Calibration Laboratory of

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





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

Accredited by the Swiss Accreditation Service (SAS)

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

Accreditation No.: SCS 0108

Client

	2/2	
-		

Certificate No: EX3-7308_Aug18

CALIBRATION	CERTIFICATE	
Object	EX3DV4 - SN:7308	
Calibration procedure(s)	QA CAL-01:v9; QA CAL-14:v4; QA CAL-23:v5; QA CAL-25.v6 Calibration procedure for dosimetric E-field probes	
Calibration date:	August 23, 2018 09-06	 -201
This calibration certificate docu The measurements and the un	iments the traceability to national standards, which realize the physical units of measurements (SI). certainties with confidence probability are given on the following pages and are part of the certificate.	
All calibrations have been cond	ducted in the closed laboratory facility: environment temperature (22 \pm 3)°C and humidity < 70%.	
Calibration Equipment used (M	&TE critical for calibration)	

Primary Standards	ID	Cal Date (Certificate No.)	School and California
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Scheduled Calibration
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)	Apr-19 Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check; Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-17)	In house check: Jun-20

0.5	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	Jell
Approved by:	Katja Pokovic	Tiechnical Manager	Mas

Issued: August 24, 2018

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

Certificate No: EX3-7308_Aug18

Calibration Laboratory of

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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Glossary:

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

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

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

Polarization φ

φ rotation around probe axis

Polarization 9

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

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

Connector Angle

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

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from 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: EX3-7308_Aug18 Page 2 of 39

Probe EX3DV4

SN:7308

Manufactured:

March 11, 2014 August 23, 2018

Calibrated:

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	0.49	0.60	0.44	± 10.1 %
DCP (mV) ^B	99.6	97.1	102.5	

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	177.2	±3.5 %
		Y	0.0	0.0	1.0		165.4	_
		Z	0.0	0.0	1.0		159.6	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V-2	T5 V ⁻¹	T6
X	53.71	401.2	35.76	12.80	0.351	5.077	0.717	0.413	1.005
Y	56.67	439.8	38.08	13.44	0.524	5.100	0.000	0.597	1.012
<u>Z</u>	40.98	304.1	35.29	8.573	0.334	5.045	1.531	0.174	1.005

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

⁸ Numerical linearization parameter: uncertainty not required.

 $^{^{\}rm A}$ The uncertainties of Norm X,Y,Z do not affect the E $^{\rm 2}$ -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	10.23	10.23	10.23	0.57	0.81	± 12.0 %
835	41.5	0.90	9.96	9.96	9.96	0.58	0.81	± 12.0 %
1750	40.1	1.37	8.66	8.66	8.66	0.36	0.80	± 12.0 %
1900	40.0	1.40	8.26	8.26	8.26	0.29	0.85	± 12.0 %
2300	39.5	1.67	7.81	7.81	7.81	0.29	0.85	± 12.0 %
2450	39.2	1.80	7.45	7.45	7.45	0.35	0.91	± 12.0 %
2600	39.0	1.96	7.30	7.30	7.30	0.35	0.87	± 12.0 %
5250	35.9	4.71	5.10	5.10	5.10	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.85	4.85	4.85	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.04	5.04	5.04	0.40	1.80	± 13.1 %

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

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 Alpha/Depth are determined during as the same applied to the convE 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	10.38	10.38	10.38	0.36	0.99	± 12.0 %
835	55.2	0.97	10.19	10.19	10.19	0.50	0.82	± 12.0 %
1750	53.4	1.49	8.13	8.13	8.13	0.27	1.04	± 12.0 %
1900	53.3	1.52	7.79	7.79	7.79	0.38	0.85	± 12.0 %
2300	52.9	1.81	7.73	7.73	7.73	0.37	0.80	± 12.0 %
2450	52,7	1.95	7.57_	7. <u>5</u> 7	7.57	0.34	0.88	± 12.0 %
2600	52.5	2.16	7.40	7.40	7.40	0.29	0.95	± 12.0 %
5250	48.9	5.36	4.48	4.48	4.48	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.00	4.00	4.00	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.18	4.18	4.18	0.50	1.90	<u>±</u> 13.1 %

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

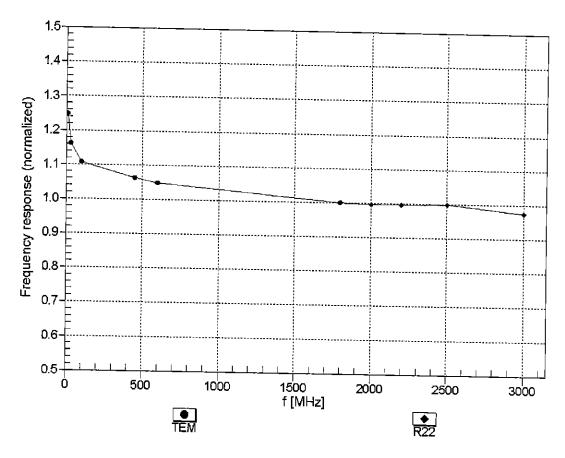
validity can be extended to ± 110 MHz.

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.

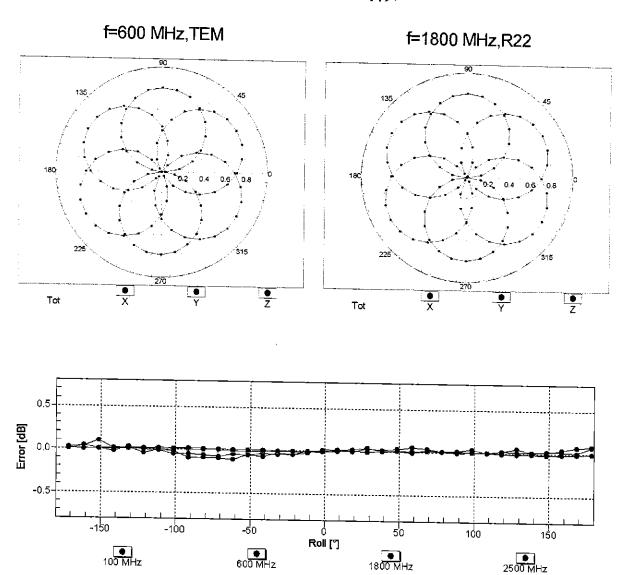
Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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

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



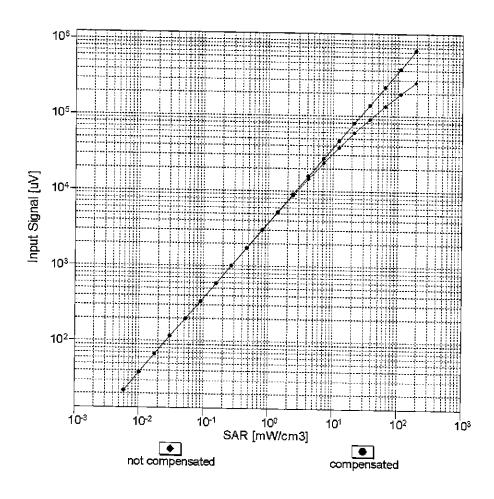
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

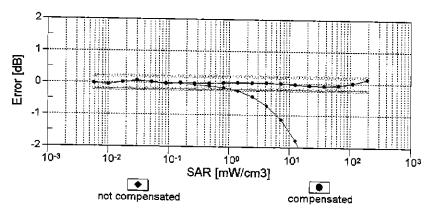
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$



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

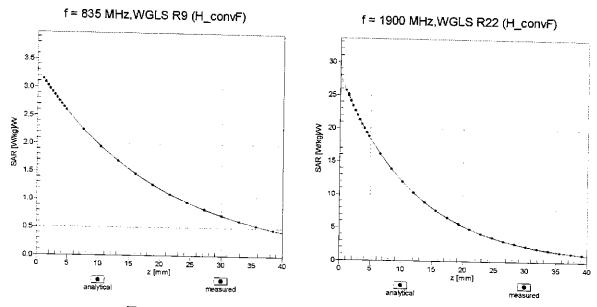
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



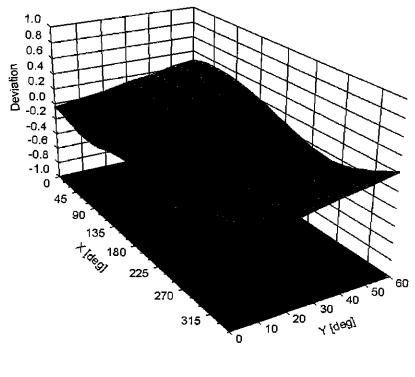


Uncertainty of Linearity Assessment: \pm 0.6% (k=2)

Conversion Factor Assessment



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



Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	
Mechanical Surface Detection Mode	108.5
	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	
Tip Diameter	9 mm
	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	
Recommended Measurement Distance from Surface	1 mm
2.5tanoo nom ounace	1.4 mm

Appendix: Modulation Calibration Parameters

UID	ix: Modulation Calibration Para Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max Unc ^E
0	CW	X	0.00	0.00	1.00	0.00	177.2	(k=2) ± 3.5 %
		Y	0.00	0.00	1.00	0.00	165.4	<u> </u>
		Z	0.00	0.00	1.00	-	159.6	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	2.71	68.17	11.26	10.00	20.0	± 9.6 %
		Υ	2.39	66.64	10.67		20.0	
		Z	1.90	64.26	9.03		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.19	70.37	17.06	0.00	150.0	±9.6 %
		Y	0.96	66.50	14.51		150.0	
40040	IEEE 000 441 1485 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z	1.05	68.92	16.00		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.18	64.67	16.08	0.41	150.0	± 9.6 %
	 	Υ	1.11	63.43	15.04		150.0	
10013-	IEEE 000 44 - NATE O 4 DO 4	Z	<u>1.</u> 13	64.11	15.48		150.0	
CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	4.93	66.75	17.26	1.46	150.0	± 9.6 %
	 	Y	4.92	66.47	17.15		150.0	
10021-	GSM-FDD (TDMA, GMSK)	Z	4.74	66.75	17.08	<u></u>	150.0	
DAC	GSW-FDD (TDWA, GMSK)	X	100.00	114.38	27.28	9.39	50.0	± 9.6 %
		Y	100.00	114.83	27.64		50.0	
10023-	GPRS-FDD (TDMA, GMSK, TN 0)	Z	100.00	109.69	24.90		50.0	
DAC	GFRS-FDD (TDIVIA, GIVISK, TN U)	X	100.00	113.94	27.13	9.57	50.0	± 9.6 %
	 	Y	100.00	114.49	27.54		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00 100.00	109.21 115.48	24.74 26.77	6.56	50.0 60.0	± 9.6 %
57.10		Y	100.00	114.18	20.00			
		Z	100.00	109.85	26.29		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	6.22	84.66	23.86 34.29	12.57	60.0 50.0	± 9.6 %
		Y	4.94	76.24	29.94		50.0	
		Z	5.36	79.88	31.57		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Х	11.81	100.22	36.35	9.56	60.0	± 9.6 %
		Υ	11.10	97.75	35.30		60.0	
		Z	7.89	90.81	32.78		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	118.27	27.22	4.80	80.0	± 9.6 %
	 	Υ	100.00	114.44	25.61		80.0	
40000	OPPO FROM	Z	_100.00	111.67	23.86		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	Х	100.00	122.72	28.40	3.55	100.0	± 9.6 %
	 	Y	100.00	114.80	25.04		100.0	
10029-	EDGE EDD (TDMA ODG)(THIS 4 C)	Z	100.00	114.83	24.49	<u> </u>	100.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	6.56	85.50	29.56	7.80	80.0	± 9.6 %
		Y	6.53	84.80	29.16		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	4.80 100.00	79.03 114.96	26.78 26.10	5.30	70.0	± 9.6 %
<u></u>		Y	100.00	112.69	25.18		70.0	
		Z	100.00	108.37	22.73		70.0 70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	126.84	28.53	1.88	100.0	± 9.6 %
		Ÿ	100.00	105.21	19.68	 -	100.0	
		1 1	[UU.U.U	1 1115 / 1	M D C			

10032-	IEEE 802.15.1 Bluetooth (GFSK, DH5)	T V	400.00	140.50	0=00	T 4 4=		T
CAA	TELE 802.13.1 Bidetootif (GFSK, DRS)	X	100.00	146.53	35.02	1.17	100.0	± 9.6 %
		Ý	100.00	95.65	15.05	┼	100.0	
		Z	100.00	112.23	21.08	 	100.0	
10033-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	X	100.00	133.98	36.90	5.30	70.0	± 9.6 %
CAA	DH1)	``	100.00	100.50	30.30	3.30	70.0	19.6%
		Y	94.91	132.14	36.35		70.0	- -
		Z	24.70	106.96	28.52	ļ <u>-</u>	70.0	
10034-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	X	8.70	95.28	25.33	1.88	100.0	± 9.6 %
CAA	DH3)					1.00	100.0	2 3.0 %
		Υ	4.18	83.23	21.11		100.0	
		Z	3.97	82.01	19.44		100.0	
10035-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	X	3.83	83.82	21.38	1.17	100.0	± 9.6 %
CAA	DH5)	ļ	<u></u>		<u> </u>			
		Y	2.23	74.99	17.69		100.0	
40000		Z	2.33	75.94	16.98		100.0	
10036-	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Х	100.00	134.50	37.14	5.30	70.0	± 9.6 %
CAA	 	<u> </u>						
	 	Y	100.00	133.48	36.76		70.0	
10037-	IEEE BOOKE A DIVINION OF BROKE THE	Z	56.60	119.91	31.85		70.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	7.69	93.53	24.78	1.88	100.0	± 9.6 %
		 		<u> </u>		<u> </u>	<u> </u>	
	 	Y	3.89	82.31	20.76		100.0	
10038-	IEEE 900 45 4 Division to 40 DDOK DIVE	Z	3.40	80.12	18.77		100.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	3.93	84.59	21.78	1.17	100.0	± 9.6 %
		 	0.00					
		Z	2.28	75.57	18.03		100.0	<u> </u>
10039-	CDMA2000 (1xRTT, RC1)	X	2.38	76.51	17.34	<u> </u>	100.0	
CAB	ODMAZOOO (TXKTT, KCT)	^	2.78	78.14	18.71	0.00	150.0	± 9.6 %
		Y	1.67	70.40	4404		 	
		Z-		70.12	14.94		150.0	
10042-	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-	X	2.00 100.00	74.01	15.76		150.0	
CAB	DQPSK, Halfrate)	^	100.00	110.92	24.96	7.78	50.0	± 9.6 %
		Υ	100.00	110.22	24.75		F0.0	
		Z	100.00	106.01		 	50.0	
10044-	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	112.58	22. <u>46</u> 4.43	0.00	50.0	
CAA		^	0.00	112.56	4.43	0.00	150.0	± 9.6 %
		Y	0.07	121.95	9.84	 	150.0	
		Ż	0.01	118.94	9.83		150.0	
10048-	DECT (TDD, TDMA/FDM, GFSK, Full	$\frac{\overline{x}}{x}$	100.00	111.48	27.44	13.80	150.0 25.0	1000
CAA	Slot, 24)	\ \`	100.00	111,40	27.44	13.60	25.0	± 9.6 %
		Υ	100.00	112.85	28.28		25.0	
		Z	18.65	86.54	19.90		25.0	
10049-	DECT (TDD, TDMA/FDM, GFSK, Double	X	100.00	112.40	26.75	10.79	40.0	+060/
CAA	Slot, 12)				0.70	10.79	40.0	± 9.6 %
		Y	100.00	113.42	27.38	 	40.0	- -
		Z	46.23	99.19	22.45	-	40.0	 _
10056-	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	100.00	126.85	34.82	9.03	50.0	± 9.6 %
CAA_						5.00	55.5	2.0 %
		Υ	100.00	126.84	34.96		50.0	
40055		Z	73.14	116.99	30.84		50.0	
10058-	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	4.87	79.06	26.07	6.55	100.0	± 9.6 %
DAC	<u> </u>							_ 5.5 /6
		Υ	4.89	78.72	25.82		100.0	
40050		Z	3.78	74.24	23.87		100.0	
10059-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	X	1.24	66.08	16.89	0.61	110.0	± 9.6 %
CAB	Mbps)					<u> </u>		_ 5.5 %
	<u> </u>	Y	1.15	64.70	15.80		110.0	
10060	IEEE OOO (4) WIELE	_ Z	1.15	65.12	16.08		110.0	
10060-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	Х	100.00	145.11	38.67	1.30	110.0	± 9.6 %
CAB	Mbps)							_ = - , •
		Υ,	100.00	138.14	35.54		110.0	
	<u> </u>	Z	100.00	143.13	37.45	_	110.0	
								<u> </u>

D064- REEE 802.11a WiFi 2.4 GHz (DSSS, 11				
TO062-	4 2.04	2.04 11	0.0 ± 9.6	3 %
10062-		11	0.0	
CAC Mbps Y 4.72 66.44 16.52	2	11	0.0	
Toolegan	0.49		0.0 ±9.6	%
IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 X 4.76 66.90 16.81	2	10	0.0	
CAC Mbps Y 4.74 66.55 16.64	3		0.0	
10064-	0.72		0.0 ± 9.6	%
Toda	1	10	0.0	
CAC Mbps Y 5.06 66.88 16.91	2		0.0	
10065- IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 X 4.93 67.08 17.15		0.86 10	0.0 ± 9.6	%
Tools		10	0.0	
CAC Mbps) Y 4.92 66.80 17.03 10066- CAC Mbps) Y 4.94 66.84 17.22 Mpps) Y 4.94 66.84 17.22 Z 4.70 66.94 17.07 10067- CAC Mbps) Y 5.23 66.94 17.07 CAC Mbps) Y 5.23 66.94 17.65 Z 4.99 67.15 17.52 10068- CAC Mbps) Y 5.23 66.94 17.65 Z 4.99 67.15 17.52 10068- CAC Mbps) Y 5.30 67.12 17.99 AND FOR THE BOOL 11a/h WiFi 5 GHz (OFDM, 48 X 5.28 67.31 17.99 AND FOR THE BOOL 11a/h WiFi 5 GHz (OFDM, 54 X 5.36 67.24 18.15 CAC Mbps) Y 5.38 67.05 18.11 10071- CAB (DSSS/OFDM, 9 Mbps) Y 5.01 66.58 17.48 10072- CAB (DSSS/OFDM, 12 Mbps) Y 5.05 67.07 17.56 DSSS/OFDM, 18 Mbps) Y 5.06 67.11 18.07 Z 4.84 67.21 17.87 AND FOR THE BOOL 11g WiFi 2.4 GHz X 5.05 67.07 17.56 CAB (DSSS/OFDM, 18 Mbps) Y 5.03 66.80 17.36 Y 5.06 67.11 18.07 Z 4.84 67.21 17.87 10074- CAB (DSSS/OFDM, 18 Mbps) Y 5.03 66.88 18.23 10075- CAB (DSSS/OFDM, 24 Mbps) Y 5.03 66.88 18.23 Y 5.03 66.88 18.23 Y 5.03 66.88 18.23 Y 5.03 66.88 18.26 Y 5.04 67.01 18.67 CAB (DSSS/OFDM, 36 Mbps) Y 5.08 67.13 18.01 10076- CAB (DSSS/OFDM, 48 Mbps) Y 5.08 67.18 18.60 Y 5.08 66.85 18.66 CAB (DSSS/OFDM, 48 Mbps) Y 5.08 66.85 18.66 A 4.86 66.95 18.41 10077- IEEE 802.11g WiFi 2.4 GHz X 5.05 67.08 18.01		10	0.0	
Tooleg-cac IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 X 4.95 67.11 17.33 17.72		1.21 10	0.0 ± 9.6	%
10066- IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 X 4.95 67.11 17.33		10	0.0	
CAC Mbps Y 4.94 66.84 17.22		100	0.0	
Too Too	Ш.		0.0 ± 9.6	%
Toops		10	0.0	
CAC Mbps Y 5.23 66.94 17.65			0.0	
Toole	2.04	2.04 100	0.0 ± 9.6	%
Toole	,	100	0.0	
CAC Mbps Y 5.30 67.12 17.95	?		0.0	
Toolog-	2.55	2.55 100	0.0 ± 9.6	%
Teel	; -	10	0.0	
CAC Mbps) Y 5.38 67.05 18.11 10071- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps) X 5.01 66.83 17.56 Y 5.01 66.58 17.48 Z 4.83 66.80 17.36 10072- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) X 5.00 67.20 17.81 10073- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) X 5.05 67.32 18.13 10074- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) X 5.01 67.21 17.87 10075- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) X 5.03 66.98 18.23 10076- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) X 5.05 67.33 18.61 10076- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) X 5.04 67.11 18.00 Y 5.08 67.18 18.60 Z 4.86 66.95 18.41 10077- IEEE 802.11g WiFi 2.4 GHz <			0.0	
Too Too				%
10071- CAB IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)		100	3.0	
Too71-			0.0	-
10072-				%
Table Tabl	5	100	3.0	-
Too Too		100		\dashv
Z 4.79 67.07 17.56				%
Table Tabl	;	100	2.0	
Teel Roy		100		
Table Tabl				%
Table Tabl		100	0.0	
10074-			0.0	\dashv
Table Tabl			0.0 ± 9.6	%
Table Tabl		100	5.0	$\neg \neg$
10075- IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) Y 5.08 67.18 18.60 Z 4.84 67.13 18.28 10076- IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) Y 5.06 66.85 18.66 Z 4.86 66.95 18.41 10077- IEEE 802.11g WiFi 2.4 GHz X 5.05 67.06 18.76			0.0	-
Z 4.84 67.13 18.28 10076- IEEE 802.11g WiFi 2.4 GHz X 5.04 67.01 18.67 18.67				%
Z 4.84 67.13 18.28 10076- IEEE 802.11g WiFi 2.4 GHz X 5.04 67.01 18.67		90	.0	\dashv
10076- IEEE 802.11g WiFi 2.4 GHz		90		\dashv
Z 4.86 66.95 18.41 10077- IEEE 802.11g WiFi 2.4 GHz X 5.05 67.06 18.76				%
Z 4.86 66.95 18.41 10077- IEEE 802.11g WiFi 2.4 GHz X 5.05 67.06 18.76	;	90	.0	
10077- IEEE 802.11g WiFi 2.4 GHz X 5.05 67.06 18.76		90		\dashv
<u> </u>				%
Y 5.07 66.89 18.74		90	0	
Z 4.89 67.03 18.52		90		

10081- CAB	CDMA2000 (1xRTT, RC3)	X	1.10	69.87	14.99	0.00	150.0	± 9.6 %
<u> </u>		Y	0.78	64.74	11.83		450.0	_
		 'z	0.78	66.34	11.97	 	150.0 150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	0.69	60.00	4.39	4.77	80.0	± 9.6 %
		Y	0.71	60.00	4.39		80.0	
		Z	7.97	68.50	6.36		80.0	 -
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	115.53	26.81	6.56	60.0	± 9.6 %
		Y	100.00	114.29	26.36		60.0	
10007	THATO EDD (LIOPE)	<u> </u>	100.00	109.90	23.90		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	1.95	68.97	16.62	0.00	150.0	± 9.6 %
		Y	1.75	66.81	15.24		150.0	
10098-	LIMTO EDD (HOUDA O LL LO)	Z	1.87	68.90	_16.13		150.0	
CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.91	68.95	16.60	0.00	150.0	± 9.6 %
<u> </u>		Y	1.71	66.77	15.20		150.0	
10099-	EDOE EDD (TDMA ADOK THE A	Z	1.83	68.86	<u>16.11</u>		150.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	×	11.93	100.45	36.42	9.56	60.0	± 9.6 %
		Y	11.20	97.95	35.37		60.0	
10100-	LITE FDD (OO FDM)	Z	7.96	90.99	32.84		60.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	Х	3.40	71.76	17.45	0.00	150.0	± 9.6 %
		Y	3.10	69.82	16.33		150.0	
10101-	LITE EDD (SC EDMA 4000) PD 00	Z	3.12	70.91	17.03	L	150.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.36	68.15	16.35	0.00	150.0	± 9.6 %
		Y	3.24	67.23	15.77		150.0	
10102-	LITE EDD (DO ED) (A 4000) ED -00	Z	3.17	67.74	16.07		150.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	3.45	68.05	16.42	0.00	150.0	± 9.6 %
	<u> </u>	Y	3.34	67.19	15.87		150.0	
10103-	LITE TOP (OO ED)	Z	3.28	67.71	16.16		150.0	
CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	6.86 	77.75	21.56	3.98	65.0	± 9.6 %
		Ŷ	6.56	76.62	21.10		65.0	
10104-	LITE TOP (OO EDITE 1999)	Z	5.69	75.27	20.45		65.0	
CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	6.41 ————	74.58	21.07	3.98	65.0	± 9.6 %
		Υ	6.33	74.04	20.86		65.0	
10105-	LITE TOD /CC FDMA 4000/ DD CO	Z	5.58	72.74	20.11		65.0	
CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	6.09	73.43	20.88	3.98	65.0	± 9.6 %
	 	Y	6.03	72.95	20.69		65.0	
10108-	LTE-FDD (SC-FDMA, 100% RB, 10	Z	5.24	71.29	19.75		65.0	
CAF	MHz, QPSK)	Х	2.97	70.94 ————	17.29	0.00	150.0	± 9.6 %
	 	Y	2.72	69.08	16.17		150.0	
10109-	LTE-FDD (SC-FDMA, 100% RB, 10	Ž	2.70	70.20	16.88		150.0	
CAF	MHz, 16-QAM)	X	3.02	68.05 ————	16.32	0.00	150.0	± 9.6 %
		L.Y	2.90	67.02	15. 6 6		150.0	
10110-	LTE-FDD (SC-FDMA, 100% RB, 5 MHz,	Z	2.83	67.71	15.99		150.0	
CAF	QPSK)	X	2.42	70.09	17.00	0.00	150.0	± 9.6 %
		Y	2.21	68.14	15.78		150.0	
10111-	LTE-FDD (SC-FDMA, 100% RB, 5 MHz,	Z	2.18	69.46	16.49		150.0	
CAF	16-QAM) RB, 5 MHz,	X	2.76	69.06	16.78	0.00	150.0	± 9.6 %
		Υ	2.59	67.59	15.88		150.0	
	<u> </u>	Z	2.59	68.99	16.39		150.0	

10112-	LTE EDD (OC FONA 1000)						•	just 23, 201
CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.14	67.97	16.35	0.00	150.0	± 9.6 %
		Y	3.03	67.00	15.72		150.0	
10113-	THE EDD (SC EDMA 4000) DD EAST	Z	2.95	67.72	16.05		150.0	
CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.92	69.11	16.87	0.00	150.0	± 9.6 %
		Υ	2.75	67.72	16.02		150.0	
10114-	IEEE DOO 44 (UE O	Z	2.74	69.14	16.51		150.0	
CAC_	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.18	67.31	16.57	0.00	150.0	± 9.6 %
		X	5.14	66.93	16.36		150.0	
10115-	IEEE 000 44 /4/E	Z	5.02	67.26	16.48		150.0	
CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.52	67.57	16.70	0.00	150.0	± 9.6 %
		Y	5.51	67.29	16.56		150.0	
10110		Z	5.27	67.30	16.50		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.29	67.56	16.61	0.00	150.0	± 9.6 %
		Y	5.27	67.21	16.43		150.0	
40447	UEEE 000 44 # # ***	Z	5.10	67.44	16.50		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.16	67.25	16.55	0.00	150.0	± 9.6 %
		Υ	5.13	66.89	16.36		150.0	
		Z	4.99	67.15	16.44		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.59	67.74	16.79	0.00	150.0	± 9.6 %
		Υ	5.60	67.49	16.67		150.0	
		Ζ	5.34	67.49	16.60		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	Х	5.26	67.49	16.59	0.00	150.0	± 9.6 %
		Υ	5.24	67.15	16.41		150.0	-
		Z	5.09	67.40	16.49		150.0	
10140- CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.50	68.05	16.33	0.00	150.0	± 9.6 %
		Y	3.39	67.19	15.79		150.0	
		Z	3.30	67.72	16.07		150.0	
10141- CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3.62	68.10	16.48	0.00	150.0	± 9.6 %
		Υ	3.51	67.27	15.96		150.0	
		Z	3.43	67.85	16.25		150.0	
10142- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	x	2.22	70.35	16.88	0.00	150.0	± 9.6 %
		Y	1.98	67.98	15.45		150.0	
		Z	1.97	69.67	16.10		150.0	
10143- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	2.70	70.21	16.79	0.00	150.0	± 9.6 %
		Y	2.44	68.12	15.58		150.0	
		Z	2.48	69.97	16.00		150.0	
10144- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.42	67.64	15.07	0.00	150.0	± 9.6 %
		Y	2.26	66.15	14.15	_	150.0	
		Z	2.13	66.86	13.96		150.0	
10145- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.54	68.23	14.00	0.00	150.0	± 9.6 %
		Y	1.25	64.93	12.03		150.0	
10146-	LTE EDD (SC EDMA 4000) ED 4 4	Z	1.00	63.72	10.21		150.0	
CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.38	68.67	13.30	0.00	150.0	± 9.6 %
	 	Y	2.63	70.03	14.41		150.0	
10147	LTE EDD (CO EDMA 4000) CD 1	_ Z	1.37	62.94	8.80		150.0	
10147- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	3.01	71.74	14.81	0.00	150.0	± 9.6 %
		Υ	3,44	73.73	16.16		150.0	
		Z	1.50	63.86	9.38		150.0	

