REPORT NO: UL-SAR-RP11631392JD03A V2.0 Issue Date: 22 May 2017

## 12.2. System Check Plots

This appendix contains the following system validation distribution scans.

Scan Reference Number	Title
SYS/001	System Performance Check 2450MHz Body 03 04 2017

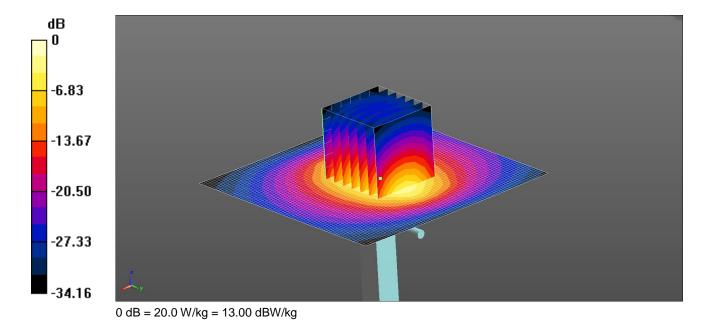
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UL VS Ltd. Report. No.: 2.0

SYS/001: System Performance Check 2450MHz Body 03 04 2017

Issue Date: 22 May 2017

Date: 03/04/2017

DUT: Dipole 2450 MHz; SN725; Type: D2450V2; Serial: D2450V2 - SN:725



Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used: f = 2450 MHz;  $\sigma = 2.011$  S/m;  $\epsilon_r = 52.159$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section DASY4 Configuration:

- Probe: EX3DV4 - SN3814; ConvF(7.19, 7.19, 7.19); Calibrated: 30/09/2016;

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 23/09/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- -; SEMCAD X Version 14.6.10 (7372)

Configuration/d=10mm, Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 20.0 W/kg

Configuration/d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 84.09 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 27.6 W/kg

UL VS Ltd.

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 5.83 W/kgMaximum value of SAR (measured) = 20.2 W/kg REPORT NO: UL-SAR-RP11631392JD03A V2.0 Issue Date: 22 May 2017

## **12.3. SAR Distribution Plots**

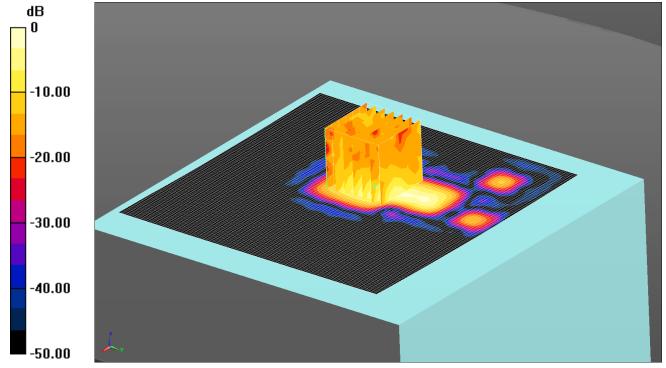
This appendix contains the following SAR distribution scans.

Scan Reference Number	Title
SAR/001	Position 1 0mm WLAN 2.4GHz 802.11g 6Mbps CH1
SAR/002	Position 2 0mm WLAN 2.4GHz 802.11g 6Mbps CH1
SAR/003	Position 3 0mm WLAN 2.4GHz 802.11g 6Mbps CH1
SAR/004	Position 4 0mm WLAN 2.4GHz 802.11g 6Mbps CH1
SAR/005	Position 3 0mm WLAN 2.4GHz 802.11g 6Mbps CH6
SAR/006	Position 3 0mm WLAN 2.4GHz 802.11g 6Mbps CH11

SAR/001: Position 1 0mm WLAN 2.4GHz 802.11g 6Mbps CH1

Date: 03/04/2017

DUT: Braster; Type: Braster; Serial: BRA-0030D5



Issue Date: 22 May 2017

0 dB = 0.0326 W/kg = -14.86 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): f = 2412 MHz;  $\sigma = 1.967$  S/m;  $\epsilon_r = 52.265$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 SN3814; ConvF(7.19, 7.19, 7.19); Calibrated: 30/09/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 23/09/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- -; SEMCAD X Version 14.6.10 (7372)

Configuration/Position 1/Area Scan 2 (121x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0326 W/kg

Configuration/Position 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.230 V/m; Power Drift = 1.71 dB

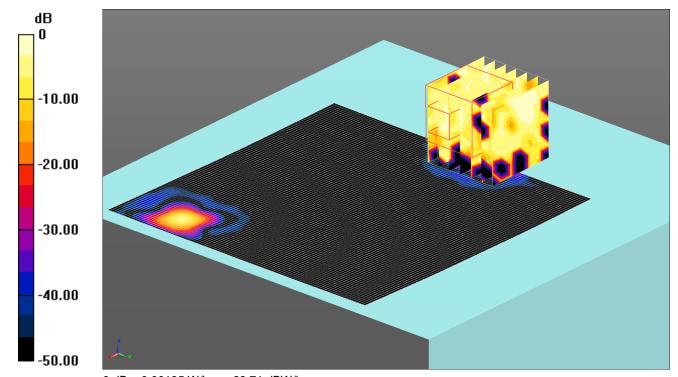
Peak SAR (extrapolated) = 0.0430 W/kg

SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00539 W/kg Maximum value of SAR (measured) = 0.0318 W/kg

SAR/002: Position 2 0mm WLAN 2.4GHz 802.11g 6Mbps CH1

Date: 03/04/2017

DUT: Braster; Type: Braster; Serial: BRA-0030D5



Issue Date: 22 May 2017

0 dB = 0.00135 W/kg = -28.71 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): f = 2412 MHz;  $\sigma = 1.967$  S/m;  $\epsilon_r = 52.265$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

**DASY4** Configuration:

- Probe: EX3DV4 SN3814; ConvF(7.19, 7.19, 7.19); Calibrated: 30/09/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 23/09/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- -; SEMCAD X Version 14.6.10 (7372)

Configuration/Position 2/Area Scan 2 (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.00135 W/kg

Configuration/Position 2/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.1550 V/m; Power Drift = 13.18 dB

Peak SAR (extrapolated) = 0.00297 W/kg

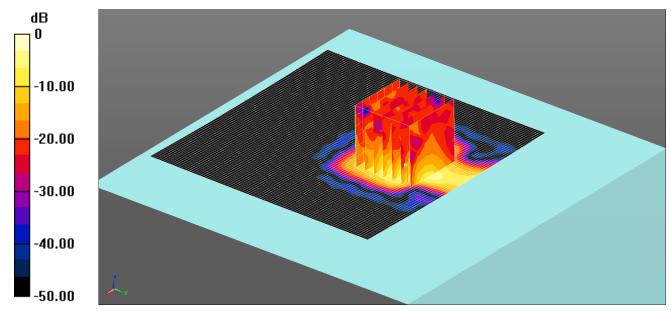
SAR(1 g) = 0.000127 W/kg; SAR(10 g) = 3.19e-005 W/kg

Maximum value of SAR (measured) = 0.00255 W/kg

SAR/003: Position 3 0mm WLAN 2.4GHz 802.11g 6Mbps CH1

Date: 03/04/2017

DUT: Braster; Type: Braster; Serial: BRA-0030D5



Issue Date: 22 May 2017

0 dB = 0.0343 W/kg = -14.65 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): f = 2412 MHz;  $\sigma = 1.967$  S/m;  $\epsilon_r = 52.265$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 SN3814; ConvF(7.19, 7.19, 7.19); Calibrated: 30/09/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 23/09/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- -; SEMCAD X Version 14.6.10 (7372)

Configuration/Position 1/Area Scan 2 (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0343 W/kg

Configuration/Position 1/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.731 V/m; Power Drift = 1.60 dB

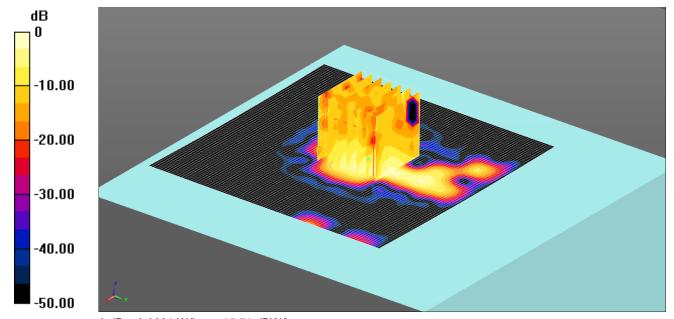
Peak SAR (extrapolated) = 0.0410 W/kg

SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.00599 W/kg Maximum value of SAR (measured) = 0.0345 W/kg

SAR/004: Position 4 0mm WLAN 2.4GHz 802.11g 6Mbps CH1

Date: 03/04/2017

DUT: Braster; Type: Braster; Serial: BRA-0030D5



Issue Date: 22 May 2017

0 dB = 0.0281 W/kg = -15.51 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): f = 2412 MHz;  $\sigma = 1.967$  S/m;  $\epsilon_r = 52.265$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 SN3814; ConvF(7.19, 7.19, 7.19); Calibrated: 30/09/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 23/09/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- -; SEMCAD X Version 14.6.10 (7372)

Configuration/Position 4/Area Scan 2 (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0281 W/kg

Configuration/Position 4/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.716 V/m; Power Drift = -0.81 dB

Peak SAR (extrapolated) = 0.0240 W/kg

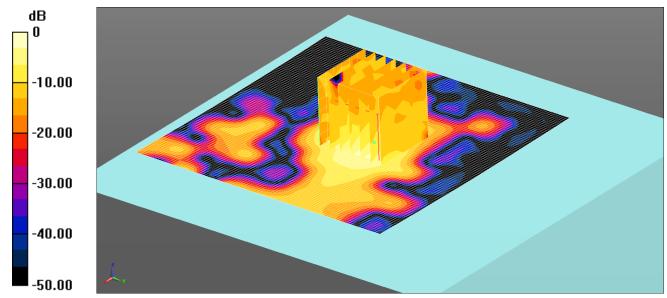
SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.00375 W/kg

Maximum value of SAR (measured) = 0.0177 W/kg

SAR/005: Position 3 0mm WLAN 2.4GHz 802.11g 6Mbps CH6

Date: 04/04/2017

DUT: Braster; Type: Braster; Serial: BRA-0030D5



Issue Date: 22 May 2017

0 dB = 0.0255 W/kg = -15.94 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): f = 2437 MHz;  $\sigma = 1.996$  S/m;  $\epsilon_r = 52.195$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 SN3814; ConvF(7.19, 7.19, 7.19); Calibrated: 30/09/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 23/09/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- -; SEMCAD X Version 14.6.10 (7372)

Configuration/Position 3/Area Scan 2 (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0255 W/kg

Configuration/Position 3/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.665 V/m; Power Drift = -1.22 dB

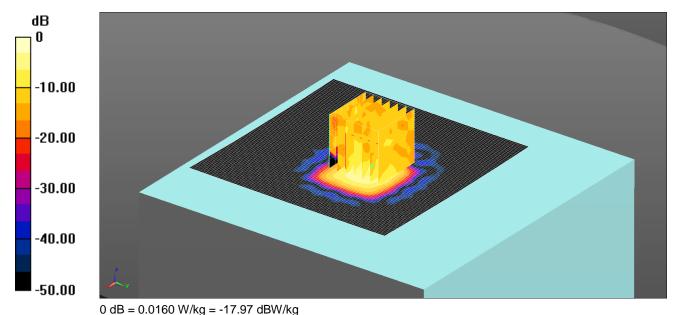
Peak SAR (extrapolated) = 0.0470 W/kg

SAR(1 g) = 0.016 W/kg; SAR(10 g) = 0.0061 W/kg Maximum value of SAR (measured) = 0.0270 W/k

SAR/006: Position 3 0mm WLAN 2.4GHz 802.11g 6Mbps CH11

Date: 04/04/2017

DUT: Braster; Type: Braster; Serial: BRA-0030D5



Issue Date: 22 May 2017

0 dB = 0.0100 W/kg = -17.97 dBW/kg

Communication System: UID 0, WLAN 802.11 (0); Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: 2450 MHz MSL Medium parameters used (interpolated): f = 2462 MHz;  $\sigma$  = 2.025 S/m;  $\epsilon_r$  = 52.125;  $\rho$  = 1000 kg/m<sup>3</sup>

Phantom section: Flat Section

**DASY4** Configuration:

- Probe: EX3DV4 SN3814; ConvF(7.19, 7.19, 7.19); Calibrated: 30/09/2016;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn450; Calibrated: 23/09/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- -; SEMCAD X Version 14.6.10 (7372)

Configuration/Position 3/Area Scan 2 (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0160 W/kg

Configuration/Position 3/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.969 V/m; Power Drift = 0.65 dB

Peak SAR (extrapolated) = 0.0290 W/kg

SAR(1 g) = 0.00894 W/kg; SAR(10 g) = 0.00313 W/kg Maximum value of SAR (measured) = 0.0176 W/kg

REPORT NO: UL-SAR-RP11631392JD03A V2.0	Issue Date: 22 May 2017
12.4. Calibration Certificate for E-Field Probe	
This sub-section contains Cal Certificates for E-Field Probes, and is not includ this report.	ed in the total number of pages for

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





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

Accreditation No.: SCS 0108

Certificate No: EX3-3814 Sep16

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

Client

**UL RFI UK** 

CALIBRATION CERTIFICATE

Object EX3DV4 - SN:3814

Cheated. Mr. None 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: September 30, 2016

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	1D	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	06-Apr-16 (No. 217-02288/02289)	Apr-17
Power sensor NRP-Z91	SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17
Power sensor NRP-Z91	SN: 103245	06-Apr-16 (No. 217-02289)	Apr-17
Reference 20 dB Attenuator	SN: S5277 (20x)	05-Apr-16 (No. 217-02293)	Apr-17
Reference Probe ES3DV2	SN: 3013	31-Dec-15 (No. ES3-3013_Dec15)	Dec-16
DAE4	SN: 660	23-Dec-15 (No. DAE4-660_Dec15)	Dec-16
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-15)	In house check: Oct-16

Name Calibrated by: Claudio Leubler

Laboratory Technician

Approved by:

Katja Pokovic

Technical Manager

Issued: October 3, 2016

Signature

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

Certificate No: EX3-3814\_Sep16

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## Calibration Laboratory of

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Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Multilateral Agreement for the recognition of calibration certificates

Glossary:

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

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

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

Polarization φ φ rotation around probe axis

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

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

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

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

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

b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

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

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

#### Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 8 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
   NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is
  implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included
  in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

# Probe EX3DV4

SN:3814

Manufactured:

September 2, 2011

Repaired:

September 27, 2016

Calibrated:

September 30, 2016

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3814

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) <sup>2</sup> ) <sup>A</sup>	0.47	0.51	0.51	± 10.1 %
DCP (mV) <sup>E</sup>	100.1	99.2	100.5	

#### Modulation Calibration Parameters

UID	Communication System Name		А	8	С	D	VR	Unc
			₫B	dΒ√μV		dΒ	mV	(k=2)
0	CW	X	0.0	0.0	1.0	0.00	189.5	±3.0 %
ļ		Υ	0.0	0.0	1.0	777.08.00.01.00.	182.4	
	- THE STREET	Z	0.0	0.0	1.0		186.6	

Note: For details on UID parameters see Appendix.

#### Sensor Model Parameters

	C1 fF	C2 fF	α V <sup>-1</sup>	T1 ms.V⁻²	T2 ms.V⁻¹	T3 ms	<b>T</b> 4 <b>V</b> ⁻²	T5 V <sup>-1</sup>	Т6
X	46.28	349.7	36.44	13.95	0.951	4.992	0.582	0.404	1,006
Y	45.1	343	36.85	11.56	0.754	5.026	0.111	0.415	1.006
Z	42.92	328.6	37.39	7.804	0.802	5.034	0.147	0.47	1.007

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

<sup>9</sup> Numerical linearization parameter: uncertainty not required.

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

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:3814

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	41.9	0.89	9.53	9.53	9.53	0.44	0.90	± 12.0 %
835	41.5	0.90	9.34	9.34	9.34	0.49	0.80	± 12.0 %
900	41.5	0.97	9.19	9.19	9.19	0.45	0.80	± 12.0 %
1450	40.5	1.20	7.99	7.99	7.99	0.35	0.80	± 12.0 %
1750	40.1	1.37	8.09	8.09	8.09	0.30	0.80	± 12.0 %
1900	40.0	1.40	7.81	7.81	7.81	0.33	0.80	± 12.0 %
2100	39.8	1.49	8.06	8.06	8.06	0.36	0.82	± 12.0 %
2300	39.5	1.67	7.49	7.49	7.49	0.35	0.80	± 12.0 %
2450	39.2	1.80	7.12	7.12	7.12	0.39	0.80	± 12.0 %
2600	39.0	1.96	6.95	6.95	6.95	0.30	0.94	± 12.0 %
3700	37.7	3.12	6.77	6.77	6.77	0.27	1.20	± 13.1 %
5250	35.9	4.71	5.09	5.09	5.09	0.35	1.80	± 13.1 %
5600	35.5	5.07	4.74	4.74	4.74	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.77	4.77	4.77	0.45	1.80	± 13.1 %

 $<sup>^{\</sup>rm C}$  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.

Although the ConvF uncertainty for indicated target tissue parameters.

