	16.43		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.86	68.14	17.25	0.46	130.0	± 9.6 %
		Y	4.89	67.70	16.92		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.70 4.67	67.90 67.12	17.02 16.41	0.46	130.0 130.0	± 9.6 %
	OT DITT, OT THIS POT, OG PO GALLY CYCLO)	Y	4.71	66.71	16.10		130.0	
·		Z	4.51	66.92	16.20		130.0	
10583- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.81	67.37	16.92	0.46	130.0	± 9.6 %
-		Υ	4.84	66.96	16.62		130.0	
		Z	4.68	67.23	16.73		130.0	
10584- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.84	67.54	16.99	0.46	130.0	± 9.6 %
		Y	4.86	67.12	16.68		130.0	
		Z	4.71	67.40	16.79		130.0	
10585- AAA	HEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	Х	5.05	67.83	17.14	0.46	130.0	± 9.6 %
		Y	5.09	67.44	16.86		130.0	
		Z	4.89	67.64	16.94		130.0	
10586- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.96	68.04	17.27	0.46	130.0	± 9.6 %
		Y	4.99	67.62	_16.97		130.0	
		Z	4.79	67.80	17.04		130.0	
10587- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.73	67.38	16.62	0.46	130.0	± 9.6 %
		Y	4.76	66.96	16.31		130.0	
		LZ.	4.57	67.14	16.40		130.0	
10588- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	Х	4.77	67.37	16.62	0.46	130.0	± 9.6 %
		Υ	4.80	66.94	16.31		130.0	
		Z	<u>4.</u> 61	67.21	16.43		130.0	
10589- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.86	68.14	17.25	0.46	130.0	± 9.6 %
		Y	4.89	67.70	16.92		130.0	
10505		Z	4.70	67.90	17.02		130.0	
10590- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.67	67.12	16.41	0.46	130.0	± 9.6 %
		Υ	4.71	66.71	16.10		130.0	
		Z	4.51	66.92	16.20	-	130.0	