10149- CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	3.03	68.12	16.37	0.00	150.0	± 9.6 %
		Υ	2.91	67.08	15.71		150.0	
		Ż	2.84	67.78	16.04		150.0	-
10150- CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.15	68.03	16.39	0.00	150.0	± 9.6 %
		Y	3.03	67.05	15.76		150.0	
101-1		Z	2.96	67.78	16.09		150.0	
10151- CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	7.33	80.62	22.85	3.98	65.0	± 9.6 %
		Y	6.93	79.21	22.28		65.0	
10152-	LTE TOD (CO FDMA 500) FD CO MIL	Z	6.07	78.22	21.74		65.0	
CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.98	74.73	20.92	3.98	65.0	± 9.6 %
	-	Y	5.89	74.12	20.68		6 5.0	
10153-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	Z	5.12	72.74	19.78		65.0	
CAF	64-QAM)	X	6.33	75.57	21.65	3.98	65.0	± 9.6 %
		Y	6.23	74.94	21.41	<u> </u>	65.0	
10154-	LTE-FDD (SC-FDMA, 50% RB, 10 MHz.	Z	5.49	73.78	20.61		65.0	
CAF	QPSK) QPSK)	X	2.49	70.63	17.32	0.00	150.0	± 9.6 %
	 	Y	2.26	68.57	16.06		150.0	
10155-	LTE EDD (CC EDMA 500) DD 40 MU	Z	2.24	69.92	16.77		150.0	
CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.77	69.07	16.79	0.00	150.0	± 9.6 %
		Υ_	2.59	67.59	15.89		150.0	
10156-	LITE EDD (SO EDMA 500) DD 51111	Z	2.59	69.02	16.41		150.0	
CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.11	70.85	16.93	0.00	150.0	± 9.6 %
		Υ	1.83	68.04	15.26		150.0	
40457	LTC CDD (0.0 DD)	Z	1.82	69.80	15.80		150.0	
10157- CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	2.31	68.61	15.35	0.00	150.0	± 9.6 %
-		Ϋ́	2.08	66.62	14.16		150.0	
40450	175 500 100 500	Z	1.98	67.47	13.92		150.0	
10158- CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.92	69.17	16.92	0.00	150.0	± 9.6 %
		Y	2.75	67.77	16.06		150.0	
40450	LTP FRE (A4 FEE FEE FEE FEE FEE FEE FEE FEE FEE FE	Z	2.75	69.22	16.57		150.0	
10159- CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.44	69.17	15.69	0.00	150.0	± 9.6 %
<u> </u>		Y	2.19	67.06	14.45		150.0	
10160-	LITE FOR (CO FEB.)	Z	2.09	67.96	14.21		150.0	
CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2. 9 0	69.57	16.90	0.00	150.0	± 9.6 %
		Υ	2.74	68.24	16.05		150.0	
10161-	LTE EDD (SC EDMA FOX DD 45 17)	Z	2.70	69.25	16.60		150.0	
CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.05	67.98	16.35	0.00	150.0	± 9.6 %
		Y	2.93	66.95	15.69		150.0	
10162-	LITE EDD (SC EDMA 500) DE 45 TE	Z	2.86	67.77	16.01		150.0	
CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.15 	68.06	16.42	0.00	150.0	± 9.6 %
		Y	3.03	67.06	15.79		150.0	
10166-	LTE EDD (CC EDMA FOR DE LA FOR	Z	2.97	67.96	16.14		150.0	
CAF_	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.67	69.77	19.22	3.01	150.0	± 9.6 %
		Υ	3.71	69.61	19.37		150.0	·-
10167	LTE EDD (OO ED)	Z	3.45	70.11	19.35		150.0	
10167- CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.61	72.92	19.78	3.01	150.0	± 9.6 %
		Y	4.57	72.37	19.78		150.0	-
		Z						

10168- CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz,	X	5.13	75.25	21.12	3.01	150.0	± 9.6 %
OA!	64-QAM)	Y	5.05	74.54	04.07		<u> </u>	
	<u> </u>	Z	5.13	74.54 77.22	21.07	<u> </u>	150.0	
10169- CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.12	70.03	21.87 19.37	3.01	150.0 150.0	± 9.6 %
		Υ	3.15	69.73	19.46		150.0	- -
		Z	2.86	69.57	19.15	 	150.0	
10170- CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	4.58	77.10	22.08	3.01	150.0	±9.6 %
	<u> </u>	Υ	4.39	75.79	21.81		150.0	
10171-	LTE EDD (00 ED)	Ζ	4.44	78.23	22.53		150.0	
AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	3.64 —	72.24	19.05	3.01	150.0	± 9.6 %
	 	Y	3.59	71.47	18.98		150.0	
10172-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	Z	3.36	72.39	19.02		150.0	
CAF	QPSK)	Х	12.64	100.34	31.84	6.02	65.0	± 9.6 %
	 	Y	12.97	100.68	32.37		65.0	
10173-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	Z	5.77	87.24	27.51	ļ <u> </u>	65.0	
CAF	16-QAM)	X	36.96	114.71	33.67	6.02	65.0	± 9.6 %
	 	<u>Y</u> .	30.92	112.16	33.64		65.0	
10174-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	Z	22.36	108.00	31.61		65.0	
CAF	64-QAM)	X	22.92	104.35	30.17	6.02	65.0	± 9.6 %
		Y	21.96	104.04	30.70		65.0	_
10175-	LTE EDD (SC EDMA 4 DD 40 MU)	Z	11.65	95.24	27.25		65.0	
CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.08	69.68	19.10	3.01	150.0	± 9.6 %
		Y	3.11	69.39	19.20		150.0	
10176-	LTE EDD (CC EDMA 4 DD 40 MIL	Z	2.82	69.22	18.88		150.0	
CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	4.59	77.13	22.09	3.01	150.0	± 9.6 %
	 	Y	4.40	75.82	21.82		150.0	
10177-	LTE-FDD (SC-FDMA, 1 RB, 5 MHz,	<u>Z</u>	4.45	78.26	22.55		150.0	
CAH	QPSK)	X	3.11	69.85	19.21	3.01	150.0	± 9.6 %
	 	Y	3.14	69.56	19.30		150.0	
10178-	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-	Z_	2.84	69.38	18.97		150.0	
CAF	QAM)	X	4.53	76.83	21.94	3.01	150.0	± 9.6 %
		Y	4.34	75.53	21.68		150.0	
10179- CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	4.39 4.06	77.99 74.50	22.42	3.01	150.0 150.0	± 9.6 %
		Y	3.95	73.49	20.26		150.0	
		Z	3.83	75.09	20.61		150.0	_
10180- CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.62	72.15	18.99	3.01	150.0	± 9.6 %
		Υ	3.58	71.38	18.93	_	150.0	
		Ζ	3.35	72.32	18.97		150.0	
10181- CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.10	69.83	19.20	3.01	150.0	± 9.6 %
		Ϋ́	3.13	69.54	19.29		150.0	
40400	LITE EDD VOC EDIAS	Z	2.84	69.36	18.97		150.0	
10182- CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	×	4.52	76.80	21.93	3.01	150.0	± 9.6 %
_		Υ	4.33	75.51	21.66		150.0	
40460	LITE EDD (OO ED)	Z	4.38	77.96	22.40		150.0	
10183- AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	3.62	72.12	18.97	3.01	150.0	± 9.6 %
		Υ	3.57	71.35	18.91		150.0	
		Z	<u>3.</u> 34	72.29	18.96		150.0	L

10184- CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	3.11	69.88	19.22	3.01	150.0	± 9.6 %
		Y	3.14	69.58	19.32		150.0	
		ż	2.85	69.41	18.99	 	150.0	
10185- CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	4.54	76.88	21.97	3.01	150.0	± 9.6 %
		Υ	4.35	75.59	21.70		150.0	
		Z	4.41	78.06	22.45		150.0	
10186- AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	3.64	72.20	19.01	3.01	150.0	± 9.6 %
	<u> </u>	Υ	3.59	71.42	18.95		150.0	
40407		Z	3.36	72.37	19.00		150.0	
10187- CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.12	69.93	19.28	3.01	150.0	± 9.6 %
		Υ	3.15	69.63	19.37		150.0	
10188-	LTE EDD (CO EDIA) A DD A ()	Z	2.86	69.48	19.07		150.0	
CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	4.72	77.70	22.40	3.01	150.0	± 9.6 %
<u> </u>		Υ	4.51	76.33	22.11		150.0	
10189-	LTE EDD (OC EDM) + DD + + + +	Z	4.61	78.98	22.92		150.0	
10189- AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	3.73	72.70	19.32	3.01	150.0	± 9.6 %
	 	Y	3.67	71.88	19.24		150.0	
10193-	JEEE 900 445 /UT Out - State O 5 M	Z	3.46	72.92	19.33		150.0	
CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	Х	4.59	66.76	16.33	0.00	150.0	± 9.6 %
		Y	4.55	66.31	16.09		150.0	
10194-	1555 900 445 (UT On 15 14 90 14)	Z	4.42	66.80	16.19		150.0	
CAC_	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.77	67.10	16.45	0.00	150.0	± 9.6 %
		Y_	4.74	66.66	16.21		150.0	
10105	VEEL 000 44 /VE O	Z	4.58	67.08	16.32		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	Х	4.82	67.12	16.46	0.00	150.0	± 9.6 %
		Υ	4.78	66.69	16.22		150.0	
10100	IEEE 000 44 (IEEE	Z	4.62	67.10	16.34		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.60	66.84	16.36	0.00	150.0	±9.6 %
		Υ	4.56	66.40	16.12		150.0	
40407		Z	4.41	66.83	16.20		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.79	67.12	16.46	0.00	150.0	± 9.6 %
		Υ	4.75	66.69	16.22		150.0	
10198-	JEEE 900 145 / JEAN OF AU	Z	4.59	67.09	16.33		150.0	
CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	X	4.82	67.14	16.47	0.00	150.0	± 9.6 %
		\ \ \	4.78	66.71	16.24		150.0	
10219-	IEEE 802.11n (HT Mixed, 7.2 Mbps,	Z	4.61	67.11	16.35		150.0	
CAC	BPSK)	X	4.55	66.86	16.33	0.00	150.0	± 9.6 %
	 	Y	4.51	66.41	16.08		150.0	
10220-	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-	Z	4.37	66.86	16.17	<u> </u>	150.0	
CAC	QAM)	X	4.79	67.10	16.45	0.00	150.0	±9.6 %
		Y	4.75	66.67	16.22	ļ	150.0	_
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.58 4.83	67.05 67.06	16.32 16.45	0.00	150.0 150.0	± 9.6 %
		Υ	4.79	66.64	10.00		450.0	
		Z	4.62	67.04	16.23		150.0	
10222-	IEEE 802.11n (HT Mixed, 15 Mbps,	X	5.14		16.33	0.00	150.0	
CAC	BPSK)			67.26	16.55	0.00	150.0	± 9.6 %
		Ŷ	5.11	66.90	16.36		150.0	
		<u>Z</u>	4.97	67.15	16.43		150.0	

10223-	IEEE 802.11n (HT Mixed, 90 Mbps, 16-	T 52			,			_
CAC	QAM)	X	5.45	67.43	16.65	0.00	150.0	± 9.6 %
<u> </u>		Y	5.45	67.18	16.52		150.0	
10224-	IEEE 802.11n (HT Mixed, 150 Mbps, 64-	Z	5.25	67.35	16.55		150.0	
CAC	QAM)	X	5.19	67.37	16.53	0.00	150.0	± 9.6 %
	 	Y	5.15	66.99	16.33		150.0	
10225-	LIMITE COD (LICENA)	Z	5.01	67.26	16.42		150.0	<u> </u>
CAB	UMTS-FDD (HSPA+)	X	2.89	66.55	15.78	0.00	150.0	± 9.6 %
	<u> </u>	Y	2.80	6 <u>5.7</u> 1	15.24		150.0	
10226-	LTE TOO (OO ED) (A 1 ED)	Z	2.72	66.49	15.32		150.0	
CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	42.12	117.30	34.47	6.02	65.0	± 9.6 %
		Y	34.39	114.35	34.35		65.0	
10227-	LITE TOP (00 FDIA 4 PP	Z	25.78	110.75	32.49		65.0	
CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	33.34	110.83	32.01	6.02	65.0	± 9.6 %
		Υ	29.14	109.23	32.25		65.0	
10000	LITE TOP (OO FD)	Z	23.91	107.08	30.63		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	15.66	105.06	33.38	6.02	65.0	± 9.6 %
		Υ	15.84	105.37	33.95		65.0	
40000	LITE TOD (DO DO	Z	7.75	93.33	29.68	<u> </u>	65.0	
10229- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	37.28	114.84	33.72	6.02	65.0	± 9.6 %
		Υ	31.13	112.26	33.67		65.0	
40000		Z	22.62	108.17	31.67		65.0	-
10230- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	29.88	108.76	31.36	6.02	65.0	± 9.6 %
		Y	26.58	107.43	31.66		65.0	
		Z	20.85	104.61	29.86		65.0	
10231- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	14.65	103.59	32.85	6.02	65.0	± 9.6 %
		Y	14.88	103.95	33.43		65.0	
_		Z	7.34	92.15	29.19		65.0	
10232- CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	37.25	114.84	33.71	6.02	65.0	± 9.6 %
		Ý	31.10	112.26	33.67		65.0	
		Z	22.58	108.16	31.67		65.0	
10233- CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	29.82	108.74	31.35	6.02	65.0	± 9.6 %
		Υ	26.53	107.41	31.66		65.0	
		Ž	20.76	104.56	29.85	<u>-</u>	65.0	
10234- CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	×	13.83	102.21	32.30	6.02	65.0	± 9.6 %
		Y	14.10	102.64	32.91		65.0	
		Z	7.03	91.14	28.71		65.0	
10235- CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	37.39	114.93	33.74	6.02	65.0	± 9.6 %
		_Y	31.21	112.34	33.70		65.0	
		Z	22.65	108.24	31.69		65.0	
10236- CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	30.43	109.05	31.43	6.02	65.0	± 9.6 %
		Υ	27.03	107.71	31.73		65.0	
		Z	21.22	104.87	29.93		65.0	
10237- CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	14.73	103.74	32.90	6.02	65.0	± 9.6 %
		Υ	14.96	104.11	33.48		65.0	
		Z	7.35	92.21	29.22		65.0	
10238- CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	37.20	114.83	33.71	6.02	65.0	± 9.6 %
		Y	31.07	112.26	33.67	-	65.0	
			01.01	1 2 20	JJ.07		יו כסן	

10239- CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	Х	29.73	108.72	31.35	6.02	65.0	± 9.6 %
		Υ	26.48	107.40	31.66		65.0	
		Z	20.66	104.50	29.83		65.0	
10240- CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	14.67	103.66	32.88	6.02	65.0	± 9.6 %
		Υ	14.89	104.03	33.46		65.0	
		Z	7.33	92.17	29.20		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	8.22	81.62	25.84	6.98	65.0	± 9.6 %
		Υ	8.21	81.11	25.93	_	65.0	- <u>-</u>
		Z	7.55	81.89	25.74		65.0	
10242- C <u>AA</u>	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	7.60	79.92	25.06	6.98	65.0	± 9.6 %
		Υ	7.70	79.68	25.24		65.0	
		Z	6.63	79.21	24.57		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	Х	6.06	76.28	24.43	6.98	65.0	± 9.6 %
		Y	6.20	76.29	24.69		65.0	
		Ζ	5.27	75.02	23.70		65.0	
10244- CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	6.94	79.13	20.40	3.98	65.0	± 9.6 %
		Y	7.61	80.93	21.65		65.0	
10015		Z	4.63	73.01	16.54		65.0	
10245- CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	6.74	78.35	20.03	3.98	65.0	± 9.6 %
		Υ	7.38	80.11	21.28		65.0	
		Z	4.46	72.20	16.14		65.0	-
10246- CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	8.26	86.16	23.38	3.98	65.0	± 9.6 %
	<u> </u>	Υ	7.07	83.23	22.34		65.0	
		Z	4.76	77.46	19.00		65.0	-
10247- CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	5.60	76.50	20.35	3.98	65.0	± 9.6 %
		Υ	5.37	75.45	19.96		65.0	_
		Z	4.29	72.64	17.71		65.0	
10248- CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	5.54	75.70	19.98	3.98	65.0	± 9.6 %
		Υ	5.35	74.79	19.65		65.0	
		Z	4.24	71.91	17.36		65.0	
10249- CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	9.19	88.24	24.95	3.98	65.0	± 9.6 %
	<u> </u>	Υ	7.96	85.32	23.90		65.0	
40000		Ζ	6.28	82.28	22.02		65.0	
10250- CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	6.20	77.76	22.32	3.98	65.0	± 9.6 %
		Υ	6.01	76.85	21.97		65.0	
10057	LT5 700 (00 == 1)	Z	5.20	75.42	20.86		65.0	
10251- _CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	5.85 	75.32	20.92	3.98	65.0	± 9.6 %
		Υ	5.73	74.58	20.63		65.0	
40050	LTS TOD (00 FD)	Z	4.92	73.12	19.45		65.0	
10252- CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	8.09	84.95	24.58	3.98	65.0	± 9.6 %
	<u> </u>	Y	7.42	82.94	23.81		65.0	
10050	LITE TOP (00 FPM)	Z	6.31	81.52	22.96		65.0	
10253- CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	5.80	74.00	20.63	3.98	65.0	± 9.6 %
		Y	5.72	73.40	20.39		65.0	
10051	LITE TOP (00 Providence)	Z	5.04	72.28	19.52		65.0	
10254- CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	6.14	74.84	21.30	3.98	65.0	± 9.6 %
		1						
	-	Υ	6.05	74.22	21.07		65.0	

10255-	ITE TOD (OO EDWA SOO! DO							•
CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	6.81	79.50	22.67	3.98	65.0	± 9.6 %
 _		Y	6.50	78.25	22.16		65.0	 -
40050		Z	5.72	77.37	21.59	 	65.0	+ -
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	5.54	75.38	17.88	3.98	65.0	± 9.6 %
		Y	6.45	78.02	19.55		65.0	
		Z	3.15	67.52	12.83		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	5.31	74.31	17.34	3.98	65.0	± 9.6 %
		Y	<u>6.</u> 14	76.80	18.96		65.0	
40050		Z	3.05	66.79	12.37		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	6.24	81.13	20.76	3.98	65.0	± 9.6 %
	 	Y	5.52	78.91	19.97		65.0	T
40050		Z	3.09	70.62	15.05		65.0	
10259- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	5.84	76.93	21.04	3.98	65.0	± 9.6 %
		Υ	5.63	75.94	20.66		65.0	
40000	LTE TRP (00 FPL)	Z	4.68	73.82	18.92		65.0	
10260- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	5.84	76.54	20.88	3.98	65.0	± 9.6 %
	<u> </u>	Y	5.65	75.62	20.54		65.0	-
40002	LITE TOP (OO ====	Z	4.68	73.47	18.76	<u> </u>	65.0	
10261- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	7.94	85.32	24.30	3.98	65.0	± 9.6 %
		Y	7.17	83.07	23.45		65.0	
		Z	5.90	80.89	22.01		65.0	
10262- CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	6.19	77.72	22.28	3.98	65.0	± 9.6 %
		Υ	6.00	76.81	21.93	_	65.0	
		Z	5.19	75.36	20.81		65.0	-
10263- CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.84	75.30	20.91	3.98	65.0	± 9.6 %
		Υ	5.72	74.57	20.63		65.0	
		Z	4.91	73.09	19.44	_	65.0	
10264- CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	8.00	84.72	24.48	3.98	65.0	± 9.6 %
		LY.	7.34	82.73	23.71		65.0	
<u> </u>		Z	6.24	81.28	22.84		65.0	
10265- CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.98	74.73	20.93	3.98	65.0	± 9.6 %
		Y	5.89	74.12	20.69		65.0	
		Z	5.12	72.74	19.78		65.0	
10266- _CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	6.33	75.56	21.64	3.98	65.0	± 9.6 %
		Υ	6.22	74.93	21.40		65.0	
4005=		Z	5.49	73.76	20.60		65.0	
10267- CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	Х	7.32	80.56	22.82	3.98	65.0	± 9.6 %
		Υ	6.92	79.16	22.26		65.0	
40000	175 700 700 700	Z	6.05	78.17	21.72		65.0	
10268- CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.52	74.24	21.04	3.98	65.0	± 9.6 %
		Y	6.45	73.73	20.85		65.0	
10000	LTE TOD (OO ED) (A COCK TO CO	Z	5.74	72.63	20.16		65.0	
10269- CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	6.46	73.71	20.87	3.98	65.0	± 9.6 %
	 	Υ	6.39	73.22	20.69		65.0	
40070	LTE TOP (00 STATE OF THE STATE	Z	5.73	72.22	20.02		65.0	
10270- CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	6.79	76.82	21.42	3.98	65.0	± 9.6 %
		Υ	6.57	75.90	21.04		65.0	_
		Z	5.88	75.11	20.59		65.0	_

10274-	UMTS-FDD (HSUPA, Subtest 5, 3GPP	Х	2.66	66.98	15.73	0.00	150.0	± 9.6 %
CAB	Rel8.10)	ļ. <u>.</u> .			<u> </u>			
	 	Y	2.54	65.90	15.04		150.0	
10275-	LIMTO EDD (HOUDA O L. A. CODD	Z	2.55	67.07	15.35	<u> </u>	150.0	
CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.78	69.77	16.72	0.00	150.0	± 9.6 %
		Y	1.55	67.13	15.03		150.0	
400==		Z	1.62	69.04	16.02		150.0	
10277- CAA	PHS (QPSK)	Х	2.12	61.97	7.55	9.03	50.0	± 9.6 %
		Y	2.25	62.30	7.96		50.0	1
40070	PILO (O DOLG PILO O DOLG PILO DOLG PILO O DOLG PILO O DOLG PILO O DOLG PILO DOLG PILO O DOLG PILO PILO PILO PILO PILO PILO PILO PILO	Z	1.72	60.31	5.78		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	10.93	86.19	21.29	9.03	50.0	± 9.6 %
		Y	9.64	84.41	20.95		50.0	
10279-	PLIC (OPOIS BUY 00 AND 1 TO 10 AND 10	Z	3.57	69.00	13.15		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	11.22	86.49	21.46	9.03	50.0	± 9.6 %
		Y	9.91	84.71	21.11		50.0	
40000		Z	3.69	69.35	13.38		50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	Х	1.95	72.86	16.32	0.00	150.0	± 9.6 %
		Υ	1.38	67.46	13.46		150.0	
40004	00000	Z	1.34	68.81	13.27		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	Х	1.06	69.47	14.79	0.00	150.0	± 9.6 %
	_ 	Y	0.76	64.53	11.71		150.0	
40000		Z	0.76	66.05	11.81		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	1.83	78.35	18.94	0.00	150.0	± 9.6 %
		Y	0.91	67.73	13.68		150.0	-
		Z	1.34	73.93	15.68		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	4.73	93.04	24.47	0.00	150.0	± 9.6 %
	<u> </u>	Υ	1.31	72.72	16.40		150.0	
40005		Z.	6.43	94.81	23.11		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	Х	10.60	89.87	26.40	9.03	50.0	± 9.6 %
		Υ	10.25	88.78	26.08		50.0	- -
1000		Z	12.25	89.80	24.68		50.0	
10297- AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	2.99	71.06	17.36	0.00	150.0	± 9.6 %
·		Υ	2.73	69.18	16.24		150.0	
10000		Z	2.72	70.32	16.96		150.0	
10298- AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	1.90	70.47	15.90	0.00	150.0	± 9.6 %
		Υ	1.56	67.01	13.91		150.0	
10299-	LTE EDD (OO TELL)	Z_	1.44	67.67	13.50		150.0	
10299- AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	3.07	71.64	15.53	0.00	150.0	± 9.6 %
		Υ	3.23	72.42	16.33		150.0	
10200	LITE EDD (OO ED)	Z	2.17	67.61	12.32		150.0	
10300- _AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	2.19	66.26	12.34	0.00	150.0	± 9.6 %
	<u> </u>	Ϋ́	2.31	66.80	13.02		150.0	
10201	IEEE 000 40 1171 1271	Z	1.57	63.33	9.50		150.0	
10301- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	Х	4.82	65.43	17.57	4.17	50.0	± 9.6 %
		Υ	4.87	65.32	17.50		50.0	
40000	UESS 000 to	Z	4.60	65.72	17.49		50.0	
10302- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.31	66.17	18.35	4.96	50.0	± 9.6 %
	<u> </u>	Ÿ	5.36	66.00	18.25	<u> </u>	50.0	
	_ · _ _ ·	Ż	5.00	66.00	18.02		30.0	<u></u>

10303-	IEEE 902 46- WENANY (04 45 5							
AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	5.06	65.83	18.21	4.96	50.0	± 9.6 %
		Y	5.11	65.70	18.12		50.0	
10304-	IEEE 000 40 MINAN 100	Z	4.75	65.61	17.82		50.0	
AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.87	65.69	17.69	4.17	50.0	± 9.6 %
	- 	ΙÝ	4.90	65.47	17.55		50.0	
40005	IEEE CO. 40 AMERICAN	Z	4.58	65.56	17.35		50.0	
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.43	67.35	19.83	6.02	35.0	± 9.6 %
		Υ	4.56	67.70	19.98		35.0	
10306-	IEEE 000 40 James 40	Z	4.15	67.17	19.10		35.0	<u> </u>
AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.77	66.43	19.36	6.02	35.0	± 9.6 %
	<u> </u>	Y	4.86	66.61	19.45		35.0	
10007	IEEE 000 40 NWW	Z	4.49	66.31	18.82		35.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	Х	4.67	66.65	19.36	6.02	35.0	± 9.6 %
		Y	4.78	66.88	19.46		35.0	
10308-	IEEE 900 40 AND	Z	4.37	66.39	18.75		35.0	
AAA 	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	Х	4.64	66.81	19.48	6.02	35.0	± 9.6 %
		Y	4.74	67.03	19.58		35.0	
10309-	1555 000 40- 147544 V 105 10 15	Z	4.35	66.60	18.90		35.0	
AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.84 	66.72	19.54	6.02	35.0	± 9.6 %
		Υ	4.94	66.92	19.63		35.0	
40040	IEEE 000 40 ANII MAAAA	Z	4.52	66.47	18.95		35.0	
10310- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Х	4.71	66.49	19.33	6.02	35.0	± 9.6 %
	·	L Y	4.81	66.68	19.42		35.0	
10011		Z	4.43	66.37	18.80		35.0	_
10311- AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.36	70.26	16.95	0.00	150.0	± 9.6 %
		Y	3.08	68.46	15.91		150.0	
		Z	3.08	69.51	16.57		150.0	
10313- AAA	IDEN 1:3	X	5.95	81.40	19.48	6.99	70.0	± 9.6 %
		Y	4.30	76.35	17.48		70.0	
		Z	3.21	73.80	16.43		70.0	
10314- AAA	iDEN 1:6	X	12.17	97.07	27.72	10.00	30.0	± 9.6 %
		Y	7.44	87.94	24.60		30.0	
		Z	6.18	85.76	23.72		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.10	64.61	16.02	0.17	150.0	± 9.6 %
		Y	1.01	63.21	14.85		150.0	-
		Z	1.05	64.14	15.48		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	4.65	66.81	16.47	0.17	150.0	± 9.6 %
		Υ	4.62	66.42	16.27		150.0	
	<u> </u>	Z	4.46	66.78	16.31		150.0	
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X.	4.65	66.81	16.47	0.17	150.0	± 9.6 %
		Y	4.62	66.42	16.27		150.0	
40400	LEEF COD 44	Z	4.46	66.78	16.31		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.78	67.16	16.44	0.00	150.0	± 9.6 %
	<u> </u>	Υ	4.74	66.73	16.21		150.0	
40/04	UEEE 000 44	Z	4.55	67.11	16.31		150.0	
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.43	67.23	16.53	0.00	150.0	± 9.6 %
		Υ	5.42	66.92	16.38		150.0	
		Z	5.24	67.11	16.40		150.0	