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

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3814

## Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	55.5	0.96	9.27	9.27	9.27	0.30	1.03	± 12.0 %
835	55.2	0.97	9.14	9.14	9.14	0.46	0.87	± 12.0 %
900	55.0	1.05	9.17	9.17	9.17	0.48	0.80	± 12.0 %
1450	54.0	1.30	8.10	8.10	8,10	0.27	0.80	± 12.0 %
1750	53.4	1.49	7.80	7.80	7.80	0.43	0.80	± 12.0 %
1900	53.3	1.52	7.53	7.53	7.53	0.29	1.01	± 12.0 %
2100	53.2	1.62	8.01	8.01	8.01	0.41	0.80	± 12.0 %
2300	52.9	1.81	7.43	7.43	7.43	0.42	0.80	± 12.0 %
2450	52.7	1.95	7.19	7.19	7.19	0.34	0.90	± 12.0 %
2600	52.5	2.16	7.00	7.00	7.00	0.36	0.90	± 12.0 %
3700	51.0	3.55	6.61	6.61	6.61	0.30	1.20	± 13.1 %
5250	48.9	5.36	4.36	4.36	4.36	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.80	3.80	3.80	0.60	1.90	± 13.1 %
5750	48.3	5.94	4.03	4.03	4.03	0.60	1.90	± 13.1 %

<sup>&</sup>lt;sup>c</sup> 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, 54, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to  $\pm$  110 MHz.

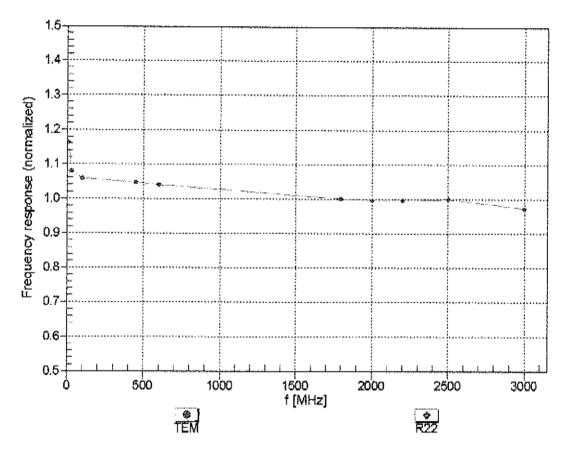
validity can be extended to ± 110 MHz.

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

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

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

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

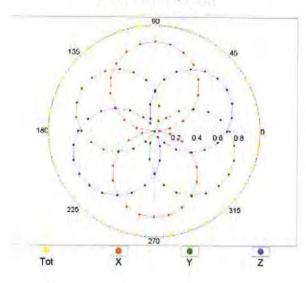


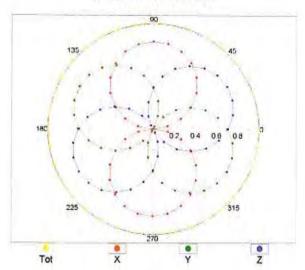
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

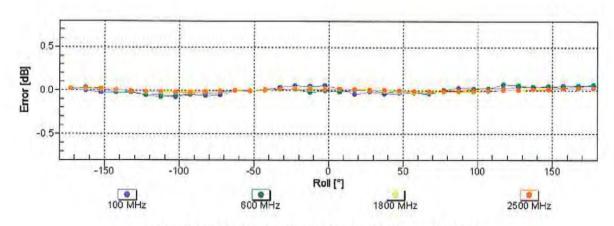
## Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

f=600 MHz,TEM

f=1800 MHz,R22

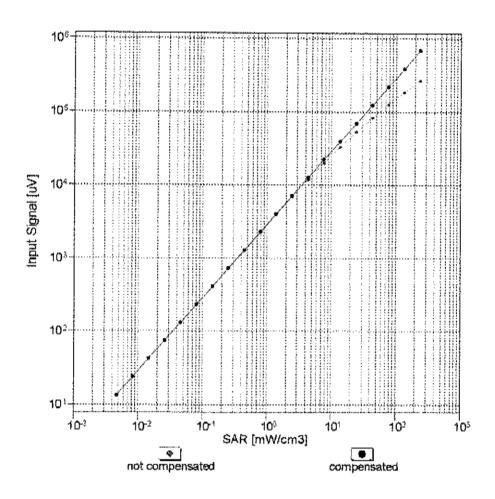


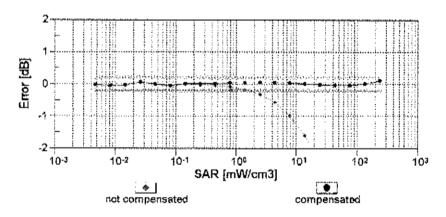




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

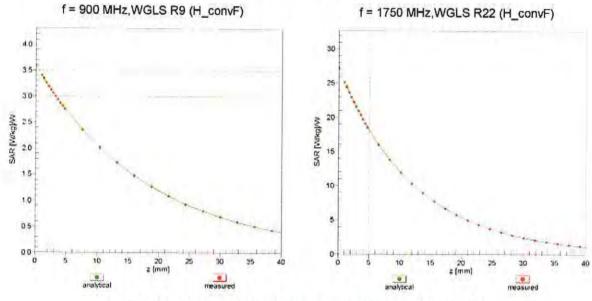
## Dynamic Range f(SAR<sub>head</sub>) (TEM cell , f<sub>eval</sub>= 1900 MHz)





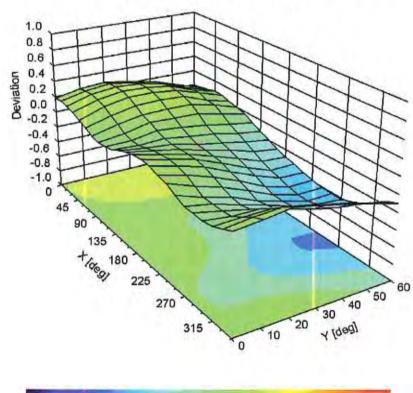
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

## **Conversion Factor Assessment**



## Deviation from Isotropy in Liquid

Error (φ, θ), f = 900 MHz



EX3DV4-- SN:3814

# DASY/EASY - Parameters of Probe: EX3DV4 - SN:3814

## Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	27.4
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
	1

Certificate No: EX3-3814\_Sep16

EX3DV4-- SN:3814 September 30, 2016

Appendix: Modulation Calibration Parameters

diù	ix: Modulation Calibration Parar Communication System Name		dB A	qB√hΛ B	C	D dB	VR mV	Max Unc <sup>E</sup> (k=2)
0	cw	Х	0.00	0.00	1.00	0.00	189.5	130%
MARKET AND PROPERTY OF THE PRO	ALL MANAGEMENT MANAGEMENT AND	Υ	0.00	0.00	1.00		182.4	
		Z	0.00	0.00	1.00		186.6	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	Х	2.78	66.85	11.18	10.00	20.0	± 9.6 %
	ALL LAND CONTRACTOR OF THE PROPERTY OF THE PRO	Υ	3.24	69.14	12.27		20.0	
		Z	3.32	69.29	12.35		20.0	
10011- CAB	UMTS-FDD (WCDMA)	Х	1.09	68.48	16.06	0.00	150.0	± 9.6 %
		Υ	1.13	69.00	16.37		150.0	
		Z	1.24	71.20	17.59		150.0	The state of the s
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	×	1.19	64.09	15.48	0.41	150.0	±9.6%
		Υ	1.20	64.18	15.65		150.0	
		Z	1.19	64.63	16.15		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	×	4.85	66.58	17.01	1,46	150.0	±9.6%
	AL DALAMAN AND AND AND AND AND AND AND AND AND A	Y	4.86	66.69	17.17		150.0	
122	A SWA WATER TO THE TOTAL PROPERTY OF THE TOT	Z	4.84	66.81	17.30	0.00	150.0	1000
10021- DAB	GSM-FDD (TDMA, GMSK)	×	32.02	97.62	23.12	9.39	50.0	± 9.6 %
	THE RESERVE AND ADDRESS OF THE PROPERTY OF THE	Y	100.00	113.74	27.46		50.0	
	A STATE OF THE STA	Z	100.00	114.51	27.84	5.57	50.0	0.00
10023- DAB	GPRS-FDD (TDMA, GMSK, TN 0)	×	19.30	91.13	21.33	9.57	50.0	±9.6 %
LAANUARA WAREN MITTERS TOTTO		Y	100.00	113,41	27.36		50.0	
		Z	100.00	114.04	27.69	0.50	50.0	N O G 9/
10024- DAB	GPRS-FDD (TDMA, GMSK, TN 0-1)	Х	100.00	109.30	24.41	6.56	60.0	±9.6%
	NAME OF THE PROPERTY OF THE PR	Υ	100.00	113.34	26.12		60.0	
	The state of the s	Z	100.00	115.58	27.01	10.57	60.0	
10025- DAB	EDGE-FDD (TDMA, 8PSK, TN 0)	×	5.30	75.19	27.81	12.57	50.0	±9.6%
	THE STATE OF THE S	Y	11.86	102.27	40.78		50.0 50.0	
	The state of the s	Z	5.09	74.93	28.33	0.50	**************************************	± 9.6 %
10026- DAB	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	9.44	90.87	31,58	9.56	60.0	19.0%
		Y	10.56	96.01	34.45	<u> </u>		
		Z	7.93	88.91	31.78	1.00	60.0	± 9.6 %
10027- DAB	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	108.84	23.46	4.80	80.0	29.0%
	LICANO ANA MANAGAMBAN TO THE TOTAL TO THE TO	Y	100.00	114.74	25.92		80.0 80.0	
10028-	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	Z X	100.00 100.00	118.80 109.66	27.49 23.17	3.55	100.0	±9.6%
DAB	The state of the s	Y	100.00	117.62	26.45	<del> </del>	100.0	· · · · · · · · · · · · · · · · · · ·
			100.00	124.24	28.98	- PONYARO-M	100.0	mapr.
40000	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	6.04	81.21	26.78	7.80	80.0	± 9.6 %
10029- DAB	EDGE-LTO (IDIAN' OLSV' 114 0-1-5)	Ŷ	5.98	82.48	28.06	1.00	80.0	
	AND THE PROPERTY OF THE PROPER	Z	4.98	78.57	26.52		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	×	100.00	107.49	23.14	5.30	70.0	± 9.6 %
	DOI DE PROPERTATION DE LA COMPANSION DE	Y	100.00	112.16	25.09	1 '	70.0	
	A. III. III. III. III. III. III. III. I	Z	100.00	114.87	26.11		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	×	100.00	108.95	21.64	1.88	100.0	± 9.6 %
<u> </u>	The state of the s	Y	100.00	119.63	25.86		100.0	
	The second control of	Ż	100.00	129.93	29.60	1	100.0	

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10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	×	100.00	115.94	23.62	1.17	100.0	± 9.6 %
Transcalled in Virginia and Laboratoria	11 11 11 11 11 11 11 11 11 11 11 11 11	Y	100.00	132.47	29.99		100.0	-
	TO THE THE PROPERTY OF THE PRO	Z	100.00	156.26	38.59	<del>                                     </del>	100.0	1
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQP\$K, DH1)	X	7.05	84.43	21.46	5.30	70.0	± 9.6 %
	, , , , , , , , , , , , , , , , , , , ,	Ϋ́	12.51	95.35	25.61		70.0	
		Z	15.91	100.27	27.24	····	70.0	<u> </u>
10034~ CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	2.85	75.59	17.26	1.88	100.0	± 9.6 %
	THE PROPERTY OF THE PROPERTY O	Υ	3.55	79.70	19.17	-	100.0	· · · · · · · · · · · · · · · · · · ·
THE PERSON NAMED OF THE PE	The state of the s	Z	5.03	85.68	21.30	1	100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	×	2.10	72.94	16.12	1.17	100.0	± 9.6 %
	The second secon	Υ	2.38	75.43	17.38	V/T PAIR AT 11 11 11 11 11 11 11 11 11 11 11 11 11	100.0	
	The state of the s	Z	3.13	80.11	19.15	1	100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	×	8.75	87.84	22.66	5.30	70.0	± 9.6 %
		Y	18.16	101.40	27.45		70.0	
	The state of the s	Z	27.30	109.10	29.75		70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Х	2.66	74.77	16.91	1.88	100.0	± 9.6 %
	TOTAL PROMOTE THE COLUMN TO TH	Ÿ	3.24	78.58	18.74		100.0	The second secon
w		Z	4.28	83.55	20.58		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Х	2.13	73.35	16.40	1.17	100.0	± 9.6 %
		Υ	2.41	75.86	17.67		100.0	
		Z	3.20	80.81	19.54		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	X	2.26	75.24	17.07	0.00	150.0	±9.6%
		Υ	2.26	75.23	17.00		150.0	1
		Z	3.66	82.12	19.33		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	Х	25.57	93.07	20.45	7.78	50.0	± 9.6 %
		Υ	100.00	110.50	25.14		50.0	
		Z	100.00	111.56	25.56	APARTICULAR LA	50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Х	0.00	99.48	1.05	0.00	150.0	±9.6%
		Υ	0.00	99.07	0.64		150.0	""
	17,000,000,000,000	Z	0.00	107.26	0.38		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	×	8.40	77.72	18.41	13.80	25.0	±9.6%
	NAME OF THE PROPERTY OF THE PR	Υ	19.08	89.08	22.17		25.0	
Market		Z	22.60	90.77	22.74		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	9.33	81.06	18.43	10.79	40.0	±9.6%
		Y	34.50	98.88	23.97		40.0	
		Z	63.49	106.94	26.17		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	×	10.98	86.24	22.33	9.03	50.0	±9.6%
		Y	23.97	100.07	27.09		50.0	
40000	WHAT ARE	Z	28.09	102.68	27.83		50.0	
10058- DAB	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	4.67	76.39	24.09	6.55	100.0	±9.6%
		Υ	4,50	76.65	24.82		100.0	
40000	1 proper to the state of the st	_Z	3.92	74.06	23.83		100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	Х	1.23	65.16	16.00	0.61	110.0	±9.6%
nana.		Υ	1.23	65.26	16.25		110.0	
		Z	1.22	65.72	16.77		110.0	
40000	THE CONTRACTOR OF THE CONTRACT							
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	×	11.17	103.56	27.20	1.30	110.0	± 9.6 %
						1.30	110.0 110.0	±9.6 %

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10061-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Х	2.80	78.81	21.19	2.04	110.0	± 9.6 %
CAB	Mbps)	\.	0.00	04.04	00.74		110.0	
		Y	2.93	81.01	22.71 23.60		LINE OF THE PARTY	
40000	ICEC BOO 44 - /L MARCE C COLO COMPANA C	Z	2.84	82.05 66.65	16.54	0.49	110.0 100.0	±9.6 %
10062- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.67			0.49		3; 3·O 70
		Υ	4.67	66.72	16.64		100.0	
		Z	4.66	66.86	16.78		100.0	v-6-7
10063- ÇAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	Х	4.68	66.72	16.61	0.72	100.0	± 9.6 %
		Y	4.68	66.80	16.72		100.0	
	The state of the s	Z	4.67	66.94	16.87		100.0	
10064- CAB	IEEE 802.11a/h WIFi 5 GHz (OFDM, 12 Mbps)	×	4.96	66.96	16.82	0.86	100.0	± 9.6 %
M-CALAGE MICHIGAN TO THE TOTAL CONTROL		TY	4.96	67.05	16.94		100.0	
	MALAULINA INA PROPERTY IN THE	Z	4.94	67.17	17.08		100.0	
10065- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4-82	66.83	16.88	1.21	100.0	± 9.6 %
		TY	4.83	66.92	17.02	A THE PARK MANAGEMENT	100.0	
		Z	4.80	67.03	17.16		100.0	DACHER TYPE TOTAL
10066- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	x	4.83	66.83	17.02	1.46	100.0	±9.6%
	THE POT	7	4.84	66.94	17,18		100.0	
	MANAGEMENT TO THE STATE OF THE	TZ	4.81	67.03	17.31	######################################	100.0	
10067- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.12	66,97	17.42	2.04	100.0	±9.6%
W/ 12	The Part of the Control of the Contr	Y	5.13	67.11	17.61		100.0	
	The state of the s	Z	5.10	67.20	17.73		100.0	LILLIAN DE LA CONTRACTION DEL CONTRACTION DE LA
10068- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.16	66.99	17.60	2.55	100.0	±9.6%
	TO THE GOOD ASSESSMENT OF THE PROPERTY OF THE	Y	5.17	67.13	17.82		100.0	
		Z	5.13	67.18	17.91		100.0	
10069- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.24	67.00	17.79	2.67	100.0	± 9.6 %
UNU	14(0PO)	Υ	5.25	67.15	18.02		100.0	
MARKET TO THE TOTAL PROPERTY OF THE PARTY OF	Land Assert Marie Marie Control	Ż	5.21	67.19	18.10	<del>                                     </del>	100.0	-
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.94	66.63	17.27	1.99	100.0	±9.6 %
<u>~~</u>	(OCCO, OF DAY, O TAYONS)	Y	4.95	66.76	17.46	aurimment	100.0	The state of the s
TALL WITH THE TALL TH		Ż	4.93	66.86	17.58		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	x	4.91	66.93	17.46	2.30	100.0	±9.6%
<u> </u>	(DOGGIOT DIVI, 12 Mopo)	Y	4.93	67.07	17.66	1	100.0	
	The state of the s	Z	4.90	67.15	17.78	400000000000000000000000000000000000000	100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.97	67.07	17.74	2.83	100.0	± 9.6 %
	The second section is a second	Υ	4.99	67.23	17.98	1	100.0	
	- I - I - I - I - I - I - I - I - I - I	Ż	4.96	67.29	18.09	1	100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.96	66.96	17.87	3.30	100.0	±9.6 %
<u> </u>	A CONTRACT OF THE PROPERTY OF	Y	4.97	67.12	18.12	4	100.0	The state of the s
712/700781.1	A A THE POST OF TH	Ż	4.94	67,17	18.22		100.0	
10075- CAB	IEEE 602.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.00	67.08	18.16	3.82	90.0	±9.6%
ner ner		Y	5.01	67.23	18.42	<u> </u>	90.0	
		Z	4.97	67.24	18.49	ANNOTES TO THE PARTY OF THE PAR	90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.02	66.88	18.27	4.15	90.0	± 9.6 %
U/10	The same of the sa	Y	5.03	67.03	18.55	]	90.0	
WIII II II		Ż	4.99	67.05	18.62		90.0	
10077-	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.04	66.95	18.36	4.30	90.0	± 9.6 %
CAB	TOSSIOLDIAL ON MIDDA	1	W 0.50				1 00 0	******
	1	Y	5.05	67.11	18.65	1	90.0	