10592- IEE AAA MC 10593- IEE AAA MC 10594- AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10600- IEE AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC 10603- IEE AAA MC	EEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) EEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) EEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X Y Z X Y Z X	4.95 4.98 4.83 5.12 5.15	67.39 67.01 67.26 67.74	16.99 16.71 16.81	0.46	130.0 130.0 130.0	± 9.6 %
10593- IEE AAA MC 10594- AAA MC 10595- AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- IEE AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC	ICS1, 90pc duty cycle) EEE 802.11n (HT Mixed, 20MHz,	Z X Y Z	4.83 5.12 5.15	67.26	16.81			
10593- IEE AAA MC 10595- AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- IEE AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC	ICS1, 90pc duty cycle) EEE 802.11n (HT Mixed, 20MHz,	X Y Z	5.12 5.15					+
10593- IEE AAA MC 10595- AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- IEE AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC	ICS1, 90pc duty cycle) EEE 802.11n (HT Mixed, 20MHz,	Y	5.15	67.74	47.40		1.00.0	
10594- IEE AAA MC 10595- AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC 10602- AAA MC 10603- IEE I		Z			17.12	0.46	130.0	± 9.6 %
10594- IEE AAA MC 10595- AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC 10602- AAA MC 10603- IEE I				67.35	16.84		130.0	
10594- IEE AAA MC 10595- AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10600- AAA MC 10601- ** IEE AAA MC 10601- ** IEE AAA MC 10602- AAA MC		X	4.97	67.58	16.94		130.0	-
10595- IEE AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- IEE AAA MC 10602- AAA MC 10603- IEEI			5.04	67.68	17.02	0.46	130.0	± 9.6 %
10595- IEE AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- IEE MC 10602- AAA MC 10603- IEEI		Y	5.08	67.30	16.74		130.0	
10595- IEE AAA MC 10596- AAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- IEE AAA MC 10602- AAA MC 10603- IEEI		Z	4.89	67.49	16.82		130.0	
10596- JEEAAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- FEEAAA MC 10601- FEEAAA MC 10602- AAA MC 10603- IEEE	EEE 802.11n (HT Mixed, 20MHz, ICS3, 90pc duty cycle)	X	5.10	67.84	17.17	0.46	130.0	± 9.6 %
10596- JEEAAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- FEEAAA MC 10601- FEEAAA MC 10602- AAA MC 10603- IEEE		Y	5.14	67.45	16.88		130.0	
10596- JEEAAA MC 10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- FEEAAA MC 10601- FEEAAA MC 10602- AAA MC 10603- IEEE		Z	4.94	67.65	16.97		130.0	
10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- AAA MC 10602- AAA MC 10603- IEEI	EE 802.11n (HT Mixed, 20MHz, ICS4, 90pc duty cycle)	X	5.07	67.81	17.07	0.46	130.0	± 9.6 %
10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- AAA MC 10602- AAA MC 10603- IEEI		Υ	<u>5.11</u>	67.42	16.78		130.0	
10597- AAA MC 10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- AAA MC 10602- AAA MC 10603- IEE		Z	4.91	67.63	16.88		130.0	
10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- AAA MC 10602- AAA MC 10603- IEE	EE 802.11n (HT Mixed, 20MHz, ICS5, 90pc duty cycle)	X	5.01	67.82	17.09	0.46	130.0	± 9.6 %
10598- AAA MC 10599- AAA MC 10600- AAA MC 10601- AAA MC 10602- AAA MC 10603- IEE		Υ Υ	5.05	67.42	16.79		130.0	
10598- IEE MC 10599- AAA MC 10600- IEE MC 10601- IEE MC 10602- AAA MC 10603- IEEI	_	Z	4.85	67.64	16.90		130.0	
10599- IEE MC: 10600- IEE MC: 10601- IEE MC: 10602- IEE MC: 10603- IEEI	EE 802.11n (HT Mixed, 20MHz, ICS6, 90pc duty cycle)	Х	4.96	67.75	16.98	0.46	130.0	± 9.6 %
10599- IEE MC: 10600- IEE MC: 10601- IEE MC: 10602- IEE MC: 10603- IEEI		Y	5.00	67.35	16.69		130.0	
10599- IEE MC: 10600- IEE MC: 10601- IEE MC: 10602- IEE MC: 10603- IEEI		_ Z	4.80	67.53	16.77		130.0	
10600- IEE AAA MC: 10601- ** IEE AAA MC: 10602- AAA MC: 10603- IEEI	EE 802.11n (HT Mixed, 20MHz, CS7, 90pc duty cycle)	X	4.95	68.01	17.26	0.46	130.0	± 9.6 %
10600- IEE AAA MC: 10601- IEE AAA MC: 10602- IEE MC: 10603- IEEI		Y	4.98	67.61	16.96		130.0	
10600- IEE AAA MC: 10601- ** IEE AAA MC: 10602- AAA MC: 10603- IEEI		Z	4.78	67.73	17.01		130.0	
10601- " IEEI AAA MC: 10602- AAA MC: 10603- IEEI	EE 802.11n (HT Mixed, 40MHz, CS0, 90pc duty cycle)	X	5.60	67.86	17.12	0.46	130.0	± 9.6 %
10601- " IEEI AAA MC: 10602- AAA MC: 10603- IEEI		Y	5.66	67.61	16.91		130.0	
10601- " IEEI AAA MC: 10602- AAA MC: 10603- IEEI		Z	5.48	67.70	16.99		130.0	
10602- IEEI MCS 10603- IEEI	EE 802.11n (HT Mixed, 40MHz, CS1, 90pc duty cycle)	X	5.78	68.39	17.36	0.46	130.0	± 9.6 %
10602- IEEI MCS 10603- IEEI		Y	5.85	68.19	17.17		130.0	
10602- IEEI MCS 10603- IEEI		Z	5.62	68.16	17.20		130.0	 -
AAA MCS	EE 802.11n (HT Mixed, 40MHz, CS2, 90pc duty cycle)	Х	5.65	68.09	17.22	0.46	130.0	± 9.6 %
AAA MCS		Υ	5.71	67.83	17.01		130.0	
AAA MCS		Z	5.51	67.89	17.08		130.0	
	EE 802.11n (HT Mixed, 40MHz, CS3, 90pc duty cycle)	X	5.73	68.07	17.13	0.46	130.0	± 9.6 %
		Y	5.79	67.82	16.93		130.0	
		Z	5.63	68.04	17.07		130.0	
	EE 802.11n (HT Mixed, 40MHz, CS4, 90pc duty cycle)	X	5.82	68.41	17.43	0.46	130.0	± 9.6 %
		Y	5.87	68.11	17.19		130.0	
		Z	5.69	68.27	17.32		130.0	
10604- IEEE AAA MCS	EE 802.11n (HT Mixed, 40MHz, CS5, 90pc duty cycle)	X	5.61	67.82	17.13	0.46	130.0	± 9.6 %
		Y	5.66	67.56	16.91		130.0	
		Z	5.56	67.91	17.12		130.0	
10605- IEEE AAA MCS	EE 802.11n (HT Mixed, 40MHz, CS6, 90pc duty cycle)	X	5.73	68.17	17.30	0.46	130.0	± 9.6 %
		Y	5.77	67.87	17.07		130.0	
		Z	5.62	68.08	17.21		130.0	
10606- IEEE AAA MCS	EE 802.11n (HT Mixed, 40MHz, CS7, 90pc duty cycle)	Х	5.50	67.62	16.90	0.46	130.0	± 9.6 %
		Y	5.53	67.31	16.65		130.0	
		Z	5.35	67.34	16.70		130.0	