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	Х	5.71	67.66	16.59	0.00	150.0	± 9.6 %
		Y	5.70	67.34	16.43		150.0	
		Z	5.52	67.48	16.45		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.95	72.86	16.32	0.00	115.0	± 9.6 %
		Y	1.38	67.46	13.46		115.0	
		Z	1.34	68.81	13.27		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	Х	1.95	72.86	16.32	0.00	115.0	± 9.6 %
	<u> </u>	Y	1.38	67.46	13.46		115.0	
40.00		Z	1.34	68.81	13.27		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	122.38	30.73	0.00	100.0	± 9.6 %
		Y	81.48	123.67	32.28		100.0	
10110		Z	100.00	114.83	26.66		100.0	
10410- AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	123.65	31.04	3.23	80.0	± 9.6 %
	<u> </u>	Υ	100.00	127.30	33.02		80.0	1 —
101:=	<u> </u>	Z	100.00	122.18	29.60		80.0	<u> </u>
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.02	63.74	15.40	0.00	150.0	± 9.6 %
		Υ	0.94	62.36	14.20		150.0	
40.440		Z	0.99	63.49	14.99		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.59	66.79	16.39	0.00	150.0	± 9.6 %
		Y	4.55	66.36	16.15		150.0	
40/45		Z	4.42	66.82	16.27		150.0	
10417- _AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.59	66.79	16.39	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.55	66.36	16.15		150.0	
	· 	Z	4.42	66.82	16.27		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	Х	4.58	66.96	16.41	0.00	150.0	± 9.6 %
	·	Υ	4.54	66.49	16.15		150.0	
40440		Z	4.42	67.01	16.31	-	150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.61	66.90	16.41	0.00	150.0	± 9.6 %
		Υ	4.56	66.45	16.16		150.0	
40.000		Z	4.43	66.95	16.30	<u> </u>	150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.73	66.90	16.41	0.00	150.0	± 9.6 %
	 	Y	4.69	66.47	16.18		150.0	
10400	IEEE OOD 44 WIT 6	Z	4.54	66.92	16.31		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.91	67.24	16.54	0.00	150.0	± 9.6 %
		Υ	4.87	66.82	16.31		150.0	
10424	IEEE 000 44- 01T 0	Z	4.68	67.21	16.40		150.0	
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	Х	4.82	67.19	16.51	0.00	150.0	± 9.6 %
	 	Y	4.79	66.76	16.28		150.0	
10425-	IEEE 902 11n /UT Consession 45 by	Z	4.61	67.16	16.38		150.0	
AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.41	67.47	16.65	0.00	150.0	± 9.6 %
		<u>Y</u>	5.40	67.17	16.50		150.0	
10426-	IEEE 900 44% (UT O	Z	5.21	67.35	16.53		150.0	
AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.41	67.47	16.65	0.00	150.0	± 9.6 %
		Y	5.40	67.19	16.50		150.0	
	1	Z	5.23	67.42	16.56		150.0	

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.42	67.47	16.64	0.00	150.0	± 9.6 %
		Y	5.41	67.16	16.48	 	150.0	
10.00		Z	5.22	67.32	16.51	 	150.0	
10430- AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	Х	4.40	71.17	18.58	0.00	150.0	± 9.6 %
	-	Y	4.23	70.08	17.99		150.0	
40404		Z	4.30	72.10	18.56		150.0	
10431- AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.31	67.42	16.46	0.00	150.0	±9.6 %
	-	Y	4.26	66.88	16.15		150.0	
10432-	LTE EDD (CEDIA)	Z	4.07	67.45	16.24		150.0	
AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	Х	4.60	67.26	16.49	0.00	150.0	± 9.6 %
	 	Y	4.56	66.79	16.22		150.0	_
10433-	LTE EDD (CED) (A	Z	4.38	67.26	16.33		150.0	
AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.84	67.23	16.53	0.00	150.0	± 9.6 %
		Υ	4.80	66.80	16.30		150.0	
10434-	W CDMA (BC Took Market A CA B Door	Z	4.63	67.20	16.40		150.0	
AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.54	72.17	18.64	0.00	150.0	± 9.6 %
	 	Y	4.31	70.81	17.94		150.0	
10435-	LTE TOD (CC FDMA 4 DD CC + H)	Z	4.47	73.20	18.53		150.0	
AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	123.43	30.93	3.23	80.0	± 9.6 %
		Υ	100.00	127.09	32.93		80.0	
10447-	LITE EDD (OFDIA) E LUI E ETTA	Ζ	100.00	121.88	29.46		80.0	
AAC AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)		3.63 	67.60	15.97	0.00	150.0	± 9.6 %
	 	Υ _	3.55	66.82	15.51		150.0	
40440	1 TE ED 2 (0 ED)	<u>Z</u>	3.36	67.49	15.39		150.0	
10448- AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	×	4.14	67.21	16.33	0.00	150.0	± 9.6 %
	<u> </u>	Υ	4.08	66.64	16.00		150.0	
40440	LTC FDD (A FILL)	_ Z	3.93	67.24	16.11		150.0	
10449- AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.40	67.10	16.39	0.00	150.0	± 9.6 %
		Υ	4.35	66.60	16. <u>1</u> 1		150.0	_
40.150		Z	4.21	67.10	16.24		150.0	
10450- AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	4.59	67.00	16.40	0.00	150.0	± 9.6 %
		Ϋ́	4.54	66.54	16.14		150.0	
10151	144.004.00	<u>Z</u>	4.41	66.98	16.27		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	×	3.56	67.91	15.68	0.00	150.0	± 9.6 %
		≻l	3.45	67.01	15.16		150.0	
10450	IEEE 000 44 - 150E (400C	Z	3.21	<u>67.</u> 51	14.85		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	Х	6.26	68.01	16.78	0.00	150.0	± 9.6 %
		Y	6.26	67.75	16.66		150.0	
40457	LIMTO FOR (BO LIGHT !	Z	6.13	67.97	16.72		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	Х	3.81	65.42	16.11	0.00	150.0	± 9.6 %
		Y	3.77	64.98	15.86		150.0	
10450	CDM40000 (4: FV 50 5	Z	3.73	65.50	15.98		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	Х	4.16 	71.37	18.08	0.00	150.0	± 9.6 %
	 	Y	3.92	69.91	17.32		150.0	
40450	ODMAROO /4 EV E C = = = =	Z	4.02	72.11	17.63		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	5.19	68.40	18.36	0.00	150.0	± 9.6 %
		_Y	5.10	67.75	18.06		150.0	_
		Z	5.01	69.18	18.25		150.0	

10460-	UMTS-FDD (WCDMA, AMR)	Х	1.07	72.05	18.39	0.00	150.0	± 9.6 %
AAA								
	 	Y	0.81	67.05	15.17		150.0	
10461-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z	0.95	70.49	17.24		150.0	
AAA	QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	129.11	33.59	3.29	80.0	± 9.6 %
		Y	100.00	132.68	35.56	<u> </u>	80.0	
10462-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z	100.00	128.17	32.38	<u></u>	80.0	
AAA	16-QAM, UL Subframe=2,3,4,7,8,9)	X	29.76	94.39	20.32	3.23	80.0	± 9.6 %
 -		Y	100.00	112.07	25.94		80.0	
10463-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z	0.79	60.49	7.76		80.0	<u> </u>
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)		2.50	68.97	12.20	3.23	80.0	± 9.6 %
	 	Y Z	100.00	107.58	23.85		80.0	<u> </u>
10464-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz,	X	0.77 100.00	60.00 126.29	6.89	0.00	80.0	
AAB	QPSK, UL Subframe=2,3,4,7,8,9)				32.12	3.23	80.0	± 9.6 %
		Y_	100.00	130.29	34.26		80.0	
10465-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-	Z	100.00	124.25	30.42		80.0	
AAB	QAM, UL Subframe=2,3,4,7,8,9)		9.13	82.53	17.12	3.23	80.0	± 9.6 %
 -	 	Y	100.00	111.30	25.58	<u> </u>	80.0	
10466-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-	Z	0.75	60.00	7.44		80.0	
AAB	QAM, UL Subframe=2,3,4,7,8,9)		1.98	66.71	11.27	3.23	80.0	± 9.6 %
-	 	Y	99.88	106.88	23.53		80.0	
10467-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz,	Z	0.78	60.00	6.83		80.0	
AAD	QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.60	32.25	3.23	80.0	± 9.6 %
_	+ <u>-</u>	Y	100.00	130.59	34.40		80.0	
10468-	LTE TOD (OC FOLIA & ST. FANCE)	Z	100.00	124.67	30.60		80.0	
AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	11.66	85.00	17.83	3.23	80.0	± 9.6 %
		Y	100.00	111.53	25.68		80.0	
10469-	LTE TOP (OG FERMAN)	Z	0.75	60.09	7.51		80.0	
AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	1.98	66.75	11.28	3.23	80.0	± 9.6 %
		Υ	100.00	106.90	23.54		80.0	
40470	LTE TOO TOO TO TOO TO TOO TO TOO TO TOO TO	Z_	0.77	60.00	6.83		80.0	
10470- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	126.64	32.26	3.23	80.0	± 9.6 %
		Y	100.00	130.65	34.41		80.0	
10471-	LTE TOD (CO FDM) (DD (O)	Z	100.00	124.69	30.60		80.0	_
AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	11.32	84.67	17.72	3.23	80.0	±9.6 %
		Y	100.00	111.46	25.64		80.0	
10472-	LTE TOD (CC FDM) 4 DD 404	Z	0.75	60.04	7.47		80.0	
AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	1.96	66.63	11.22	3.23	80.0	± 9.6 %
	 	Υ	100.00	106.82	23.49		80.0	
10473-	LTE-TOD (SC EDMA 4 DD 45 M	Z	0.77	60.00	6.81		80.0	
AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.60	32.24	3.23	80.0	± 9.6 %
	 	_<	100.00	130.61	34.39		80.0	
10474-	LTE TOD (SC EDMA 4 DD 45 NO. 45	Z	100.00	124.64	30.58		80.0	
AAD_	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	11.06	84.45	17.66	3.23	80.0	± 9.6 %
		Υ	100.00	111.47	25.64		80.0	·· <u> </u>
10475-		Z	0.74	60.02	7.45		80.0	
	LITE TOO (OO EDM)		4.0=	00.50	44.00	2.22		1000
AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	×	1.95	66.59	11.20	3.23	80.0	± 9.6 %
	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	99.99	106.84	23.50	3.23	80.0	± 9.6 %

10477-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-							
AAE	QAM, UL Subframe=2,3,4,7,8,9)	X_	9.10	82.47	17.07	3.23	80.0	± 9.6 %
	 	Y	100.00	111.24	25.54		80.0	
10478-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-		0.74	60.00	7.42		80.0	
AAE	QAM, UL Subframe=2,3,4,7,8,9)	X	1.93	66.47	11.14	3.23	80.0	± 9.6 %
		Υ	96.81	106.44	23.40		80.0	
10479-	1 TE TOD (CO EDIM 500) DE LA LICE	Z	0.77	60.00	6.80		80.0	
AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	9.68	90.97	25.10	3.23	80.0	± 9.6 %
		Y	13.83	97.37	27.65		80.0	
10480-	LTC TDD (0.0 TD)	Z	12.23	94.71	25.17	-	80.0	<u> </u>
AAA AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	11.91	88.02	22.17	3.23	80.0	± 9.6 %
		Y	19.25	95.65	25.10		80.0	
10404	1 TE TOO (00 FELL)	Z	7.50	81.30	18.54		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	9.15	83.59	20.38	3.23	80.0	± 9.6 %
	<u> </u>	Υ	15.12	91.18	23.39		80.0	
40400	LTC TDD (00 TD)		4.40	74.24	15.71		80.0	
10482- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.76	79.70	20.44	2.23	80.0	± 9.6 %
		Y	3.53	74.74	18.45		80.0	
10400	LITE TOP (OO TO)	Z	2.62	71.60	16.13		80.0	
10483- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.87	78.17	19.16	2.23	80.0	± 9.6 %
		_ Y	8.24	83.44	21.55		80.0	
40 10 1	 	Z	2.93	69.04	14.15		80.0	
10484- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.35	76.61	18.60	2.23	80.0	± 9.6 %
		Υ	7.24	81.28	20.83		80.0	
		Ζ	2.73	67.94	13.69		80.0	_
10485- AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.47	78.87	21.04	2.23	80.0	± 9.6 %
		Ϋ́	3.68	75.23	19.49		80.0	
40400		Z	3.15	74.27	18.50		80.0	_
10486- AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.79	72.50	18.04	2.23	80.0	± 9.6 %
_		Y	3.38	70.29	17.05		80.0	
40.40=		Z	2.84	69.02	15.57		80.0	
10487- <u>AAD</u>	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.74	71.89	17.77	2.23	80.0	± 9.6 %
		Υ	3.37	69.86	16.85		80.0	
40.400		Z	2.81	68.50	15.32		80.0	
10488- AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.24	75.86	20.43	2.23	80.0	± 9.6 %
		Ŷ	3.83	73.65	19.40		80.0	
10100	LITE TOP (OO ED) (CO	Z	3.28	72.72	18.85		80.0	
10489- AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.72	70.49	18.27	2.23	80.0	± 9.6 %
		Y	3.53	69.26	17.66		80.0	
10100	LTE TOP (OO ET)	Z	3.19	68.97	17.14		80.0	
10490- AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.79	70.18	18.14	2.23	80.0	± 9.6 %
		Y	3.62	69.04	17.58		80.0	
10/01	LITE TOD (OC EDMA 50% DD 45 : "	Z	3.27	68.77	17.05		80.0	
10491- _AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.23	73.19	19.42	2.23	80.0	± 9.6 %
		Y	3.95	71.65	18.67		80.0	
10400	LIE TOD (OO EDMA 500) DD 45 iiii	_Z	3.47	70.90	18.25	_	80.0	
10492- AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.97	69.24	17.95	2.23	80.0	± 9.6 %
		Y	3.85	<u>6</u> 8.36	17.51		80.0	
		Z	3.50	68.04	17.11		80.0	

10493-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	X	4.03	69.04	17.87	2.23	80.0	± 9.6 %
AAD	64-QAM, UL Subframe=2,3,4,7,8,9)	_		ļ	L			
		Y	3.92	68.21	17.46		80.0	
10494-	LTE TOD (CC CDMA FOX DD CO MILE	Z	3.56	67.90	17.04		80.0	
AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.79 	75.46	20.14	2.23	80.0	± 9.6 %
		Υ	4.38	73.53	19.24		80.0	
	- 	Z	3.78	72.48	18.78		80.0	
10495- AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.03	69.76	18.19	2.23	80.0	± 9.6 %
	 	Y	3.90	68.85	17.73		80.0	_
		Z	3.53	68.35	17.31		80.0	
10496- AAE_	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.08	69.35	18.04	2.23	80.0	± 9.6 %
		[Y]	3.97	68.51	17.62		80.0	
		Z	3.60	68.09	17.22		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.72	75.87	18.08	2.23	80.0	± 9.6 %
		Υ	2.64	70.76	15.98		80.0	
		Z	1.51	64.60	11.77		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	x	2.30	66.27	12.99	2.23	80.0	± 9.6 %
		Y	2.02	64.31	12.06		80.0	†
		Z	1.20	60.00	8.21		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.18	65.35	12.41	2.23	80.0	± 9.6 %
		Y	1.97	63.70	11.62		80.0	
		Z	1.22	60.00	8.05		80.0	
10500- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.19	76.87	20.53	2.23	80.0	± 9.6 %
		Y	3.63	74.04	19.27		80.0	-
		Z	3.15	73.35	18.54		80.0	
10501- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.74	71.57	18.07	2.23	80.0	± 9.6 %
		Y	3.44	69.83	17.26		80.0	
		Z	3.03	69.25	16.29	_	80.0	
10502- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.79	71.34	17.92	2.23	80.0	± 9.6 %
		LY	3.50	69.66	17.14		80.0	
		Z	3.07	69.05	16.12		80.0	
10503- AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.18	75.62	20.32	2.23	80.0	± 9.6 %
		Y	3.77	73.43	19.30		80.0	
10504		Z	3.23	72.50	18.74		80.0	
10504- AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	3.70	70.40	18.21	2.23	80.0	± 9.6 %
		Υ	3.52	69.18	17.61		80.0	
40505	LTC TDD (00 TO	Z	3.17	68.86	17.07		80.0	
10505- AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.77	70.08	18.09	2.23	80.0	± 9.6 %
- -		Y	3.60	68.95	17.53		80.0	
10500	LTE TOP (00 = 200)	Z	3.25	68.67	16.99		80.0	
10506- AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.74	75.29	20.06	2.23	80.0	±9.6%
		Υ	4.34	73.37	19.17		80.0	
10507	LTE TOD (OO ED)	Z	<u>3.7</u> 4	72.32	18.70		80.0	
10507- AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.01	69.69	18.15	2.23	80.0	± 9.6 %
	7-1-6-7-1-6							
		Y	3.88	68.79	17.69		80.0	

10508- AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.07	69.28	18.00	2.23	80.0	± 9.6 %
	5551 tante=2,0,4,1,0,9)	+ _Y -	200	1	 			
		T Y	3.96 3.59	68.45	17.58	ļ	80.0	
10509-	LTE-TDD (SC-FDMA, 100% RB, 15	\ X	4.87	68.02	17.17	<u> </u>	80.0	
AAD	MHz, QPSK, UL Subframe=2,3,4,7,8,9)			73.12	19.15	2.23	80.0	± 9.6 %
		Y	4.57	71.69	18.46	<u> </u>	80.0	
10510-	LTE-TDD (SC-FDMA, 100% RB, 15	X	4.08	70.95	18.12		80.0	
AAD	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)		4.46	69.19	17.97	2.23	80.0	± 9.6 %
		Y	4.36	68.46	17.61		80.0	
10511-	LTE TOD (OC FOMA 4000) DD	Z	3.98	67.93	17.23		80.0	
AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.49	68.83	17.85	2.23	80.0	± 9.6 %
		Y	4.40	68.15	17.52		80.0	
10E10	LTE TOP (00 FT)	Z	4.03	67.70	17.16		80.0	
10512- _AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.35	75.53	19.95	2.23	80.0	± 9.6 %
		Y	4.89	73.64	19.09		80.0	
10513-	LITE TOD (OO FOM) 1000(FT	Z	4.27	72.56	18.64		80.0	
AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.37	69.62	18.15	2.23	80.0	± 9.6 %
		Y	4.26	68.83	17.75		80.0	
10514-	LITE TOP (OO FEMAL 4000) DE CO	Z	3.86	68.15	17.33		80.0	
AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.36	69.04	17.95	2.23	80.0	± 9.6 %
		Υ	4.26	68.32	17.60		80.0	
40545		<u>Z</u>	3.89	67.75	17.20		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	Х	0.98	64.01	15.52	0.00	150.0	± 9.6 %
-		Y	0.90	62.52	14.23		150.0	_
10516-	1555 900 445 MSS: 0.4 OLL (5000 55	Z	0.95	63.71	15.08		150.0	
AAA_	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.96	80.43	22.24	0.00	150.0	± 9.6 %
	 	Y	0.52	69.16	15.73		150.0	
10517-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Z	0.74	75.71	19.80		<u>15</u> 0.0	
AAA	Mbps, 99pc duty cycle)	×	0.87	66.95	16.73	0.00	150.0	±9.6 %
		Y	0.75	64.30	14.64		1 <u>50</u> .0	
10518-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9	Z	0.81	66.10	15.98		150.0	
AAB	Mbps, 99pc duty cycle)	X	4.59	66.88	16.37	0.00	150.0	± 9.6 %
 _	 -	Y	4.55	66.43	16.12	<u> </u>	150.0	
10519-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12	X	4.41 4.79	66.91 67.13	16.25 16.49	0.00	150.0 150.0	± 9.6 %
AAB	Mbps, 99pc duty cycle)	Y	4 7E	66.74	46.60	<u> </u>	450 5	
		Z	4.75 4.57	66.71 67.10	16.26		150.0	
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.64	67.11	16.35 16.43	0.00	150.0 150.0	± 9.6 %
		Y	4.60	66.67	16.18		150.0	-
10=		Z	4.43	67.05	16.27		150.0	
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.57	67.12	16.42	0.00	150.0	±9.6 %
		Υ	4.53	66.66	16.16		150.0	_
40500	IEEE 000 44-9 MINE - CONTRACTOR	Z	4.36	67.04	16.26		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	Х	4.63	67.16	16.48	0.00	150.0	± 9.6 %
		Y	4.59	66.70	16.22		150.0	
	<u> </u>	Z	4.42	67.17	16.36		150.0	

10523-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	Х	4.51	67.05	16.34	0.00	150.0	± 9.6 %
AAB	Mbps, 99pc duty cycle)							
		Y_	4.46	66.56	16.06		150.0	
10524-	LEEE 903 110/b W/F F OUT (OFD) 4 54	Z	4.33	67.10	16.24		150.0	
AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.58	67.09	16.46	0.00	150.0	±9.6 %
		Y	4.53	66.64	16.20		150.0	
40.50		Z	4.37	67.10	16.33		150.0	
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	Х	4.55	66.14	16.05	0.00	150.0	± 9.6 %
		Υ	4.50	65.66	15.78		150.0	
1000		Ζ	4.38	66.18	15.95		150.0	
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	Х	4.74	66.53	16.19	0.00	150.0	± 9.6 %
	<u> </u>	Y	4.69	66.05	15.93		150.0	
40505		Z	4.52	66.50	16.07		150.0	
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	Х	4.66	66.50	16.15	0.00	150.0	± 9.6 %
	<u> </u>	Υ	4.61	66.01	15.87		150.0	i
40.00		Ζ	4.45	66.47	16.02		150.0	
10528- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	Х	4.67	66.52	16.18	0.00	150.0	± 9.6 %
		Y	4.62	66.03	15.91		150.0	
		Z	4.47	66.48	16.05		150.0	
10529- AAB_	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	Х	4.67	66.52	16.18	0.00	150.0	± 9.6 %
		Y	4.62	66.03	15.91		150.0	
		Z	4.47	66.48	16.05		150.0	
10531- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.67	66.65	16.20	0.00	150.0	± 9.6 %
		Y	4.63	66.16	15.93	 	150.0	
		Z	4.44	66.54	16.04	 	150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	Х	4.53	66.51	16.14	0.00	150.0	± 9.6 %
		Y	4.48	66.01	15.86		150.0	
		Z	4.32	66.41	15.98		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.68	66.56	16.16	0.00	150.0	± 9.6 %
		Y	4.63	66.06	15.89		150.0	
		Z	4.48	66.56	16.05		150.0	·
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.19	66.60	16.20	0.00	150.0	± 9.6 %
		Y	5.16	66.20	15.99		150.0	
		Z	5.01	66.50	16.09		150.0	<u> </u>
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.26	66.75	16.27	0.00	150.0	± 9.6 %
		Υ	5.22	66.35	16.06		150.0	
40-44-		Z	5.06	66.65	16.16	<u> </u>	150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	Х	5.13	66.73	16.24	0.00	150.0	± 9.6 %
		Υ	5.09	66.32	16.02		150.0	
		Z	4.95	66.64	16.13		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	Х	5.19	66.69	16.22	0.00	150.0	± 9.6 %
		Υ	5.15	66.30	16.01		150.0	
40500		Z	5.00	66.59	16.11		150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.28	66.73	16.28	0.00	150.0	± 9.6 %
		Υ	5.26	66.36	16.08		150.0	
40515		Z	5.08	66.58	16.14	-	150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.21	66.72	16.29	0.00	150.0	± 9.6 %
		Y	5.17	66.33	16.08		150.0	
		. ' '	J. 17	00.55	10.00		150.0	

10541-	IEEE 802.11ac WiFi (40MHz, MCS7,			, <u> </u>				
AAB	99pc duty cycle)	X	5.18	66.60	16.22	0.00	150.0	± 9.6 %
		Y	5.14	66.20	16.01		150.0	
10542-	IEEE 802.11ac WiFi (40MHz, MCS8,		4.99	66.47	16.09		150.0	
AAB	99pc duty cycle)	X	5.33	66.65	16.26	0.00	150.0	± 9.6 %
	 	Y	5.31	66.28	16.07		150.0	
10543-	IEEE 000 44 NOTE 1400	Z	5.14	66.55	16.15		150.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.41 ——————	66.68	16.29	0.00	150.0	± 9.6 %
		Y	5.39	66.31	16.11		150.0	
10544-	LEEE COO AL LANGUE LE	Z	5.20	66.56	16.18		150.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.49 	66.70	16.18	0.00	150.0	± 9.6 %
		. Y	5.45	66.31	15.98		150.0	
10E4E	LEEE 000 44 NOTE 100	Z	5.34	66.58	16.07		150.0	
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.68	67.09	16.32	0.00	150.0	± 9.6 %
		Y	5.66	66.76	16.15		150.0	
10510	IEEE 000 da 140E: 150E	Z	5.51	66.98	16.23		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.57	66.94	16.26	0.00	150.0	± 9.6 %
	<u> </u>	Y	5.54	66.57	16.08		150.0	
40547	LIEFE CO. 44	Z	5.38	66.73	16.11	_	150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	×	5.64	66.98	16.27	0.00	150.0	± 9.6 %
	<u> </u>	Y	5.63	66.66	16.11		150.0	
		Z	5.45	66.79	16.14		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.90	67.92	16.71	0.00	150.0	± 9.6 %
		Y	5.97	67.87	16.68		150.0	
		Z	5.63	67.50	16.47		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	×	5.59	66.92	16.26	0.00	150.0	± 9.6 %
		Y	5.55	66.54	16.07		150.0	
		Ż	5.42	66.82	16.17	-	150.0	·
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.60	66.98	16.25	0.00	150.0	± 9.6 %
		Y	5.56	66.60	16.06		150.0	 -
		Ż	5.40	66.75	16.10		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.51	66.77	16.16	0.00	150.0	± 9.6 %
		Y	5.47	66.37	15.96		150.0	
		Z	5.35	66.67	16.06		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.60	66.81	16.21	0.00	150.0	± 9.6 %
		Y	5.56	66.43	16.01		150.0	
		Z	5.41	66.65	16.08		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.89	67.05	16.26	0.00	150.0	± 9.6 %
		Y	5.86	66.69	16.08		150.0	
		Z	5.75	66.91	16.14		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	6.02	67.35	16.38	0.00	150.0	± 9.6 %
		Y	6.00	67.02	16.22		150.0	
105-1		Z	5.86	67.17	16.25		150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.04	67.39	16.40	0.00	150.0	± 9.6 %
		Y	6.02	67.06	16.23	_	150.0	
		Z	5.88	67.24	16.28		150.0	
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	6.01	67.32	16.38	0.00	150.0	± 9.6 %
		Y	5.99	66.98	40.00		450.0	
	<u> </u>	T	5.99	96.90	16.22		150.0	

10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.07	67.49	16.48	0.00	150.0	± 9.6 %
_		Y	6.05	67.17	16.33		150.0	
	-	Z	5.88	67.26	16.33		150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	Х	6.06	67.34	16.44	0.00	150.0	± 9.6 %
		Y	6.04	66.99	16.28		150.0	
		Z	5.88	67.13	16.30		150.0	
10561- _AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.98	67.30	16.46	0.00	150.0	± 9.6 %
		Υ	5.96	66.96	16.30		150.0	
		Ż	5.81	67.11	16.32		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.11	67.72	16.67	0.00	150.0	± 9.6 %
		Y	6.12	67.46	16.55		150.0	
	<u> </u>	Z	5.89	67.37	16.45		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	Х	6.43	68.23	16.87	0.00	150.0	± 9.6 %
	 	Y	<u>6.5</u> 0	68.16	16.85		150.0	
40=0:	<u></u>	Z	5.96	67.23	16.35		150.0	_
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	4.91	66.93	16.51	0.46	150.0	± 9.6 %
		Y	4.88	66.54	16.31		150.0	
		Z	4.73	66.93	16.37		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	Х	5.16	67.40	16.83	0.46	150.0	± 9.6 %
		_ Y _	5.13	67.02	16.64		150.0	
		Z	4.93	67.35	16.69		150.0	
10566- _AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	4.99	67.26	16.66	0.46	150.0	± 9.6 %
		Y	4.96	66.87	16.45		150.0	
		Z	4.77	67.18	16.50		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	Х	5.02	67.67	17.02	0.46	150.0	± 9.6 %
		Y	4.98	67.25	16.79		150.0	
		Z	4.81	67.60	16.88		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	Х	4.90	67.00	16.42	0.46	150.0	± 9.6 %
		Y_	4.87	66.62	16.22		150.0	
		Z	4.67	66.94	16.26		150.0	
10569- AAA	JEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	Х	4.97	67.73	17.07	0.46	150.0	± 9.6 %
		Υ	4.93	67.29	16.83		150.0	
		Z	4.78	67.78	16.99		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	5.01	67.57	17.00	0.46	150.0	± 9.6 %
		Y	4.97	67.15	16.77		150.0	
10574		Z	4.80	67.57	16.89		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.17	65.22	16.39	0.46	130.0	± 9.6 %
	<u> </u>	Υ	1.09	63.89	15.30		130.0	
10E70	IEEE 000 445 MEET 0 4 000 FEET	Z	1.10	64.48	15.68		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.19	65.91	16.81	0.46	130.0	± 9.6 %
	 	Y	1.10	64.45	15.65		130.0	
10E70	JEEE 000 446 1997 6 4 500	Z	1.12	65.08	16.07		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	11.95	118.97	33.95	0.46	130.0	± 9.6 %
		Υ	2.10	86.50	22.92		130.0	
10571	IEEE 000 to the second	Z	2.78	93.83	26.37		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.42	73.69	20.72	0.46	130.0	± 9.6 %
		Y	1.20	70.19	18.52		130.0	
		Z	1.24	71.54				