10081-	CDMA2000 (1xRTT, RC3)	ΤX	0.93	67.59	13.44	0.00	150.0	± 9.6 %
CAB			0.55	37.00	14	0.50	100.0	20,070
	7110	Υ	0.95	67.87	13.53	THE THE TAX TO SERVICE THE TAX T	150.0	
manuari di manana di	BITTLY MANAGEMENT THAT I'VE TO THE TOTAL THE T	LZ.	1.13	70.73	14.65		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	0.82	60.00	4.81	4.77	80.0	± 9.6 %
	TO THE THE TAXABLE AND THE TAX	Y	0.75	60.00	4.75		80.0	***************************************
****		Z	0.67	60.00	4.59		80.0	
10090- DAB	GPRS-FDD (TDMA, GMSK, TN 0-4)	×	100.00	109.32	24.44	6.56	60.0	± 9.6 %
		ΙΥ Ζ	100.00	113.35	26.14	<u> </u>	60.0	<u> </u>
10097-	UMTS-FDD (HSDPA)	X	100.00	115.59 68.46	27.04 16.20	0.00	60.0 150.0	1069
CAB	OWNOW DD (1190FA)	Y	1.92	68.62	16.29	0.00	150.0	±9.6 %
	THE STATE OF THE S	Z	2.03	69.99	17.04		150.0	
10098-	UMTS-FDD (HSUPA, Subtest 2)	×	1.86	68.42	16.18	0.00	150.0	± 9.6 %
CAB		Ŷ	1.88	68.59	16.27	0.00	150.0	# 0.0 %
		ż	1.99	69.97	17.03		150.0	
10099- DAB	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	9.49	90.95	31.59	9.56	60.0	± 9.6 %
	THE PROPERTY OF THE PROPERTY O	Y	10.64	96.15	34.49		60.0	
THE PARTY OF THE P		Z	7.98	89.03	31.82		60.0	
10100- CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.21	70.83	17.09	0.00	150.0	±9.6 %
40404		Υ	3.22	70.88	17.16		150.0	
		Z	3,32	71.70	17.67		150.0	
10101- CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.27	67.73	16.16	0.00	150.0	±9.6%
		Y	3.28	67.75	16.22		150.0	
	AND THE PROPERTY OF THE PROPER	Z	3.30	68.09	16.49		150.0	**************************************
10102- CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	3.38	67.70	16.25	0.00	150.0	±9.6%
		<u>Y</u>	3.38	67.69	16.29		150.0	
10103- CAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.40 6.00	68.04 74.28	16.57 19.64	3.98	150.0 65.0	± 9.6 %
	The state of the s	Y	5.98	74.91	20.25		65.0	
		Z	5.75	74.82	20.42		65.0	/ALCONOMICAL DESCRIPTION
10104- CAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	6.28	73.29	20.03	3.98	65.0	± 9.6 %
		Ý	6.15	73.51	20.45		65.0	
		Z	5.78	72.77	20.27		65.0	MM 11/12/14/14/14/14/14/14/14/14/14/14/14/14/14/
10105- CAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	5.72	71.37	19.47	3.98	65.0	±9.6 %
		Y	5.58	71.42	19.79		65.0	
40400	LTE END /PA FELLA 4000 OF 40	Z	5.32	70.89	19.69		65.0	
10108- CAC	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.80	70.09	16.94	0.00	150.0	± 9.6 %
		<u>Y</u>	2.81	70.17	17.02		150.0	
10109-	LTE-FDD (SC-FDMA, 100% RB, 10	Z X	2.89	71.06	17.57	0.00	150.0	
CAC	MHz, 16-QAM)	1	2.93	67.66	16.10	0.00	150.0	± 9.6 %
THE THE TAXABLE PARTY OF THE PA	THE STATE OF THE S	Y	2.93 2.96	67.68	16.15		150.0	
10110- CAC	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.28	68,15 69.28	16.48 16.58	0.00	150.0 150.0	± 9.6 %
		Y	2.29	69.42	16.69	1700.11.1	150.0	
		Z	2.37	70.49	17.31		150.0	
10111- CAC	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	2.68	68.78	16.53	0.00	150.0	± 9.6 %
	THE TAXABLE PARTIES AND THE PA	Y	2.67	68.73	16.50		150.0	W W W W W W W W W W W W W W W W W W W
	1	Z	2.75	69.72	17.06		150.0	

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10112-	LTE-FDD (SC-FDMA, 100% RB, 10	ΙΧΙ	3.06	67.65	16.15	0.00	150.0	± 9.6 %
CAC	MHz, 64-QAM)			01,00	10170	0.00		# 0,0 P
	THE PROPERTY OF THE PROPERTY O	Υ	3.05	67.66	16.19		150.0	
	THE RESERVE OF THE PROPERTY OF	Z	3.08	68.12	16.52		150.0	
10113- CAC	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	×	2.83	68.92	16.65	0.00	150.0	± 9.6 %
		Υ	2.82	68.85	16.61		150.0	
		Z	2.90	69.81	17.16		150.0	
10114- CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	×	5.15	67.30	16.58	0.00	150.0	±9.6%
		Y	5.15	67.30	16.63		150.0	
40445		Z	5.14	67.42	16.77		150.0	
10115- CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	×	5.43	67.39	16.64	0.00	150.0	±9.6%
		Y	5.42	67.38	16.67		150.0	
4044C	ISSE 200 444 /UT One of Settle 407 Mb.		5.40	67.47	16.80	0.00	150.0	
10116- CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	Х	5.24	67.48	16.60	0.00	150.0	±9.6%
		Y	5.24	67.48	16.64		150.0	
10447	IEEE 900 44p /UT Mixed 40 E Mare	Z X	5.23	67.61 67.13	16.79 16.52	0.00	150.0 150.0	+06%
10117- CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)		5.11			0.00		±9.6%
		Y	5.11 5.10	67.14 67.27	16.56		150.0	**************************************
40440	TEE DOO AA - AUT Missel OA Missel AC	de la constantina de	TO A STATE OF THE PARTY OF THE PARTY OF THE PARTY.	67.61	16.71	0.00	150.0 150.0	± 9.6 %
10118- CAB	JEEE 802.11n (HT Mixed, 81 Mbps, 16- QAM)	×	5.51		16.75	0.00		# 9.0 %
		Ý	5.50	67.59	16.78	\$ 	150.0 150.0	
20420		Z	5.49	67.70	16.92	~ ~~		+ O C 9/
10119- CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64- QAM)	Х	5.22	67.43	16.59	0.00	150.0	±9.6%
	THE CONTROL OF THE CO	Y	5.22	67.44	16.64		150.0	
		Z	5.22	67.58	16.79		150.0	
10140- CAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.41	67.69	16.16	0.00	150.0	±9.6%
		Υ.	3.41	67.71	16.21		150.0	
10111		Ż	3.43	68.04	16.48		150.0	
10141- CAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	×	3.54	67.80	16.34	0.00	150.0	±9.6%
		Y	3.53	67.79	16.37		150.0	
		Z	3.55	68.14	16.65		150.0	
10142- CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.07	69.48	16.32	0.00	150.0	±9.6%
MARKET MILLIAN POLITICIA ALLES FRANCIS	HATO PORTON AND ATTERNATION AN	Υ	2.08	69.63	16.40	***************************************	150.0	1
		Z	2.19	71.09	17.14		150.0	4 4 44
10143- CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.59	69.85	16.34	0.00	150.0	±9.6%
·········		Y	2.56	69.73	16.26	ļ	150.0	
40.44		Z	2.72	71.22	16.95		150.0	. ^ ^ ^
10144- CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	×	2.28	67.06	14.48	0.00	150.0	± 9.6 %
		Y	2.28	67.11	14.48	1	150.0	ALLOND HOMOCOTICS TO
www.		Z.	2.30	67.71	14.73	0.00	150.0	1000
10145- CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.27	65.80	12.14	0.00	150.0	±9.6%
	The state of the s	Y	1.24	65.55	11.92		150.0	
10146-	LTE-FDD (SC-FDMA, 100% RB, 1.4	Z X	1.23 1.88	65.86 66.06	11.82 11.48	0.00	150.0 150.0	± 9.6 %
CAC	MHz, 16-QAM)		4 24	04.03	10.00		150.0	
AND AND ADDRESS OF THE PARTY OF		Y	1.67	64.97	10.86 10.74		150.0	
40449	TE END (SO COMA 4009) DE 44	Z	1.67 2.26	65.12 68.28	12.67	0.00	150.0	± 9.6 %
10147- CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)					0.00		2 5.0 70
PARTAMETER TO THE TAX		Z	1.93	66.66	11.83		150.0	
		<u></u>	1.99	67.15	11.85	<u> </u>	150.0	<u> </u>

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10149- CAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	2.94	67.72	16.15	0.00	150.0	±9.6 %
	THE STATE OF THE S	Y	2.94	67.74	16.19		150.0	
		Z	2.97	68.23	16.54		150.0	
10150- CAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	×	3.06	67.71	16.20	0.00	150.0	±9.6%
		Υ	3.06	67.71	16.23		150.0	
		2	3.09	68.19	16.57		150.0	
10151- CAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	×	6.50	77.16	20.86	3.98	65.0	± 9.6 %
		Y	6.55	78.17	21.66		65.0	
		Z	6.19	77.92	21.79		65.0	
10152- CAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	5.79	73.13	19.64	3.98	65.0	±9.6 %
	THE PROPERTY OF THE PROPERTY O	Υ	5.69	73.50	20.13		65.0	
		Z	5.32	72.77	19.95		65.0	
10153- CAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	×	6.18	74.17	20.46	3.98	65.0	± 9.6 %
		Υ	6.05	74.42	20.89	T-13-VENUMEN	65.0	
	A DAMAGE OF THE PROPERTY OF TH	Z	5.69	73.80	20.77		65.0	
10154- CAC	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	×	2.34	69.77	16.87	0.00	150.0	± 9.6 %
		Υ	2.34	69.84	16.94		150.0	
	THE	Z	2.43	71.03	17.62		150.0	The state of the s
10155- CAC	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	2.68	68.80	16,54	0.00	150.0	± 9.6 %
	The state of the s	Υ	2.67	68.76	16.52		150.0	
THE RESERVE OF THE PERSON OF T		Z	2.75	69.75	17.08		150.0	
10156- CAC	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	×	1.93	69.76	16.18	0.00	150.0	± 9.6 %
		Y	1.94	69.87	16.23	10.00	150.0	1
		Z	2.09	71.66	17.07		150.0	
10157- CAC	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	2,14	67.84	14.60	0.00	150.0	± 9.6 %
	The franchistance of the state	Υ	2.14	67.85	14.57		150.0	
		Z	2.20	68.75	14.93		150.0	
10158- CAC	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	2.84	68.99	16.70	0.00	150.0	±9.6 %
	THE THE THOUSAND AND A STATE OF THE STATE OF	Y	2.82	68.92	16.66		150.0	
	THE THE WAY AND A STATE OF THE	Z	2,91	69.91	17.22		150.0	
10159- CAC	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	2.27	68.38	14.92	0.00	150.0	±9.6 %
***************************************		Υ	2.25	68.31	14.84		150.0	
		Z	2.33	69,32	15.25		150.0	
10160- ÇAB	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.81	69.14	16.68	0.00	150.0	±9.6%
	- TO THE TOTAL OF	Y	2.82	69.26	16.78		150.0	***************************************
	IN WATER AND THE	Z	2.90	70.09	17.29		150.0	
10161- CAB	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	2.96	67.68	16.14	0.00	150.0	±9.6%
-natilitiiiimialala	777770000000000000000000000000000000000	Y	2.96	67.69	16.16		150.0	
10100	THE FOR CO. BOATS	Z	2.99	68.21	16.51		150.0	
10162- CAB	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.07	67.84	16.25	0.00	150.0	± 9.6 %
	19 19 19 19 19 19 19 19 19 19 19 19 19 1	Y	3.07	67.84	16.27		150.0	
10100		Z	3,10	68.38	16.63	, , , , , , , , , , , , , , , , , , , ,	150.0	
10166- CAC	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	×	3.55	69.57	19.24	3.01	150.0	± 9.6 %
		Y	3.42	69.08	19.08		150.0	
7070-	The state of the s	Z	3.49	69.78	19.56		150.0	
10167- CAC	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	×	4.35	72,56	19.73	3.01	150.0	± 9.6 %
	ттолимения.	Υ	4.05	71.65	19.43		150.0	
		Z	4.22	72.68	20.00	TATAMANAN	150.0	

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10168- CAC	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz,	×	4.91	75.25	21.27	3.01	150.0	± 9.6 %
UNU	64-QAM)	Y	4.47	73.83	20.75		150.0	MINIMAL PROPERTY AND PROPERTY A
				75.48		***************************************	150.0	
40400	I more compare control and the control and the	Z	4.79		21.61		150.0	±96%
10169- CAB	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.92	68.85	18.96	3.01		I 5.0 %
THE TOTAL WATER WATER TO THE TOTAL		Υ	2.73	67.79	18.55		150.0	
		Z.	2.83	68.54	19.06		150.0	
10170- CAB	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	4.06	75.33	21.58	3.01	150.0	± 9.6 %
		Υ	3.46	72.72	20.60		150.0	<u></u>
		Z	3.80	74.50	21.53		150.0	***************************************
10171- AAB	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	×	3.26	70.67	18.53	3.01	150.0	±9.6%
		Y	2.94	69.29	18.08		150.0	
		Z	3.11	70.17	18.59		150.0	
10172- САВ	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	5.95	83.50	25.23	6.02	65.0	± 9.6 %
	The state of the s	Υ	5.65	84,20	26.22		65.0	ar san lan man mar min in
		Z	5.12	82.81	25.98		65.0	
10173- САВ	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	11.62	92.06	26.25	6.02	65.0	±9.6 %
	THE RESERVE THE PROPERTY OF TH	Y	11.01	93.45	27.47		65.0	
	111.811.118.118111891.111	Z	11.06	94.39	28.11		65.0	The state of the s
10174-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	X	7.57	84.01	23.07	6.02	65.0	± 9.6 %
CAB	64-QAM)	Y	7.52	85.77	24.36		65.0	
		e de la companya de	7.91	87.38	25.23		65.0	NIAME PARKET AND THE PARKET OF
	1 TE COO (CO EDIMA 4 OD 40 MIL	Z. X			18.69	3.01	150.0	± 9.6 %
10175- CAC	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)		2.88	68.52		3.01		E 9.0 %
	The second secon	Y	2.70	67.54	18.33		150.0	
		Z	2.80	68.23	18.80		150.0	
10176- CAC	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	4.07	75.35	21.59	3.01	150.0	±9.6 %
		Y	3.47	72.75	20.61	ļ.,	150.0	
		Z	3.80	74.52	21.55	ANTANIAMITET TITLE	150.0	
10177- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	2.91	68.68	18.79	3.01	150.0	±9.6%
		Υ	2.72	67.66	18.41		150.0	
MP-7 MARIENTEN - 12 - 17 / 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		Z	2.82	68.37	18.90		150.0	140-140-140-140-140-140-140-140-140-140-
10178- CAC	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	4.02	75.10	21.46	3.01	150.0	±9.6%
	A STATE OF THE STA	Υ	3.44	72.58	20.52		150.0	
		Z	3.77	74.31	21.43		150.0	1
10179- CAC	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	3.62	72.84	19.91	3.01	150.0	±9.6 %
	The Administration of	Υ	3.18	70.96	19.24		150.0	- Aller nim 16
	100000000000000000000000000000000000000	Z	3.42	72.23	19.93		150.0	
10180- CAC	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	3.25	70.60	18.48	3.01	150.0	± 9.6 %
		Y	2.93	69.24	18.05		150.0	
	OWNER WASHING BOOK WASHINGTON TO THE TOTAL OF THE TOTAL O	Z	3.10	70.11	18.54	1	150.0	
10181- CAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	Х	2.90	68.66	18.78	3.01	150.0	±9.6%
	The state of the s	Υ	2.72	67.65	18.41		150.0	
	Land Land Links Control Contro	Z	2.82	68.36	18.89		150.0	
10182-	LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	Х	4.01	75.07	21.45	3.01	150.0	± 9.6 %
	16-QAM}				·	1	450.0	The state of the s
CAB	16-QAM)	Υ	3,44	72.56	20.51	1	1 150.0	1
	16-QAM)	Y	3.44 3.76	72.56 74.29	20.51 21.42		150.0 150.0	
10183-	LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	Z X	3.44 3.76 3.25	72.56 74.29 70.57	20.51 21.42 18.47	3.01	150.0 150.0 150.0	± 9.6 %
CAB	The second secon	Z	3.76	74.29	21.42	3.01	150.0	± 9.6 %