10607- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.80	66.75	16.64	0.46	130.0	± 9.6 %
		Y	4.81	66.30	16.32		130.0	
10608- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	Z X	4.67 5.00	66.60 67.18	16.45 16.81	0.46	130.0 130.0	± 9.6 %
	sope daty cycle)	Y	5.02	66.72	16.48		130.0	
=		Z	4.84	66.98	16,61	_	130.0	
10609- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.89	67.06	16.67	0.46	130.0	± 9.6 %
		Y	4.91	66.60	16.34		130.0	_
		Z	4.73	66.84	16.45		130.0	
10610- <u>A</u> AA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	Х	4.94	67.21	16.82	0.46	130.0	± 9.6 %
		_ Y	4.96	66.76	16.50		130.0	
		Z	4.78	66.99	16.61		130.0	
10611- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.86 ———	67.03	16.68	0.46	130.0	± 9.6 %
		Y	4.89	66.59	16.36		130.0	
10010	IEEE 000 44 MEET (000 HT 1400 F	Z	4.70	66.81	16.46	<u> </u>	130.0	
10612- AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.88	67.21	16.74	0.46	130.0	±9.6 %
	-	Y 7	4.90	66.74	16.40		130.0	
10613-	IEEE 802.11ac WiFi (20MHz, MCS6,	Z	4.71	66.99	16.53	0.10	130.0	
AAA	90pc duty cycle)	_	4.89	67.11	16.63	0.46	130.0	± 9.6 %
		Y	4.91	66.65	16.30		130.0	
10614- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	Z X	4.71 4.83	66.83 67.31	16.39 16.87	0.46	130.0 130.0	± 9.6 %
		Y	4.85	66.84	16.53		130.0	
		Z	4.66	67.02	16.61		130.0	
10615- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.86	66.85	16.46	0.46	130.0	± 9.6 %
		Y	4.89	66.40	16.13		130.0	
		Z	4.70	66.67	16.26		130.0	
10616- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	Х	5.44	67.18	16.77	0.46	130.0	± 9.6 %
		Y	5.47	66.84	16.51		130.0	
		Z	5.30	66.94	16.59		130.0	
10617- AAA	JEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.50	67.33	16.81	0.46	130.0	± 9.6 %
		Y	5.52	66.94	16.53		130.0	
10015	1555 000 44	Z	5.38	67.17	16.68		130.0	
10618- AAA	IEEE 802.11ac WIFi (40MHz, MCS2, 90pc duty cycle)	Х	5.40 —-	67.39	16.87	0.46	130.0	± 9.6 %
	ļ	Y	5.42	67.02	16.59		130.0	
10619- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.27 5.42	67.18 67.21	16.70 16.71	0.46	130.0 130.0	± 9.6 %
	Jupo daty dyoldy	Y	5.44	66.85	16.44		130.0	
		Z	5.28	66.96	16.53		130.0	
10620- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.51	67.25	16.78	0.46	130.0	± 9.6 %
		_ Y	5.56	66.94	16.53		130.0	
		Z	5.36	66.98	16.59		130.0	
10621- AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.50	67.33	16.93	0.46	130.0	± 9.6 %
		Y	5.53	67.00	16.68		130.0	
		Z	5.36	67.10	16.76		130.0	
10622- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.51	67.50	17.01	0.46	130.0	± 9.6 %
		Υ	5.53	67.13	16.73		130.0	
		Z	5.38	67.30	16.85		130.0	