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.69	66.74	T 40 52			, _
AAA	OFDM, 6 Mbps, 90pc duty cycle)		4.09	66.71	16.57	0.46	130.0	± 9.6 %
·		Y	4.67	66.34	16.38		130.0	
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.50	66.68	16.40		130.0	
AAA	OFDM, 9 Mbps, 90pc duty cycle)	X	4.72	66.88	16.64	0.46	130.0	± 9.6 %
		Y	4.69	66.50	16.44		130.0	
10577-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.53	66.88	16.48		130.0	
AAA	OFDM, 12 Mbps, 90pc duty cycle)	X	4.94	67.20	16.81	0.46	130.0	± 9.6 %
		Y	4.91	66.83	16.62		130.0	
10578-	IEEE 000 44 - MEET 0 4 OUT (DOOR	Z	<u>4.</u> 71	67.13	16.63		130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.83 ———	67.37	16.92	0.46	130.0	± 9.6 %
		Y	4.81	66.98	16.72		130.0	
10570	IEEE OOD 44 MIEE O 4 E 11	Z	<u>4.61</u>	67.29	16.74		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.60	66.66	16.24	0.46	130.0	± 9.6 %
		Y	4.57	66.30	16.05		130.0	
40E00	UEEE 000 44 - 11 - 1	Z	4.37	66.49	16.00		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	Х	4.64	66.67	16.25	0.46	130.0	± 9.6 %
		Y	4.62	66.31	16.06		130.0	
40504		Z	4.41	66.55	16.03		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.73	67.42	16.87	0.46	130.0	± 9.6 %
		Y	4.70	67.02	16.65		130.0	
		Z	4.52	67.36	16.71		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.54	66.41	16.03	0.46	130.0	± 9.6 %
		Y	4.53	66.07	15.85		130.0	-
		Z	4.30	66.25	15.78		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	Х	4.69	66.71	16.57	0.46	130.0	± 9.6 %
		Y	4.67	66.34	16.38		130.0	
		Ż	4.50	66.68	16.40		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.72	66.88	16.64	0.46	130.0	± 9.6 %
		Y	4.69	66.50	16.44		130.0	
		Z	4.53	66.88	16.48		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.94	67.20	16.81	0.46	130.0	± 9.6 %
		Y	4.91	66.83	16.62		130.0	
		Z	4.71	67.13	16.63		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.83	67.37	16.92	0.46	130.0	± 9.6 %
		Y	4.81	66.98	16.72		130.0	
		Z	4.61	67.29	16.74		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	Х	4.60	66.66	16.24	0.46	130.0	± 9.6 %
		Y	4.57	66.30	16.05		130.0	
		Z	4.37	66.49	16.00		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4 .64	66.67	16.25	0.46	130.0	±9.6 %
		Y	4.62	66.31	16.06		130.0	
		Z	4.41	66.55	16.03		130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.73	67.42	16.87	0.46	130.0	± 9.6 %
		Υ	4.70	67.02	16.65	_	130.0	
		Z	4.52	67.36	16.71		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	Х	4.54	66.41	16.03	0.46	130.0	± 9.6 %
		Y	4.53	66.07	15.85		130.0	
		Z	4.30	66.25	15.78		130.0	

10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.84	66.77	16.66	0.46	130.0	± 9.6 %
		Y	4.82	66.41	16.48	_	130.0	
		Z	4.66	66.76	16.51		130.0	- -
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	Х	5.01	67.12	16.79	0.46	130.0	± 9.6 %
		Υ	4.99	66.76	16.61		130.0	
		Z	4.79	67.07	16.64		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.93	67.04	16.68	0.46	130.0	± 9.6 %
		Y	4.91	66.69	16.51		130.0	
		Z	4.71	66.95	16.50		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.98	67.20	16.83	0.46	130.0	± 9.6 %
		Y	4.96	66.84	16.65		130.0	
		Z	4.76	67.13	16.67		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	Х	4.95	67.16	16.73	0.46	130.0	± 9.6 %
		_ Y	4.93	66.80	16.55		130.0	
		Z	4.73	67.10	16.57	<u> </u>	130.0	·
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.89	67.16	16.74	0.46	130.0	± 9.6 %
		Υ	4.87	66.79	16.55		130.0	
		Z	4.66	67.08	16.56		130.0	 :_
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	_ X	4.84	67.08	16.63	0.46	130.0	± 9.6 %
		Y	4.82	66.71	16.44		130.0	
		Z	4.61	66.96	16.43		130.0	-
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.82	67.33	16.90	0.46	130.0	± 9.6 %
		Y	4.80	66.95	16.70		130.0	-
		Z	4.60	67.20	16.70		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	Х	5.51	67.30	16.83	0.46	130.0	± 9.6 %
		Υ	5.50	67.04	16.72		130.0	
		Z	5.31	67.18	16.69		130.0	 -
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.66	67.75	17.03	0.46	130.0	± 9.6 %
		Y	5.70	67.66	17.00		130.0	
		Z	5.42	67.55	16.85		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.54	67.49	16.91	0.46	130.0	± 9.6 %
		Y	5.55	67.29	16.83		130.0	
1000		Z	5.33	67.34	16.76		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	Х	5.62	67.47	16.82	0.46	130.0	± 9.6 %
	 	Υ	5.64	67.27	16.74		130.0	
40000		Z	5.46	67.51	16.77		130.0	_
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	Х	5.72	67.83	17.13	0.46	130.0	±9.6 %
		Y	5.72	67.56	17.01		130.0	
10004		Z	5.53	67.80	17.05		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.51	67.26	16.84	0.46	130.0	± 9.6 %
	 	Y	5,51	67.00	16.72		130.0	
10605	IFFE 900 44. G ITAG	Z	5.40	67.44	16.85		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.62	67.58	16.99	0.46	130.0	± 9.6 %
		Y	5.63	67.37	16.91		130.0	
40000	UEEE DOO 44 WING	Z	5.43	67.48	16.86		130.0	
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	Х	5.39	67.04	16.59	0.46	130.0	± 9.6 %
		Y	5.38	66.75	16.46		130.0	

10607-	IEEE 802.11ac WiFi (20MHz, MCS0,	X	4.69	66.11	16.30	0.46	130.0	4000
AAB	90pc duty cycle)	- , -			<u> </u>	0.40		± 9.6 %
		Y	4.65	65.70	16.09		130.0	
10608-	IEEE 802.11ac WiFi (20MHz, MCS1,	Z	4.51	66.12	16.16		130.0	
AAB	90pc duty cycle)	X	4.89	66.54	16.47	0.46	130.0	± 9.6 %
		Y	4.86	66.13	16.26		130.0	
10609-	IEEE 900 14cc M/IEI (00) 411 - NOOR	Z	4.67	66.48	16.32		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.78 	66.40	16.32	0.46	130.0	± 9.6 %
		Y	4.74	65.99	16.10		130.0	
10610-	LEEE 000 44 - NUEL (CONTINUE DE LA CONTINUE DE LA C	Z	4.56	66.32	16.14		130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	Х	4.83 	66.56	16.48	0.46	130.0	± 9.6 %
		Y	4.80	66.15	16.27		130.0	
10011		Z	4.61	66.49	16.31		130.0	
10611- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.74	66.37	16.33	0.46	130.0	± 9.6 %
		Y	4.71	65.96	16.12		130.0	
40040		Z	4.52	66.28	16.15		130.0	
10612- AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	Х	4.76	66.53	16.38	0.46	130.0	± 9.6 %
		Y	4.73	66.12	16.16		130.0	
100/-		Ž	4.52	66.43	16.20		130.0	
10613- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.76	66.43	16.27	0.46	130.0	± 9.6 %
		Y	4.74	66.03	16.06		130.0	
		Z	4.52	66.26	16.05		130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.70	66.62	16.50	0.46	130.0	± 9.6 %
		Y	4.67	66.19	16.28		130.0	
		Z	4.48	66.49	16.31		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.74	66.19	16.10	0.46	130.0	± 9.6 %
		Y	4.72	65.79	15.90		130.0	
		Z	4.52	66.11	15.92		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.34	66.61	16.47	0.46	130.0	± 9.6 %
		Y	5.32	66.28	16.32		130.0	
		Z	5.14	66.47	16.32		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.40	66.74	16.51	0.46	130.0	± 9.6 %
		Y	5.38	66.41	16.35		130.0	
		Z	5.21	66.65	16.39		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.29	66.79	16.56	0.46	130.0	± 9.6 %
		Y	5.27	66.46	16.39		130.0	
		Ż	5.11	66.70	16.43		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.31	66.61	16.40	0.46	130.0	± 9.6 %
		Y	5.30	66.30	16.25		130.0	
		Z	5.11	66.46	16.24		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.41	66.67	16.47	0.46	130.0	± 9.6 %
		Y	5.41	66.38	16.34		130.0	
100-:		Z	5.19	66.48	16.30		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	Х	5.40	66.76	16.64	0.46	130.0	± 9.6 %
		Y	5.38	66.43	16.48		130.0	
		Z	5.21	66.64	16.50	_	130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.41	66.91	16.70	0.46	130.0	± 9.6 %
		Y	5.39	66.60	16.55		130.0	
			5.20	66.74				

10623-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	5.29	66.45	16.36	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)					00	100.0	20.070
		Υ	5.27	66.12	16.20		130.0	
		Z	5.08	66.28	16.19		_130.0	Ī
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.48	66.64	16.51	0.46	130.0	± 9.6 %
	 	Y	5.47	66.35	16.38		130.0	
		Z	5.28	66.51	16.36		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.87	67.67	17.07	0.46	130.0	± 9.6 %
	 	Y	5.92	67.56	17.03		130.0	_
10626-	IEEE 800 11 as 14/55 (001411- 14000	Z	5.48	66.99	16.66		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.62	66.65	16.41	0.46	130.0	± 9.6 %
	 	Y	5.59	66.32	16.26		130.0	
10627-	IEEE 802.11ac WiFi (80MHz, MCS1,	Z	5.46	66.52	16.28		130.0	
AAB_	90pc duty cycle)	X	5.86	67.19	16.64	0.46	130.0	± 9.6 %
<u> </u>		Y	5.87	66.96	16.54		130.0	
10628-	IEEE 802 1100 WIE: (90M) - MOOC	Z	5.68	67.07	16.52		130.0	_
AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.67	66.78	16.37	0.46	130.0	± 9.6 %
	 	Y	5.65	66.49	16.24		130.0	
10629-	IEEE 802.11ac WiFi (80MHz, MCS3,	Z	5.47	66.52	16.18		130.0	
AAB	90pc duty cycle)		5.76	66.87	16.41	0.46	130.0	± 9.6 %
	 	Y	5.74	66.55	16.26		130.0	
10630-	!EEE 802.11ac WiFi (80MHz, MCS4,	Z	5.55	66.62	16.22		130.0	
AAB	90pc duty cycle)	X	6.21	68.41	17.17	0.46	130.0	± 9.6 %
	 	Y	6.36	68.57	17.26		130.0	
10631-	IEEE 902 1100 M/SE (000 MILE \$400 E	Z	5.84	67.72	16.78		130.0	
AAB_	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.11	68.22	17.27	0.46	130.0	± 9.6 %
	 	<u> </u>	6.15	68.07	17.21		130.0	
10632-	IEEE 902 1100 MGE: (90MH = MOOO	Z	5.81	67.73	16.97		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.83	67.26	16.81	0.46	130.0	± 9.6 %
	 	<u> </u>	5.82	66.98	16.68		130.0	
10633-		Z	5.67	67.19	16.73		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	Х	5.73	66.95	16.48	0.46	130.0	± 9.6 %
	 	Y	5.72	66.66	16.35		130.0	
10634-	IEEE 802.11ac WiFi (80MHz, MCS8,	Z	5.54	66.74	16.32		130.0	
AAB	90pc duty cycle)	X	5.72	66.98	16.56	0.46	130.0	± 9.6 %
	 	Y	5.70	66.65	16.41		130.0	
10635-	IEEE 802.11ac WiFi (80MHz, MCS9,	Z	5.52	66.78	16.40		130.0	
AAB	90pc duty cycle)	Х	5.60	66.32	15.97	0.46	130.0	± 9.6 %
	 	Y	5.59	66.03	15.84		130.0	
10636-	IEEE 802.11ac WiFi (160MHz, MCS0,	Z	5.39	66.04	15.76	<u> </u>	130.0	<u> </u>
AAC	90pc duty cycle)	X	6.03	67.02	16.50	0.46	130.0	± 9.6 %
		Y 7	6.02	66.74	16.37		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	Z	5.89 6.19	66.87 67.40	16.36 16.66	0.46	130.0	± 9.6 %
		Y	6.19	67.15	16 56		120.0	-
		Ż	6.02	67.15	16.56 16.51		130.0	-
10638-	IEEE 802.11ac WiFi (160MHz, MCS2,	$\frac{1}{X}$	6.19	67.38	16.63	0.46	130.0	1000
AAC	90pc duty cycle)	Y				0.46	130.0	± 9.6 %
			6.19	67.12	16.52		130.0	
		Z	6.03	67.21	16.49	<u> </u>	130.0	

10639-	IEEE 000 44 - William						,	gust 23, 201
AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.18	67.36	16.66	0.46	130.0	± 9.6 %
		Y	6.17	67.09	16.55	<u> </u>	130.0	
10640-	IEEE 900 44 - 2 MIE 4400 MI	Z	6.00	67.13	16.50		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.19	67.39	16.62	0.46	130.0	± 9.6 %
		Y	6.20	67.16	16.53		130.0	
10641-	JEEF 000 44 AVIII	Z	5.99	67.11	16.43		130.0	
AAC AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.21	67.22	16.56	0.46	130.0	± 9.6 %
		Υ	6.20	66.94	16.44		130.0	
10010	TELE COLUMNIA COLUMNI	Z	6.05	67.08	16.43		130.0	
10642- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.27	67.52	16.87	0.46	130.0	± 9.6 %
	<u> </u>	Υ	6.26	67.23	16.75		130.0	
40040		Z	6.09	67.31	16.72		130.0	
10643- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.10	67.19	16.61	0.46	130.0	± 9.6 %
		Υ	6.09	66.93	16.50		130.0	
10011	LIFE CO. 14	Z	5.93	67.00	16.46		130.0	 -
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.29	67.77	16.92	0.46	130.0	± 9.6 %
		Y	6.32	67.61	16.86		130.0	_
		Z	6.02	67.30	16.63		130.0	
10645- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.72	68.61	17.29	0.46	130.0	± 9.6 %
		Y	6.81	68.60	17.31		130.0	
		Z	6.13	67.29	16.58		130.0	
10646- AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Х	26.22	119.06	40.53	9.30	60.0	± 9.6 %
		Y	23.98	116.77	40.23		60.0	_
		Z	13.39	105.96	36.68		60.0	
10647- AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	21.91	115.56	39.67	9.30	60.0	± 9.6 %
		Y	20.79	114.08	39.59		60.0	_
_		Ż	11.12	102.25	35.63		60.0	-
10648- AAA	CDMA2000 (1x Advanced)	Х	0.80	65.60	12.34	0.00	150.0	± 9.6 %
		Y	0.65	62.69	10.17		150.0	
		Z	0.58	62.96	9.61	-	150.0	
10652- AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.70	67.38	17.08	2.23	80.0	± 9.6 %
		Y	3.59	66.56	16.66		80.0	
		Ž	3.39	66.83	16.41		80.0	
10653- AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.17	66.50	17.03	2.23	80.0	± 9.6 %
		Y	4.11	65.95	16.76		80.0	
		Z	3.90	66.02	16.55	_	80.0	_
10654- AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.13	66.12	17.00	2.23	80.0	± 9.6 %
		Υ	4.07	65.60	16.75		80.0	
400==		Z	3.90	65.62	16.55		80.0	
10655- AAD_	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	4.19	66.12	17.04	2.23	80.0	± 9.6 %
		Y	4.13	65.62	16.79		80.0	
10658-	Pulse Waveform (200Hz, 10%)	Z	3.96	65.57	16.58	4.5.5	80.0	
AAA	r dise vvavelofffi (200HZ, 10%)	X	100.00	111.27	26.15	10.00	50.0	± 9.6 %
		Y	100.00	112.15	26.71	<u> </u>	50.0	
10659-	Pulso Mayoform (2001)- 200()	Z	14.35	85.50	18.40		50.0	
AAA	Pulse Waveform (200Hz, 20%)	X	100.00	110.66	24.83	6.99	60.0	± 9.6 %
	 	Y	100.00	110.25	24.76		60.0	
	<u> </u>	Z	100.00	105.29	22.07		60.0	

10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	112.93	24.53	3.98	80.0	± 9.6 %
		Y	100.00	108.47	22.64		80.0	
		Z	100.00	104.83	20.58		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	X	100.00	118.71	25.68	2.22	100.0	± 9.6 %
		Y	100.00	104.33	19.70		100.0	
		Z	100.00	104.48	19.32		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	X	100.00	138.66	31.49	0.97	120.0	± 9.6 %
		Υ	0.19	60.00	4.09		120.0	
		Z	100.00	91.23	12.90		120.0	

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

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





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

Accredited by the Swiss Accreditation Service (SAS)

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

Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

PC Test

Certificate No: EX3-7357_Apr18

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7357

Calibration procedure(s)

QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v4, QA CAL-23.v5,

QA CAL-25.v6

Calibration procedure for dosimetric E-field probes

2N 5-01-208

Calibration date:

April 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)	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 19, 2018

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

Certificate No: EX3-7357_Apr18

Page 1 of 39

Calibration Laboratory of

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





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

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 77

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

Certificate No: EX3-7357_Apr18 Page 2 of 39

Probe EX3DV4

SN:7357

Manufactured: February 5, 2015

Calibrated:

April 18, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7357

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ²) ^A	0.37	0.48	0.40	± 10.1 %
DCP (mV) ^B	89.1	99.1	96.4	

Modulation Calibration Parameters

CIU	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc ^t (k=2)
0	CW	X	0.0	0.0	1.0	0.00	151.5	±2.7 %
		Y	0.0	0.0	1.0		139.1	
		Z	0.0	0.0	1.0		158.4	

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
X	37.91	303.3	40.25	6.413	0.832	4.998	0.00	0.454	1.006
Υ	48.33	363.1	36.01	10.58	0.113	5.100	0.00	0.458	1.004
Z	39.38	305.2	38.03	5.76	0.610	5.046	0.00	0.461	1.008

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: EX3DV4 - SN:7357

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)
64	54.2	0.75	14.92	14.92	14.92	0.00	1,00	± 13.3 %
150	52.3	0.76	13.49	13.49	13.49	0.00	1.00	± 13.3 %
300	45.3	0.87	12.37	12.37	12,37	0.08	1.20	± 13.3 %
450	43.5	0.87	11.17	11.17	11.17	0.14	1.20	± 13.3 %
750	41.9	0.89	10.50	10.50	10.50	0.45	0.85	± 12.0 %
835	41.5	0.90	10.11	10.11	10.11	0.37	0.93	± 12.0 %
1750	40.1	1.37	8.80	8.80	8.80	0.38	0.86	± 12.0 %
1900	40.0	1.40	8.47	8.47	8.47	0.18	0.83	± 12.0 %
2300	39.5	1.67	7.83	7.83	7.83	0.33	0.86	± 12.0 %
2450	39.2	1.80	7.43	7.43	7.43	0.37	0.89	± 12.0 %
2600	39.0	1.96	7.13	7.13	7.13	0.27	0.98	± 12.0 %
5250	35.9	4.71	5.62	5.62	5.62	0.35	1.80	± 13.1 %
5600	35.5	5.07	4.93	4.93	4.93	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.23	5.23	5.23	0.40	1.80	± 13.1 %

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

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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7357

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)
150	61.9	0.80	12.99	12.99	12.99	0.00	1.00	± 13.3 %
300	58.2	0.92	12.08	12.08	12.08	0.05	1.20	± 13.3 %
450	56.7	0.94	11.52	11.52	11.52	0.08	1.20	± 13.3 %
750	55.5	0.96	10.37	10.37	10.37	0.47	0.85	± 12.0 %
835	55.2	0.97	10.17	10.17	10.17	0.37	0.93	± 12.0 %
1750	53.4	1.49	8.43	8.43	8.43	0.37	0.86	± 12.0 %
1900	53.3	1.52	8.08	8.08	8.08	0.36	0.83	± 12.0 %
2300	52.9	1.81	7.74	7.74	7.74	0.38	0.85	± 12.0 %
2450	52.7	1.95	7.60	7.60	7.60	0.35	0.88	± 12.0 %
2600	52.5	2.16	7.44	7.44	7.44	0.33	0.93	± 12.0 %
5250	48.9	5.36	4.78	4.78	4.78	0.50	1.80	± 13.1 %
5600	48.5	5.77	4.20	4.20	4.20	0.50	1.80	± 13.1 %
5750	48.3	5.94	4.21	4.21	4.21	0.50	1.80	± 13.1 %

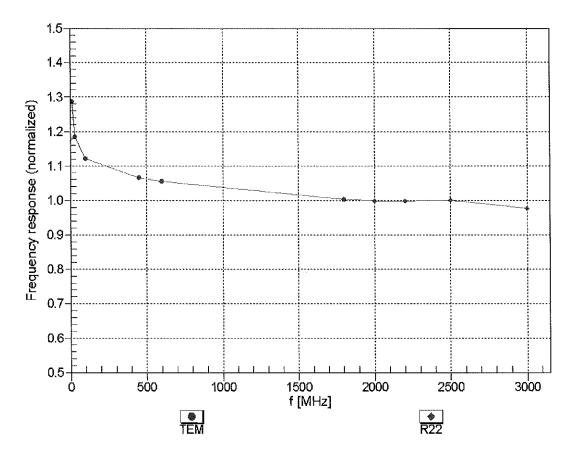
^c Frequency validity above 300 MHz of \pm 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to \pm 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz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

Certificate No: EX3-7357_Apr18

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.

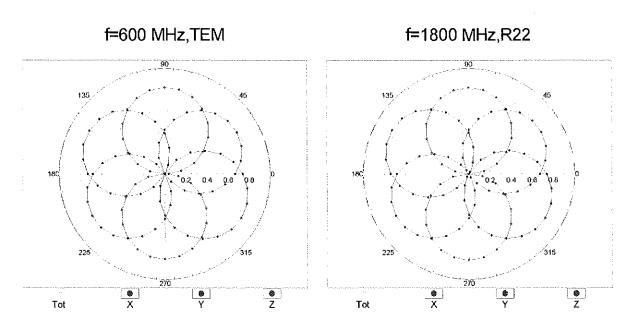
⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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

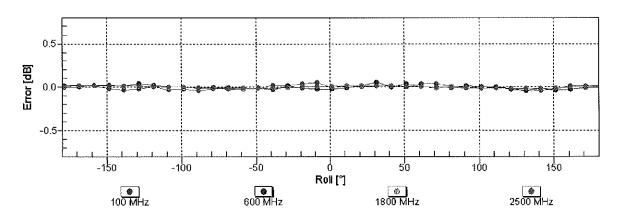
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

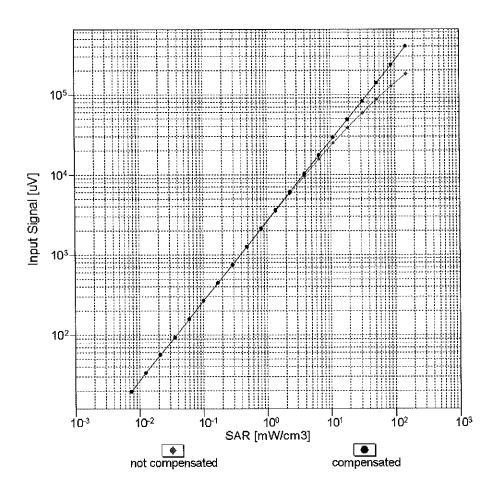
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

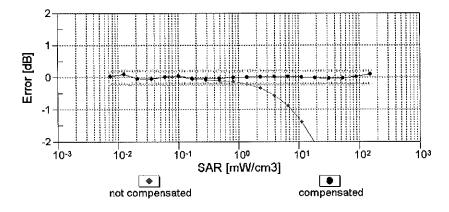




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

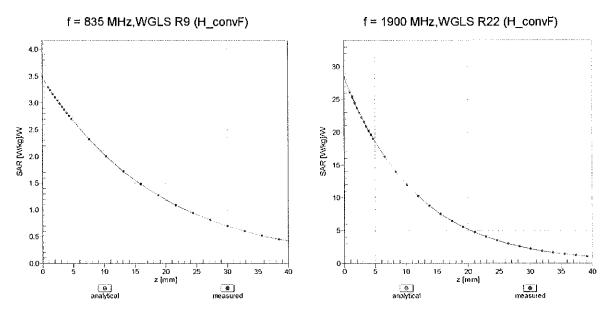
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



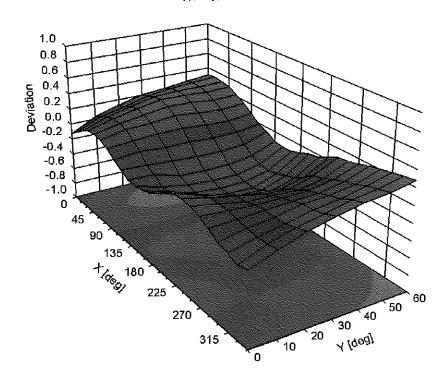


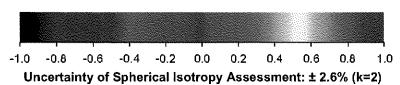
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



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





DASY/EASY - Parameters of Probe: EX3DV4 - SN:7357

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	11.4
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Appendix: Modulation Calibration Parameters

UID	lix: Modulation Calibration Parar Communication System Name		A dB	dΒ√μV	С	D dB	VR mV	Max Unc ^E (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	151.5	± 2.7 %
		Υ	0.00	0.00	1.00		139.1	
		Z	0.00	0.00	1.00		158.4	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	·Χ	1.67	61.93	7.65	10.00	20.0	± 9.6 %
		Υ	2.82	69.17	11.50		20.0	
		Ζ	1.68	62.20	7.72		20.0	
10011- CAB	UMTS-FDD (WCDMA)	Х	0.91	67.36	14.64	0.00	150.0	± 9.6 %
		Υ	1.03	67.52	15.32		150.0	
		Ζ	0.87	67.00	14.33		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	Х	1.03	63.20	14.83	0.41	150.0	± 9.6 %
****		Υ	1.15	63.79	15.34		150.0	
		Z	1.01	63.27	14.81		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	Х	4.63	66.39	16.96	1.46	150.0	± 9.6 %
		Υ	4.87	66.69	17.19		150.0	
		Z	4.64	66.53	16.99		150.0	
10021- D A C	GSM-FDD (TDMA, GMSK)	Х	3.67	70.27	12.79	9.39	50.0	± 9.6 %
		Υ	100.00	116,17	27.83		50.0	
		Z	17.04	87.58	18.77		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	Х	3.48	69.40	12.45	9.57	50.0	± 9.6 %
		Υ	100.00	115.39	27.52		50.0	
		Ζ	8.91	80.25	16.55		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	Х	1.80	66.18	9.84	6.56	60.0	±9.6 %
		Υ	100.00	120.19	28.55		60.0	
		Z	100.00	103.30	20.82		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	Х	3.42	64.49	22.34	12.57	50.0	± 9.6 %
		Υ	6.04	85.62	35.55		50.0	
		Ζ	3.44	65.04	22.85		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	6.25	83.47	29.08	9.56	60.0	±9.6 %
		Υ	9.24	95.88	35.47		60.0	
		Z	6.56	85.41	30.17		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	Х	0.96	63.24	7.67	4.80	80.0	± 9.6 %
		Υ	100.00	125.59	30.06		80.0	
	}	Z	100.00	100.14	18.62		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	Х	0.48	60.36	5.50	3.55	100.0	± 9.6 %
		Υ	100.00	132.37	32.13		100.0	
		Z	99.97	95.45	15.98		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	Х	4.19	75.28	24.64	7.80	80.0	± 9.6 %
		Υ	5.35	81.78	28.49		80.0	
		Z	4.26	76.21	25.31		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Х	1.09	63.09	7.76	5.30	70.0	± 9.6 %
		Υ	100.00	120.14	28.06		70.0	
		Z	4.93	76.05	12.90		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Х	0.27	60.00	3.17	1.88	100.0	± 9.6 %
		Υ	100.00	135.00	31.47		100.0	
		Z	0.26	60.00	3.07		100.0	