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10184- CAC	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	2.91	68.71	18.81	3.01	150.0	± 9.6 %
		Y	2.73	67.69	18.43	1	150.0	***************************************
TTT TO THE TOTAL CONTRACT OF THE PARTY OF TH	MFL 1 1 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ż	2.83	68.40	18.91		150.0	1
10185- CAC	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	4.03	75.16	21.49	3.01	150.0	± 9.6 %
		Υ	3.45	72.63	20.54	}	150.0	
		Z	3.78	74.36	21.46		150.0	
10186- AAC	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	Х	3.26	70.64	18.50	3.01	150.0	± 9.6 %
		Υ	2.94	69.28	18.07		150.0	
		Z	3.11	70.16	18.56		150.0	
10187- CAC	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.92	68.76	18.87	3.01	150.0	± 9.6 %
	170 PULLINGS DR. CO	Y	2.74	67.73	18.49		150.0	
	THE THE PART AND ADDRESS OF TH	Ž	2.84	68.46	18.98	1	150.0	
10188- CAC	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	4.18	75.92	21.92	3.01	150.0	± 9.6 %
		Υ	3.54	73.16	20.87		150.0	
	77.77.77.71.77.71.77.71.77.71.77.71.77.71.77.71.77.71.77.71.77.77	Z	3.90	75.05	21.85		150.0	
10189- AAC	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	×	3.34	71.10	18.80	3.01	150.0	±9.6%
TANK TO THE PARTY OF THE PARTY		Υ	3.00	69.64	18.32		150.0	
		Z	3.18	70.58	18.85	TANDER CALIFORNIA DEL FAIL	150.0	
10193- CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	Х	4.54	66.72	16.28	0.00	150.0	± 9.6 %
		Υ	4.53	66.73	16.31		150.0	
		Z	4.52	66.90	16.47		150.0	
10194- CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	Х	4.70	67.02	16.41	0.00	150.0	±9.6 %
***************************************	77 TO THE WAY TO SHEET A STATE OF THE STATE	Y	4.70	67.03	16.44	200.11.111.111.11	150.0	
		Z	4.68	67.19	16.60		150.0	
10195- CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	Х	4.75	67.05	16.42	0.00	150.0	± 9.6 %
		Y	4.74	67.06	16.46	THE PERSON NAMED OF THE PE	150.0	
	The second secon	2	4.72	67.21	16.61		150.0	
10196- CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.54	66.78	16.30	0.00	150.0	±9.6%
		Y	4.53	66.78	16.33		150.0	
		Z	4.52	66.94	16.48		150.0	
10197- САВ	IEEE 802.11n (HT Mixed, 39 Mbps, 16- QAM)	Х	4.72	67.04	16.42	0.00	150.0	±9.6 %
W-L-V		Υ	4.71	67.05	16.45		150.0	**************************************
		Z	4,69	67.20	16.61	THE RESTRICT OF THE PARTY OF TH	150.0	
10198- CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	×	4.75	67.07	16,43	0.00	150.0	±9.6 %
	THE THOMAS PARTIES AND THE STATE OF THE STAT	Y	4.74	67.08	16.47		150.0	
		Z	4.72	67.23	16.62		150.0	
10219- CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	×	4.49	66.80	16.26	0.00	150.0	± 9.6 %
	T T-12 AT 415 A-1 & 10 A 416 A-1	Υ	4.48	66.80	16.29		150.0	
	THE TOTAL PROPERTY OF THE PROP	Z	4.47	66.97	16.45		150.0	
10220- CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	Х	4.71	67.01	16.41	0.00	150.0	± 9.6 %
	AND THE PROPERTY OF THE PROPER	Υ	4.70	67.01	16.44	- THE MINISTER	150.0	- COLOR OVERAL
		Z	4.69	67.17	16.59		150.0	THE PROPERTY OF THE PROPERTY O
10221- CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	Х	4.75	67.00	16.42	0.00	150.0	± 9.6 %
		Υ	4.75	67.00	16.45		150.0	
	THE THE PROPERTY AND LINE AND	Ζ	4.73	67.15	16.60		150.0	
10222- CAB	(EEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.09	67.14	16.52	0.00	150.0	± 9.6 %
	7117 71.4 AMAN LA	Y	5.08	67.14	16.56		150.0	

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10223- CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.39	67.38	16.65	0.00	150.0	±9.6 %
	The state of the s	Y	5.40	67.41	16.71	I MINING THE PROPERTY OF THE P	150.0	
**************************************		Ż	5.38	67.51	16.84		150.0	
10224- CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.13	67.26	16.50	0.00	150.0	± 9.6 %
		Y	5.13	67.26	16.54	AIREA CHEOLOGO CONTRACTOR	150.0	
~*************************************		Z	5.12	67.38	16.69		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	2.82	66.39	15.53	0.00	150.0	±9.6%
		Y	2.82	66.41	15.53		150.0	į
		Z	2.83	66.83	15.79		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	×	12.49	93.43	26.78	6.02	65.0	±9.6 %
		Y	11.71	94.68	27.95		65.0	
		Z.	11,90	95.87	28.68		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	×	11.53	90.72	25.29	6.02	65.0	±9.6 %
		Y	11,27	92.54	26.61		65.0	1
		Z	11.90	94.43	27.56		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	×	8.42	90.34	27.70	6.02	65.0	±9.6%
COMMERCIAL PROPERTY AND INC.		Υ	7.81	90.91	28.68		65,0	
		Z	6.96	89.44	28.50		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	11.71	92.18	26.29	6.02	65.0	±9.6 %
		Υ	11.09	93.54	27.50		65.0	
		Z	11_14	94.50	28.15		65.0	
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	X	10.81	89.56	24.84	6.02	65.0	± 9.6 %
		Υ	10.61	91.43	26.18		65.0	
		Z	11.06	93.05	27.04		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	8.03	89.35	27.28	6.02	65.0	± 9.6 %
		Υ	7.50	90.03	28.30		65.0	
	MANAGEMENT AND THE CONTROL OF THE CO	Z	6.67	88.48	28.08		65.0	
10232- CAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	×	11.69	92.16	26.29	6.02	65,0	± 9.6 %
		Υ	11.07	93.53	27.50		65.0	
	AND THE PARTY OF T	Z	11.12	94.48	28.15		65.0	
10233- CAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	10.78	89.54	24.84	6.02	65.0	± 9.6 %
		Υ	10.59	91.41	26.17		65.0	
		Z	11.02	93.02	27.03		65.0	ALAMAN MARKATAN TO THE TOTAL TOTAL TO THE TH
10234- CAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	7.71	88,43	26.85	6.02	65.0	± 9.6 %
	THE PROPERTY OF THE PROPERTY O	Y	7.25	89.24	27.91		65.0	
		Z	6.44	87.67	27.67		65.0	1.000
10235- CAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	×	11.70	92.19	26.30	6.02	65.0	± 9.6 %
		Y	11.08	93.57	27.51	1	65.0	
******	AND THE RESERVE OF THE PARTY OF	Z	11.13	94.52	28.16		65.0	10000
10236- CAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	10.89	89.67	24.87	6.02	65.0	± 9.6 %
	2.2.2.2.L. 2.0.000.000.4.V. Committee of the committee of	Y	10.72	91.59	26.22		65.0	
10237-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz,	Z X	11.17 8.04	93.20 89.41	27.09 27.30	6.02	65.0 65.0	± 9.6 %
CAB	QPSK)		NA 201.2	00.75	<del> </del>		CE O	-
	MAN TO THE TOTAL THE TOTAL TO T	Y Z	7.51	90.10	28.33		65.0	
A	LEE TOD (OC COMA A CO ACAM)		6.67	88.54	28.10	6.00	65.0 65.0	±9.6%
10238- CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	×	11.66	92.13	26.28	6.02		11 5.0 70
umanara.	A LA	Υ	11.04	93.51	27.49		65.0	
		Z	11.09	94.46	28.14		65.0	

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10239- CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz. 64-QAM)	Х	10.75	89.50	24.83	6.02	65.0	±9.6 %
	The state of the s	Y	10.55	91.38	26.16		65.0	
	Ly W. L.	Z	10.98	92.98	27.02		65.0	
10240- CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	×	8.01	89.36	27.28	6.02	65.0	± 9.6 %
		Υ	7,49	90.05	28.31	The state of the s	65.0	ATTEMPT OF THE OWN AND ADDRESS OF THE OWN ADDRESS O
	The state of the s	Z	6.65	88.49	28.09		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	×	7.90	80.25	24.70	6.98	65.0	± 9.6 %
		Y	7.54	80.27	25.14		65.0	
		Z	7.32	80.00	25.13		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	×	6.79	77.13	23.31	6.98	65.0	± 9.6 %
		Υ	6.61	77.45	23.86		65.0	
		Z	6.47	77.37	23.92		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	×	5,57	73.90	22.78	6.98	65.0	± 9.6 %
	7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	Υ	5,47	74.26	23.34		65.0	1
	TOP TO THE WILLIAM WILLIAM AND	Z.	5.29	73.86	23.25		65.0	dem to annual entrancement
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	×	5.21	73.03	16.87	3.98	65.0	± 9.6 %
***************************************		Υ	5.09	73.51	17.30		65.0	
		Z	5.03	73.92	17.50		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	5.11	72.49	16.59	3.98	65,0	±9.6 %
	THE SAME IN COLUMN TO A COLUMN	Υ	4.96	72.88	16.98		65.0	
PHOTOGRAPH SAN AND AND AND AND AND AND AND AND AND A	, , , , , , , , , , , , , , , , , , ,	Z	4.87	73.13	17.10		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	4.91	75.48	18.15	3.98	65.0	± 9.6 %
		Y	5.27	77.64	19.36		65.0	
		Z	5.10	77.97	19.55	}	65.0	
10247- CAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	4.83	72.50	17.62	3.98	65.0	±9.6 %
		Υ	4.81	73.23	18.21		65.0	
	WANTED BOOK OF THE PROPERTY OF	2	4,54	72.95	18.13		65.0	
10248- CAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	×	4.83	72.02	17.40	3.98	65.0	± 9.6 %
		Υ	4.80	72.67	17.95		65.0	
		Z	4.50	72.24	17.79		65.0	
10249- CAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	×	6.13	79.13	20.55	3.98	65.0	± 9.6 %
		Υ	6.59	81.48	21.84		65.0	
		Z	6.42	82.04	22.21		65.0	The state of the s
10250- CAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	5.84	75.38	20.54	3.98	65.0	±9.6%
	The state of the s	Y	5.73	75.80	21.05		65.0	
		Z	5.41	75.46	21.07		65.0	
10251- CAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	Х	5.56	73.33	19.31	3.98	65.0	±9.6%
	77 7977011871477 758144887	Y	5.48	73.81	19.83		65.0	
		_Z	5.13	73.20	19.67		65.0	
10252- CAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	×	6.58	79.52	21.71	3.98	65.0	±9.6%
		Υ	6.77	81,11	22.75		65.0	
1000	1 Marie Mari	Z	6.42	81.09	22.98		65.0	
10253- CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	×	5.68	72.66	19,41	3.98	65.0	±9.6%
	111000AMANUARAM	Υ	5.58	72.99	19.88		65.0	7001000
		Z	5.23	72.31	19.69		65.0	
10254- CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	6.04	73.60	20.14	3.98	65.0	±9.6%
		Y	5.91	73.85	20.56	*-	65.0	LV-44
		Z	5.56	73.24	20.42		65.0	

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10255- CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	6.23	76.59	20.84	3.98	65.0	±9.6%
TOTAL TANKS TO A STATE OF THE S	THE PROPERTY OF THE PROPERTY O	Y	6.24	77.48	21.59	········	65.0	
		Z	5.87	77.13	21.66		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	3.95	68.92	13.98	3.98	65.0	±9.6 %
STATE OF THE PARTY NAMED IN COLUMN		Y	3.82	69.23	14.29		65.0	
		Z	3.62	68.96	14.12		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	3.87	68.34	13.61	3.98	65.0	± 9.6 %
		Y	3.72	68.54	13.87		65.0	
		Z.	3.50	68.15	13.62		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	3.64	70.79	15.29	3.98	65.0	±9.6%
		Y	3.77	72.19	16.18		65.0	
		Z	3,49	71.75	15.95		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	5.23	73.61	18.69	3.98	65.0	±9.6%
		Y	5.19	74.27	19.27		65.0	
4		Z	4.91	74-00	19.24		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	5.26	73.37	18.60	3.98	65.0	± 9.6 %
		ΙΥ	5.21	73.96	19.14		65.0	
		Z	4.92	73.65	19.08		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	6.03	78.54	20.75	3.98	65.0	±9.6%
	The state of the s	Y	6.30	80.40	21.88		65.0	
		Z	6.03	80.58	22.14		65.0	
10262- CAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	5.82	75.32	20.49	3.98	65.0	±9.6%
and Parace at Linguist Color, Oct Colors.	A A PARAMETER METER AND THE PARAMETER AND THE PA	Y	5.71	75.75	21.01		65.0	
	A CONTRACTOR OF THE PROPERTY O	Z	5.40	75.40	21.02		65.0	
10263- CAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.55	73.31	19.30	3.98	65.0	±9.6 %
W. A. CALLES AND		Y	5.47	73.78	19.82		65.0	
	1 CONTRACTOR OF CONTRACTOR	Z	5.12	73.17	19.66		65.0	
10264- CAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	6.52	79.33	21.61	3.98	65.0	±9.6 %
		Y	6.71	80.91	22.65	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	65.0	
	The second secon	Z	6.35	80.86	22.87	THE PART OF THE PA	65.0	
10265- CAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.79	73.14	19.64	3.98	65.0	±9.6 %
The state of the s	MARK TO THE TOTAL OF THE TOTAL	Y	5.69	73.51	20.14		65.0	1
	A STATE OF THE STA	Z	5,32	72.78	19.95	WAR WINT TO THE	65.0	
10266- CAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	6.18	74.15	20.45	3.98	65.0	± 9.6 %
W. D. K. L. WOOD STATE OF THE S	The state of the s	Y	6.05	74.41	20.88	The second secon	65.0	
	The second secon	Z	5.69	73.79	20.76		65.0	
10267- CAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	Х	6.49	77.12	20.84	3.98	65.0	± 9.6 %
		Υ	6,54	78.13	21.64		65.0	
	4 ////////////////////////////////////	Z	6.18	77.88	21.77		65.0	
10268- CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	6.44	73.19	20.11	3.98	65.0	± 9.6 %
		Y	6.30	73.36	20.48		65.0	
		Z	5,93	72.66	20.31		65.0	
10269- CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	6.42	72.82	20.00	3.98	65.0	± 9.6 %
	ASSETTING TOTAL CONTROL OF THE PARTY OF THE	Y	6.28	72.95	20.36		65.0	1
	111111111111111111111111111111111111111	Z	5.92	72.25	20.17	-	65.0	
10270- CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.44	74.85	20.10	3.98	65.0	± 9.6 %
	Language Control Contr	Y	6.37	75.35	20.65	TO THE STATE OF TH	65.0	
							65.0	