10623- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.39	67.03	16.66	0.46	130.0	± 9.6 %
		Y	5.41	66.69	16.40		130.0	
		Z	5.25	66.80	16.48	 	130.0	<u> </u>
10624- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.58	67.21	16.80	0.46	130.0	± 9.6 %
	0000 4447 0) 610)	Y	5.61	66.88	40.50	 	400 -	
			5.44		16.56		130.0	<u> </u>
10625-	IEEE 802.11ac WiFi (40MHz, MCS9,	Z		66.99	16.64		130.0	
AAA	90pc duty cycle)	X	5.99	68.31	17.39	0.46	130.0	± 9.6 %
		_ Y	6.04	68.02	17.17		130.0	
10626-	IFFE 000 44 W/F' (0014) - 14000	Z	5.71	67.69	17.04		130.0	
AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.71	67.19	16.69	0.46	130.0	± 9.6 %
		Y	5.72	66.86	16.44		130.0	
40007	<u> </u>	Z	5.61	66.97	16.54		130.0	
10627- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	×	5.96	67.77	16.93	0.46	130.0	± 9.6 %
		Y	5.99	67.46	16.69		130.0	
_		Z	5.86	67.59	16.81		130.0	
10628- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.76	67.34	16.66	0.46	130.0	± 9.6 %
		Y	5.79	67.03	16.42	 	130.0	
		Z	5.63	67.03	16.47		130.0	
10629- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.85	67.42	16.69	0.46	130.0	± 9.6 %
		Y	5.87	67.09	16.44		130.0	
		Z	5.71	67.12	16.51		130.0	
10630- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.37	69.15	17.55	0.46	130.0	± 9.6 %
		Y	6.48	69.04	17.41		100.0	
		Ż	6.10	68.51	17.21		130.0	
10631-	IEEE 802.11ac WiFi (80MHz, MCS5,	X	6.23	68.84	17.58	0.46	130.0	± 9.6 %
AAA	90pc duty cycle)					0.10		2 3.0 /0
		<u> </u>	6.30	68.64	17.40		130.0	
10632-	IEEE 802.11ac WiFi (80MHz, MCS6,	Z	6.00	68.26	17.26		130.0	
AAA	90pc duty cycle)	X	5.93	67.81	17.09	0.46	130.0	± 9.6 %
		Υ	5.96	67.50	16.85		130.0	
40000	- IEEE 020 44	Z	5.82	67.64	16.97		130.0	
10633- * AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.83	67.50	16.76	0.46	130.0	± 9.6 %
		Υ	5.88	67.25	16.56		130.0	
		Z	5.69	67.21	16.59		130.0	
10634- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	Х	5.81	67.52	16.84	0.46	130.0	± 9.6 %
		Y	5.85	67.23	16.61		130.0	
		Z	5.67	67.21	16.64		130.0	
10635- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.70	66.87	16.25	0.46	130.0	± 9.6 %
		Y	5.74	66.58	16.02		120.0	
		Z	5.55	66.58	16.02		130.0	
10636- AAB	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.12	67.55	16.76	0.46	130.0 130.0	± 9.6 %
		Y	6.14	67.26	16.54		120.0	
		Ż	6.03	67.32	16.54		130.0	
10637- AAB	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.28	67.94	16.93	0.46	130.0 130.0	± 9.6 %
		Y	6.31	67.65	16.72		400.0	
		ż	6.19	67.72			130.0	
10638- AAB	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.19	67.91	16.79 16.90	0.46	130.0 130.0	± 9.6 %
		Y	- 6.04	07.00	L			
			6.31	67.62	16.68		130.0	
	<u> </u>	Z	6.18	67.68	16.75		130.0	