10032-	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	27.08	314.20	3,36	1.17	100.0	± 9.6 %
CAA		Υ	400.00	440.00	05.00		400.0	
		Z	100.00 1.21	149.06 330.96	35.68 55.77		100.0 100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	3.08	73.10	16.00	5.30	70.0	± 9.6 %
		Υ	100.00	136.30	37.75		70.0	
		Z	7.37	86.92	21.69		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	1.25	65.91	11.39	1.88	100.0	± 9.6 %
		Υ	5.27	87.77	22.72		100.0	
		Z	1.70	70.42	13.93		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Х	0.99	64.64	10.52	1.17	100.0	± 9.6 %
		Y	2.59	77.96	18.88		100.0	
10036-	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	1.19 3.48	67.26 74.91	12.19 16.77	E 20	100.0	1060/
CAA	IEEE 002.13.1 Bide(00th (6-DPSK, DH1)					5.30	70.0	± 9.6 %
		Y Z	100.00 11.33	136.90 93.27	38.02 23.71	·	70.0 70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	1.18	65.50	11.18	1.88	100.0	± 9.6 %
		Υ	4.66	86.12	22.16		100.0	
		Z	1.56	69.56	13.55		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Х	1.00	64.92	10.78	1.17	100.0	± 9.6 %
		Υ	2.61	78.41	19.18		100.0	
		Z	1.21	67.70	12.52		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	Х	0.95	64.99	10.40	0.00	150.0	± 9.6 %
		Υ	1.84	72.12	15.71		150.0	
10010		Z	1.02	65.84	10.98	<u>-</u>	150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	Х	1.77	64.37	9.09	7.78	50.0	±9.6%
		Y	100.00	113.16	25.71		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Z X	2.56 0.31	68.32 133.81	10.93 11.51	0.00	50.0 150.0	± 9.6 %
		Y	0.00	104.03	5.27	1	150.0	
		Z	0.33	142.49	0.98		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	4.01	66.51	12.74	13.80	25.0	±9.6%
		Υ	100.00	110.91	26.95		25.0	
		Z	5.44	70.40	14.40		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	3.70	68.56	12.33	10.79	40.0	± 9.6 %
		Y	100.00	112.50	26.54		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	Z X	5.22 6.09	72.87 76.95	14.17 17.81	9.03	40.0 50.0	± 9.6 %
		Υ	100.00	128.62	35.43		50.0	
		Ζ	13.22	89.10	22.41		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	Х	3.39	71.63	22.33	6.55	100.0	± 9.6 %
		Y	4.14	76.10	25.11		100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2	Z X	3.42 1.03	72.27 63.98	22.83 15.22	0.61	100.0	± 9.6 %
OVD	Mbps)	Υ	1.18	64.90	16.05	-	110.0	
		Z	1.02	64.18	15.34		110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	5.25	93.28	23.11	1.30	110.0	± 9.6 %
·-	1	Υ	100.00	145.92	38.93		110.0	
		Z	39.44	123.36	31,22	1	110.0	

10061-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Х	1.80	74.31	19.24	2.04	110.0	± 9.6 %
CAB	Mbps)		. 					
		Y	3.02	83.93	24.56	······································	110.0	
10062-	AFFE 000 44-9, WES 5 OLL (OFD) 4 O	Z	2.14	78.36	21.37		110.0	
CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.44	66.41	16.45	0.49	100.0	± 9.6 %
		Υ	4.68	66.67	16.57		100.0	
		Z	4.45	66.51	16.42		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.45	66.48	16.52	0.72	100.0	± 9.6 %
		Υ	4.69	66.78	16.69		100.0	
		Z	4.46	66.59	16.51		100.0	******
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	Х	4.70	66.70	16.72	0.86	100.0	± 9.6 %
***		Y	4.99	67.05	16.93		100.0	
40005		Z	4.72	66.83	16.73		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.56	66.53	16.77	1.21	100.0	± 9.6 %
		Υ	4.85	66.96	17.05		100.0	
10000		Z	4.58	66.69	16.81		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	Х	4.57	66.51	16.90	1.46	100.0	±9.6 %
		Υ	4.87	66.98	17.22		100.0	
1005-		Z	4.60	66.69	16.96		100.0	
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	4.86	66.77	17.36	2.04	100.0	± 9.6 %
		Υ	5.15	67.13	17.68		100.0	
		Z	4.89	66.94	17.44		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	4.88	66.65	17.49	2.55	100.0	±9.6 %
		Υ	5.20	67.19	17.93		100.0	
		Z	4.91	66.87	17.60		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	Х	4.95	66.72	17.70	2.67	100.0	± 9.6 %
		Υ	5.28	67.17	18.11		100.0	
		Z	4.99	66.91	17.80		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	Х	4.71	66.43	17.22	1.99	100.0	± 9.6 %
		Υ	4.96	66.77	17.51		100.0	
		Z	4.73	66.59	17.28		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	Х	4.67	66.65	17.37	2.30	100.0	± 9.6 %
		Υ	4.94	67.10	17.75		100.0	
		Z	4.69	66.85	17.47		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	Х	4.72	66.79	17.66	2.83	100.0	± 9.6 %
		Υ	4.99	67.24	18.08		100.0	
		Z	4.75	67.01	17.79		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.72	66.70	17.78	3.30	100.0	± 9.6 %
		Υ	4.95	67.09	18.23		100.0	
		Z	4.74	66.91	17.92		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	Х	4.74	66.71	18.01	3.82	90.0	± 9.6 %
		Υ	4.98	67.20	18,56		90.0	
		<u> Z</u>	4.76	66.94	18.18		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	4.77	66.58	18.17	4.15	90.0	± 9.6 %
	.,	Y	4.98	66.93	18.66		90.0	ļ
		Z	4.79	66.78	18.33		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	Х	4.80	66.66	18.27	4.30	90.0	± 9.6 %
		Υ	5.00	66.98	18.75		90.0	
		Z	4.82	66.86	18.43		90.0	

	·							
10081- CAB	CDMA2000 (1xRTT, RC3)	X	0.45	61.00	7.50	0.00	150.0	± 9.6 %
	***	Υ	0.83	65.94	12.49	<u> </u>	150.0	
		Z	0.46	61.34	7.83		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	Х	0.68	60.00	3.10	4.77	80.0	± 9.6 %
		Υ	0.78	61.11	4.54		80.0	
		Ζ	0.72	60.00	2.85		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	1.84	66,30	9.91	6.56	60.0	± 9.6 %
		Υ	100.00	120.24	28.59		60.0	
		Z	100.00	103.44	20.90		60.0	
10097- CAB	UMTS-FDD (HSDPA)	Х	1.71	67.90	15.28	0.00	150.0	± 9.6 %
		Υ	1.82	67.70	15.69		150.0	
		Z	1.68	67.71	15.15		150.0	
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	Х	1.67	67.85	15.26	0.00	150.0	± 9.6 %
·	***************************************	Y	1.79	67.66	15.66		150.0	
40000	EDOE EDD (TDMA COCK THE C	Z	1.64	67.65	15.11		150.0	
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	Х	6.29	83.56	29.10	9.56	60.0	± 9.6 %
		Υ	9.34	96.14	35.56		60.0	
10100		Z	6.61	85.53	30.21		60.0	
10100- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	×	2.90	69.76	16.53	0.00	150.0	± 9.6 %
		Υ	3.14	70.37	16.71	·	150.0	
		Z	2.89	69.82	16.39		150.0	
10101- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	3.04	67.08	15.83	0.00	150.0	± 9.6 %
		Υ	3.24	67.51	15.94		150.0	
		Z	3.03	67.13	15.70		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	3.15	67.10	15.95	0.00	150.0	± 9.6 %
		Υ	3.34	67.47	16.02		150.0	
		Z	3.13	67.15	15.83		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	Х	4.81	72.04	18.88	3.98	65.0	± 9.6 %
		Υ	6.41	77.25	21.56		65.0	
		Z	5.14	73.67	19.73		65.0	
10104- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	5.09	70.84	19.13	3.98	65.0	± 9.6 %
		Υ	5.94	73.69	20.83		65.0	
		Z	5.16	71.44	19.51		65.0	
10105- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	4.78	69.37	18.75	3.98	65.0	± 9,6 %
		Υ	5.83	73.15	20.89		65.0	
		Z	4.90	70.20	19.25		65.0	
10108- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.51	69.24	16.41	0.00	150.0	± 9.6 %
		Υ	2.74	69.60	16.54		150.0	
		Z	2.49	69.21	16.24		150.0	
10109- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	2.68	67.06	15.67	0.00	150.0	± 9.6 %
		Υ	2.89	67.36	15.84		150.0	
45445		Z	2.67	67.07	15.55		150.0	
10110- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	1.99	68.49	15.84	0.00	150.0	± 9.6 %
		Υ	2.22	68.71	16.15		150.0	
		Z	1.98	68.38	15.68		150.0	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	2.41	68.19	15.80	0.00	150.0	± 9.6 %
		Υ	2.61	68.17	16.11		150.0	
		Z	2.40	68.17	15.74		150.0	

10110	T							
10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.81	67.12	15.76	0.00	150.0	± 9.6 %
		Υ	3.02	67.35	15.89		150.0	
		Z	2.80	67.12	15.64		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.56	68.40	15.97	0.00	150.0	± 9.6 %
		Υ	2.76	68.30	16.24		150.0	
		Ζ	2.55	68.39	15.92		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	Х	4.95	66.96	16.54	0.00	150.0	± 9.6 %
		Υ	5.12	67.17	16.44		150.0	
		Z	4.92	66.97	16.39		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	5.23	67.14	16.63	0.00	150.0	±9.6 %
		Υ	5.41	67.31	16.52		150.0	
		Z	5.18	67.06	16.45		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	Х	5.04	67.18	16.57	0.00	150.0	±9.6 %
		Υ	5.22	67.37	16.47		150.0	
		Ζ	5.01	67.18	16.42		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	Х	4.94	66.92	16.53	0.00	150.0	± 9.6 %
		Υ	5.09	67.03	16.39		150.0	
		Z	4.91	66.91	16.38		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	Х	5.34	67.47	16.81	0.00	150.0	± 9.6 %
		Y	5.50	67.52	16.63		150.0	
		Z	5.27	67.32	16.58		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.06	67.24	16.61	0.00	150.0	± 9.6 %
		Y	5.20	67.31	16.45		150.0	
		Z	5.01	67.18	16.43		150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.17	67.11	15.85	0.00	150.0	± 9.6 %
		Y	3,38	67.48	15.94		150.0	
		Z	3,16	67.15	15.73		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3.30	67.28	16.06	0.00	150.0	± 9.6 %
		Υ	3.50	67.57	16.11		150.0	
		Z	3.29	67.32	15.94	···	150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.73	68.17	14.94	0.00	150.0	± 9.6 %
		Υ	2.00	68.71	15.82		150.0	
		Z	1.72	68.11	14.89		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	2.15	68.15	14.63	0.00	150.0	± 9.6 %
		Υ	2.47	68.91	15.82		150.0	
		Ζ	2.17	68.32	14.76		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	1.86	65.26	12.63	0.00	150.0	± 9.6 %
······································		Υ	2.24	66.62	14.22		150.0	
***************************************		Z	1.88	65.43	12.77		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	0.67	60.16	6.91	0.00	150.0	± 9.6 %
		Υ	1.22	65.11	11.80	i	150.0	
		Z	0.71	60.61	7.39		150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	0.95	60.06	6.44	0.00	150.0	± 9.6 %
		Y	1.65	64.56	10.76		150.0	
				61.07	7.44		150.0	
		Z	1.07	1 01.07				
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	0.99	60.33	6.68	0.00	150.0	± 9.6 %
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)					0.00		± 9.6 %

10110	LTE EDD (OO EDMA SOOV DD OO MIL	1 1		07.40	15.70		1.50.0	
10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.69	67.13	15.72	0.00	150.0	± 9.6 %
		Υ	2.90	67.42	15.88		150.0	
		Z	2.68	67.14	15.60		150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	Х	2.82	67.19	15.80	0.00	150.0	± 9.6 %
		Υ	3.03	67.40	15.93		150.0	
		Z	2.81	67.19	15.69		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	5.01	74.56	19.93	3.98	65.0	± 9.6 %
		Υ	6.65	79.71	22.70		65.0	
		Ζ	5.36	76.27	20.86		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	4.60	70.61	18.55	3.98	65.0	± 9.6 %
		Υ	5.50	73.80	20.64		65.0	
		Ζ	4.69	71.33	19.06		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	×	4.95	71.72	19.46	3.98	65.0	± 9.6 %
		Υ	5.84	74.66	21.37		65.0	
4045		Z	5.05	72.49	19.99		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.04	68.92	16.11	0.00	150.0	± 9.6 %
		Υ	2.27	69.12	16.41		150.0	
1015-		Z	2.03	68.83	15.96		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.41	68.23	15.84	0.00	150.0	± 9.6 %
		Y	2.61	68.18	16.13		150.0	
10150		Ζ	2.40	68.21	15.77		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	1.51	67.60	14.13	0.00	150.0	± 9.6 %
		Υ	1.84	68.81	15.61		150.0	
		Z	1.52	67.67	14.19		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	1.63	65.15	12.07	0.00	150.0	± 9.6 %
****		Υ	2.08	67.20	14.25		150.0	
		Ζ	1.66	65.43	12.31		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	2.57	68.50	16.04	0.00	150,0	± 9.6 %
		Υ	2.77	68.36	16.29		150.0	
		Z	2.56	68.48	15.98		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	1.70	65.38	12.24	0.00	150.0	± 9.6 %
		Υ	2.19	67.65	14.54		150.0	
		Z	1.74	65.76	12.53		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.62	68.99	16.41	0.00	150.0	± 9.6 %
		Υ	2.74	68.65	16.32		150.0	
101-1		Z	2.56	68.70	16.16		150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	2.71	67.15	15.66	0.00	150.0	± 9.6 %
		Υ	2.92	67.34	15.86		150.0	
		Z	2.70	67.15	15.57		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	2.82	67.38	15.82	0.00	150.0	± 9.6 %
		Υ	3.03	67.49	15.97		150.0	
10166-	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz,	Z X	2.81 3.14	67.37 68.82	15.72 18.96	3.01	150.0 150.0	± 9.6 %
CAE	QPSK)							
		Y	3.40	68.62	18.58		150.0	
40407	LITE EDD (OO ED) (A SOO ED)	Z	3.24	69.38	19.21		150.0	:
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	3.68	71.26	19.14	3.01	150.0	± 9.6 %
		Υ	4.01	70.93	18.84		150.0	
	'	Z	3.86	71.98	19.46		150.0	

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	4.20	74.21	20.88	3.01	150.0	± 9.6 %
		Υ	4.39	72.91	20.06	-	150.0	
		Z	4.45	75.16	21.28	_	150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	2.49	66.95	18.11	3.01	150.0	± 9.6 %
		Y	2.73	67.59	18.14	-	150.0	
		Z	2.58	67.69	18.47		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	3.17	72.06	20.27	3.01	150.0	± 9.6 %
		Υ	3.45	72.20	20.01		150.0	
***************************************		Z	3.40	73.44	20.89		150.0	***************************************
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	2.61	67.98	17.29	3.01	150.0	± 9.6 %
		Υ	2.93	68.85	17.54		150.0	
		Ζ	2.74	68.83	17.69		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	3.59	76.79	22.90	6.02	65.0	± 9.6 %
		Υ	7.70	92.12	29.64		65.0	
		Ζ	4.50	82.04	25.61		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	5.40	81.69	22.80	6.02	65.0	±9.6%
		Y	14.31	100.07	30.15		65.0	
		Z	8.60	91.21	26.84		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	3.41	73.68	19.23	6.02	65.0	± 9.6 %
		Υ	12.55	96.17	28.30		65.0	
		Z	5.50	82.57	23.30		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	2.47	66.66	17.85	3.01	150.0	±9.6 %
		Υ	2.70	67.34	17.92		150.0	
		Z	2.55	67.36	18.19		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	3.18	72.09	20.28	3.01	150.0	± 9.6 %
		Y	3.46	72.22	20.02		150.0	
		Z	3.41	73.46	20.90		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.48	66.79	17.93	3.01	150.0	± 9.6 %
		Y	2.72	67.46	18.00		150.0	
		Z	2.57	67.51	18.28		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	3.15	71.92	20.18	3.01	150.0	± 9.6 %
		Υ	3.43	72.05	19.92		150.0	
		Z	3.38	73.25	20.78		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	2.85	69.85	18.61	3.01	150.0	±9.6%
		Υ	3.17	70.44	18.65		150.0	
		Z	3.03	70.94	19.12		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	2.61	67.94	17.25	3.01	150.0	± 9.6 %
		Υ	2.92	68.79	17.50		150.0	
		Ζ	2.74	68.78	17.65		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	2.48	66.77	17.93	3.01	150.0	±9.6 %
		Υ	2.71	67.45	18.00		150.0	
		Z	2.56	67.49	18.28		150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	Х	3.15	71.89	20.17	3.01	150.0	± 9.6 %
		Υ	3.42	72.03	19.91		150.0	
		Z	3.37	73.22	20.77		150.0	
10183-	LITE FOO /OO FOMA A DO ACAMILE	X	2.60	67.92	17.24	3.01	150.0	± 9.6 %
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)							
		Y	2.92	68.77	17.49		150.0	

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	2.49	66.81	17.95	3.01	150.0	± 9.6 %
		Y	2.72	67.49	18.02		150.0	
		ż	2.57	67.53	18.30		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.16	71.97	20.21	3.01	150.0	± 9.6 %
	,	Υ	3.44	72.09	19.94		150.0	
		Ζ	3.39	73.31	20.81		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	2.62	67.98	17.28	3.01	150.0	± 9.6 %
		Υ	2.93	68.83	17.52	,	150.0	
		Z	2.74	68.82	17.67	······································	150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	2.50	66.88	18.03	3.01	150.0	±9.6 %
		Υ	2.73	67.53	18.08		150.0	
		Ζ	2.58	67.61	18.38		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	3.26	72.60	20.60	3.01	150.0	± 9.6 %
		Υ	3.53	72.62	20.27	***************************************	150.0	
		Z	3.51	74.04	21.24		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	2.67	68.35	17.55	3.01	150.0	± 9.6 %
		Υ	2.99	69.18	17.77		150.0	
		Z	2.80	69.24	17.97		150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	Х	4.32	66.50	16.16	0.00	150.0	± 9.6 %
		Υ	4.52	66.59	16.14		150.0	
		Ζ	4.31	66.50	16.05		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.47	66.75	16.31	0.00	150.0	±9.6%
		Υ	4,69	66.90	16.27		150.0	
		Z	4.46	66.77	16.19		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	Х	4.51	66.78	16.33	0.00	150.0	± 9.6 %
	-	Υ	4.73	66.93	16.28		150.0	
		Z	4.50	66.80	16.21		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	Х	4.31	66.51	16.16	0.00	150.0	± 9.6 %
		Υ	4.52	66.65	16.16		150.0	
		Z	4.30	66.52	16.05		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	Х	4.48	66.77	16.32	0.00	150.0	± 9.6 %
		Υ	4.70	66.92	16.28		150.0	
		Ζ	4.47	66.78	16.20		150.0	
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	Х	4.50	66.79	16.33	0.00	150.0	± 9.6 %
		Υ	4.73	66,95	16.30		150.0	
		Ζ	4.49	66.81	16.22		150.0	
10219- CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	Х	4.26	66.54	16.13	0.00	150,0	± 9.6 %
		Υ	4.47	66.66	16.12		150.0	
		Z	4.25	66.55	16.01	<u> </u>	150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	Х	4.47	66.73	16.30	0.00	150.0	± 9.6 %
		Υ	4.70	66.89	16.27		150.0	
		Z	4.46	66.74	16.19		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	Х	4.51	66.73	16.32	0.00	150.0	± 9.6 %
		Υ	4.74	66.87	16.28		150.0	
		Z	4.51	66.74	16.20		150.0	
10222+ CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	Х	4.91	66.89	16.51	0.00	150.0	± 9.6 %
		Υ	5.06	67.05	16.39		150.0	
		Z	4.88	66.88	16.36		150.0	

10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.21	67.18	16.67	0.00	150.0	± 9.6 %
,,		Υ	5.37	67.24	16.51		150.0	
····		ż	5.17	67.14	16.51		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	4.95	66.99	16.48	0.00	150.0	± 9.6 %
		Y	5.11	67.16	16.37		150.0	
		Z	4.91	66.98	16.33		150.0	
10225- CAB	UMTS-FDD (HSPA+)	Х	2.57	65.87	14,82	0.00	150.0	± 9.6 %
		Υ	2.79	66.10	15.32		150.0	
		Z	2.57	65.89	14.81		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	5.70	82.73	23.27	6.02	65.0	± 9.6 %
		Υ	15.45	101.64	30.73		65.0	
		Z	9.36	92.89	27.50		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	5.51	81.11	22.01	6.02	65.0	±9.6 %
		Υ	15.16	99.52	29.37		65.0	
		Z	9.33	91.39	26.29		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	4.37	80.87	24.58	6.02	65.0	± 9.6 %
		Y	8.06	93.39	30.16		65.0	
		Z	5.51	86.54	27.40		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	Х	5.43	81.78	22.83	6.02	65.0	± 9.6 %
		Y	14.43	100.19	30.19		65.0	
		Z	8.67	91.34	26.89		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	5.22	80.18	21.60	6.02	65.0	± 9.6 %
		Υ	14.07	98.09	28.85		65.0	
		Z	8.56	89.82	25.70		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	4.21	80.08	24.19	6.02	65.0	± 9.6 %
		Y	7.72	92.42	29.75		65.0	<u> </u>
		Z	5.25	85.50	26.93		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	5.42	81.76	22.83	6.02	65.0	± 9.6 %
		Y	14.40	100.18	30.19		65.0	
		Z	8.65	91.31	26.89		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	Х	5.21	80.16	21.59	6.02	65.0	± 9.6 %
		Y	14.03	98.05	28.84		65.0	
		Z	8.53	89.78	25.69		65.0	
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	4.09	79.41	23.80	6.02	65.0	± 9.6 %
		Υ	7.46	91.57	29.34		65.0	
		Z	5.06	84.64	26.49		65.0	
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	5.43	81.79	22.84	6.02	65.0	± 9.6 %
		Υ	14.42	100.22	30.20		65.0	
		Ζ	8.66	91.36	26.90		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	5,25	80.28	21.63	6.02	65.0	± 9.6 %
		Υ	14.26	98.30	28.91		65.0	
		Z	8.64	89.96	25.74		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	4.21	80.11	24.20	6.02	65.0	± 9.6 %
		Υ	7.73	92.49	29.78		65.0	
		Z	5.25	85.54	26.95		65.0	
10238-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	Х	5.41	81.74	22.82	6.02	65.0	± 9.6 %
CAD	16-QAM)			ł	1	1	1	
CAD	16-QAM)	Y	14.37	100.15	30.18		65.0	

10239-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	Х	5.19	80.13	21.58	6.02	65.0	± 9.6 %
CAD	64-QAM)					0.02	00.0	2 070 70
		Υ	13.97	98.01	28.83		65.0	
	·	Ζ	8.50	89.73	25.67		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	4.20	80.08	24.19	6.02	65.0	± 9.6 %
		Υ	7.71	92.44	29.76		65.0	
		Z	5.24	85.50	26.94		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	6,28	77.75	23.74	6.98	65.0	± 9.6 %
		Υ	7.17	79.66	25.20		65.0	
		Z	6.62	79.11	24.64		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	5.61	75.51	22.71	6.98	65.0	± 9.6 %
		Υ	7.01	79.22	24.95		65.0	
		Z	6.04	77.21	23.74		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	Х	4.77	72.80	22,43	6.98	65.0	± 9.6 %
		Υ	5.72	75.84	24.40		65.0	
		Ζ	4.99	73.88	23.19		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	3.08	66,71	12.88	3.98	65.0	± 9,6 %
		Υ	5.65	76.51	19.16		65.0	
		Z	3.79	70.31	15.20		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	3.05	66.35	12.65	3.98	65.0	± 9.6 %
		Υ	5.47	75.72	18.77		65.0	
		Ζ	3.68	69.62	14.83		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	2.73	68.50	14.10	3.98	65.0	± 9.6 %
		Υ	6.90	84.10	22.59		65.0	
_,		Ζ	3.38	72.30	16.31		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	3.32	68.16	14.83	3.98	65.0	± 9.6 %
		Υ	5.00	75.29	19.75		65.0	
		Z	3.63	70.11	16.18		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	3.35	67.83	14.68	3.98	65.0	± 9.6 %
		Υ	4.95	74.49	19.36		65.0	-
		Z	3.62	69.55	15.90		65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	3.90	73.79	17.79	3.98	65.0	± 9.6 %
		Υ	7.87	86.63	24.46		65.0	
		Z	4.87	78.17	20.05		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	4.46	72.43	19.10	3.98	65.0	± 9.6 %
		Υ	5.61	76.63	21.92		65.0	
-		Z	4.70	73.89	20.05		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	4.27	70.46	17.79	3.98	65.0	± 9.6 %
		Υ	5.36	74.41	20.57		65.0	
		Ζ	4.43	71.53	18.56		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	4.80	76.28	20.36	3.98	65.0	± 9.6 %
		Υ	7.12	83.67	24.31		65.0	
		Ζ	5.40	79.04	21.81		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	4.54	70.25	18.29	3.98	65.0	± 9.6 %
		Υ	5.37	73.18	20.35		65.0	
		Z	4.62	70.94	18.80		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	4.85	71.22	19.07	3.98	65.0	± 9.6 %
		Υ	5.69	74.00	21.02		65.0	
		Z	4.94	71.96	19.60		65.0	

10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	4.83	74.07	19.88	3.98	65.0	± 9.6 %
		Υ	6.20	78.60	22.49		65.0	
		Z	5.10	75.57	20.75		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	2.29	63.25	9.85	3.98	65.0	± 9.6 %
		Y	4.33	72.34	16.30		65.0	
		Z	2.61	65.28	11.48		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.28	62.96	9.60	3.98	65.0	± 9.6 %
		Y	4.16	71.35	15.76		65.0	
10050		Z	2.56	64.75	11.10		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.96	64.07	10.75	3.98	65.0	± 9.6 %
		Y	4.97	78.32	19.50		65.0	
40050		Z	2.22	66.21	12,33		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	3.77	69.86	16.44	3.98	65.0	± 9.6 %
		Y	5.26	75.82	20.54	·····	65.0	
40000	LITE TOD (OO EDMA 4000) CO CAND	Z	4.07	71.70	17.67	0.00	65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	3.81	69.66	16.35	3.98	65.0	± 9.6 %
		Y	5.26	75.42	20.36		65.0	
10007	LITE TOD (OO FOLIA 4000) DE CANO	Z	4.10	71.41	17.53	6.5-	65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	4.13	74.31	18.63	3.98	65.0	± 9.6 %
		Y	6.91	83.89	23.89		65.0	
40000	LITE TOP (OO FOMA 4000) DD 5 MIL	<u> Z</u>	4.85	77.73	20.46		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	4.45	72.36	19.04	3.98	65.0	± 9.6 %
		Υ	5.60	76.58	21.88		65.0	
		Z	4.68	73.81	19.99		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	4.26	70.44	17.79	3.98	65.0	± 9.6 %
		Y	5.34	74.38	20.56		65.0	
		Z	4.42	71.51	18.55		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	4.75	76.08	20.25	3.98	65.0	± 9.6 %
		Υ	7.04	83.44	24.20		65.0	
		Z	5.33	78.79	21.68		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	4.60	70.61	18.56	3.98	65.0	± 9.6 %
		Υ	5.50	73.80	20.64		65.0	
		Z	4.69	71.34	19.07		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	4.95	71.71	19.45	3.98	65.0	± 9.6 %
		Υ	5.83	74.64	21.36		65.0	
10000		Z	5.05	72.48	19.97		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	Х	5.01	74.52	19.91	3.98	65.0	± 9.6 %
		Y	6.63	79.66	22.68		65.0	
10000	1 777 700 (00 77)	<u> </u>	5.35	76.22	20.84		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	5.27	70.89	19.25	3.98	65.0	± 9.6 %
		Y	6.07	73.43	20.81		65.0	
1000-	LITE TOD (OO EDI)	Z	5.33	71.43	19.60		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	5.29	70.58	19.15	3.98	65.0	± 9.6 %
		Υ	6.04	72.94	20.64	<u> </u>	65.0	
		Z	5.34	71.06	19.47	<u>.</u>	65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	5.17	72.58	19.33	3.98	65.0	± 9.6 %
		Υ	6.28	76.09	21.29		65.0	
		Z	5.35	73.62	19.93		65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	Х	2.41	66.43	14.82	0.00	150.0	± 9.6 %
· · · · · · · · · · · · · · · · · ·		Y	2.58	66.48	15.24	<u> </u>	150.0	
		Ż	2.39	66.38	14.76		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	Х	1.45	67.76	15.04	0.00	150.0	± 9.6 %
		Υ	1.61	67.98	15.58		150.0	
		Z	1,42	67.56	14.85		150.0	
102 7 7- CAA	PHS (QPSK)	X	1.74	59.75	5.31	9.03	50,0	± 9.6 %
		Υ	1.81	61.19	6.71		50.0	
10278-	DHC (ODCK DW 004MH= D-H-K 0.5)	Z	1.73	59.88	5.41	0.00	50.0	
CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	2.71	64.14	10.09	9.03	50.0	± 9.6 %
		Y	10.58	86.01	20.92		50.0	
10279-	PHS (QPSK, BW 884MHz, Rolloff 0.38)	Z	2.95 2.77	65.66 64.34	11.11	0.00	50.0	1000
CAA	FIIS (QFSK, BVV 004IVIIIZ, KUIIUII U.30)				10.25	9.03	50.0	± 9.6 %
		Y Z	10.86 3.03	86.33	21.10		50.0	
10290-	CDMA2000, RC1, SO55, Full Rate	X	0.78	65.92 62.91	11.30 9.04	0.00	50.0 150.0	± 9.6 %
AAB	Sent (2000) No 1, 0000, 1 uli Nate	^ Y				0.00		1 3.0 %
		Z	1.44 0.82	68.67 63.50	13.91 9.52		150.0 150.0	
10291-	CDMA2000, RC3, SO55, Full Rate	X	0.62	60.90	7.41	0.00	150.0	± 9.6 %
AAB	55111 2000, 1100, 5000, 1 un 11ul	Y	0.81	65.70		0.00	-	1 9.0 %
		Z	0.46	61.22	12.35 7.73		150.0 150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	0.52	62.90	8.81	0.00	150.0	± 9.6 %
AAD		Υ	1.08	70.34	14.96		150.0	
		Z	0.54	63.47	9,26		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	0.85	67.98	11.75	0.00	150.0	± 9.6 %
		Y	1.81	77.73	18.47		150.0	
		Z	0.93	69.19	12.44		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	Х	10.59	83.36	20.91	9.03	50.0	± 9.6 %
		Υ	13.63	95.28	28.15		50.0	
		Ζ	12.33	87.48	22.99		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.52	69.36	16.49	0.00	150.0	± 9.6 %
		Υ	2.75	69.70	16.61		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Z X	2.51 1.02	69.33 63.71	16.32 10.46	0.00	150.0 150.0	± 9.6 %
70.0		Υ	1.56	67.65	14.07		150.0	[
		Z	1.06	64.21	10.86	<u> </u>	150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	1.41	63.10	9.49	0.00	150.0	± 9.6 %
		Υ	2.20	67.48	13.20		150.0	
		Z	1.66	65.04	10.89		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	1.19	60.99	7.64	0.00	150.0	±9.6%
		Y	1.75	63.96	10.73		150.0	
10301-	IEEE 802 160 M/MAN / /20-40 5	Z	1.30	61.89	8.49		150.0	
AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.40	65.21	17.25	4.17	50.0	± 9.6 %
~~		Υ	4.79	65.64	17.57		50.0	
10302-	IEEE 900 460 M/MAY (20:40, 5	Z	4.51	65.62	17.36		50.0	
AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	4.89	66.01	18.10	4.96	50.0	± 9.6 %
		Υ	5.23	66.10	18.21		50.0	
		Z	4.90	65.76	17.79	1	50.0	l

IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.65	65.68	17.92	4.96	50.0	± 9.6 %
	Y	4.97	65.72	18.04		50.0	
IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.43	65.21	17.19	4.17	50.0	± 9.6 %
	Y	4.78	65.59	17.51		50.0	
	Z	4.47	65.30	17.12		50.0	
IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	Х	4.15	67.54	18.96	6.02	35.0	± 9.6 %
10MHz, 64QAM, PUSC, 18 symbols)					6.02		± 9.6 %
IFFF 000 40 - MANANY (00:40, 40	+				0.00		
10MHz, QPSK, PUSC, 18 symbols)					6.02		± 9.6 %
IEEE 000 40 - MENANY (00 40 40					~ ~ ~		
IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)					6.02		± 9.6 %
(FFF 000 40 - \0.00 40 40 40 40					0.00		
10MHz, 16QAM, AMC 2x3, 18 symbols)					6.02		± 9.6 %
1555 000 40 W/MAY (00 40 40	$\frac{Z}{V}$. 0 0 8/
164 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	<u> </u>				6.02		± 9.6 %
LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)					0.00		± 9.6 %
iDEN 1:3					6.99		± 9.6 %
iDEN 1:6					10.00		± 9.6 %
	1						
	Z						
IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)					0.17		± 9.6 %
LEER AGO AL LINE A COLUMN TO THE COLUMN TO T					 		
IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)					0.17		±9.6%
IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)				16.23	0.17		± 9.6 %
							
IEEE 802.11ac WiFi (20MHz, 64-QAM,	Z X	4.34 4.44	66.49	16.17 16.30	0.00	150.0 150.0	± 9.6 %
99pc duty cycle)	Y						
	Ż	4.43	66.80	16.17		150.0	
LEET 000 44 MIE: /40ML - C4 OAM	X	5.15	66.76	16.42	0.00	150.0	± 9.6 %
IEEE 802.11ac WiFi (40MHz, 64-QAM,	^						
99pc duty cycle)	Y	5.39	67.16	16.44		150.0	
	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols) IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols) IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols) IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC) IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols) IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols) IEEE 802.11e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols) IEEE 802.11e WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle) IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	EEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	EEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	EEE 802.16e WIMAX (29:18, 5ms,

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.46	67.17	16.51	0.00	150.0	± 9.6 %
		Y	5.63	67.44	16.43		150.0	
		Z	5.43	67.19	16.37		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	Х	0.78	62.91	9.04	0.00	115.0	±9.6 %
		Y	1.44	68.67	13.91		115.0	
40404	00144000044 514 50 5	Z	0.82	63.50	9.52		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	0.78	62.91	9.04	0.00	115.0	± 9.6 %
		Y	1.44	68.67	13.91		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	Z X	0.82 100.00	63.50 119.25	9.52 28.40	0.00	115.0 100.0	± 9.6 %
		Y	9.50	91.59	22.98		100.0	
		Z	100.00	122.00	29.77		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	3.12	77.42	16.90	3.23	80.0	± 9.6 %
		Y	100.00	127.40	32.46		80.0	
		Z	100.00	125.01	30.73		80.0	
10415- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	Х	0.90	62.74	14.48	0.00	150.0	± 9.6 %
		Υ	1.00	62.96	14.62		150.0	
40440	LEEE COO 44 MIET CA COLL (EDD	Z	0.88	62.66	14.28		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.32	66.51	16.25	0.00	150.0	±9.6%
		Y	4.52	66.62	16,21		150.0	
10417-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6	Z	4.30	66.52	16.13	0.00	150.0	
AAB	Mbps, 99pc duty cycle)	^ Y	4.32	66.51	16.25	0.00	150.0	± 9.6 %
		Z	4.52	66.62	16.21		150.0	
10418-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.30 4.31	66.52 66.71	16.13	0.00	150.0	1000
AAA	OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	^	4.31	00.71	16.30	0.00	150.0	± 9.6 %
		Υ	4.51	66.79	16.23		150.0	
		Ζ	4.30	66.71	16.18		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	·	4.33	66.64	16.29	0.00	150.0	± 9.6 %
		Υ	4.53	66.73	16.23		150.0	
1000		Z	4.32	66.65	16.17		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	Х	4.44	66.62	16.30	0.00	150.0	± 9.6 %
		Y	4.65	66.73	16.25		150.0	
10423-	IEEE 802.11n (HT Greenfield, 43.3	Z	4.43	66.63	16.18		150.0	
AAB	Mbps, 16-QAM)	X	4.57	66.89	16.39	0.00	150.0	± 9.6 %
		Y 7	4.81	67.05	16.36		150.0	
10424-	IEEE 802.11n (HT Greenfield, 72.2	Z X	4.56 4.50	66.90 66.84	16.28	0.00	150.0	1000
AAB	Mbps, 64-QAM)	^ Y	4.73	67.00	16.37 16.33	0.00	150.0 150.0	± 9.6 %
		Ż	4.49	66.86	16.33		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.17	67.18	16.65	0.00	150.0	± 9.6 %
		Υ	5.33	67.30	16.51		150.0	
		Z	5.13	67.14	16.48	*******	150.0	
10426- AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	Х	5.23	67.40	16.76	0.00	150.0	± 9.6 %
		Υ	5.34	67.33	16.52		150.0	
		Z	5.16	67.27	16.54		150.0	

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	5.16	67.07	16.58	0,00	150.0	± 9.6 %
		Υ	5.35	67.30	16.51		150.0	
		Z	5.13	67.07	16.44	,	150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	Х	4.20	72.13	18.43	0.00	150.0	± 9.6 %
		Υ	4.22	70.70	18.10		150.0	
		Ζ	4.22	72.19	18.46		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	Х	3.93	67.10	16.09	0.00	150.0	± 9.6 %
		Y	4.20	67.18	16.20		150.0	
10432-	LITE EDD (CEDMA 45 MILL ETMA)	Z	3.93	67.10	16.01		150.0	
AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.26	66.93	16.28	0.00	150.0	± 9.6 %
		Y	4.50	67.05	16.28		150.0	
10433-	LITE EDD (OFDMA 20 MILE E TM 0.4)	Z	4.25	66.94	16.17		150.0	
AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.52	66.87	16.39	0.00	150.0	± 9.6 %
			4.75	67.03	16.35		150.0	
10434-	W-CDMA (BS Test Model 1, 64 DPCH)	Z X	4.51	66.89	16.27	0.00	150.0	1000
AAA	W-CDIVIA (DS Test Model 1, 64 DPCH)		4.28	72.84	18.10	0.00	150.0	± 9.6 %
		Υ	4.33	71.56	18.07		150.0	
10435-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	Z	4.34	73.06	18.24	0.00	150.0	
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	X	2.96	76.73	16.60	3.23	80.0	± 9.6 %
			100.00	127.17	32.36		80.0	
10447-	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1,	Z X	100.00 3.15	124.69 66.77	30.58 14.81	0.00	80.0 150.0	± 9.6 %
AAB	Clipping 44%)	Y	3.49	67.18	15.50	0.00		1 9.0 %
		Z					150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	3.17 3.79	66.84 66.88	14.85 15.96	0.00	150.0 150.0	± 9.6 %
, , , ,	Onppii 1 770/	Υ	4.04	66.96	16.06		150.0	
		z	3.79	66.88	15.87		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.09	66.75	16.17	0.00	150.0	± 9.6 %
		Υ	4.31	66.88	16.18		150.0	
		Z	4.08	66.77	16.07		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	4.31	66.64	16.24	0.00	150,0	± 9.6 %
		Υ	4.51	66.80	16.21		150.0	
		Z	4.30	66.66	16.12		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	Х	2,94	66.45	13.98	0.00	150.0	± 9.6 %
		Υ	3.38	67.33	15.10		150.0	
407		Z	2.98	66.61	14.10		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.17	67.89	16.91	0.00	150.0	± 9.6 %
		Υ	6.20	67.84	16.66		150.0	
		Z	6.10	67.86	16.74		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	Х	3.65	65.21	15.97	0.00	150.0	± 9.6 %
		Υ	3.78	65.27	15.92		150.0	
10		Z	3.63	65.21	15.85		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	Х	3.63	70.67	16.50	0.00	150.0	± 9.6 %
		Υ	3.97	70.83	17.45		150.0	
		Z	3.75	71.23	16.87		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	Х	4.91	69.28	18.19	0.00	150.0	± 9.6 %
		Υ	5.06	68,34	18.09		150.0	
		Ζ	4.97	69.44	18.31		150.0	

10460-	UMTS-FDD (WCDMA, AMR)	Х	0.82	68,91	15,77	0.00	150.0	± 9.6 %
AAA		V	0.00	00.00	40.45		450.0	
		Y Z	0.90 0.77	68.29 68.38	16.15 15.37		150.0 150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.32	75.39	17.14	3.29	80.0	± 9.6 %
		Υ	100.00	131.59	34.49		80.0	
		Ζ	100.00	129.59	32.92		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	0.76	60.00	7.09	3.23	80.0	± 9.6 %
		Y	4.63	77.57	16.00		80.0	
10100	1 TE TEE (00 FEMA (FE (1 M))	Z	0.74	60.00	7.79		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	0.79	60.00	6.50	3.23	80.0	± 9.6 %
		Y	1.49	65.34	10.90		80.0	
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	0.76 1.48	60.00 69.57	7.16 14.21	3.23	80.0 80.0	± 9.6 %
7777	Q1 OK, 02 0001101110-2,0,4,1,0,0)	Υ	100.00	128.72	32.98		80.0	
		Z	100.00	125.35	30.81		80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	0.76	60.00	7.02	3.23	80.0	± 9.6 %
		Υ	2.92	72.75	14.31		80.0	
		Z	0.74	60.00	7.72		80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	0.79	60.00	6.46	3.23	80.0	±9.6 %
		Υ	1.30	63.97	10.25		80.0	
40407	LITE TOD (OO FOLM) L DO TANK	Z	0.76	60.00	7.11		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	1.57	70.35	14.56	3.23	80.0	± 9.6 %
		Y	100.00	129.06	33.13		80.0	
40400	LITE TOD (OO FDAAL 4 DD 5 MIL- 40	Z	100.00	125.82	31.02	0.00	80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	0.76	60.00	7.04	3,23	80.0	± 9.6 %
		Y	3.25	73.90	14.73		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.74 0.79	60.00 60.00	7.74 6.46	3.23	80.0 80.0	± 9.6 %
<u> </u>		Υ	1,30	64.00	10.26		80.0	
		Z	0.76	60.00	7.11		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	1.56	70.33	14.55	3.23	80.0	± 9.6 %
		Υ	100.00	129.11	33.14		80.0	
		Z	100.00	125.84	31.01		80.0	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	0.76	60.00	7.03	3.23	80.0	± 9.6 %
		Y	3.21	73.75	14.66		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Z X	0.74 0.79	60.00 60.00	7.73 6.44	3.23	80.0 80.0	± 9.6 %
	G, 111, OL CUDITATIO—2,0,7,7,0,0)	Y	1.29	63.92	10.21		80.0	
		Z	0.76	60.00	7.09		80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.56	70.28	14.52	3.23	80.0	± 9.6 %
		Υ	100.00	129.06	33.12		80.0	
		Z	100.00	125.78	30.99		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	0.76	60.00	7.02	3.23	80.0	± 9.6 %
		Υ	3.17	73.64	14.62		80.0	
		Z	0.74	60.00	7.73		0.08	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	0.78	60.00	6.45	3.23	80.0	± 9.6 %
		Y	1.29	63.89	10.20	ļ	80.0	
		Z	0.76	60.00	7.09		80.0	

10477-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-	Х	0.76	60.00	7.00	3.23	80.0	± 9.6 %
AAC	QAM, UL Subframe=2,3,4,7,8,9)	Υ	2.04	70 70	44.07		00.0	
		Z	2.91 0.74	72.72 60.00	14.27		80.0	
10478-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-	X	0.74	60.00	7.70 6.43	3.23	80.0 80.0	± 9.6 %
AAC	QAM, UL Subframe=2,3,4,7,8,9)					3.23		I 9.0 %
		Y	1.28	63.82	10.16	<u> </u>	80.0	
10479-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z	0.76	60.00	7.08	2 00	80.0	
AAA	QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.36	78.87	19,25	3,23	80.0	±9.6%
		Y	6.72	85.93	23.37		80.0	
10480-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z X	31.53 2.01	108.71 65.44	28.80 11.92	3.23	80.0 80.0	± 9.6 %
AAA	16-QAM, UL Subframe=2,3,4,7,8,9)	Υ	7.23	81.86	20.03		80.0	
		Z	6.32	79.43	17.87		80.0	
10481-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	X	1.64	62.93	10.36	3.23	80.0	± 9.6 %
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)	Y	5.72	78.02		0.20		± 9.0 /6
		Z			18.32 14.62		80.0	
10482-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	X	3.41 1.29	71.49 62.41	14.62	2.23	80.0 80.0	± 9.6 %
AAA	QPSK, UL Subframe=2,3,4,7,8,9)					2.23		I 9.0 %
		Y	3.64	76.21	18.93	ļ	80.0	
10483-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	Z X	1.66	65.83	12.91	2.23	80.0	1069
AAA	16-QAM, UL Subframe=2,3,4,7,8,9)		1.52	61.14	9.55	2.23	80.0	± 9.6 %
		Υ	4.09	73.43	17.03		80.0	
10484-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	Z	2.32	66.35	12.70	0.00	80.0	1000
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)		1.52	60.89	9.42	2.23	80.0	± 9.6 %
		Υ	3.80	72.18	16.53		80.0	
4040E	LTE TOD (CC EDNA CO) OD EANL	Z	2.19	65.41	12.27	0.00	80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	1.96	67.14	14.58	2.23	80.0	±9.6%
		Υ	3.64	76.20	19.95		80.0	
40400	LITE TOD (OO FOLIA CON DD CAN)	Z	2.47	70.93	16.63		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.93	63.65	12.21	2.23	80.0	± 9.6 %
		Υ	3.34	71.00	17.20		80.0	
40.407		Z	2.25	65.99	13.71		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.95	63.41	12.07	2.23	80.0	± 9.6 %
		Υ	3.31	70.45	16.94		80.0	
		Z	2.25	65.61	13.50		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	2.57	68.84	16.72	2.23	80.0	± 9.6 %
		Υ	3.64	73.87	19.67		80.0	
		Z	2.88	71.05	17.92		80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.71	66.42	15.54	2.23	80,0	± 9.6 %
		Υ	3.41	69.51	17.78		80.0	
		Z	2.89	67.77	16.40		80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.80	66.35	15.53	2.23	80.0	± 9.6 %
		Υ	3.50	69.28	17.68		80.0	
		Z	2.97	67.63	16.34		80.0	
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	2.93	68.13	16.75	2.23	80.0	± 9.6 %
		Υ	3.79	71.78	18.88		80.0	
		Z	3.14	69.61	17.57		80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.14	66.26	16.05	2.23	80.0	± 9.6 %
		Υ	3.72	68.46	17.58		80.0	
		Z	3,26	67.14	16.60		80.0	

10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.20	66.19	16.02	2.23	80.0	± 9.6 %
		Y	3.78	68.30	17.52		80.0	
		Z	3,32	67.03	16.55		80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.09	69.16	17.09	2.23	80.0	± 9.6 %
		Υ	4.18	73.66	19.49		80.0	
		Z	3.38	70.96	18.01		80.0	
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.16	66.52	16.26	2,23	80.0	± 9.6 %
		Y	3.75	68.86	17.79		80.0	
		Z	3.28	67.44	16.81		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.25	66.39	16.25	2.23	80.0	± 9.6 %
		Y	3.82	68.54	17.67		80.0	
		Z	3.36	67.23	16.76		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	0.98	60.00	8.08	2.23	80.0	± 9.6 %
		Y	2.67	71.65	16.05		80.0	
40463	LITE TOP (OR EDITE : COST TO COST	Z	0.96	60.00	8.56		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.18	60.00	7.01	2.23	80.0	± 9.6 %
		Y	1.73	63.28	11.10		80.0	
		Z	1.15	60.00	7.42		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	1.20	60.00	6.87	2.23	80.0	±9.6 %
		Υ	1.65	62.50	10.55		80.0	
		Z	1.17	60.00	7.27		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	2.22	67.95	15.51	2.23	80.0	± 9.6 %
		Y	3.54	74.72	19.65		80.0	
		Z	2.63	70.95	17.16		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.29	65.10	13.66	2.23	80.0	± 9.6 %
		Υ	3.38	70.39	17.41		80.0	
		Z	2.58	67.13	14.94		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.32	64.94	13.52	2.23	80.0	± 9.6 %
		Υ	3,43	70.21	17.27		80.0	
		Z	2.61	66.92	14.77		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.54	68.66	16.62	2,23	80.0	± 9.6 %
		Y	3.60	73.66	19.57	ļ	80.0	
40501	1 == === (0.0 === 1.0 ==	Z	2.84	70.82	17.80		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.69	66.32	15.48	2.23	80.0	± 9.6 %
		Y	3.40	69.42	17.73		80.0	
40505	LITE TOD (OO EDIAN ASSOCIATION	Z	2.87	67.65	16.32		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.78	66.26	15.46	2.23	80.0	± 9.6 %
		Y	3.48	69.19	17.63		80.0	
10500	LITE TOD (OO FDMA 1000) DW 15	Z	2.96	67.52	16.27		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.07	69.03	17.01	2.23	80.0	± 9.6 %
		Y	4.15	73.51	19.42		80.0	
10507	LITE TOP (OR EDITE	Z	3.35	70.80	17.93		80.0	
10507- AAC		X	3.15	66.46	16.22	2.23	0.08	± 9.6 %
	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	$ \hat{\ } $	0.10					
		Y	3.73	68.80	17.76		80.0	

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.24	66.32	16.20	2.23	80.0	± 9.6 %
		Υ	3.81	68.47	17.63		80.0	
40505		Z	3.35	67.15	16.71		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.51	68.36	16.83	2.23	80.0	±9.6%
		Y	4.41	71.84	18.68		0,08	
40540	LTE TOP (00 EDIA)	Z	3.72	69.67	17.51		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.65	66.40	16.44	2.23	80.0	± 9.6 %
		Υ	4.20	68.42	17.64		80.0	
10511-	LTC TDD (CO CDMA 4000) DD 45	Z	3.74	67.11	16.83		80.0	
AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.72	66.27	16.42	2.23	80.0	± 9.6 %
		Υ	4.25	68.13	17.55		80.0	
10.00.10		Z	3.81	66.92	16.79		80.0	
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.53	69.27	17.06	2.23	80.0	± 9.6 %
		Y	4.71	73.81	19.35		80.0	
10513-	LTE-TDD (SC-FDMA, 100% RB, 20	Z	3.83	70.97	17.89	0.00	80.0	1000
AAC	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)		3.53	66.49	16.47	2.23	80.0	± 9.6 %
		Y	4.09	68.73	17.78		80.0	
40544	LTE TOP (OO EDIM (OO) DE OO	Z	3.62	67.27	16.91		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.58	66.23	16.41	2.23	80.0	± 9.6 %
		Y	4.11	68.25	17.62		80.0	
		Z	3.67	66.92	16.81		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.86	62.95	14.53	0.00	150.0	± 9.6 %
		Y	0.96	63.14	14.68		150.0	
10516-	IEEE 900 445 WIELQ 4 OLI- (DOOD, E.E.	Z	0.84	62,85	14.32		150.0	
AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.68	75.09	17.93	0.00	150.0	± 9.6 %
		Z	0.60 0.59	73.58	17.39 17.02		150.0	
10517- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.71	65.13	15.13	0.00	150.0 150.0	± 9.6 %
7001	Mispo, cope daty cycle)	Y	0.81	65.08	15.31		150.0	
		ż	0.69	64.87	14.81		150.0	
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.31	66.61	16.23	0.00	150.0	± 9.6 %
		Υ	4.51	66.70	16.19		150.0	
		Z	4.30	66.61	16.12		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	Х	4.46	66.79	16.33	0.00	150.0	± 9.6 %
		Y	4.69	66.93	16.31		150.0	
40000	LIEFE 000 44-# MEELE OV. 105011	Z	4.45	66.80	16.22		150.0	
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.32	66.72	16.24	0.00	150.0	± 9.6 %
		Z	4.55 4.31	66.89 66.74	16.23 16.13	-	150.0 150.0	
10521- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.25	66.68	16.22	0.00	150.0	± 9.6 %
		Υ	4.48	66.88	16.21		150.0	
		Z	4.24	66.71	16.11		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	Х	4.30	66.84	16.33	0.00	150.0	± 9.6 %
		Υ	4.54	66.98	16.30		150.0	
		Z	4.30	66.85	16.22		150.0	

				r			T	
10523-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	X	4.22	66.79	16.22	0.00	150.0	± 9.6 %
AAB	Mbps, 99pc duty cycle)	1	4.40	00.05	40.45	***********	450.0	
		Y	4.42	66.85	16.15		150.0	
10524-	IEEE 000 44-/5 MBELE OUT (OEDM E4	Z	4.21	66.79	16.10		150.0	1060/
AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)		4.25	66.78	16.31	0.00	150.0	± 9.6 %
		Υ	4.48	66.90	16.27		150.0	
		Z	4.24	66.79	16.19		150.0	
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.28	65.85	15.93	0.00	150.0	± 9.6 %
		Y	4.47	65.95	15.86		150.0	
		Z	4.27	65.86	15.81		150.0	
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	Х	4.41	66.15	16.05	0.00	150.0	± 9.6 %
		Υ	4.64	66.31	16.00		150.0	
		Ζ	4.40	66.17	15.93		150.0	
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.34	66.11	15.98	0.00	150.0	± 9.6 %
		Y	4.56	66.27	15.95		150.0	
		Z	4.33	66.13	15.87		150.0	
10528- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	Х	4.35	66.13	16.02	0.00	150.0	± 9.6 %
		Υ	4.58	66.29	15.98		150.0	
		Z	4.34	66.15	15.90		150.0	
10529- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	Х	4.35	66.13	16.02	0.00	150.0	± 9.6 %
***		Y	4.58	66.29	15.98		150.0	
		Z	4.34	66.15	15.90		150.0	
10531- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	Х	4.32	66.16	16.00	0.00	150.0	± 9.6 %
		Y	4.57	66.39	15.99		150.0	
		Z	4.31	66.19	15.89		150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	Х	4.20	66.01	15.92	0.00	150.0	±9.6 %
		Y	4.43	66.24	15.92		150.0	
		Z	4.19	66.04	15.81		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	Х	4.36	66.21	16,02	0.00	150.0	± 9.6 %
		Υ	4.59	66.34	15.97	1	150.0	
		Z	4.35	66.22	15.90		150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	Х	4.94	66.18	16.13	0.00	150.0	± 9.6 %
		Y	5.11	66.38	16.03		150.0	
		Z	4.91	66.20	15.99		150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	Х	4.99	66,35	16.21	0.00	150.0	±9.6%
		Υ	5,18	66.56	16.12	†	150.0	<u> </u>
		Z	4.97	66.36	16.07		150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	4.87	66.32	16.17	0.00	150.0	± 9.6 %
		Υ	5.05	66.51	16.07		150.0	
		Z	4.85	66.34	16.04		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	4.94	66.34	16.18	0.00	150.0	± 9.6 %
		Υ	5.10	66.48	16.06		150,0	
		Z	4.91	66.31	16.03		150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	Х	5.01	66.30	16.21	0.00	150.0	± 9.6 %
		Υ	5.19	66.49	16.11		150.0	
		Z	4.98	66.30	16.06		150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	4.93	66.22	16.18	0.00	150.0	± 9.6 %
		Y	5.13	66.52	16.13		150.0	
		Z	4.91	66.26	16.06		150.0	

10541- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	Х	4.90	66.09	16.10	0.00	150.0	± 9.6 %
		Y	5.10	66.38	16.06		150.0	
		Z	4.88	66.13	15.98		150.0	
10542- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	Х	5.07	66.24	16.19	0.00	150.0	± 9.6 %
·		Y	5.25	66.45	16.11		150.0	
		Z	5.04	66.26	16.06		150.0	
10543- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	Х	5.16	66.37	16.29	0.00	150.0	± 9.6 %
		Y	5.33	66.48	16.14		150.0	
		Z	5.12	66.32	16.12		150.0	
10544- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.28	66.21	16.10	0.00	150.0	± 9.6 %
		Y	5.42	66.50	16.03		150.0	
		Z	5.25	66.26	15.98		150.0	
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	Х	5.51	66.84	16.38	0.00	150.0	± 9.6 %
		Υ	5.61	66.90	16.18		150.0	
		Z	5.45	66.77	16.19		150.0	, , , , , , , , , , , , , , , , , , ,
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	Х	5.32	66.36	16.14	0.00	150.0	± 9.6 %
		Υ	5.48	66.70	16.10		150.0	
		Z	5.29	66.40	16.02		150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.43	66.58	16.25	0.00	150.0	± 9.6 %
		Υ	5.55	66.74	16.11		150.0	
		Z	5.37	66.52	16.07		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	Х	5.67	67.49	16.67	0.00	150.0	± 9.6 %
		Υ	5.79	67.62	16.52		150.0	
		Z	5.59	67.37	16.46		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	Х	5.44	66.73	16.35	0.00	150.0	± 9.6 %
		Y	5.51	66.72	16.12		150.0	
		Z	5.36	66.62	16.14		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	Х	5.31	66.31	16.10	0.00	150.0	± 9.6 %
		Y	5.52	66.76	16.10		150.0	
		Z	5.30	66.41	15.99		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	Х	5.28	66.30	16.09	0.00	150.0	± 9.6 %
		Υ	5.44	66.57	16.01		150.0	
		Z	5.25	66.34	15.96		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	Х	5.34	66.26	16.10	0.00	150.0	± 9.6 %
		Y	5.52	66.60	16.06		150.0	
		Z	5.31	66.32	15.98		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.72	66.58	16.20	0,00	150.0	± 9.6 %
		Υ	5.83	66.86	16.12		150.0	
		Z	5.67	66.61	16.06		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	Х	5.84	66.90	16.34	0.00	150.0	± 9.6 %
		Υ	5.95	67.15	16.24		150.0	
		Z	5.79	66.90	16.19		150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	Х	5.87	66.98	16.38	0.00	150,0	± 9.6 %
		Y	5.98	67.20	16.26		150.0	
		Z	5.82	66.99	16.23		150.0	
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	Х	5.81	66.79	16.30	0.00	150.0	± 9.6 %
		Υ	5.94	67.10	16.23		150.0	
		Z	5.77	66.83	16.17		150.0	