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10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rei8.10)	X	2.62	66.84	15.50	0.00	150.0	±9.6 %
		Y	2.63	66.93	15.55		150.0	
	THE PROPERTY OF THE PROPERTY O	Z	2.67	67.49	15.87	<del> </del>	150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	×	1.68	68.72	16.12	0.00	150.0	± 9.6 %
		Y	1.71	69.00	16.29	İ	150.0	
	AUG. 800 (80. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1	Z	1.81	70.46	17.10		150.0	
10277- CAA	PHS (QPSK)	Х	2.43	61.92	7.59	9.03	50.0	±9.6 %
		Υ	2.33	61.95	7.56		50.0	
		Z	2.26	61.71	7.35		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	4.24	69.71	14.12	9.03	50.0	±9.6%
		Υ	4.66	71.76	15.19		50.0	
	THE PROPERTY OF THE PROPERTY O	Z	4.46	71.07	14.77		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	×	4.35	69.97	14.29	9.03	50.0	± 9.6 %
	The transfer of the transfer o	Y	4.80	72.06	15.37		50.0	
	THE	Z.	4.58	71.36	14.95	ANTONIA COMPANIA	50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	1.60	70.39	14.75	0.00	150.0	± 9.6 %
	THE THE WATER AND ALL PROPERTY OF THE PARTY	Υ	1.61	70.49	14.74		150.0	
	TOTAL	Z	1,93	73.32	15.74		150,0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	Х	0.91	67.29	13,28	0.00	150.0	± 9.6 %
	The second register of the second sec	Y	0.92	67.56	13.36		150.0	
		Z	1.08	70.23	14.41		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	х	1.42	74.36	16.84	0.00	150.0	± 9.6 %
		Y	1.48	74.91	17.00		150.0	
		Z	3.55	87.27	21.16		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	×	3.62	88.12	22.29	0.00	150.0	± 9.6 %
		Y	3.58	87.83	22.13		150.0	
	A 19/19/19	Z	100.00	135.26	33.90		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	Х	8.20	81.18	21.75	9.03	50.0	± 9.6 %
		Υ	10.64	86.73	24.13		50.0	
		Z	12.84	89.68	24.96		50.0	THE RESERVE THE PROPERTY AND PROPERTY.
10297- AAA	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	2.82	70.21	17,01	0.00	150.0	± 9.6 %
		Υ	2.82	70.27	17.09		150.0	
		Z	2.91	71.19	17.66		150.0	*
10298- AAB	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	1.65	68.70	14.63	0.00	150.0	± 9.6 %
		Υ	1.64	68.66	14.56		150.0	
	THE THE THE PARTY IN THE PARTY	Z	1.76	70.23	15.17		150.0	
10299- AAB	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	2.68	70.13	14.45	0.00	150.0	±9.6 %
	5	Y	2.37	68.79	13.81		150.0	THE PARTY OF THE P
		Z	2.65	70.42	14.42		150.0	
10300- AAB	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	×	1.90	64.95	11.24	0.00	150.0	± 9.6 %
	THE PARTY MANAGEMENT AND THE PARTY MANAGEMENT	Υ	1.75	64.29	10.86		150.0	
***************************************	A SAME AND A SAME AND A SAME AND A SAME A SA	Z	1.76	64.50	10.83		150.0	
10301- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	Х	4.64	65.14	17.34	4.17	50.0	± 9.6 %
		Υ	4.73	65.58	17.60		50.0	
	- ANTI-LINE AND ANTI-LINE AND ANTI-LINE AND ANTI-LINE AND	Ζ	4.69	65.68	17.65		50.0	
10302- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	×	5.17	65.96	18.16	4.96	50.0	±9.6%
	TO THE PARTY OF TH	Υ	5.23	66.31	18.39	TOTAL CONTROL AND ADDRESS OF THE PARTY OF TH	50.0	
		Z	5.17	66.24				

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10303- AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.92	65.61	17.99	4.96	50.0	± 9.6 %
		<del>                                     </del>	4.98	65.95	18.22		50.0	
		Ż	4.92	65.88	18.15		50.0	WATER TO STATE OF THE STATE OF
10304- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	x	4.73	65,49	17.50	4.17	50.0	± 9.6 %
	от при на при На при на принати на прина	Y	4.78	65.79	17.69		50.0	THE RESERVE TO A STREET OF THE PARTY OF THE
		Z	4.73	65.79	17.68		50.0	
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.47	67.82	19.70	6.02	35.0	±9.6 %
	•	Y	4.53	68.38	20.07	MILLION CONTRACTOR OF THE PROPERTY OF	35.0	
	The state of the s	Z	4.52	68.50	19.97		35.0	2.22.000
10306- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	Х	4.73	66.58	19.19	6.02	35.0	± 9.6 %
		Υ	4.78	67.05	19.51		35.0	
		Z	4.76	67.13	19.45		35.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	Х	4.64	66.81	19.18	6.02	35.0	±9.6 %
The state of the s	independent of the state of the	I Y	4.69	67.25	19.50		35.0	
		Z	4.66	67.32	19.43		35.0	
10308- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.62	67.03	19.33	6.02	35.0	±9.6%
		L Y	4.67	67.50	19.67		35.0	
		Z	4.65	67.57	19.60		35.0	
10309- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	Х	4.78	66.78	19.32	6.02	35.0	±9.6%
		Y	4.83	67.26	19.66	VA.1000/1100/044	35.0	
		Z	4.80	67.31	19.58		35.0	
10310- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Х	4.68	66.68	19.18	6.02	35.0	± 9.6 %
	Andreas Pillulitin / America sacure continue service - 1 - 1001	Y	4.73	67.14	19.51		35.0	***************************************
	The state of the s	2	4.71	67.23	19.45		35.0	
10311- AAA	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	3.19	69.45	16.63	0.00	150.0	±9.6%
	Ampairmassa 13470-7-11-11-11-11-11-11-11-11-11-11-11-11-1	Y	3.19	69.47	16.68		150.0	
	COLUMN CO	Z	3.28	70.27	17.19		150.0	
10313- AAA	IDEN 1:3	Х	3.39	71.53	15.33	6.99	70.0	± 9.6 %
AND ADDRESS OF THE PARTY OF THE PARTY		Y	3.84	74.67	17.07		70.0	
	THE PROPERTY OF THE PROPERTY O	Z	3.68	75.32	17.59		70.0	
10314- AAA	(DEN 1:6	X	4.74	77.93	20.58	10.00	30.0	± 9.6 %
		Y	5.68	82.49	22.80		30.0	
	The state of the s	Z	7.59	87.95	24.84		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	Х	1.10	64.08	15.50	0.17	150.0	± 9.6 %
		Y	1.11	64.14	15.63		150.0	<u> </u>
		Z	1.11	64.76	16.23		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	4.57	66.68	16.34	0.17	150.0	± 9.6 %
	14-40-	~	4.58	66.73	16.42		150.0	
		Z	4.56	66.88	16.57		150.0	
10317- AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	Х	4.57	66.68	16.34	0.17	150.0	±9.6%
		Y	4.58	66.73	16.42		150.0	
THE PERSON NAMED IN COLUMN NAM		Z	4.56	66,88	16.57	ļ	150.0	
10400- AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.69	67.07	16.39	0.00	150.0	±9.6 %
		Υ	4.69	67.09	16.44		150.0	1
WAR WAR THE THE TAX TH	AND THE PARTY OF T	Z	4.66	67.23	16.59		150.0	
10401- AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	Х	5.41	67.27	16.57	0.00	150.0	± 9.6 %
	MILE DESCRIPTION FROM THE PROPERTY OF THE PROP	Y	5.42	67.32	16.64		150.0	
		Z	5.42		16.78		150.0	

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10402- AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	×	5.65	67.51	16.55	0.00	150.0	± 9.6 %
	The state of the s	Y	5.65	67.50	16.58	<b>1</b>	150.0	
		Z	5.64	67.58	16.71	1	150.0	VICTORIAN CONTRACTORIAN CONTRA
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	×	1.60	70.39	14.75	0.00	115.0	± 9.6 %
		Y	1.61	70.49	14.74		115.0	
	OWNER TO A STATE OF THE STATE O	Z	1.93	73.32	15.74	1	115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.60	70.39	14.75	0.00	115.0	± 9.6 %
		Y	1.61	70.49	14.74		115.0	
40400		Z	1.93	73.32	15.74		115.0	THE RESERVE OF THE PARTY OF THE
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	×	100.00	123.00	30.86	0.00	100.0	± 9.6 %
		<u> Y</u>	77.31	122.16	31.13		100,0	
	777 777	Z	100.00	125.97	32.12		100.0	
10410- AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	26.89	103.16	25.36	3.23	80.0	± 9.6 %
		Y	65.26	118.95	30.06		80.0	
45445	TEEE OOD ALL MISSION AND AND AND AND AND AND AND AND AND AN	<u> </u>	100.00	128.22	32.85		80.0	
10415- AAA	IEEE 802.11b WIFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	×	1.03	63.36	15.05	0.00	150.0	±9.6%
THE STATE OF THE S	AND	Y	1.04	63.45	15.15		150.0	
	A SECOND	Z	1.05	64.09	15.75		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4,54	66.76	16.35	0.00	150.0	±9.6%
	THE PROPERTY OF THE PROPERTY O	I Y	4.53	66,77	16.39	<u> </u>	150.0	
101-11		Z	4.52	66.93	16.54		150.0	
10417- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	×	4.54	66.76	16.35	0.00	150.0	± 9.6 %
		Υ	4.53	66.77	16.39	}	150.0	
		Z	4.52	66.93	16.54		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4,53	66.93	16.38	0.00	150.0	± 9.6 %
	717/04/2/15/14/11/14/14/14	Y	4.53	66.94	16.42		150.0	
		Z	4.52	67.12	16.59		150.0	ULIW/ISTANIAULINIS
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.55	66.87	16.38	0.00	150.0	± 9.6 %
		Y	4.55	66.88	16.41		150.0	CARRELL LINE
TOTAL TO STORY		Z	4.53	67.06	16.58		150.0	
10422- AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	×	4.66	66.86	16.38	0.00	150.0	± 9.6 %
	The state of the s	Y	4.66	66.87	16.42		150.0	
		Z	4.64	67.03	16.58		150.0	
10423- AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	Х	4.82	67.16	16.49	0.00	150.0	± 9.6 %
· · · · · · · · · · · · · · · · · · ·	THE TOTAL AND ADDRESS OF THE TOTAL AND ADDRESS OF THE TOTAL ADDRESS OF T	Υ	4.81	67.17	16.53	TITS TO THE PARTY OF THE PA	150.0	
		Z	4.79	67.32	16.68		150.0	
10424- AAA	HEEE 802.11n (HT Greenfield, 72.2 Mbps. 64-QAM)	Х	4.75	67.12	16.47	0.00	150.0	± 9.6 %
		Υ	4.74	67.13	16.51		150.0	Transfer Market
	TOTAL CONTRACTOR OF THE CONTRA	Z	4.72	67.28	16.66		150.0	
10425- AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	×	5.35	67.40	16.64	0.00	150.0	± 9.6 %
THE THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRE		Y	5.35	67.39	16.67		150.0	
	713967496244	Z	5.34	67.51	16.82		150.0	
10426- AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	×	5.37	67.46	16.66	0.00	150.0	± 9.6 %
		Y	5.37	67.48	16.72		150.0	TO THE REAL PROPERTY.

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10427-	IEEE 802.11n (HT Greenfield, 150 Mbps.	X	5.37	67.41	16.64	0.00	150.0	±9.6 %
AAA	64-QAM)			07.41	10.0.7	V.VV	100.0	10.0 10
		Υ	5.37	67.41	16.68		150.0	
	A STATE OF THE STA	Z	5,36	67.51	16.81		150.0	
10430- AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	Х	4.40	71.78	18.71	0.00	150.0	± 9.6 %
		Υ	4.28	71.24	18.39		150.0	
		Z	4.51	72.71	19.15		150.0	
10431- AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	×	4.21	67.36	16.36	0.00	150.0	±9.6%
	The state of the s	Y	4.20	67.38	16.38	Version and second	150.0	
		Z.	4.19	67.63	16.57	0.00	150.0	
10432- AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.51	67.19	16.42	0.00	150.0	±9.6%
	HI CANADA BARRANIA MARTINIA MA	Y	4.51	67.21	16.46		150.0 150.0	
40400	A WAR IMPART COMPLETE AND CONTRACT TO A STATE OF THE CONTRACT	and the second second second	4.49	67.40	16.63	0.00	150.0	±9.6%
10433- AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.76	67.15	16.49 16.53	0.00	150.0	± 9.0 %
	AND	Y	4.75	67.16	farear			
	MI OCIMAN (DO Tant Manda) 4 O4 DDOLD	Z X	4.74 4.57	67.31 72.88	16.68 18.75	0.00	150.0 150.0	±9.6%
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	×	4.57	72.88	18.37	0.00	150.0	1 5.0 %
The Principle of the Committee of the Co	www.neurone.neurone.neurone.neurone.neurone.neurone.neurone.neurone.neurone.neurone.neurone.neurone.neurone.ne	Z	4.74	74.03	19.23		150.0	
10435	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	X	23.98	101.49	24.88	3.23	80.0	± 9.6 %
10435- AAA	QPSK, UL Subframe=2,3,4,7,8,9)	Y	57.01	116.87	29.52	3.20	80.0	M. 37.0 70
			100.00	127.95	32.72		80.0	
40447	LITE CODYOCOMA E MH- E TM 2 1	X	3.51	67.45	15.67	0.00	150.0	±9.6%
10447- AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)					0.00		13.0 %
		<u></u>	3.50	67.46	15.66	AND ASSESSMENT OF THE PARTY OF	150.0	1
		Z	3.50	67.83	15.84 16.22	0.00	150.0	± 9.6 %
10448- AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	Х	4.06	67.15		0.00	150.0	±9.6 %
		Y	4.05	67.16	16.25		150.0 150.0	
	The second secon	Z	4.04	67.42	16.44	0.00	150.0	± 9.6 %
10449- AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.33	67.03	16.33	0.00		±9.0 %
	The state of the s	Y	4.33	67.04	16.36		150.0	
	The Landon Association (Control of Control o	Z	4.32	67.24	16.54		150.0	
10450- AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.53	66.93	16.35	0.00	150.0	± 9.6 %
	A STATE OF THE STA	Y	4.53	66.93	16.39		150.0	
			4.51	67,10	16.55	0.00	150.0	±9.6 %
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.40	67.62	15.26	0.00	150.0 150.0	T 9.0 %
		Y	3.38 3.37	67.60 67.97	15.22 15.37	<del> </del>	150.0	
10456- AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.23	67.93	16.78	0.00	150.0	± 9.6 %
	sopo daty dyore)	Y	6.24	67.95	16.83		150.0	1
		Ż	6.26	68.10	16.98		150.0	Yen.
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.80	65.40	16.06	0.00	150.0	± 9.6 %
		Y	3.81	65.41	16.10		150.0	
	ALL DE LA CANADA CONTRACTOR DE	2	3.81	65.58	16.26	- I AVERTAGE	150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	×	3.20	66.84	14.56	0.00	150.0	±9.6%
	- Control Cont	Y	3.18	66.85	14.53		150.0	
	The state of the s	Z	3.14	67.02	14.51		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	×	4.34	65.37	15.67	0.00	150.0	± 9.6 %
	- ALASON AND AND AND AND AND AND AND AND AND AN	Y	4.35	65.51	15.73		150.0	
		Z	4.29	65.59	15.73		150.0	

10460- AAA	UMTS-FDD (WCDMA, AMR)	X	0.97	69.65	17.12	0.00	150.0	±9.6 %
TOTO TANDETT TO THE TOTO TO THE TANDET		Υ	1.01	70.19	17.44		150.0	***************************************
		Ż	1.16	73.58	19.25		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	13.01	96.24	24.46	3.29	80.0	± 9.6 %
		Υ	25.30	108.79	28.60		80.0	***************************************
		Z	100.00	132.41	34.87		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.27	62.76	9.64	3.23	80.0	±9.6%
		Υ	1.56	65.80	11.40		80.0	
40400		Ż	3.78	75.24	15.16		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.98	60.10	7.84	3.23	80.0	± 9.6 %
		Y	1.03	61.37	8.81		80.0	
10464-	LIE TOD (CO COMA 4 DD 2 ML	Z	1.26	63.57	10.06	0.00	80.0	
AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)		8.77	89.81	21.97	3.23	80.0	± 9.6 %
	· · · · · · · · · · · · · · · · · · ·	Y	21.26	104.54	26.77	<del> </del>	80.0	
10465-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-	Z	100.00	129.51	33.34	0.00	80.0	(000
AAA	QAM, UL Subframe=2,3,4,7,8,9)		1,19	62.09	9.26	3.23	80.0	±9.6 %
		Y	1.37	64.51	10.77		80.0	
10466-	1 75 755 755 5514 4 55 5 1411- 64	Z	2.42	70.65	13.49		80.0	
AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	0.97	60.00	7.74	3.23	80.0	±9.6%
	· · · · · · · · · · · · · · · · · · ·	Y	0.98	60.87	8.50		80.0	
10467-	LITE TOD YOU FOMA A FID EARLY	Z	1.14	62.59	9.55	1	80.0	
AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	10.05	91.68	22.54	3.23	80.0	±9.6%
		Y	25.94	107.42	27.53		80.0	
10460	LITE TOO YOU COME A DD CAME AS	Z	100.00	129.89	33.51		80.0	
10468- AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	1.20	62.26	9.36	3.23	80.0	±9.6 %
		Y Z	1.42	64.84	10.94		80.0	
10469-	LTE TOD (CO PDAY 4 DD EASTE CA		2.69	71.75	13.91		80.0	
AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	0.97	60.00	7,74	3.23	80.0	±9.6%
**************************************	THE THE THE THE TAX TO	Y	0.98	60.88	8.51		80.0	
10470-	LITE TOD (CO CDAA) 4 OD 40 MIL		1.14	62.63	9.57		80.0	
AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	10.09	91.74	22.55	3.23	80.0	± 9.6 %
	THE CONTRACTOR OF THE CONTRACT	Y	26.36	107.67	27.59		80.0	
10471- AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	1.20	129.94 62.21	9.33 9.33	3.23	80.0	± 9.6 %
		Y	1,41	64.78	10.89	TOTO CONTROL OF STREET AND	0.08	
W. Carrier	THE TRANSMISSION OF THE TR	ż	2.65	71.59	13.84		80.0	VIII. 100 100 100 100 100 100 100 100 100 10
10472- AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	×	0.97	60.00	7.72	3.23	80.0	± 9.6 %
	The state of the s	Υ	0.97	60.85	8.48		80.0	
	7 10 17 1 18 18 18 18 18 18 18 18 18 18 18 18 1	Z	1.13	62.57	9.53		80.0	## <b></b>
10473- AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	10.03	91.65	22.52	3.23	80.0	± 9.6 %
	THE CONTROL OF THE CO	Υ	26.26	107.59	27.56		80.0	
40474	A market specific and a second specific and	Z	100.00	129.89	33.50		80,0	
10474- AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	1.19	62.19	9.31	3.23	80.0	± 9.6 %
	THE TAX	Υ	1.40	64.74	10.88		80.0	
404""	- The state of the	Z	2.62	71.49	13.80		80.0	
10475- AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.97	60.00	7.72	3.23	80.0	± 9.6 %
	TO COMPANY OF THE PARTY OF THE	Y	0.97	60.83	8.47		80.0	
		Z	1.13	62.55	9.52		80.0	THE STATE OF THE S