10639-	IEEE 802.11ac WiFi (160MHz, MCS3,	X	6.27	67.88	16.93	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	_Y	6.30	67.00	16.70		400.0	
		Z	6.15	67.62 67.59	16.73 16.75		130.0 130.0	
10640-	IEEE 802.11ac WiFi (160MHz, MCS4,	X	6.29	67.93	16.73	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	.						
		Υ	6.33	67.70	16.71		130.0	
40044		Z	6.15	67.62	16.71		130.0	
10641- AAB	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.30	67.74	16.81	0.46	130.0	± 9.6 %
		Y	6.32	67.44	16.59		130.0	
		Z	6.22	67.59	16.72		130.0	
10642- AAB	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.36	68.03	17.13	0.46	130.0	± 9.6 %
		Y	6.39	67.76	16.92		130.0	
		Z	6.23	67.75	16.95		130.0	·
10643- AAB	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	Х	6.19	67.72	16.88	0.46	130.0	± 9.6 %
		Y	6.22	67.45	16.67		130.0	
		Z	6.09	67.50	16.74		130.0	
10644- AAB	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	Х	6.39	68.34	17.21	0.46	130.0	± 9.6 %
-		Υ	6.45	68.14	17.04		130.0	
		Z	6.20	67.86	16.93		130.0	
10645- AAB	IEEE 802.11ac WIFi (160MHz, MCS9, 90pc duty cycle)	Х	6.86	69.27	17.61	0.46	130.0	± 9.6 %
		Υ	6.87	68.89	17.35		130.0	
		Z	6.34	67.93	16.93		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Х	58.91	128.47	41.72	9.30	60.0	± 9.6 %
	4	Υ	22.23	103.66	34.19		60.0	
-		Z	97.77	144.05	46.65		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	Х	62.96	130.94	42.54	9.30	60.0	± 9.6 %
		Y	22.84	105.02	34.74		60.0	
		Z	100.00	145.78	47.28		60.0	
10648- AAA	CDMA2000 (1x Advanced)	Х	1.21	71.90	15.83	0.00	150.0	± 9.6 %
		Y	0.81	64.89	12.16		150.0	
		Z	0.74	65.22	11.47		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	4.72	70.40	18.28	2.23	80.0	± 9.6 %
		Υ	4.59	69.04	17.59		80.0	
		Z	4.50	69.96	17.82		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	Х	5.05	69.01	18.05	2.23	80.0	± 9.6 %
		Y	5.03	68.18	17.58		80.0	
		Z	4.88	68.67	17.76		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.97	68.58	18.01	2.23	80.0	± 9.6 %
		Y	4.96	67.84	17.57		80.0	
		Z	4.83	68.24	17.75		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	5.02	68.56	18.04	2.23	80.0	± 9.6 %
		Υ	5.02	67.86	17.60		80.0	
		Z	4.89	68.17	17.77		80.0	