10558-	IEEE 802.11ac WiFi (160MHz, MCS4,	Х	5.82	66.86	16.35	0.00	150.0	± 9.6 %
AAC	99pc duty cycle)	1	5.00		40.00		(50.0	
		Y	5.99	67.26	16.33		150.0	
10560-	IEEE 802.11ac WiFi (160MHz, MCS6,	Z	5.79	66.94	16.24	0.00	150.0	1000
AAC	99pc duty cycle)	X	5.84	66.78	16.35	0.00	150.0	± 9.6 %
		Y	5.98	67.11	16.29		150.0	
		Z	5.80	66.82	16.22		150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.78	66.81	16.39	0.00	150.0	± 9.6 %
		Υ	5.91	67.08	16.31		150.0	
1		Z	5.74	66.84	16.26		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	Х	5.83	66.94	16.46	0.00	150.0	± 9.6 %
		Υ	6.02	67.44	16.49		150.0	
		Z	5.80	67.03	16.35		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	5.98	67.08	16.50	0.00	150.0	± 9.6 %
		Υ	6.21	67.62	16.54		150.0	
		Z	5.91	67.01	16.31		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	4.63	66.62	16.36	0.46	150.0	± 9.6 %
		Υ	4.84	66.79	16.36		150.0	
		Z	4.61	66.63	16.24		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	4.83	67.05	16.69	0.46	150.0	± 9.6 %
		Y	5.06	67.22	16.67		150.0	
		Z	4.82	67.07	16.58		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Х	4.66	66.85	16.48	0.46	150.0	± 9.6 %
		Y	4.90	67.07	16.49		150.0	
		Z	4.65	66.88	16.38		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	Х	4.70	67.27	16.87	0.46	150.0	± 9.6 %
		Y	4.93	67.45	16.84		150.0	
***************************************	****	Z	4.69	67.33	16.78		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	4.56	66.58	16.20	0.46	150.0	± 9.6 %
		Y	4.81	66.86	16.28		150.0	
		Z	4.55	66.62	16.10		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	Х	4.68	67.48	17.00	0.46	150.0	± 9.6 %
		Y	4.88	67.55	16.91		150.0	
		Z	4.67	67.53	16.91		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	Х	4.69	67.30	16.91	0.46	150.0	± 9.6 %
		Y	4.92	67.39	16.83		150.0	
		Z	4.68	67.31	16.79		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	1.00	63.45	14.91	0.46	130.0	± 9.6 %
		Y	1.13	64.20	15.58		130.0	
		Z	0.98	63.57	14.96	,,,,,	130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	Х	1.01	64.01	15.28	0.46	130.0	± 9.6 %
		Υ	1.14	64.75	15.94		130.0	
		Z	0.99	64.16	15.34		130.0	<u> </u>
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	Х	1.87	85.75	21.98	0.46	130.0	± 9.6 %
		Υ	1.92	86.55	24.04		130.0	
		Z	2.25	89.51	23.31		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.08	70.06	18.36	0.46	130.0	± 9.6 %
		Υ	1.22	70.33	18.86		130.0	
		ż	1.09	70.58	18.62		130.0	
	1	1 4	1.08	1 10.00	10.02	L	130.0	

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	ТХ	4.39	66.32	16.32	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)					0.10		2 0.0 70
		Y	4.62	66.58	16.43		130.0	
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.39	66.40	16.27		130.0	
AAA	OFDM, 9 Mbps, 90pc duty cycle)	X	4.42	66.53	16.41	0.46	130.0	± 9.6 %
		Y	4.65	66.74	16.49		130.0	
10577-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	Z	4.42	66.60	16.36		130.0	
AAA	OFDM, 12 Mbps, 90pc duty cycle)	X	4.59	66.78	16.57	0.46	130.0	± 9.6 %
		Y	4.85	67.03	16.66		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.59 4.49	66.86 66.94	16.52 16.68	0.46	130.0	± 9.6 %
		Y	4,74	67.18	16.75		130.0	
		Z	4.50	67.02	16.64		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	Х	4.24	66.07	15.88	0.46	130.0	± 9.6 %
		Y	4.51	66.48	16.08		130.0	
10555		Z	4.24	66.15	15.83		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	×	4.28	66.14	15.91	0.46	130.0	± 9.6 %
		Y	4.56	66.53	16.11		130.0	
40504	IFFE 000 44 - M/F: 0.4 OLL /D.000	Z	4.29	66.22	15.86		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.40	66.99	16.63	0.46	130.0	± 9.6 %
		Y	4.64	67.22	16.70		130.0	
10582-	JEEE 902 44# WIF: 2.4 CH= /DCCC	Z	4.40	67.08	16.59	0.40	130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.17	65.84	15.66	0.46	130.0	± 9.6 %
		Y	4.45	66,25	15.88		130.0	
10583-	IEEE 900 44 o/b WIELE OLI- (OFDM O	Z	4.18	65.90	15.60	2.42	130.0	
AAB	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.39	66.32	16.32	0.46	130.0	± 9.6 %
		Y Z	4.62	66.58	16.43		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.39 4.42	66.40 66.53	16.27 16.41	0.46	130.0 130.0	± 9.6 %
		Y	4.65	66.74	16.49		130.0	
		Z	4.42	66.60	16.36		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	Х	4.59	66.78	16.57	0.46	130.0	± 9.6 %
		Υ	4.85	67.03	16.66		130.0	
		Z	4.59	66.86	16.52		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.49	66.94	16,68	0.46	130.0	± 9.6 %
		Y	4.74	67.18	16.75		130.0	
4050=	LEGIT 200 44 d Marie	Z	4.50	67.02	16.64		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	Х	4.24	66.07	15.88	0.46	130.0	± 9.6 %
,		Y	4.51	66.48	16.08		130.0	
40E00	IEEE 000 440% MEET COLL (OFFILE CO.	Z	4.24	66.15	15.83	n 1-	130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.28	66.14	15.91	0.46	130.0	± 9.6 %
		Y	4.56	66.53	16.11		130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	Z	4.29 4.40	66.22 66.99	15.86 16.63	0.46	130.0 130.0	± 9.6 %
<u> </u>		Y	4.64	67.22	16.70		130.0	
		Ż	4.40	67.08	16.59	-	130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.17	65.84	15.66	0.46	130.0	± 9.6 %
		Y	4.45	66.25	15.88		130.0	
	- L	; ;	7. TO	00.20	, ,,,,,,,,		1 100.0	i

EX3DV4- SN:7357 April 18, 2018

10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.55	66.42	16.46	0.46	130.0	± 9.6 %
		Y	4.78	66.64	16.53		130.0	
	***************************************	Z	4.55	66.49	16.40		130.0	***************************************
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.67	66.72	16.59	0.46	130.0	± 9.6 %
		Y	4.93	66.98	16.66		130.0	
		Z	4.68	66.80	16.53		130.0	
10593-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.59	66.59	16.43	0.46	130.0	±9.6 %
AAB	MCS2, 90pc duty cycle)	$\frac{1}{Y}$		66.88	16.54	0.40	130.0	20.070
			4.85					
10504	IEEE 900 44p (HTM) and 20MHz	Z	4.59	66.67	16.38	0.40	130.0	1069/
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)		4.64	66.77	16.61	0.46	130.0	± 9.6 %
		Y	4.90	67.05	16.69		130.0	
		Z	4.65	66.86	16.56		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.61	66.75	16.51	0.46	130.0	± 9.6 %
		Y	4.87	67.00	16.59		130.0	
		Z	4.61	66.82	16.45		130.0	
10596- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.54	66.71	16,50	0.46	130.0	± 9.6 %
		Y	4.80	67.00	16.60		130.0	
		Ż	4.54	66.79	16.44		130.0	
10597-	IEEE 802.11n (HT Mixed, 20MHz,	<u> </u>	4.49	66.57	16.34	0.46	130.0	± 9.6 %
AAB	MCS6, 90pc duty cycle)	Y				0.40		20.070
			4.75	66.90	16.48		130.0	
40500	IFFF 000 44 (UT N) 1 005UU	Z	4.49	66.65	16.29	0.10	130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	Х	4.48	66.81	16.63	0.46	130.0	± 9.6 %
		Υ	4.73	67.12	16.73		130.0	
		Z	4.49	66.91	16.58		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	Х	5.31	67.13	16.85	0.46	130.0	± 9.6 %
		Y	5.45	67.20	16.74		130.0	
		Z	5.25	67.05	16.69		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.48	67.76	17.14	0.46	130.0	± 9.6 %
		Y	5.57	67.58	16.91		130.0	
		Z	5.39	67.54	16.90		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.31	67.28	16.91	0.46	130.0	± 9.6 %
, , , , ,	inocz, oopo daty dydio/	Y	5.47	67.34	16.80		130.0	<u></u>
		Ż	5.27	67.22	16.76		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.43	67.41	16.89	0,46	130.0	± 9.6 %
770	WOSS, Sope duty cycle)	Y	5.56	67.20	16.75		120.0	
		Z	5.40	67.39 67.36	16.75 16.75	 	130.0 130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.54	67.82	17.25	0.46	130.0	± 9.6 %
7/10	iwoo4, aopo daty cycle)	$\dashv \forall \dashv$	E 64	67.07	17.00		1000	
			5.64	67.67	17.02		130.0	!
10604-	IEEE 000 44m /UT MANAGE ADMAN	Z	5.49	67.76	17.09		130.0	1000
AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.42	67.47	17.05	0.46	130.0	± 9.6 %
		Y	5.46	67.19	16.76		130.0	
		Z	5.37	67.38	16.88		130.0	
10605-	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.43	67.47	17.04	0.46	130.0	± 9.6 %
AAB	incee, cope duty cycle)			67.49	16.91		130.0	
	week, cope daty dydie)	Υ	5.56	07.49	10.01			1
		Y Z	5.56	67.38			130.0	
10606-	IEEE 802.11n (HT Mixed, 40MHz,				16.87 16.54	0.46		± 9.6 %
AAB		Z	5.37	67.38	16.87	0.46	130.0	± 9.6 %

10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0,	Х	4.40	65.75	16.09	0.46	130.0	± 9.6 %
AAD	90pc duty cycle)	Y	4,62	65.97	16.16		120.0	
		Z	4.40	65.83	16.16		130.0 130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.54	66.09	16.24	0.46	130.0	± 9.6 %
	oopo vary oyaro,	TY	4.80	66.37	16.32		130.0	
		Ż	4.55	66.18	16.20		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.43	65.91	16.05	0.46	130.0	± 9.6 %
		Y	4.69	66.22	16.16		130.0	
		Z	4.44	66.00	16.00		130.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	Х	4.49	66.09	16.23	0.46	130.0	± 9.6 %
		Υ	4.74	66.38	16.32		130.0	
40044	IFFE 000 44 MEL (00MH 1400)	Z	4.49	66.18	16.19		130.0	
10611- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	Х	4.40	65.88	16.06	0.46	130.0	± 9.6 %
		Y	4.66	66.19	16.17		130.0	
10612-	IEEE 802 11ac WiE: (20MU-, MCCC	Z	4.40	65.97	16.02	0.40	130.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.39	66.01	16.10	0.46	130.0	± 9.6 %
		Y	4.66	66.35	16.22		130.0	
10613-	IEEE 802.11ac WiFi (20MHz, MCS6,	Z	4.40 4.38	66.10	16.06	0.40	130.0	
AAB	90pc duty cycle)			65.82	15.94	0.46	130.0	± 9.6 %
		Y Z	4.67	66.22	16.10		130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.39 4.35	65.92 66.06	15.90 16.21	0.46	130.0 130.0	± 9.6 %
		Y	4.61	66.40	16.32		130.0	
		Z	4.36	66.17	16.17		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.39	65.69	15.81	0.46	130.0	± 9.6 %
		Y	4.66	66.03	15.96		130.0	
		Z	4.39	65.77	15.76	***************************************	130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.07	66.15	16.34	0.46	130.0	± 9.6 %
		Y	5.27	66.44	16.35		130.0	
		Z	5.05	66.21	16.25		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.14	66.37	16.43	0.46	130.0	±9.6 %
		Y	5.34	66.62	16.41		130.0	
400.0		Z	5.12	66.42	16.33		130.0	***************************************
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.03	66.38	16.45	0.46	130.0	± 9.6 %
		Y	5.22	66.62	16.43		130.0	
40040	IFFE 000 44 - MIEL (1014)	Z	5.02	66.45	16.36		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.07	66.24	16,31	0.46	130.0	± 9.6 %
		Y	5.24	66.43	16.27		130.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
10620		Z	5.03	66.23	16.18		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.13	66.23	16.35	0.46	130.0	±9.6 %
		Y	5.33	66.47	16.34		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	Z X	5.11 5.12	66.25 66.28	16.24 16.51	0.46	130.0 130.0	± 9.6 %
·	- copo daty ofoto)	Y	5.33	66.60	16.51		130.0	
		T ż	5.11	66.38	16.44		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.11	66.38	16.55	0.46	130.0	± 9.6 %
		Y	5.34	66.76	16.59		130.0	
		Ż	5.11	66.50	16.49		130.0	

EX3DV4- SN:7357 April 18, 2018

10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	4.99	65.86	16.14	0.46	130.0	± 9.6 %
	opposition of the state of the	Y	5.22	66.30	16.24		130.0	
		l ż	4.98	65.96	16.08		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.20	66.20	16.38	0.46	130.0	± 9.6 %
		Y	5.41	66.49	16.39		130.0	
		Z	5.19	66.26	16.30		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	Х	5.30	66.37	16.54	0.46	130.0	± 9.6 %
		Υ	5.75	67.41	16.90		130.0	
		Z	5.33	66.58	16.52		130.0	
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	Х	5.40	66.14	16.28	0.46	130.0	± 9.6 %
		Y	5.57	66.51	16.31		130.0	
		Z	5.38	66.23	16.21		130.0	
10627- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.71	67.03	16.70	0.46	130.0	± 9.6 %
		Y	5.80	67.06	16.54		130.0	
		Z	5.65	66.96	16.54		130.0	
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	Х	5.40	66.15	16.18	0.46	130.0	± 9.6 %
		Υ	5.60	66,59	16.25		130.0	
		Z	5.38	66.23	16.10		130.0	
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	Х	5.55	66.49	16.35	0.46	130.0	± 9.6 %
		Υ	5.67	66.64	16.26		130.0	
		Z	5.49	66.42	16.19		130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	Х	5.95	67.89	17.05	0.46	130.0	± 9.6 %
		Υ	6.08	68.07	16.98		130.0	
		Z	5.84	67.71	16.83		130.0	
10631- AAB	IEEE 802.11ac WIFi (80MHz, MCS5, 90pc duty cycle)	X	5.77	67.48	17.05	0.46	130.0	± 9.6 %
		Y	5.99	67.89	17.07		130.0	
		Z	5.74	67.53	16.95		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.72	67.25	16.96	0.46	130.0	± 9,6 %
		Υ	5.77	67.11	16.70		130.0	
		Z	5.64	67.12	16.77		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	Х	5.44	66.28	16.29	0.46	130.0	± 9.6 %
		Y	5.66	66.76	16.36		130.0	
		Z	5.44	66.43	16.24		130.0	
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	Х	5.44	66.38	16.39	0.46	130.0	± 9.6 %
		Υ	5.64	66,78	16.43		130.0	
		Z	5.43	66.48	16.32		130.0	
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	Х	5.30	65.61	15.72	0.46	130.0	± 9.6 %
		Υ	5.53	66.14	15.85		130.0	
		Z	5.29	65.70	15.64		130.0	
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	Х	5.86	66.55	16.40	0.46	130.0	± 9.6 %
		Υ	5.98	66.87	16.39		130.0	
		Z	5.82	66.61	16.30		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	Х	6.02	66.98	16.61	0.46	130.0	±9.6 %
		Υ	6.13	67.25	16.56		130.0	
		Z	5.97	67.00	16.48		130.0	
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	Х	6.03	67.01	16.60	0.46	130.0	±9.6 %
		Υ	6.13	67.22	16.53		130.0	
		Z	5.97	67.00	16.46		130.0	1

10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	5.96	66.80	16.53	0.46	130.0	± 9.6 %
		Y	6.11	67.17	16.55		130.0	
		Z	5.93	66.87	16.44		130.0	
10640- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	Х	5.92	66.70	16.42	0.46	130.0	± 9.6 %
		Y	6.12	67,19	16.50		130.0	
40044		Z	5.91	66.82	16.35		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	Х	6.06	66.91	16,55	0.46	130.0	± 9.6 %
		Y	6.16	67.10	16.47		130.0	
10642-	IEEE 902 11co WiE: (100MH - M000	Z	6.01	66.89	16.41		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.04	66.98	16.76	0.46	130.0	± 9.6 %
		Y	6.20	67.33	16.75	<u> </u>	130.0	
10643-	IEEE 802.11ac WiFi (160MHz, MCS7,	Z	6.02	67.07	16.68		130.0	
AAC	90pc duty cycle)	X	5.90	66.69	16.50	0.46	130.0	± 9.6 %
		Y	6.04	67.03	16.51		130.0	
10644-	IEEE 802.11ac WiFi (160MHz, MCS8,	Z	5.87	66.78	16.42	0.10	130.0	
AAC	90pc duty cycle)	X	5.95	66.86	16.60	0.46	130.0	± 9.6 %
			6.19	67.50	16.76		130.0	
10645-	IEEE 802.11ac WiFi (160MHz, MCS9,	Z X	5.94	66.99	16.54	0.40	130.0	
AAC	90pc duty cycle)		6.44	67.99	17.14	0.46	130.0	± 9.6 %
		Y	6.47	67.94	16.94		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Z X	6.16 7.50	67.33 90.48	16.68 30.44	9.30	130.0 60.0	± 9.6 %
	di Siq on Sabitamo 2,1)	Y	17.43	112.38	39.34		60.0	
		Z	9.26	96.56	33.29		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	6.74	88.72	29.93	9.30	60.0 60.0	± 9.6 %
		Y	14.54	108.61	38.31		60.0	
		Z	8.10	94.14	32.60		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.39	60.00	6.32	0.00	150.0	±9.6 %
		Υ	0.67	63.31	10.55		150.0	
		Z	0.38	60.00	6.43		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	Х	3.10	65.49	15.51	2.23	80.0	± 9.6 %
		Υ	3.52	66.85	16.73		80.0	
10050		Z	3.18	66,07	15.91		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.70	65.11	16.04	2.23	80.0	±9.6 %
		Y	4.03	66.07	16.78		80.0	
40054	LTE TOO (OFDIA) AS NOT THE	Z	3.73	65.44	16.24		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	Х	3.73	64.77	16.12	2.23	80.0	±9.6%
		Y	4.00	65.69	16.76		80.0	
10655-	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1,	Z	3.74	65.07	16.28	· · ·	80.0	
AAB	Clipping 44%)	X	3.81	64.71	16.17	2.23	80.0	± 9.6 %
		Y	4.06	65.68	16.79		80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	Z X	3.81 3.06	65.01 66.59	16.32 11.16	10.00	80.0 50.0	± 9.6 %
1		Y	100.00	111.68	26.09		E0.0	
		Z	3.93	69.81	12.66		50.0 50.0	
10659-	Pulse Waveform (200Hz, 20%)	X	1.63	63.81	8.65	6.99	60.0	± 9.6 %
AAA							'	
AAA		Y	100.00	113,13	25.67		60.0	

EX3DV4- SN:7357 April 18, 2018

10660- AAA	Pulse Waveform (200Hz, 40%)	X	0.57	60.00	5,26	3.98	80.0	± 9.6 %
		Y	100.00	118.24	26.52		80.0	
		Z	0.68	61.70	6.30		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	Х	0.32	60.00	3.83	2.22	100.0	± 9.6 %
		Y	100.00	125.46	28.15		100.0	
		Z	0.29	60.00	3.83		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	Х	7.43	367.15	53.93	0.97	120.0	± 9.6 %
		Y	100.00	135.73	30.13		120.0	
		Z	0.00	228.51	107.76		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.

APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ϵ can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\varepsilon_{r}\varepsilon_{0}}{\left[\ln(b/a)\right]^{2}} \int_{a}^{b} \int_{a}^{b} \int_{0}^{\pi} \cos\phi' \frac{\exp\left[-j\omega r(\mu_{0}\varepsilon_{r}\varepsilon_{0})^{1/2}\right]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

Table D-I
Composition of the Tissue Equivalent Matter

Frequency (MHz)	750	750	835	835	1750	1750	1900	1900	2450	2450	5200 - 5800	5200 - 5800
Tissue	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Ingredients (% by weight)												
Bactericide			0.1	0.1								
DGBE					47	31	44.92	29.44] [26.7		
HEC	See page	See page	1	1					Saa maga 4		See page	See page
NaCl	2-3	2	1.45	0.94	0.4	0.2	0.18	0.39	See page 4	0.1	5	6
Sucrose			57	44.9								
Water			40.45	53.06	52.6	68.8	54.9	70.17		73.2		

FCC ID ZNFV450PM	PCTEST	SAR EVALUATION REPORT	(LG	Approved by: Quality Manager
Test Dates:	DUT Type:			APPENDIX D:
11/28/18 - 01/31/19	Portable Handset			Page 1 of 6

The Item is composed of the following ingredients:

Water, 35 - 58% H₂O

Sucrose Sugar, white, refined, 40 - 60% NaCl Sodium Chloride, 0 - 6%

Hydroxyethyl-cellulose Medium Viscosity (CAS# 9004-62-0), <0.3%

Preventol-D7 Preservative: aqueous preparation, (CAS# 55965-84-9), containing

5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyyl-3(2H)-isothiazolone,

0.1 - 0.7%

Relevant for safety; Refer to the respective Safety Data Sheet*.

Figure D-1 Composition of 750 MHz Head and Body Tissue Equivalent Matter

Note: 750MHz liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

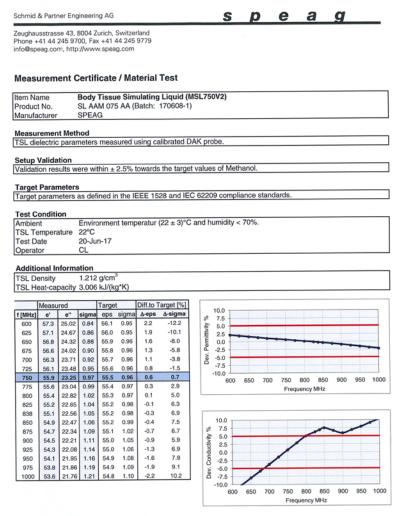


Figure D-2 750MHz Body Tissue Equivalent Matter

	FCC ID ZNFV450PM	PCTEST*	SAR EVALUATION REPORT	(LG	Approved by: Quality Manager
	Test Dates:	DUT Type:			APPENDIX D:
	11/28/18 - 01/31/19	Portable Handset			Page 2 of 6
201	9 PCTEST Engineering Laboratory	/, Inc.			REV 21.2 M



Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 info@speag.com, http://www.speag.com

Measurement Certificate / Material Test

Item Name Head Tissue Simulating Liquid (HSL750V2)

SL AAH 075 AA (Batch: 170612-4) Product No.

Manufacturer SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Setup Validation

Validation results were within $\pm 2.5\%$ towards the target values of Methanol.

Target Parameters

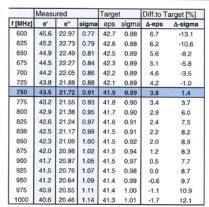
Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

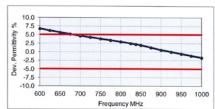
Test Condition

Ambient Environment Environmen Environment temperatur (22 ± 3)°C and humidity < 70%. Test Date 20-Jun-17 Operator CL

Additional Information

TSL Density 1.284 g/cm³ TSL Heat-capacity 2.701 kJ/(kg*K)





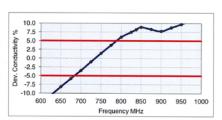


Figure D-3 750MHz Head Tissue Equivalent Matter

	FCC ID ZNFV450PM	PCTEST INSTITUTE LABORATORY, INC.	SAR EVALUATION REPORT	(LG	Approved by: Quality Manager
	Test Dates:	DUT Type:			APPENDIX D:
	11/28/18 - 01/31/19	Portable Handset			Page 3 of 6
201	19 PCTEST Engineering Laboratory	, Inc.			REV 21.2 M

The Item is composed of the following ingredients: Water 50-73% Non-ionic detergents 25-50% polyo polyoxyethylenesorbitan monolaurate

0-2% 0.05 - 0.1% Preventol-D7 Preservative

Safety relevant ingredients:

CAS-No. 55965-84-9 < 0.1 % aqueous preparation, containing 5-chloro-2-methyl-3(2H)-

isothiazolone and 2-methyyl-3(2H)-isothiazolone

CAS-No. 9005-64-5 <50 % polyoxyethylenesorbitan monolaurate
According to international guidelines, the product is not a dangerous mixture and therefore not required to be

marked by symbols.