454**	المراق	T - 52 - 3				0.00	00.0	1 4000
10477- AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	×	1.18	62.04	9.22	3.23	80.0	± 9.6 %
7001	1 WAIVI, OL SUBITATIVE=2,5,4,7,6,9)	Y	1.36	64.46	10.73		80.0	
		Ż	2.42	70.64	13.46		80.0	
10478-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-	X	0.97	60.00	7.71	3.23	80.0	±9.6%
AAA	QAM, UL Subframe=2,3,4,7,8,9)	^	4.01	00.00		0.20	00.0	1 20,0 10
		7	0.97	60.79	8.44		80.0	
		Z	1.12	62.48	9.47		80.0	
10479-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	X	5.79	81.61	21.14	3.23	80.0	±9.6%
AAA	QPSK, UL Subframe=2,3,4,7,8,9)						}	
		Y	6.43	84.35	22.44		80.0	
MARIE	7 103 103 103 103 103 103 103 103 103 103	Z	16.50	99.91	27.42		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	4.79	74.80	16.89	3.23	80.0	±9.6 %
7777	10-QAM, OL GODITATIO—2,0,4,7,0,0)	Y	5.51	77.56	18.15		80.0	<del> </del>
		Z	13.07	89.27	21.96		80.0	
10481-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	$\frac{1}{x}$	3.83	71,49	15.26	3.23	80.0	± 9.6 %
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)						ĺ	1 10.0 70
/400004754800448044FFFFFFFFFFFFFF	1 NAME OF THE PROPERTY OF THE	Y	4.32	73.83	16.40		80.0	-
10100		Z	7.99	81.95	19.25	0.00	80,0	1.000
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	2.47	69.00	15.16	2.23	80.0	±9.6%
		Υ	2.80	71.35	16.40		80.0	
		Z	3.21	74.01	17.48		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.29	69.29	14.76	2.23	80.0	±9.6%
747		Y	3.39	70.23	15.29		80.0	
	-	Z	4.28	73.73	16.66		80.0	The state of the s
10484-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.15	68.51	14.43	2.23	80.0	±9.6%
AAA	04-0/A)VI, OL 300112H6-2,3,4,7,0,5)	Y	3.21	69.27	14.89	**************************************	80.0	
		Z	3.83	72.02	15.99		80.0	· · · · · · · · · · · · · · · · · · ·
10485-	LTE-TDD (SC-FDMA, 50% RB, 5 MHz,	X	2.94	71.17	17.10	2.23	80.0	± 9.6 %
AAA	QPSK, UL Subframe=2,3,4,7,8,9)	\ \ \	2.04	70.00	40.56		80.0	
		<u>Y</u>	3.21	73.22	18.25		80.0	-
40400	TE TOP (CO FDAM FOR DD FAMILE	<del>  \</del>	3.59 2.90	75.77 67.79	19.41 15.13	2.23	80.0	± 9.6 %
10486- AAA	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)					2.23		2 3.0 78
		Y	3.04	68,91	15.82		80.0	
		Z	3.16	70.10	16.36		80.0	<del> </del>
10487- AAA	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.91	67.46	14.97	2.23	80.0	± 9.6 %
	The second secon	Υ	3.03	68.48	15.61		80.0	
	WAA ALAWAP WAY PROMINENCE TO THE TOTAL TOT	Z	3.12	69.51	16.08		80.0	
10488- AAA	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.33	71.07	17.85	2.23	80.0	± 9.6 %
.,,,,,,,	and the first of t	Y	3.47	72.31	18.69		80.0	100
	***************************************	Z	3.56	73.52	19.42		80.0	i
10489- AAA	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.34	68.19	16.65	2.23	80.0	± 9.6 %
~~~	10-901M, OL SUBIRATIO-2,3,4,1,0,3)	Y	3.37	68.78	17.15		80.0	
ALBERT CONTRACTOR CONT		Ż	3,38	69.44	17.59	description of the second	80.0	
10490-	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.43	68.08	16.62	2.23	80.0	± 9.6 %
AAA	QT-QCM, OL GODRAME-Z,0,4,7,0,0)	Υ	3.46	68.63	17.09	1	80.0	<del>-</del>
w	The state of the s	Ż	3.46	69.22	17.49	1	80.0	1
10491-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	X	3.62	69.97	17.57	2.23	80.0	± 9.6 %
AAA	QPSK, UL Subframe=2,3,4,7,8,9)	u dimensioni di sami		19 pt. 10 TU	40 40		1 000	1
	The state of the s	Y	3.69	70.77	18.19		80.0	
	The second control of	Z	3.69	71.42	18.69	7 72	80.0	± 9.6 %
10492- AAA	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	3.72	67.69	16.79	2.23	80.0	E 9.0 70
Corest Ability Miles III	The second secon	I Y	3.72	68.05	17.17		80.0	
	and the state of t	Z	3,67	68.35	17.46		80.0	1

10493-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	X	3.78	67.60	16.76	2.23	80.0	± 9.6 %
AAA	64-QAM, UL Subframe=2,3,4,7,8,9)					<u></u>		
		Y	3.78	67.93	17.12		80.0	
******	The state of the s	Z	3.73	68.20	17.39		80.0	APPLICATION OF THE PROPERTY OF
10494- AAA	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.87	71.24	17.95	2.23	80.0	±9.6%
		Y	3.99	72.22	18.65		80.0	
	\	Z	4.03	73.07	19.24		80.0	
10495- AAA	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	3.74	68.03	16.97	2.23	80.0	±9.6 %
		Y	3.74	68,39	17.36	ļ	80.0	
		Z	3.70	68.69	17.67		80.0	
10496- AAA	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.83	67.82	16.92	2.23	80.0	± 9.6 %
		Υ	3.82	68.14	17.28		80.0	-
		Z	3.77	68.40	17.57		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.73	64.57	12.13	2.23	80.0	±9.6 %
LEAVING FROM LAND AND AND AND AND AND AND AND AND AND	AND	Y	1.89	66.21	13.07		80.0	
10100	A MATTER TORONOON, AND AND AND AND A LOCAL AND AND A	Z	1.94	67.06	13.33		80.0	- Anne Company of the
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.45	60.47	9.01	2.23	80.0	± 9.6 %
		Y	1.44	60.77	9.25		80.0	
		Z	1,30	60.18	8.72	***************************************	80.0	1920-1004 IV EMELLONIANO CONTROL SERVE
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.42	60.06	8.65	2.23	80.0	±9.6 %
		Y	1.40	60.27	8.83		80.0	
		Z	1.30	60.00	8.46		80.0	
10500- AAA	LTE-TOD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2.3.4.7,8,9)	Х	3.07	70.94	17.34	2.23	80.0	± 9.6 %
THE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	700 70.07.270.00.00.00.00.00.00.00.00.00.00.00.00.0	Υ	3.27	72.59	18.34		80.0	
		Z	3.49	74,45	19.27		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	3.11	68.08	15.77	2.23	80.0	± 9.6 %
	1 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -	Υ	3.21	69.00	16.39		80.0	1
		Z	3.29	70.01	16.91		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe≃2,3,4,7,8,9)	Х	3,17	67.96	15.66	2.23	80.0	±9.6%
		Y	3.26	68.84	16.25		80.0	
		Z.	3.33	69.79	16.73		80.0	
10503- AAA	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.29	70.88	17.75	2.23	80.0	± 9.6 %
		Υ	3.43	72.12	18.59		80.0	
	The same of the sa	Z	3.51	73.29	19.30		80.0	
10504- AAA	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.32	68.10	16.59	2.23	80.0	±9.6%
	TO THE	Y	3.36	68.70	17.09		80.0	
	- marrowaling site of the same	Z	3.36	69.33	17.52		80.0	
10505- AAA	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	3.41	67.99	16.56	2.23	80.0	± 9.6 %
		<u> Y</u>	3.44	68.54	17.03		80.0	#11man-rank
40000	TOTAL SALES AND	Z	3.44	69.11	17.43		80.0	
10506- AAA	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.84	71.10	17.88	2.23	80.0	±9.6%
	- THE TOTAL WAS AND A STATE OF THE TOTAL WAS	Y	3.96	72.09	18.58		80.0	
4050-	TENNE AND THE MARKET AND THE MARKET AND THE PARTY AND THE	_ <u>Z</u>	4.00	72.91	19.15		80.0	
10507- AAA	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.73	67. <del>9</del> 6	16.93	2.23	80.0	± 9.6 %
		Υ	3.73	68.33	17.33		80.0	
		Z	3.69	68.63	17.63		80.0	

10508- AAA	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.81	67.75	16.88	2.23	80.0	± 9.6 %
	n for a morning or a morning and a morning data desired and a morning an	Y	3.81	68.07	17.24	THE PROPERTY OF THE PROPERTY OF	80.0	
PPT-11900-1100-2019 St. V SILVA-2012-20		2	3.76	68.32	17.52		80.0	WARREST AND STREET AND STREET AND STREET AND STREET
10509- AAA	LTE-TDD (SC-FDMA, 100% R8, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.23	70,18	17.53	2.23	80.0	±9.6 %
	The state of the s	Y	4.29	70.82	18.06		80.0	N. P. L. L. D. V. P. L. D. V.
		Z	4.28	71.32	18.48		80.0	
10510- AAA	LTE-TDD (SC-FDMA, 100% RB, 15 MH2, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	4.22	67.83	17.01	2.23	80.0	±9.6%
	· · · · · · · · · · · · · · · · · · ·	Y	4.21	68.06	17.32	1	80.0	
		Z	4.14	68.17	17.53		80.0	
10511- AAA	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.29	67.62	16.96	2,23	80.0	± 9.6 %
		Y	4.27	67.83	17.26		80.0	
		Z	4.19	67.92	17.45	ALBOAR SPONSON SERVICES	80.0	
10512- AAA	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	4.35	71.44	17.89	2.23	80.0	±9.6%
		Y	4-47	72.32	18.53	www.moommo	80.0	
and an annual and an annual and an annual and an	THE TREATMENT WITH THE WITH THE PARTIES OF THE TREATMENT	Z	4.51	73.01	19.04		80.0	
10513- AAA	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	4.10	68.03	17.08	2.23	80.0	± 9.6 %
	The state of the s	Y	4.10	68.29	17.42		80.0	
		Z	4.03	68.42	17.65		80.0	
10514- AAA	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.14	67.68	16.99	2.23	80.0	± 9.6 %
		Υ	4.12	67.89	17.30		80.0	
		Z	4.05	67.99	17.51	and the second s	80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	Х	0.99	63.57	15.14	0.00	150.0	± 9.6 %
		Y	1.00	63.68	15.25		150.0	
		Z	1.01	64.39	15.89	5.55	150.0	± 9.6 %
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.69	73.01	18.96	0.00	150.0	±9.0%
			0.76	74.60 83.38	19.76 23.78	<u> </u>	150.0	
10517-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Z	1.14 0.85	65.81	15.99	0.00	150.0	±9.6 %
AAA	Mops, 99pc duty cycle)	Ŷ	0.87	66.06	16.18	0.00	150.0	25.070
	LOCAL CONTROL OF A STATE OF THE	Z	0.91	67.57	17.27	· · · · · · · · · · · · · · · · · · ·	150.0	ALAY-
10518- AAA	IEEE 802.11a/n WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.53	66.84	16.33	0.00	150.0	± 9.6 %
	name of the second seco	Y	4.53	66.85	16.37	THE PERSON NAMED IN COLUMN	150.0	
	100001000000000000000000000000000000000	Z	4.51	67.02	16.53	- way was a second	150.0	
10519- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	×	4.71	67.05	16.44	0.00	150.0	± 9.6 %
	2-10-10-10-10-10-10-10-10-10-10-10-10-10-	Υ	4.70	67.06	16.48		150.0	
Marketon Commence		Z	4.68	67.22	16.63		150.0	
10520- AAA	JEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.56	67.02	16.37	0.00	150.0	± 9.6 %
	The state of the s	Y Z	4,55	67.02 67.18	16.40 16.56		150.0 150.0	
10521- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.54 4.50	67.01	16.36	0.00	150.0	± 9.6 %
~~~~~	mops, oops dary sjois)	Y	4.49	67.01	16.39	<b>t</b>	150.0	The same of the sa
	NO. AND	Z	4,47	67.17	16.55		150.0	
10522- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.56	67.12	16.45	0.00	150.0	±9.6%
	2 - Carl Control of the State o	Υ	4,55	67.13	16.49		150.0	The state of the s
	1	Z	4.53	67.31	16.65	I '	150.0	

10523-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	X	4,44	67.00	16.31	0.00	150.0	± 9.6 %
AAA	Mbps, 99pc duty cycle)							
	The state of the s	Υ	4.44	67.02	16.35		150.0	1
		Z	4.43	67.22	16.53		150.0	
10524- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	Х	4.50	67.04	16.42	0.00	150.0	<b>≠9.6%</b>
PARTITION OF WHITE WATER	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Υ	4.49	67.05	16.45		150.0	
		Z	4,48	67.23	16.62		150.0	
10525- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	Х	4.50	66.10	16.02	0.00	150.0	±9.6 %
		Υ	4.49	66.11	16.05		150.0	
		Z	4.49	66.30	16.23		150.0	
10526- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	×	4.66	66.45	16.15	0.00	150.0	±9.6%
***************************************		Υ	4.65	66.46	16.19		150.0	
	THE	Z	4,64	66.63	16.36		150.0	
10527- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	Х	4.58	66.42	16,10	0.00	150.0	±9.6 %
	APPA (CONTINUATION L. L. L. L. L.	Υ	4.57	66.42	16.13		150.0	
	THE THE THE TANKE THE THE THE THE THE THE THE THE THE TH	Z	4.56	66.61	16.30		150.0	
10528- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	Х	4.60	66.43	16.13	0.00	150.0	± 9.6 %
	THE PROPERTY OF THE PROPERTY O	Υ	4.59	66.43	16.16		150.0	
•	1		4.58	66.62	16.33		150.0	
10529- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	Х	4.60	66.43	16.13	0.00	150,0	± 9.6 %
	WILLIAM TO THE TOTAL THE TOTAL TO AL TO THE	Y	4.59	66.43	16.16		150.0	
M. 1877		Z	4.58	66.62	16.33		150.0	
10531- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	Х	4.58	66.52	16.14	0.00	150.0	±9.6%
		Υ	4.57	66.52	16.17		150.0	
		Z	4.56	66.70	16.34	}	150.0	
10532- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	Х	4.45	66.38	16.07	0.00	150.0	±9.6%
	W. AND	Y	4.44	66.38	16.10		150.0	
		Z	4.43	66.56	16.28		150.0	
10533- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	Х	4.61	66.49	16.12	0.00	150.0	± 9.6 %
	THE REAL PROPERTY AND PARTY AND PART	Y	4,60	66.50	16.16		150.0	
		Z	4.59	66.69	16.34	ANTONIA ENGLISHMENT	150.0	
10534- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.13	66.49	16.17	0.00	150.0	±9.6%
79774.418.418.418.41	The state of the s	Y	5.13	66.48	16.20		150.0	AMERICA SERVICE SERVIC
		2	5.12	66.61	16.35		150.0	
10535- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.20	66.68	16.26	0.00	150.0	± 9.6 %
		Υ	5.20	66.68	16.30		150.0	nneu div
		Z	5.19	66.81	16.45		150.0	
10536- AAA	IEEE 802,11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.07	66.63	16.21	0.00	150.0	± 9.6 %
		Υ	5.07	66.63	16.25		150.0	
	TO STORAGE STATE OF THE STATE O	Z	5.07	66.78	16.41	TANKA MARIN	150.0	
10537- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	×	5.13	66.59	16.20	0.00	150.0	±9.6 %
		Y	5.12	66.59	16.23		150.0	
40500	The first war and the second s	Z	5.12	66.73	16.39		150.0	
10538- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	×	5.21	66.60	16.24	0.00	150.0	± 9.6 %
		Y	5.21	66.59	16.27	W. W	150.0	
10510		Z	5.20	66.72	16.42		150.0	
10540- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	×	5.15	66.62	16.26	0.00	150.0	± 9.6 %
	THE STATE OF THE S	Y	5.14	66.60	16.29		150.0	-Mail 0-3-203
		Z	5.13	66.71	16.44		150.0	