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

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





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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

PC Test

Certificate No: ES3-3329 Feb18

CALIBRATION CERTIFICATE

Object ES3DV3 - SN:3329

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

Calibration procedure for dosimetric E-field probes

Calibration date:

February 13, 2018

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

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

Calibration Equipment used (M&TE critical for calibration)

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

Name Function Signature
Calibrated by: Michael Weber Laboratory Technician

Katja Pokovic

Issued: February 13, 2018

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

Certificate No: ES3-3329_Feb18

Approved by:

Page 1 of 39

Technical Manager

Calibration Laboratory of

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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, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-

 b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016

c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

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

Certificate No: ES3-3329_Feb18 Page 2 of 39

Probe ES3DV3

SN:3329

Manufactured:

January 24, 2012

Calibrated:

February 13, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3329

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k≃2)
Norm (μV/(V/m) ²) ^A	1.08	1.15	1.10	± 10.1 %
DCP (mV) ^B	105.0	106.3	106.7	

Modulation Calibration Parameters

UID	Communication System Name		Α	В	С	D	VR	Unc
			dB	dB√μV		dB	mV	(k=2)
0	CW	Х	0.0	0.0	1.0	0.00	192.2	±3.5 %
		Y	0.0	0.0	1.0		202.5	
		Z	0.0	0.0	1.0		197.3	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1	C2	α	T1	T2	Т3	T4	T5	T6
	fF	fF	V ⁻¹	ms.V ⁻²	ms.V ^{~1}	ms	V-2	V-1	
X	61.07	442.7	35.96	29.67	3.213	5.100	0.000	0.729	1.011
Υ	61.44	428.6	33.77	29.49	3.159	5.087	1.026	0.480	1.011
Z	54.90	393.3	35.27	28.94	2.446	5.100	0.839	0.494	1.010

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

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

Numerical linearization parameter: uncertainty not required.

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

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3329

Calibration Parameter Determined in Head Tissue Simulating Media

•								
f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	6.79	6.79	6.79	0.59	1.32	± 12.0 %
835	41.5	0.90	6.41	6.41	6.41	0.66	1.28	± 12.0 %
1750	40.1	1.37	5.42	5.42	5.42	0.49	1.45	± 12.0 %
1900	40.0	1.40	5.22	5.22	5.22	0.80	1.18	± 12.0 %
2300	39.5	1.67	4.88	4.88	4.88	0.80	1.22	± 12.0 %
2450	39.2	1.80	4.69	4.69	4.69	0.68	1.38	± 12.0 %
2600	39.0	1.96	4.52	4.52	4.52	0.80	1.26	± 12.0 %

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

validity can be extended to ± 110 MHz.

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

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

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

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3329

Calibration Parameter Determined in Body Tissue Simulating Media

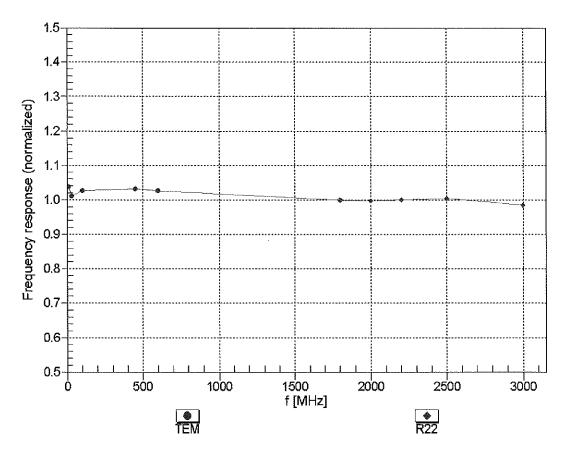
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	6.32	6.32	6.32	0.55	1.43	± 12.0 %
835	55.2	0.97	6.24	6.24	6.24	0.80	1.14	± 12.0 %
1750	53.4	1.49	5.04	5.04	5.04	0.45	1.68	± 12.0 %
1900	53.3	1.52	4.84	4.84	4.84	0.66	1.39	± 12.0 %
2300	52.9	1.81	4.60	4.60	4.60	0.80	1.26	± 12.0 %
2450	52.7	1.95	4.50	4.50	4.50	0.80	1.26	± 12.0 %
2600	52.5	2.16	4.25	4.25	4.25	0.80	1.28	± 12.0 %