Figure D-4 Composition of 2.4 GHz Head Tissue Equivalent Matter

Note: 2.4 GHz head liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

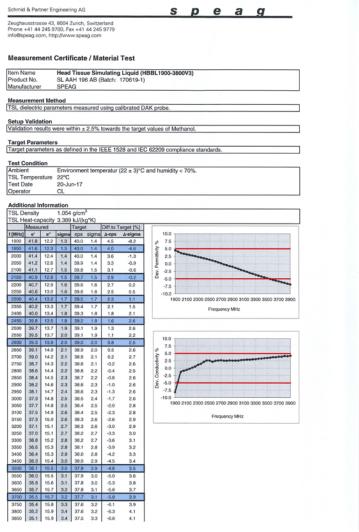


Figure D-5 2.4 GHz Head Tissue Equivalent Matter

	FCC ID ZNFV450PM	PCTEST*	SAR EVALUATION REPORT	(LG	Approved by: Quality Manager
	Test Dates:	DUT Type:			APPENDIX D:
	11/28/18 - 01/31/19	Portable Handset			Page 4 of 6
201	9 PCTEST Engineering Laboratory	, Inc.			REV 21.2 M

The Item is composed of the following ingredients:

 $\begin{array}{lll} \text{Water} & 50-65\% \\ \text{Mineral oil} & 10-30\% \\ \text{Emulsifiers} & 8-25\% \\ \text{Sodium salt} & 0-1.5\% \\ \end{array}$

Figure D-6

Composition of 5 GHz Head Tissue Equivalent Matter

Note: 5 GHz head liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

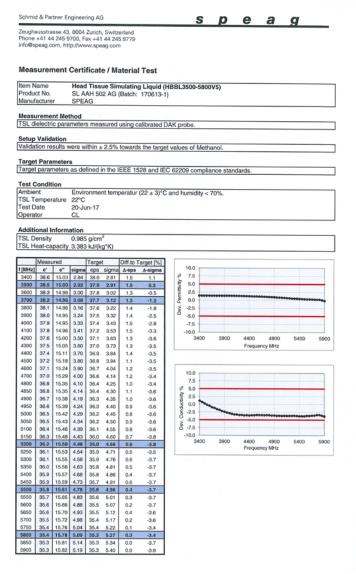


Figure D-7
5 GHz Head Tissue Equivalent Matter

FCC ID ZNFV450PM	PCTEST*	SAR EVALUATION REPORT	(LG	Approved by: Quality Manager
Test Dates:	DUT Type:			APPENDIX D:
11/28/18 - 01/31/19	Portable Handset			Page 5 of 6

The Item is composed of the following ingredients:

Figure D-8 Composition of 5 GHz Body Tissue Equivalent Matter

Note: 5 GHz Body liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

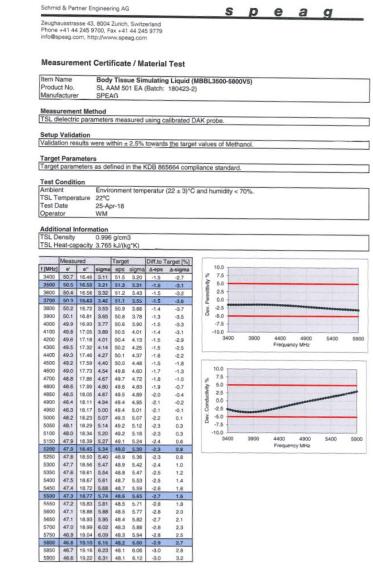


Figure D-9
5 GHz Body Tissue Equivalent Matter

FCC ID ZNFV450PM	PCTEST*	SAR EVALUATION REPORT	(LG	Approved by: Quality Manager
Test Dates:	DUT Type:			APPENDIX D:
11/28/18 - 01/31/19	Portable Handset			Page 6 of 6

APPENDIX E: SAR SYSTEM VALIDATION

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table E-1
SAR System Validation Summary – 1g

G 835 M 1750 I 1750	11/2/2018 8/9/2018 11/5/2018	Probe SN 3287		al Point	Cond.	Perm.	OFNOITI					
M 750 G 835 M 1750 I 1750	8/9/2018	3287				(cr)	SENSITI	PROBE	PROBE	MOD.	DUTY	D4D
G 835 M 1750 I 1750	8/9/2018		-		(σ)	(εr)	VITY	LINEARITY	ISOTROPY	TYPE	FACTOR	PAR
M 1750 I 1750			750	Head	0.908	42.19	PASS	PASS	PASS	N/A	N/A	N/A
I 1750	11/5/2018	7410	835	Head	0.889	40.915	PASS	PASS	PASS	GMSK	PASS	N/A
	11/0/2010	3287	1750	Head	1.342	39.217	PASS	PASS	PASS	WA	NΑ	N/A
H 1900	1/7/2019	7406	1750	Head	1.341	39.591	PASS	PASS	PASS	N/A	N/A	N/A
	7/16/2018	7409	1900	Head	1.425	40.935	PASS	PASS	PASS	GMSK	PASS	N/A
G 2450	8/7/2018	7410	2450	Head	1.865	39.618	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
l 2450	12/24/2018	7406	2450	Head	1.797	38.399	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
l 2600	12/24/2018	7406	2600	Head	1.961	37.812	PASS	PASS	PASS	TDD	PASS	N/A
H 5250	7/5/2018	7409	5250	Head	4.492	34.994	PASS	PASS	PASS	OFDM	N/A	PASS
H 5600	7/5/2018	7409	5600	Head	4.839	34.496	PASS	PASS	PASS	OFDM	N/A	PASS
H 5750	7/5/2018	7409	5750	Head	4.995	34.288	PASS	PASS	PASS	OFDM	N/A	PASS
D 750	8/15/2018	7357	750	Body	0.97	53.479	PASS	PASS	PASS	N/A	N/A	N/A
I 835	8/8/2018	7406	835	Body	0.98	53.497	PASS	PASS	PASS	GMSK	PASS	N/A
J 835	9/11/2018	3347	835	Body	0.984	54.197	PASS	PASS	PASS	GMSK	PASS	N/A
M 1750	11/1/2018	3287	1750	Body	1.506	51.717	PASS	PASS	PASS	N/A	N/A	N/A
J 1750	9/5/2018	3347	1750	Body	1.454	53.515	PASS	PASS	PASS	NΑ	N/A	N/A
E 1900	8/9/2018	3213	1900	Body	1.57	51.136	PASS	PASS	PASS	GMSK	PASS	N/A
H 1900	9/25/2018	7409	1900	Body	1.541	50.669	PASS	PASS	PASS	GMSK	PASS	N/A
E 1900	12/3/2018	3332	1900	Body	1.518	51.796	PASS	PASS	PASS	GMSK	PASS	N/A
G 1900	8/10/2018	7410	1900	Body	1.567	52.239	PASS	PASS	PASS	GMSK	PASS	N/A
K 2450	4/3/2018	3319	2450	Body	2.043	51.13	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
K 2600	4/3/2018	3319	2600	Body	2.225	50.665	PASS	PASS	PASS	TDD	PASS	N/A
L 5250	10/29/2018	7308	5250	Body	5.511	48.77	PASS	PASS	PASS	OFDM	N/A	PASS
L 5600	10/29/2018	7308	5600	Body	5.994	48.2	PASS	PASS	PASS	OFDM	N/A	PASS
L 5750	10/29/2018	7308	5750	Body	6.219	47.96	PASS	PASS	PASS	OFDM	N/A	PASS

FCC ID ZNFV450PM	PCTEST	SAR EVALUATION REPORT	(LG	Approved by: Quality Manager
Test Dates:	DUT Type:			APPENDIX E:
11/28/18 - 01/31/19	Portable Handset			Page 1 of 2

Table E-2
SAR System Validation Summary – 10g

					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			CW	VALIDATION	v	MOI	D. VALIDAT	TION
SAR System	Freq. (MHz)	Date	Probe SN	Probe C	Cal Point	Cond. (σ)	Perm. (εr)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY	PAR
J	1750	9/5/2018	3347	1750	Body	1.454	53.515	PASS	PASS	PASS	N/A	N/A	N/A
М	1750	11/1/2018	3287	1750	Body	1.506	51.717	PASS	PASS	PASS	N/A	N/A	N/A
Н	1900	9/25/2018	7409	1900	Body	1.541	50.669	PASS	PASS	PASS	GMSK	PASS	N/A
Е	1900	12/3/2018	3332	1900	Body	1.518	51.796	PASS	PASS	PASS	GMSK	PASS	N/A
D	5250	6/11/2018	7357	5250	Body	5.529	48.096	PASS	PASS	PASS	OFDM	N/A	PASS
D	5600	6/11/2018	7357	5600	Body	6.007	47.521	PASS	PASS	PASS	OFDM	N/A	PASS
D	5750	6/11/2018	7357	5750	Body	6.214	47.275	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

FCC ID ZNFV450PM	PCTEST:	SAR EVALUATION REPORT	LG	Approved by: Quality Manager
Test Dates:	DUT Type:			APPENDIX E:
11/28/18 - 01/31/19	Portable Handset			Page 2 of 2

APPENDIX G POWER REDUCTION VERIFICATION

Per the May 2017 TCBC Workshop Notes, demonstration of proper functioning of the power reduction mechanisms is required to support the corresponding SAR configurations. The verification process was divided into two parts: (1) evaluation of output power levels for individual or multiple triggering mechanisms and (2) evaluation of the triggering distances for proximity-based sensors.

G.1 Power Verification Procedure

The power verification was performed according to the following procedure:

- 1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. The power measurements were confirmed to be within expected tolerances for all states before and after a power reduction mechanism was triggered.
- 2. Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
- 3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

G.2 Distance Verification Procedure

The distance verification procedure was performed according to the following procedure:

- 1. A base station simulator was used to establish an RF connection and to monitor the power levels. The device being tested was placed below the relevant section of the phantom with the relevant side or edge of the device facing toward the phantom.
- The device was moved toward and away from the phantom to determine the distance at which
 the mechanism triggers and the output power is reduced, per KDB Publication 616217
 D04v01r02 and FCC Guidance. Each applicable test position was evaluated. The distances were
 confirmed to be the same or larger (more conservative) than the minimum distances provided by
 the manufacturer.
- 3. Steps 1 and 2 were repeated for low, mid, and high bands, as appropriate (see note below Table G-2 for more details).
- 4. Steps 1 through 3 were repeated for all distance-based power reduction mechanisms.

FCC ID: ZNFV450PM	POTEST SA	AR EVALUATION REPORT	LG	Reviewed by: Quality Manager
Test Dates:	DUT Type:			APPENDIX G:
11/28/2018 – 01/31/2019	Portable Handset			Page 1 of 2

G.3 Main Antenna Verification Summary

Table G-1
Power Measurement Verification for Main Antenna

Mechanism(s)		Conducted F	Power (dBm)
1st	Mode/Band	Un-triggered (Max)	Mechanism #1 (Reduced)
Grip	UMTS 1750	24.98	23.81
Grip	UMTS 1900	24.77	23.66
Grip	PCS CDMA	24.47	23.46
Grip	LTE FDD Band 4	25.07	24.17
Grip	LTE FDD Band 66	25.09	24.11
Grip	LTE FDD Band 2	24.63	23.85
Grip	LTE FDD Band 25	24.7	23.91

Table G-2
Distance Measurement Verification for Main Antenna

Machaniam(s)	Tost Condition	Dand	Distance Measurements (mm)		Minimum Distance per
Mechanism(s)	Test Condition	Band	Moving Toward	Moving Away	Manufacturer (mm)
Grip	Body - Back Side	Mid	4	7	3
Grip	Body - Front Side	Mid	5	7	2
Grip	Body - Bottom Edge	Mid	7	9	4

^{*}Note: Mid band refers to: CDMA BC1, UMTS B2/4, LTE B2/4/25/66

G.4 WIFI Verification Summary

Table G-3
Power Measurement Verification WIFI

Mechanism(s)		Conducted I	Power (dBm)
1st	Mode/Band	Un-triggered (Max)	Mechanism #1 (Reduced)
Held-to-Ear	802.11b	19.42	17.22
Held-to-Ear	802.11g	18.05	17.47
Held-to-Ear	802.11n (2.4GHz)	17.61	17.18

^{*}Note: MIMO WIFI modes were not evaluated due to equipment limitations.

FCC ID: ZNFV450PM	SAR EVALUATION REPORT	LG	Reviewed by: Quality Manager
Test Dates:	DUT Type:		APPENDIX G:
11/28/2018 - 01/31/2019	Portable Handset		Page 2 of 2

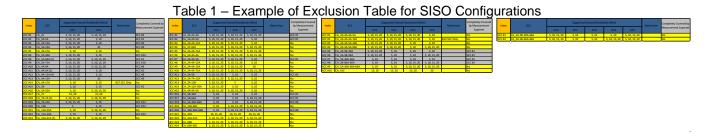
APPENDIX H: DOWNLINK LTE CA RF CONDUCTED POWERS

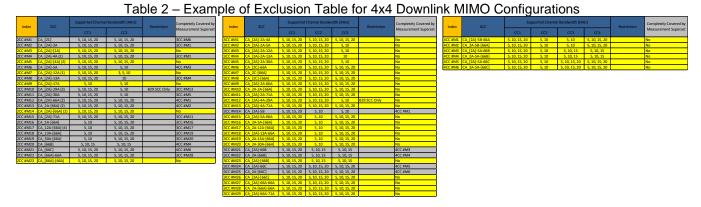
1.1 LTE Downlink Only Carrier Aggregation Test Reduction Methodology

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per April 2018 TCBC Workshop Notes, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA 2A-2A-4A-12A, but B12 can only be configured as a SCC).
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.
- Downlink CA combinations for SISO and 4x4 Downlink MIMO operations were measured independently, per May 2017 TCBC Workshop notes.





Note: [CC] indicates component carrier with 4x4 DL MIMO antenna configuration

FCC ID: ZNFV450PM	SAR EVALUATION REPORT	LG	Reviewed by: Quality Manager
Test Dates:	DUT Type:		APPENDIX H:
11/28/18 - 01/31/19	Portable Handset		Page 1 of 6

1.2 LTE Downlink Only Carrier Aggregation Test Selection and Setup

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

This device supports LAA with downlink carrier aggregation only. It uses carrier aggregation in the downlink to combine LTE in the unlicensed spectrum (i.e. LTE Band 46) with LTE in the licensed band (served as PCC). All uplink communications and acknowledgements on the PCC remain identical to specifications when downlink carrier aggregation is inactive.

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the maximum average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive. All bands required for SAR testing per FCC KDB procedures were considered. Based on the measured maximum powers below, no additional SAR tests were required for DLCA SAR configurations.

General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KBD 941225 D05 V01r02. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.



Figure 1
DL CA Power Measurement Setup

FCC ID: ZNFV450PM	SAR EVALUATION REPORT	LG	Reviewed by: Quality Manager
Test Dates:	DUT Type:		APPENDIX H:
11/28/18 - 01/31/19	Portable Handset		Page 2 of 6

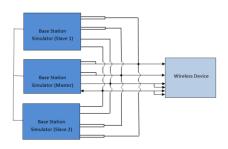


Figure 2 DL CA with DL 4x4 MIMO Power Measurement Setup

Downlink Carrier Aggregation RF Conducted Powers 1.3

LTE Band 26 as PCC 1.3.1

Table 1 **Maximum Output Powers**

					PCC						S	CC 1				SCC 2		Pov	ver
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel		LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_25A-26A	LTE B26	15	26865	831.5	QPSK	1	36	8865	876.5	LTE B25	20	8365	1962.5	-	-	-	-	25.50	25.39
CA_26A-41A	LTE B26	15	26865	831.5	QPSK	1	36	8865	876.5	LTE B41	20	40620	2593			-		25.36	25.39
CA_25A-25A-26A	LTE B26	5	26715	816.5	QPSK	1	0	8715	861.5	LTE B25	20	8365	1962.5	LTE B25	20	8590	1985	25.45	25.32
CA_26A-41C	LTE B26	15	26865	831.5	QPSK	1	36	8865	876.5	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	25.35	25.39

1.3.2 **LTE Band 25 as PCC**

Table 2 **Maximum Output Powers**

								•••			- G-LP			•									
					PCC						SI	CC 1				SCC 2				SCC 3		Por	wer
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_25A-26A	LTE B25	15	26615	1907.5	QPSK	1	0	8615	1987.5	LTE B26	15	8865	876.5	-	-		-	-	-		-	25.17	25.18
CA_25A-41A	LTE B25	15	26615	1907.5	QPSK	1	0	8615	1987.5	LTE B41	20	40620	2593	-	-	-	-	-	-	-	-	25.19	25.18
CA_25A-46A	LTE B25	15	26615	1907.5	QPSK	1	0	8615	1987.5	LTE B46	20	50665	5537.5	-	-	-	-	-		-	-	25.20	25.18
CA_25A-25A-26A	LTE B25	15	26615	1907.5	QPSK	1	0	8615	1987.5	LTE B25	20	8140	1940	LTE B26	5	8865	876.5		-		-	25.16	25.18
CA_25A-41C	LTE B25	15	26615	1907.5	QPSK	- 1	0	8615	1987.5	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	-	-	-	-	25.19	25.18
CA_25A-46C	LTE B25	15	26615	1907.5	QPSK	- 1	0	8615	1987.5	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-		-	-	25.17	25.18
CA 25A-41D	LTE B25	15	26615	1907.5	QPSK	1	0	8615	1987.5	LTE B41	20	40422	2573.2	LTE B41	20	40620	2593	LTE B41	20	40818	2612.8	25.17	25.18

Table 3 **Reduced Output Powers**

					PCC						S	C 1				SCC 2				SCC 3		Powe	r
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL#	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_25A-26A	LTE B25	20	26590	1905	QPSK	1	99	8590	1985	LTE B26	15	8865	876.5	-		-	-			-	-	24.09	24.10
CA_25A-41A	LTE B25	20	26590	1905	QPSK	1	99	8590	1985	LTE B41	20	40620	2593	-	-	-	-			-	-	24.15	24.10
CA_25A-46A	LTE B25	20	26590	1905	QPSK	1	99	8590	1985	LTE B46	20	50665	5537.5	-	-	-	-			-	-	24.09	24.10
CA_25A-25A-26A	LTE B25	20	26590	1905	QPSK	- 1	99	8590	1985	LTE B25	20	8140	1940	LTE B26	5	8865	876.5		-	-	-	24.05	24.10
CA_25A-41C	LTE B25	20	26590	1905	QPSK	- 1	99	8590	1985	LTE B41	20	40620	2593	LTE B41	20	40422	2573.2	-		-		24.20	24.10
CA_25A-46C	LTE B25	20	26590	1905	QPSK	1	99	8590	1985	LTE B46	20	50665	5537.5	LTE B46	20	50467	5517.7	-	-	-	-	24.07	24.10
CA 25A-41D	LTE B25	20	26590	1905	QPSK	1	99	8590	1985	LTE B41	20	40422	2573.2	LTE B41	20	40620	2593	LTE B41	20	40818	2612.8	24.19	24.10

FCC ID: ZNFV450PM	SAR EVALUATION REPORT	LG	Reviewed by: Quality Manager
Test Dates:	DUT Type:		APPENDIX H:
11/28/18 - 01/31/19	Portable Handset		Page 3 of 6

1.3.3 LTE Band 41 as PCC

Table 4
Maximum Output Powers

					PCC						St	C 1				SCC 2				SCC 3				SCC 4		Po	wer
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL#		PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]		LTE Single Carrier To Power (dBm)
CA_41A-41A	LTE B41	10	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	41490	2680												-	25.13	25.02
CA_41C (1)	LTE B41	5	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40302	2561.2													25.03	25.04
CA_41A-41C	LTE B41	5	40185	2549.5	QPSK	- 1	0	40185	2549.5	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680									25.08	25.04
CA_41C-41A	LTE B41	5	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40302	2561.2	LTE B41	20	41490	2680				-					25.09	25.04
CA_41E	LTE B41	15	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40356	2566.6	LTE B41	20	40554	2586.4	LTE B41	20	40752	2606.2					25.15	24.94
CA_41C-41C	LTE B41	10	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40329	2563.9	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680					25.10	25.02
CA_41C-41D	LTE B41	10	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40329	2563.9	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	25.01	25.02
CA_41D-41C	LTE B41	10	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41	20	40329	2563.9	LTE B41	20	40527	2583.7	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	25.05	25.02

1.3.4 LTE Band 41 PC2 as PCC

Table 5 Maximum Output Powers

					PCC						St	CC 1			5	CC 2			SC	C3			S	CC 4		Pov	ver
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]		SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41A-41A	LTE B41 PC2	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41 PC2	20	39700	2680													27.64	27.69
CA_41C (1)	LTE B41 PC2	5	40185	2549.5	QPSK	1	12	40185	2549.5	LTE B41 PC2	20	40302	2561.2													27.69	27.70
CA_41A-41C	LTE B41 PC2	5	40185	2549.5	QPSK	1	12	40185	2549.5	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680				-					27.69	27.70
CA_41C-41A	LTE B41 PC2	5	40185	2549.5	QPSK	-1	12	40185	2549.5	LTE B41 PC2	20	40302	2561.2	LTE B41 PC2	20	41490	2680		-		-					27.70	27.70
CA_41E	LTE B41 PC2	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41 PC2	20	40383	2569.3	LTE B41 PC2	20	40581	2589.1	LTE B41 PC2	20	40779	2608.9					27.68	27.69
CA_41C-41C	LTE B41 PC2	20	40185	2549.5	QPSK	1	0	40185	2549.5	LTE B41 PC2	20	40383	2569.3	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41490	2680					27.68	27.69
CA_41C-41D	LTE B41 PC2	20	41490	2680	QPSK	1	0	41490	2680	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	40146	2545.6	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	39750	2506	27.65	27.69
CA_41D-41C	LTE B41 PC2	20	41490	2680	QPSK	1	0	41490	2680	LTE B41 PC2	20	41292	2660.2	LTE B41 PC2	20	41094	2640.4	LTE B41 PC2	20	39948	2525.8	LTE B41 PC2	20	39750	2506	27.62	27.69

1.4 DL CA with DL 4x4 MIMO RF Conduction Powers

This device supports downlink 4x4 MIMO operations for some LTE bands. Uplink transmission is limited to a single output stream. When carrier aggregation was applicable, the general test selection and setup procedures described in Section 1.2 were applied.

Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

1.4.1 LTE 4x4 MIMO DL Standalone Powers

Table 6 Maximum Output Powers

LTE Band	Bandwidth [MHz]	Channel	Frequency [MHz]	Modulation	RB Size	RB Offset	4x4 DL MIMO Tx. Power [dBm]	Single Antenna Tx. Power [dBm]
25	15	26615	1907.5	QPSK	1	0	25.12	25.18
41	5	40185	2549.5	QPSK	1	0	25.03	25.04
41 PC2	5	40185	2549.5	QPSK	1	12	27.70	27.70

FCC ID: ZNFV450PM	SAR EVALUATION REPORT LG	Reviewed by: Quality Manager
Test Dates:	DUT Type:	APPENDIX H:
11/28/18 - 01/31/19	Portable Handset	Page 4 of 6

1.4.2 LTE Band 25 as PCC

Table 7 Maximum Output Powers

											• •												
[PCC							SCC 1					SCC 2			Por	wer
	Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.		PCC UL RB Offset		PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
	CA_[25A]-[25A] (1)	LTE B25	15	26615	1907.5	QPSK	1	0	8615	1987.5	4x4	LTE B25	20	8140	1940	4x4		-			-	25.10	25.18
	CA_[25A]-46A	LTE B25	15	26615	1907.5	QPSK	1	0	8615	1987.5	4x4	LTE B46	20	50665	5537.5	2x2		-	-		-	25.19	25.18
ı	CA_[25A]-46C	LTE B25	15	26615	1907.5	QPSK	1	0	8615	1987.5	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	25.10	25.18

Table 8 Reduced Output Powers

						PCC							SCC 1					SCC 2					SCC 3			Powe	r
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL#	PCC UL RB Offset		PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC	SCC (DL) Freq. [MHz]		SCC Band	SCC BW [MHz]	SCC	SCC (DL) Freq. [MHz]			SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	DE CA Ellableu	LTE Single Carrier Tx Power (dBm)
CA_[25A]-[25A] (1)	LTE B25	20	26590	1905	QPSK	1	99	8590	1985	4x4	LTE B25	20	8090	1940	4x4	-	-	-		-	-		-	-	-	23.96	24.10
CA_[25A]-46A	LTE B25	20	26590	1905	QPSK	1	99	8590	1985	4x4	LTE B46	20	50665	5537.5	2x2	-	-	-		-				-	-	24.09	24.10
CA_[25A]-46C	LTE B25	20	26590	1905	QPSK	1	99	8590	1985	4x4	LTE B46	20	50665	5537.5	2x2	LTE B46	20	50467	5517.7	2x2	-	-		-	-	24.08	24.10

1.4.3 **LTE Band 41 as PCC**

Table 9 Maximum Output Powers

						PCC							SCC 1					SCC 2					SCC 3			Po	ower
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset		PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]		SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_[41A]-41A (1)	LTE B41	5	40185	2549.5	QPSK	1	0	40185	2549.5	4x4	LTE B41	20	41490	2680	2x2	-	-	-	-	-		-	-		-	25.12	25.04
CA_41A-[41A] (1)	LTE B41	5	40185	2549.5	QPSK	1	0	40185	2549.5	2x2	LTE B41	20	41490	2680	4x4	-				-						25.05	25.04
CA_[41A]-41C	LTE B41	5	40185	2549.5	QPSK	1	0	40185	2549.5	4x4	LTE B41	20	41292	2660.2	2x2	LTE B41	20	41490	2680	2x2		-	-			25.03	25.04
CA_41C-[41A]	LTE B41	5	40185	2549.5	QPSK	1	0	40185	2549.5	2x2	LTE B41	20	40302	2561.2	2x2	LTE B41	20	41490	2680	4x4		-	-		-	25.09	25.04
CA_41A-[41C]	LTE B41	5	40185	2549.5	QPSK	1	0	40185	2549.5	2x2	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41490	2680	4x4	-	-	-	-	-	25.02	25.04
CA_[41C]-41A	LTE B41	5	40185	2549.5	QPSK	1	0	40185	2549.5	4x4	LTE B41	20	40302	2561.2	4x4	LTE B41	20	41490	2680	2x2	-	-	-	-	-	25.03	25.04
CA_[41A]-[41D]	LTE B41	5	40185	2549.5	QPSK	1	0	40185	2549.5	4x4	LTE B41	20	41094	2640.4	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41490	2680	4x4	25.03	25.04
CA_[41D]-[41A]	LTE B41	10	40185	2549.5	QPSK	1	0	40185	2549.5	4x4	LTE B41	20	40329	2563.9	4x4	LTE B41	20	40527	2583.7	4x4	LTE B41	20	41490	2680	4x4	24.97	25.02
CA_[41C]-[41C]	LTE B41	10	40185	2549.5	QPSK	1	0	40185	2549.5	4x4	LTE B41	20	40329	2563.9	4x4	LTE B41	20	41292	2660.2	4x4	LTE B41	20	41490	2680	4x4	25.04	25.02
CA_[41E]	LTE B41	15	40185	2549.5	QPSK	1	0	40185	2549.5	4x4	LTE B41	20	40356	2566.6	4x4	LTE B41	20	40554	2586.4	4x4	LTE B41	20	40752	2606.2	4x4	24.94	24.94

1.4.4 LTE Band 41 PC2 as PCC

Table 10 Maximum Output Powers

					F	cc							SCC 1					SCC 2					SCC 3			Po	wer
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL#	PCC UL RB Offset		PCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC	SCC (DL) Freq. [MHz]	DL Ant. Config.	SCC Band	SCC BW [MHz]	SCC (DL) Ch.	SCC (DL) Freq. [MHz]	DL Ant. Config.	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
	LTE B41 PC2	5	40185	2549.5	QPSK	1	12	40185	2549.5	4x4	LTE B41 PC2	20	41490	2680	2x2	-	-		-	-	-	-	-		-	27.68	27.70
CA_41A-[41A] (1)	LTE B41 PC2	5	40185	2549.5	QPSK	1	12	40185	2549.5	2x2	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-		-	-	-	-		27.69	27.70
CA_[41A]-41C	LTE B41 PC2	5	40185	2549.5	QPSK	1	12	40185	2549.5	4x4	LTE B41 PC2	20	41292	2660.2	2x2	LTE B41 PC2	20	41490	2680	2x2	-	-	-	-	-	27.66	27.70
CA_41C-[41A]	LTE B41 PC2	5	40185	2549.5	QPSK	1	12	40185	2549.5	2x2	LTE B41 PC2	20	40302	2561.2	2x2	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	27.69	27.70
CA_41A-[41C]	LTE B41 PC2	5	40185	2549.5	QPSK	1	12	40185	2549.5	2x2	LTE B41 PC2	20	41292	2660.2	4x4	LTE B41 PC2	20	41490	2680	4x4	-	-	-	-	-	27.67	27.70
CA_[41C]-41A	LTE B41 PC2	5	40185	2549.5	QPSK	1	12	40185	2549.5	4x4	LTE B41 PC2	20	40302	2561.2	4x4	LTE B41 PC2	20	41490	2680	2x2	-	-	-	-	-	27.64	27.70
CA_[41A]-[41D]	LTE B41 PC2	5	40185	2549.5	QPSK	1	12	40185	2549.5	4x4	LTE B41 PC2	20	41094	2640.4	4x4	LTE B41 PC2	20	41292	2660.2	4x4	LTE B41 PC2	20	41490	2680	4x4	27.69	27.70
CA_[41D]-[41A]	LTE B41 PC2	20	40185	2549.5	QPSK	1	0	40185	2549.5	4x4	LTE B41 PC2	20	40383	2569.3	4x4	LTE B41 PC2	20	40581	2589.1	4x4	LTE B41 PC2	20	41490	2680	4x4	27.68	27.69
CA_[41C]-[41C]	LTE B41 PC2	20	40185	2549.5	QPSK	1	0	40185	2549.5	4x4	LTE B41 PC2	20	40383	2569.3	4x4	LTE B41 PC2	20	41292	2660.2	4x4	LTE B41 PC2	20	41490	2680	4x4	27.70	27.69
CA_[41E]	LTE B41 PC2	20	40185	2549.5	QPSK	1	0	40185	2549.5	4x4	LTE B41 PC2	20	40383	2569.3	4x4	LTE B41 PC2	20	40581	2589.1	4x4	LTE B41 PC2	20	40779	2608.9	4x4	27.67	27.69

FCC ID: ZNFV450PM	SAR EVALUATION REPORT	LG	Reviewed by: Quality Manager
Test Dates:	DUT Type:		APPENDIX H:
11/28/18 - 01/31/19	Portable Handset		Page 5 of 6

1.5 Downlink Carrier Aggregation with CA_41C Uplink Carrier Aggregation enabled

This device supports uplink carrier aggregation (ULCA) with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with ULCA active and additional CA configurations active in the downlink for the configuration per Fall 2017 TCB Workshop Notes.

Per FCC Guidance, additional SAR measurements for these configurations were not required since their maximum output power was not more than 0.25 dB higher than the maximum output power for with only ULCA active.

1.5.1 DL Carrier Aggregation RF Conducted Powers

Table 11
Maximum Output Powers

maximum output i onoio																				
	PCC							SCC1								sc	C2	Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel		Modulatio n	SCC UL# RB	SCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	CA_41C ULCA Tx. Power with add'l CA configuration active in DL (dBm)	CA_41C ULCA Tx. Power (dBm)
CA 41D	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	LTE B41	20	41094	2640.4	24.84	24.93

1.5.2 DL Carrier Aggregation with DL 4x4 MIMO RF Conducted Powers

Note: 4x4 DL MIMO is only operating in the downlink. Uplink transmission is limited to a single output stream for each component carrier of ULCA.

Table 12
Maximum Output Powers

		PCC							SCC1								SCC2					Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	DL Ant. Config.	Modulation	PCC UL# RB	PCC UL RB Offset		SCC Bandwidth [MHz]	SCC (UL/DL) Channel			Modulatio n	SCC UL# RB	SCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	DL Ant.	CA_41C ULCA Tx. Power with add'l CA configuration active in DL (dBm)	CA_41C ULCA Tx. Power (dBm)
CA_[41C] (1)	LTE B41	20	41490	2680.0	4x4	QPSK	1	0	LTE B41	20	41292	2660.2	4x4	QPSK	1	99	-	-	-	-	-	24.79	24.93
CA [41D]	LTE B41	20	41490	2680.0	4x4	QPSK	1	0	LTE B41	20	41292	2660.2	4x4	QPSK	1	99	LTE B41	20	41094	2640.4	4x4	24.77	24.93

FCC ID: ZNFV450PM	SAR EVALUATION REPORT	LG	Reviewed by: Quality Manager
Test Dates:	DUT Type:		APPENDIX H:
11/28/18 - 01/31/19	Portable Handset		Page 6 of 6