10541-	IEEE 802.11ac WiFi (40MHz, MCS7,	TxI	5.12	66.49	16.19	0.00	150.0	± 9.6 %
ААА	99pc duty cycle)	``	0.12	00.40	10.75	9.00	1,00,0	0.0 70
		Y	5.12	66.48	16.22		150.0	
***************************************	The state of the s	12	5,11	66.59	16.36		150.0	
10542- AAA	IEEE 802.11ac WIFi (40MHz, MCS8, 99pc duty cycle)	X	5.27	66.56	16.24	0.00	150.0	± 9.6 %
	The second secon	Υ	5.27	66.55	16.27		150.0	
	The state of the s	Z	5.26	66.67	16.42		150.0	
10543- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.34	66.58	16.27	0.00	150.0	± 9.6 %
····		Y	5.34	66.57	16.30	***************************************	150.0	
10544-	IEEE 802.11ac WiFi (80MHz, MCS0,	Z	5.32	66.68	16.44	0.00	150.0	
AAA	99pc duty cycle)	×	5.45	66.59	16.16	0.00	150.0	±9.6 %
THE PERSON NAMED IN COLUMN 1 IN COLUMN 1		<u> </u>	5,45	66.58	16.19		150.0	
10545-	IEEE 802.11ac WiFi (80MHz, MCS1,	Z	5.45 5.65	66.68 67.02	16.33 16.32	0.00	150.0 150.0	± 9.6 %
AAA	99pc duty cycle)	^ 	5.65	67.03	16.37	0.00	150.0	£ 9.0 %
	TO THE POST OF POST OF PARTY OF THE PARTY OF	Z	5.65	67.16	16.52		150.0	
10546-	IEEE 802.11ac WIFI (80MHz, MCS2,	X	5.51	66.78	16.52	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)	<del> </del>	5.51	66.76	16.25	U.VU	150.0	.k 3.0 70
/*/***////////////////////////////////	THE RESIDENCE OF THE PROPERTY	Ż	5.50	66.85	16.38		150.0	
10547-	IEEE 802.11ac WiFi (80MHz, MCS3,	X	5.58	66.83	16.23	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)	Y	5.58	66.82	16.27	0,00	150.0	4.0.0 70
<u> </u>	The state of the s	Ż	5.58	66.92	16.41		150.0	
10548- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	x	5.82	67.72	16.65	0.00	150.0	± 9.6 %
		Y	5.82	67.73	16.70		150.0	
***************************************		Ż	5.82	67.86	16.84		150.0	
10550- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.54	66.83	16.25	0.00	150.0	±9.6%
THE RESERVE TO SERVE	THE PROPERTY OF THE PROPERTY O	Y	5.55	66.84	16.30		150.0	
		Z	5,55	66.98	16.45		150.0	
10551- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	Х	5.54	66.85	16.23	0.00	150.0	± 9.6 %
		Y	5.54	66.83	16.26		150.0	
		Z	5.53	66.91	16.38		150.0	
10552- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.46	66.66	16.14	0.00	150.0	±9.6 %
		Y	5.46	66.65	16.17		150.0	
		Z	5.46	66.76	16.31		150.0	
10553- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	×	5.54	66.68	16.18	0.00	150.0	±9.6 %
		Y	5.54	66.66	16.21		150.0	
		Z	5.53	66.75	16.33		150.0	
10554- AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	Х	5.86	66.95	16.24	0.00	150.0	±9.6%
		Y	5.87	66.94	16.27		150.0	
4.5 F. S. C.	and a continuous management of the continuous continuous continuous continuous continuous continuous continuous	<u> </u>	5,87	67.02	16.40		150.0	
10555- AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.99	67.24	16.37	0.00	150.0	±9.6%
		Y	5.99	67.24	16.41		150.0	WANTED WINTER TO THE TOTAL TOT
10556-	IEEE 1602.11ac WiFi (160MHz, MCS2,	Z X	6.00 6.01	67.33 67.30	16.53 16.39	0.00	150.0 150.0	± 9.6 %
AAA	99pc duty cycle)	7	6.02	67.29	16.43		150.0	
		Z	6.02	67.39	16.56	·····	150.0	
10557-	IEEE 1602.11ac WiFi (160MHz, MCS3,	+ <del>x</del>	5.97	67.18	16.35	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)					5.00		
		Y	5.97	67.17	16.38		150.0	
***************	MILITER METERS AND A STATE OF THE STATE OF T	Z	5.97	67.25	16.50		150.0	Landerson

10558- AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.02	67.34	16.44	0.00	150.0	± 9.6 %
		Y	6.02	67.33	16.48		150.0	1
	W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-	ż	6.02	67.41	16.60		150.0	I SANTAL SANTA CONTRACTOR OF THE SANTAL SANTAN
10560- AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.01	67.19	16.40	0.00	150.0	± 9.6 %
		Y	6.01	67.17	16.44		150.0	]
		Z	6.01	67.25	16.56		150.0	
10561- AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.94	67.17	16.43	0.00	150.0	± 9.6 %
		Υ	5.94	67.16	16.47		150.0	
		Z	5.94	67.25	16.59		150.0	
10562- AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	×	6.05	67.50	16.60	0.00	150.0	± 9.6 %
		Y	6.04	67.48	16.63		150.0	<u> </u>
		Z	6.03	67.53	16,73		150.0	
10563- AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.18	67.54	16.57	0.00	150.0	± 9.6 %
		7	6.16	67.46	16.58		150.0	
		Z	6.13	67.46	16.66		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	×	4.85	66.86	16.45	0.46	150.0	±9.6%
		Y	4.85	66.90	16.51		150.0	
		Z	4.83	67.01	16.63		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	5.07	67.31	16.78	0.46	150.0	± 9.6 %
	THE THE STREET CONTROL OF THE STREET CONTROL	Υ	5.07	67.32	16.82		150.0	
		Z	5.04	67.46	16.96		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Х	4.91	67.14	16.58	0.46	150.0	± 9.6 %
	TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN	Y	4.90	67.16	16.63		150.0	XXIII XXII XXII XXII XXII XXII XXII XX
	1	Z	4.88	67.28	16.77	**************************************	150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	×	4.94	67.56	16.96	0.46	150.0	± 9.6 %
		Y	4.93	67.55	16.99		150.0	
	A DOWN THE RESIDENCE AND A STATE OF THE PROPERTY AND A STA	Z	4.92	67.73	17.17		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	Х	4.81	66.90	16.33	0.46	150.0	± 9.6 %
	The state of the s	Y	4.81	66.96	16.42		150.0	
The state of the s	and the same of th	Z	4.78	67.05	16.52		150.0	· ·
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	4.90	67.67	17.03	0.46	150.0	± 9.6 %
		Y	4.89	67.66	17.06		150.0	
		Z	4.89	67.89	17.27		150.0	1
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	×	4.93	67.52	16.97	0.46	150.0	± 9.6 %
		Υ	4.92	67.51	16.99		150.0	MINISTER CONTRACTOR
		Z	4.91	67,69	17.17		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	1,18	64.49	15.64	0.46	130.0	± 9.6 %
		Υ	1.18	64.58	15.85		130.0	
		Z	1.17	65.05	16.37		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.19	65.08	16.01	0.46	130.0	±9.6 %
	- THE THE THE PARTY NAME OF THE PARTY OF THE	Υ	1.19	65.16	16.21		130.0	
	TO STANFOLD THE ST	Z.	1.19	65.73	16.80		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	Х	2.04	85.68	23.36	0.46	130.0	± 9.6 %
	THE THE PROPERTY AND ADDRESS.	Y	2.40	89.44	25.12		130.0	
	10-10-10-10-10-10-10-10-10-10-10-10-10-1	Z	5.21	105.54	30.78		130.0	**************************************
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	Х	1.32	71.14	19.11	0.46	130.0	± 9.6 %
	1,71,711,111,111,111,111,111,111,111,11	Y	1.31	71.08	19.29		130.0	

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	ТХ	4.62	66.58	16.43	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)	.						
		Y	4.62	66.64	16.52		130.0	
40570		<u>  Z  </u>	4.60	66.77	16.65		130.0	PATTERNA PARTICIPATO AND
10576- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	Х	4.65	66.76	16.50	0.46	130.0	±9.6%
		Υ	4.65	66.82	16.59		130.0	
	777 7667 (1000)	Z	4.63	66.97	16.74		130.0	
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	4.84	67.04	16.67	0.46	130.0	±9.6%
		Y	4.84	67.09	16.75		130.0	
40570	LEEF DOG 44- MEN O 4 ON - 40000	Z	4.82	67.24	16.90	<u> </u>	130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	4.74	67.21	16.78	0.46	130.0	±9.6%
		Y	4.74	67.23	16.84		130.0	
10579-	NEED OOD 44- MEET O 4 OUT /DOOD		4.72	67.41	17.02	0.46	130.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	Х	4.49	66.42	16.04	0.46	130.0	±9.6%
	THE PROPERTY OF THE PROPERTY O	Y	4.50	66.52	16.16		130.0	
10500	LEEE 200 stan MIECO 4 600 (5000	Z	4.47	66.59	16.26		130.0	
10580- AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	X	4.54	66.47	16.06	0.46	130.0	±9.6%
		Y	4.55	66.58	16.19		130.0	
40504	TEEL OOD ALL MIES OF OUR ANDOOR	Z	4.52	66.65	16.29		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.64	67.25	16.72	0.46	130.0	±9.6%
	THE PROPERTY OF THE PROPERTY O	Y	4.64	67.27	16.79		130.0	
45555		Z	4.62	67.46	16.97		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.43	66.17	15.82	0.46	130.0	± 9.6 %
		Y	4.44	66.30	15.96	***************************************	130.0	VIII-114414-4-1144-4-1144-4-1144-4-1144-4-1144-4-1144-4-1144-4-1144-4-1144-4-1144-4-1144-4-1144-4-1144-4-1144
	THE THE PERSON OF THE PERSON O	Z	4.40	66.34	16.03		130.0	
10583- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	Х	4.62	66.58	16.43	0.46	130.0	±9.6 %
		Y	4.62	66.64	16.52		130.0	
	THE THE THE TANK THE		4.60	66,77	16,65		130.0	JA. PARAMPANANIA MININA PROGRAMANIA
10584- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.65	66.76	16.50	0.46	130.0	±9.6 %
		Y	4.65	66.82	16.59		130.0	
		Z	4.63	66.97	16.74		130.0	POLICE STATE OF THE STATE OF TH
10585- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.84	67.04	16.67	0.46	130.0	±9.6 %
ATTENDED TO STATE OF THE STATE		Υ	4.84	67.09	16.75		130.0	
		Z	4.82	67.24	16.90		130.0	
10586- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	×	4.74	67.21	16.78	0.46	130.0	±9.6 %
		l Y	4.74	67.23	16.84		130.0	m
		Z	4.72	67.41	17.02		130.0	
10587- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.49	66.42	16.04	0.46	130.0	±9.6%
		Y	4.50	66.52	16.16		130.0	
		Z	4.47	66.59	16.26		130.0	_ + · ·
10588- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	×	4.54	66.47	16.06	0,46	130.0	±9.6%
		Y	4.55	66.58	16.19		130.0	
		Z	4.52	66.65	16.29		130.0	
10589- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.64	67.25	16.72	0.46	130.0	± 9.6 %
THE PLANT OF THE PROPERTY OF THE PARTY OF TH	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Υ	4.64	67.27	16.79	***************************************	130.0	
		Z	4.62	67.46	16.97		130.0	
10590 <del>-</del> AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	Х	4.43	66.17	15.82	0.46	130.0	±9.6%
		Ý	4.44	66.30	15.96		130.0	
	TO THE RESIDENCE OF THE PARTY O	Z	4.40	66,34	16.03		130.0	

10591-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.77	66.65	16.54	0.46	130.0	± 9.6 %
AAA	MCS0, 90pc duty cycle)							
		Y	4.77	66.70	16.62		130.0	
			4.76	66.84	16.76		130.0	
10592- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.92	66.98	16.67	0.46	130.0	±9.6%
		Υ	4.92	67.03	16.75		130.0	
		Z	4.90	67.16	16.89		130.0	
10593- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	Х	4.84	66.87	16.54	0.46	130.0	± 9.6 %
		Y	4,84	66.93	16.62		130.0	
		Z	4.81	67.05	16.76		130.0	
10594- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.89	67.05	16.70	0.46	130.0	± 9.6 %
		Y	4.89	67.09	16.78		130.0	<u> </u>
**************	THE STREET CONTROL OF STREET WHEN THE STREET WAS ARRESTED AND AND ADDRESS OF THE STREET OF THE STREET OF THE STREET WHEN THE STREET OF T	Z	4.87	67.23	16.93		130.0	
10595- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.86	67.00	16.59	0.46	130.0	±9.6%
		Y	4.86	67.06	16.68		130.0	
		Z	4.84	67.19	16.82	***************************************	130.0	- LONG MANAGEMENT - MANAGEMENT - CONTRACT -
10596- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	×	4.79	66.99	16.59	0.46	130.0	± 9.6 %
		<u>Y</u>	4.79	67.05	16.68		130.0	
		Z	4.77	67.18	16.82		130.0	WITH THE TAXABLE PROPERTY OF THE PARTY OF TH
10597- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	Х	4.74	66.88	16.46	0.46	130.0	± 9.6 %
	***	Y	4.74	66.94	16.56		130.0	
	LANGE BEN AND ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	Z	4.72	67.06	16.69		130.0	
10598- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.73	67.13	16.74	0.46	130.0	± 9.6 %
		Y	4.73	67.16	16.81	}	130.0	
**************************************		Z	4.71	67.31	16.97		130.0	
10599- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	×	5.44	67.16	16.74	0.46	130.0	± 9.6 %
		Υ	5.45	67.22	16.84		130.0	
	THE PROPERTY OF THE PROPERTY O	Z	5.44	67.34	16.97		130.0	
10600- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	×	5.58	67.60	16.93	0.46	130.0	±9.6%
		Y	5.59	67.67	17.03		130.0	
		Z.	5.59	67.82	17.19		130.0	
10601- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	×	5.46	67.34	16.82	0.46	130.0	± 9.6 %
		Y	5.47	67.40	16,91		130.0	
		Z	5.46	67.52	17.06		130.0	
10602- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	×	5.57	67.41	16.77	0.46	130.0	±9.6%
· · · · · · · · · · · · · · · · · · ·	TIV-L-VARIOU NACALLET AND	Y	5.59	67.51	16.89		130.0	TTO ME TO THE TOTAL THE TO
40000	par	Z	5.59	67.66	17.04		130.0	
10603- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	×	5.64	67.69	17.04	0.46	130.0	± 9.6 %
	THE PROPERTY OF A SALE AND A SALE	Y	5.65	67.76	17.15		130.0	
40001	The table of ta	Z	5.66	67.94	17.32		130.0	
10604- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	×	5.48	67.25	16.81	0.46	130.0	±9.6%
		Y	5.51	67.36	16.93		130.0	
1000	ATT TO THE OWNER OF THE OWNER OWNER OF THE OWNER	Z	5.53	67.59	17.13	WINDS AND A STATE OF THE STATE	130.0	
10605- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.57	67.50	16.93	0.46	130.0	± 9.6 %
**************************************		Y	5.58	67.59	17.04		130.0	
4 20 20 20 20	The state of the s	Z	5.58	67.71	17.18		130.0	
10606- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.29	66.76	16.41	0.46	130.0	± 9.6 %
	TATALAN AND AND AND AND AND AND AND AND AND A	Y	5.30	66.83	16.52		130.0	1781
		Z	5.29	66.93	16.65		130.0	