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

F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to \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.

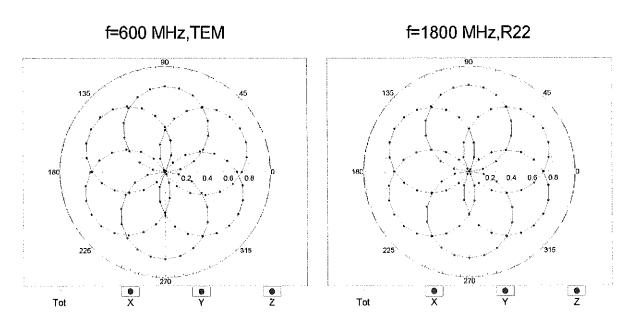
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

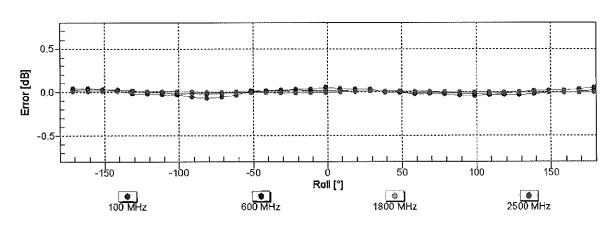


Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

ES3DV3-- SN:3329 February 13, 2018

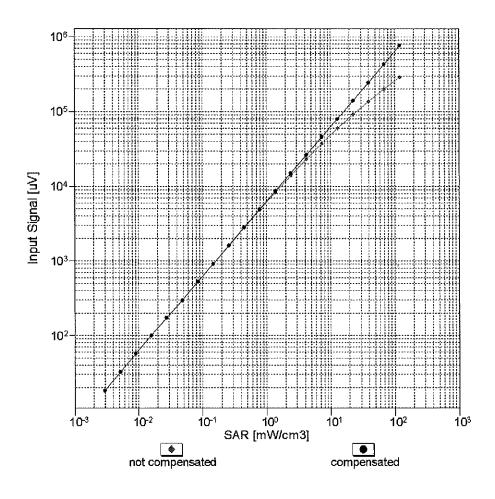
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

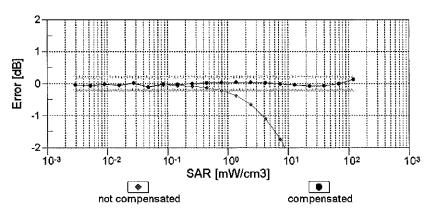




Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

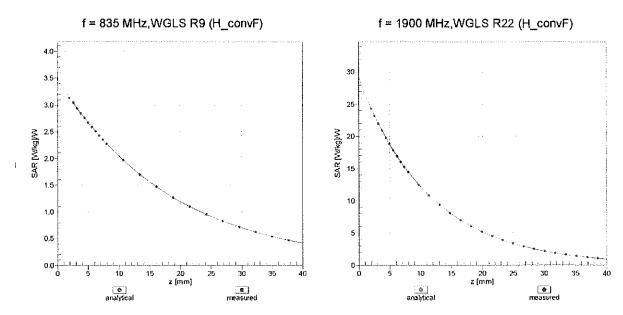
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



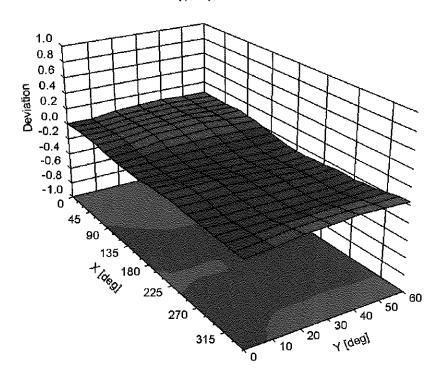


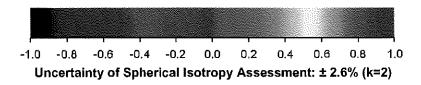
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



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





ES3DV3- SN:3329 February 13, 2018

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3329

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-41.3
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

Certificate No: ES3-3329_Feb18 Page 11 of 39

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Max Unc ^E (k=2)
0	cw	X	0.00	0.00	1.00	0.00	192.2	± 3.5 %
****		Y	0.00	0.00	1.00		202.5	0.0 70
		Z	0.00	0.00	1.00		197.3	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	Х	8.07	78.40	18,85	10.00	25.0	± 9.6 %
		Y	8.61	79.31	19.24		25.0	
		Z	8.19	78.93	18.43		25.0	
10011- CAB	UMTS-FDD (WCDMA)	Х	0.96	66.03	14.14	0.00	150.0	± 9.6 %
	***************************************	Y	1.13	69.20	16.20		150.0	
10012-	[EEE 902 44b W(E) 2 4 CU = /D200 4	Z	0.97	66.57	14.47		150.0	
CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	Х	1.25	64.43	15.20	0.41	150.0	± 9.6 %
		Y Z	1.33 1.25	65.74	16.16		150.0	
10013-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	5.14	64.71 67.09	15.40 17.30	1.46	150.0	1000
CAB	OFDM, 6 Mbps)					1.46	150.0	± 9.6 %
		Y	5.16	67.36	17.40		150.0	
10021-	GSM-FDD (TDMA, GMSK)	Z X	5.07 16.53	67.17 91.68	17.31 25.32	0.20	150.0	1000
DAC	COM-1 DD (1DIVIA, GIVIGIA)					9.39	50.0	± 9.6 %
		Y Z	15.14	89.85	24.66		50.0	***************************************
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	30.81 15.20	101.87 90.10	27.81 24.85	9.57	50.0 50.0	±9.6 %
D/ 10	***************************************	Y	14.19	88.62	24.29	**********	50.0	
		Z	25.32	98.58	26.89		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	60.17	111.34	29.15	6.56	60.0	± 9.6 %
		Υ	52.16	109.06	28,58		60.0	
		Z	100.00	117.39	29.91		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	Х	14.66	96.30	36.09	12.57	50.0	± 9.6 %
		Υ	18.90	103.98	39.13		50.0	
		Z	16.62	102.00	38.52		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Х	16.11	96.90	33.05	9.56	60.0	± 9.6 %
		Y	18.91	100.78	34.41		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	Z X	18.63 100.00	101.82 117.13	34.89 29.19	4.80	60.0 80.0	± 9.6 %
		Y	100.00	117.33	29.34		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	Z X	100.00 100.00	115.82 116.44	28.27 28.01	3.55	80.0 100.0	± 9.6 %
		Υ	100.00	117.18	28.42		100.0	
		Z	100.00	117.16	27.24		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	11.84	90.67	29.79	7.80	80.0	± 9.6 %
	***************************************	Y	13.73	94.06	31.03	4	80.0	
		Z	12.64	93.34	30.88		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Х	100.00	117.07	29.52	5.30	70.0	± 9.6 %
		Υ	100.00	117.17	29.62		70.0	
4=== /		Z	100.00	115.56	28.48		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	115.05	25.78	1.88	100.0	± 9.6 %
		Υ	100.00	118.02	27.19		100.0	
	1	Z	100.00	113.95	25.09		100.0	