10607-	IEEE 802.11ac WiFi (20MHz, MCS0,	X	4.61	65.98	16.17	0.46	130.0	± 9.6 %
AAA	90pc duty cycle)	Y	4.62	66.04	16.25		130.0	
	The state of the s						130.0	
10000	JEEE 000 44 1005 (0054) In 14004	Z	4.61	66.21	16.42 16.33	0.46	130.0	±9.6 %
10608- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	×	4.79	66.37		0.40		2:5.076
	AL RESILENCE	Y	4.79	66.43	16.41		130.0	
		Z	4.78	66.59	16.58	404-0-70-70	130.0	
10609- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	×	4.68	66.21	16.16	0.46	130.0	± 9.6 %
		Y	4.68	66.27	16.25		130.0	MILALAN PIPERMANANAN ANTAN
	The state of the s	2	4.67	66.43	16.40	0411-041V0940	130.0	
10610- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	×	4.73	66.37	16.33	0.46	130.0	±9.6%
		Y	4,73	66.43	16.41		130.0	
		Z	4.72	66.60	16.58		130.0	
10611- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.64	66.17	16.17	0.46	130.0	±9.6%
ALBERT AND PROPERTY OF THE PARTY OF THE PART		Y	4.65	66.23	16.26		130.0	
	- CONTRACTOR OF THE STATE OF TH	Z	4.63	66.39	16.42	1	130.0	
10612- AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.65	66.32	16.21	0.46	130.0	±9.6%
		Y	4.65	66.39	16.31		130.0	
	THE RESIDENCE OF THE PROPERTY	Ż	4.63	66.55	16.46		130.0	
10613- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	x	4.65	66.18	16.08	0.46	130.0	± 9.6 %
700	Jopo Gary Oyoro)	Y	4.65	66.25	16.18		130.0	
		Z	4,63	66.38	16.32	VILATITATION ANTICO	130.0	
10614- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.60	66,40	16.33	0.46	130.0	±9.6%
NATURAL TO SERVICE AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF	Sopo daty cycle)	1 7	4.60	66.44	16.41		130.0	
	THE CONTRACTOR OF THE CONTRACT	Ż	4.59	66.62	16.59		130.0	" '
10615- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	×	4.64	65.98	15.93	0.46	130.0	± 9.6 %
AAA	Sope daty cycle)	TY	4.65	66.08	16.04	········	130.0	
		1 2	4.62	66.20	16.17	1	130.0	
10616- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	×	5.26	66.43	16.36	0.46	130.0	±9.6 %
^^^	Sope daty cycle)		5.27	66.47	16.44		130.0	
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		Ż	5.26	66.58	16.58		130.0	
10617- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	×	5.33	66.62	16.43	0.46	130.0	± 9.6 %
~~~	300C daty cycle)	Y	5.34	66.68	16.52		130.0	
MAX	THE THE TRANSPORT OF THE THE TRANSPORT OF THE TRANSPORT O	Ż	5.34	66.82	16.67	<del>                                     </del>	130.0	,
10618- AAA	IEEE 802.11ac WiFi (40MHz, MC\$2, 90pc duty cycle)	×	5.22	66.63	16.45	0.46	130.0	± 9.6 %
~~~		Y	5.23	66.68	16.53		130.0	
	The state of the s	ż	5.23	66.84	16.70	1	130.0	
10619- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	×	5.23	66.41	16.27	0.46	130.0	±9.6 %
7 W W Y		Y	5.24	66.47	16.37		130.0	
		Ż	5.23	66.59	16.51	<u> </u>	130.0	
10620- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	×	5.32	66.44	16.34	0.46	130.0	±9.6 %
	The state of the s	Y	5.32	66.50	16.43	The state of the s	130.0	
	WARE AND THE WAY A	Z	5.31	66,61	16.57		130.0	
10621- AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	×	5.33	66.61	16.54	0.46	130.0	± 9.6 %
		Y	5.33	66.63	16.61		130.0	
	THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS	Ż	5.33	66.77	16.77	1	130.0	T
10622-	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.34	66.76	16.61	0.46	130.0	± 9.6 %
AAA	JOPO GGTY CYCIO)	+	m 0.4	·······················	40.00		400.0	
		Y	5.34	66.80	16.69	į.	130.0	

10623-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	5.21	66.27	16.23	0.46	130.0	± 9.6 %
AAA	90pc duty cycle)	^	3.21	00.27	10.23	0.40	130.0	x 9.0 %
		Y	5.22	66.33	16.33	1	130.0	
	AND	Z	5.20	66.41	16.45		130.0	
10624- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.40	66.47	16.40	0.46	130.0	±9.6%
		Y	5.41	66.52	16.49		130.0	
		Z	5.40	66.63	16.62		130.0	
10625- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	Х	5.72	67.33	16.88	0.46	130.0	± 9.6 %
		Y	5.71	67.32	16,94		130.0	
40000	THE POOL AND THE COURT OF THE POOL AND THE P	Z	5.65	67.29	17.01		130.0	- A'A'A'
10626- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.57	66.48	16.32	0.46	130.0	±9.6%
	,	Z	5.58	66.52	16.39		130.0	
10627-	IEEE 802.11ac WiFi (80MHz, MCS1,	X	5.58	66.62 67.07	16.53 16.57	0.46	130.0	1000
AAA	90pc duty cycle)	^   Ŷ	5.81			0.46		± 9.6 %
	THE THE THE STATE OF THE STATE	Z	5.83 5.84	67.14	16.67		130.0	VII.—WII.E. W. E. I. W. II. W.
10628-	IEEE 802.11ac WIFI (80MHz, MCS2,	X	5.84	67.29	16.83 16.24	0.46	130.0 130.0	± 9.6 %
AAA	90pc duty cycle)	Ŷ				0.40		£ 9.0 %
		Z	5.60	66.58	16.33 16.44		130.0	
10629-	IEEE 802.11ac WiFi (80MHz, MCS3,	+ 🗧	5.59 5.66	66,64	16.26	0.46	130.0 130.0	± 9.6 %
AAA	90pc duty cycle)	<u> </u>	5.68	66.66	16.36	0.40	130.0	3. 5.0 70
	The state of the s	Z	5.68	66.76	16.49			
10630- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.07	68.02	16.49	0.46	130.0	±9.6%
	The second of a decide of the second of the	Y	6.09	68,11	17.08		130.0	
		Z	6.09	68.21	17.21		130.0	***************************************
10631- AAA	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	Х	5.98	67.87	17.10	0.46	130.0	±9.6%
	TO THE TOTAL PROPERTY OF THE TOTAL PROPERTY	Υ	5.98	67.86	17.14		130.0	
		Z	5.98	67.98	17.30		130.0	PRINCIPAL AND
10632- AAA	IEEE 802.11ac WIFi (80MHz, MCS6, 90pc duty cycle)	X	5.78	67.15	16.76	0.46	130.0	± 9.6 %
		Υ	5.79	67.19	16.83		130.0	
		Z	5.81	67.39	17.02		130.0	***************************************
10633- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	Х	5.65	66.72	16.36	0.46	130.0	± 9.6 %
		Υ	5.66	66.75	16.44		130.0	
		Z	5.66	66.85	16.58		130.0	
10634- AAA	IEEE 802 11ac WiFi (80MHz, MCS8, 90pc duty cycle)	Х	5.64	66.75	16.44	0.46	130.0	±9.6%
		X	5.64	66.77	16.50		130.0	
4 D Ø 2 E	LEEE 900 44 as MEE (GOAN IS MOOD	Z	5.64	66.87	16.64	4 - 4	130.0	
10635- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.51	66.04	15.80	0.46	130.0	± 9.6 %
777777777777	700000000000000000000000000000000000000	Y	5.52	66.11	15.92	**************************************	130.0	177700441
10636-	IEEE 1602,11ac WiFi (160MHz, MCS0,	Z	5.50	66.12	15.99	N 14	130.0	TTTT
AAA	90pc duty cycle)	X	5.98	66.84	16.40	0.46	130.0	±9.6 %
	THE	Z	6.00	66.88	16.48		130.0	
10637- AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.01 6.14	66.98 67.23	16.61 16.58	0.46	130.0 130.0	± 9.6 %
	mbern-saintines	Y	6.16	67.29	16.67		130.0	T. T. T. L
**************************************	The state of the s	Ż	6.17	67.39	16.80		130.0	
10638- AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	x	6.14	67.19	16.53	0.46	130.0	± 9.6 %
- ATTRICA	TOPANIC A TOPANIC AND A TOPANI	Y	6.15	67.25	16.62		130.0	
THE RESERVE AND ADDRESS OF THE PERSON OF THE		TZ	6.16	67.35	16.75		130.0	

10639- AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.11	67.13	16.55	0.46	130.0	±9.6 %
	and and the transfer of the control	T 7	6.12	67.17	16.63		130.0	-wasan-aas
		T Ż	6.12	67.25	16.75		130.0	
10640- AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.11	67.13	16.49	0.46	130.0	± 9.6 %
· . · · · · · · · · · · · · · · · · · ·	A section of a sec	Y	6.13	67.18	16.58	T. T. T. D.	130.0	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z	6.12	67.25	16.69		130.0	· · · · · · · · · · · · · · · · · · ·
10641- AAA	IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	Х	6.17	67.07	16.48	0.46	130.0	±9.6 %
anna itamama direntama mananan		Y	6.19	67.15	16.58		130.0	
		TZ	6.20	67.24	16.70		130.0	
10642- AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	Х	6.20	67.32	16.77	0.46	130.0	± 9.6 %
		Y	6.21	67.33	16.84		130.0	
		Z	6.22	67.44	16.97		130.0	
10643- AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	Х	6.04	66.99	16.50	0.46	130.0	±9.6%
	WALESAND POLICE OF THE STORM SHAFT IN CONTROL OF THE STORM SHAPE S	Y	6.06	67.06	16.60		130.0	
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Z	6.06	67.15	16.72		130.0	
10644- AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.18	67.41	16.73	0.46	130.0	±9.6 %
NEW CONTROL OF THE PROPERTY OF	100/00/100/100/100/100/100/100/100/100/	Y	6.18	67.45	16.81		130.0	
		Z	6.17	67.47	16.90		130.0	
10645- AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	×	6.37	67.64	16.81	0.46	130.0	±9.6%
		Y	6.35	67.59	16.85		130.0	
PIT AND UNITED AND UNITED BY		Z	6.32	67.58	16.92		130.0	
10646- AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Х	14.22	101.24	33.75	9.30	60.0	±9.6%
		Y	18.00	109.63	37.45		60.0	
WAYNE THE PROPERTY OF THE PROP	W	Z	12.76	102.15	35.22		60.0	
10647- AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	12.74	99.52	33.33	9.30	60.0	± 9.6 %
	and the state of t	Y	15.51	106.93	36.77		60.0	
	A A A A A A A A A A A A A A A A A A A	Z	11.10	99.62	34.55		60.0	
10648- AAA	CDMA2000 (1x Advanced)	Х	0.71	64.23	11.16	0.00	150.0	± 9.6 %
****		Y	0.71	64.30	11.16		150.0	
TILL TILL SO SE SECONDO SE SECONDO	MATERIAL TO THE STATE OF THE ST	Z	0.73	65.24	11.45		150.0	

<sup>&</sup>lt;sup>6</sup> Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Certificate No: EX3-3814\_Sep16

# REPORT NO: UL-SAR-RP11631392JD03A V2.0 Issue Date: 22 May 2017 12.5. Calibration Certificate for Dipole This sub-section contains Cal Certificates for Dipoles, and is not included in the total number of pages for this report.

A1322

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





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

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 UL RFI UK

Certificate No: D2450V2-725\_Sep16

# **CALIBRATION CERTIFICATE**

Object D2450V2 - SN:725

Calibration procedure(s) QA CAL-05.v9

D2450V2 - SN:725

M. Nare

QA CAL-05.v9

Calibration procedure for dipole validation kits above 700 MHz

Calibration date: September 29, 2016

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).

The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

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

Calibration Equipment used (M&TE critical for calibration)

06-Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02289) ) 05-Apr-16 (No. 217-02292) 6327 05-Apr-16 (No. 217-02295) 15-Jun-16 (No. EX3-7349_Jun16) 30-Dec-15 (No. DAE4-601_Dec15)  Check Date (in house) 704 07-Oct-15 (No. 217-02222) 783 07-Oct-15 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16  Scheduled Check In house check: Oct-16 In house check: Oct-16
06-Apr-16 (No. 217-02289) ) 05-Apr-16 (No. 217-02292) 6327 05-Apr-16 (No. 217-02295) 15-Jun-16 (No. EX3-7349_Jun16) 30-Dec-15 (No. DAE4-601_Dec15)  Check Date (in house) 704 07-Oct-15 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Scheduled Check In house check: Oct-16
0) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 15-Jun-16 (No. EX3-7349_Jun16) 30-Dec-15 (No. DAE4-601_Dec15) Check Date (in house) 704 07-Oct-15 (No. 217-02222)	Apr-17 Apr-17 Jun-17 Dec-16 Scheduled Check In house check: Oct-16
6327 05-Apr-16 (No. 217-02295) 15-Jun-16 (No. EX3-7349_Jun16) 30-Dec-15 (No. DAE4-601_Dec15) Check Date (in house) 704 07-Oct-15 (No. 217-02222)	Apr-17 Jun-17 Dec-16 Scheduled Check In house check: Oct-16
15-Jun-16 (No. EX3-7349_Jun16) 30-Dec-15 (No. DAE4-601_Dec15) Check Date (in house) 704 07-Oct-15 (No. 217-02222)	Jun-17 Dec-16 Scheduled Check In house check: Oct-16
30-Dec-15 (No. DAE4-601_Dec15)  Check Date (in house)  704 07-Oct-15 (No. 217-02222)	Dec-16  Scheduled Check In house check: Oct-16
Check Date (in house) 704 07-Oct-15 (No. 217-02222)	Scheduled Check In house check: Oct-16
704 07-Oct-15 (No. 217-02222)	In house check: Oct-16
783 07-Oct-15 (No. 217-02222)	In house check: Oct-16
317 07-Oct-15 (No. 217-02223)	In house check: Oct-16
15-Jun-15 (in house check Jun-15)	In house check: Oct-16
18-Oct-01 (in house check Oct-15)	In house check: Oct-16
Function	Signature
kka Laboratory Technician	you un
Technical Manager	MM
	585 18-Oct-01 (in house check Oct-15)  Function

Issued: September 29, 2016

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

# **Calibration Laboratory of**

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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

#### Glossary:

TSL

tissue simulating liquid

ConvF N/A

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

## Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Additional Documentation:

e) DASY4/5 System Handbook

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

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

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

Certificate No: D2450V2-725\_Sep16 Page 2 of 8

#### **Measurement Conditions**

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

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

# **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.9 ± 6 %	1.88 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	and the very season	

#### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.4 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.21 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.4 W/kg ± 16.5 % (k=2)

# **Body TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.6 ± 6 %	2.04 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		****

# SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.9 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.3 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.03 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.8 W/kg ± 16.5 % (k=2)

Certificate No: D2450V2-725\_Sep16 Page 3 of 8

# Appendix (Additional assessments outside the scope of SCS 0108)

#### **Antenna Parameters with Head TSL**

Impedance, transformed to feed point	51.9 $\Omega$ + 9.8 j $\Omega$
Return Loss	- 20.2 dB

## **Antenna Parameters with Body TSL**

Impedance, transformed to feed point	48.8 Ω + 11.4 jΩ
Return Loss	- 18.8 dB

#### **General Antenna Parameters and Design**

Floatrical Dalay (one direction)	1.100
Electrical Delay (one direction)	1.126 ns

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

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

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

#### **Additional EUT Data**

Manufactured by	SPEAG
Manufactured on	October 16, 2002

Certificate No: D2450V2-725\_Sep16 Page 4 of 8

#### **DASY5 Validation Report for Head TSL**

Date: 29.09.2016

Test Laboratory: SPEAG, Zurich, Switzerland

## DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:725

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

Medium parameters used: f = 2450 MHz;  $\sigma = 1.88 \text{ S/m}$ ;  $\varepsilon_r = 37.9$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

## DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(7.72, 7.72, 7.72); Calibrated: 15.06.2016;

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

Electronics: DAE4 Sn601; Calibrated: 30.12.2015

• Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001

• DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

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

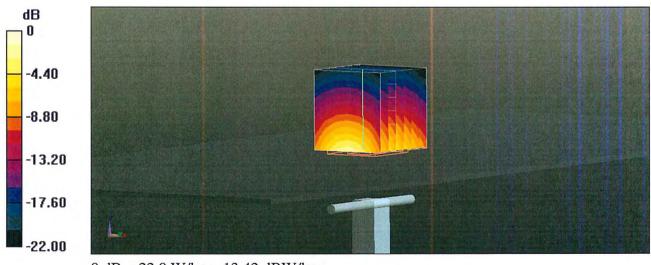
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 113.7 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 27.2 W/kg

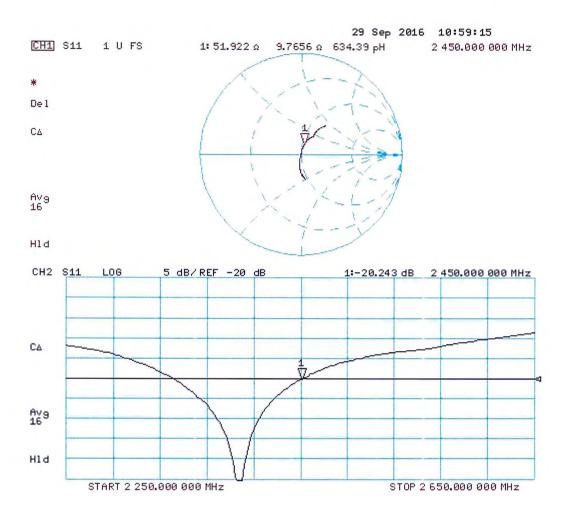
SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.21 W/kg

Maximum value of SAR (measured) = 22.0 W/kg



0 dB = 22.0 W/kg = 13.42 dBW/kg

# Impedance Measurement Plot for Head TSL



#### **DASY5 Validation Report for Body TSL**

Date: 29.09.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:725

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

Medium parameters used: f = 2450 MHz;  $\sigma = 2.04 \text{ S/m}$ ;  $\varepsilon_r = 51.6$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

## DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(7.79, 7.79, 7.79); Calibrated: 15.06.2016;

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

• Electronics: DAE4 Sn601; Calibrated: 30.12.2015

Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002

• DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

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

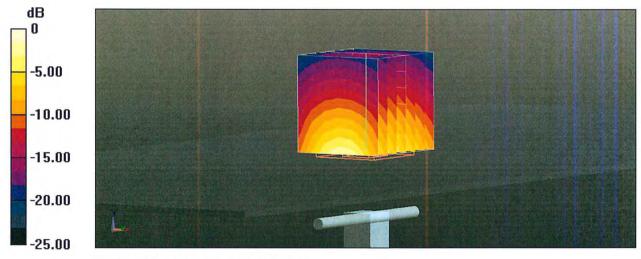
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 105.2 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 25.7 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.03 W/kg

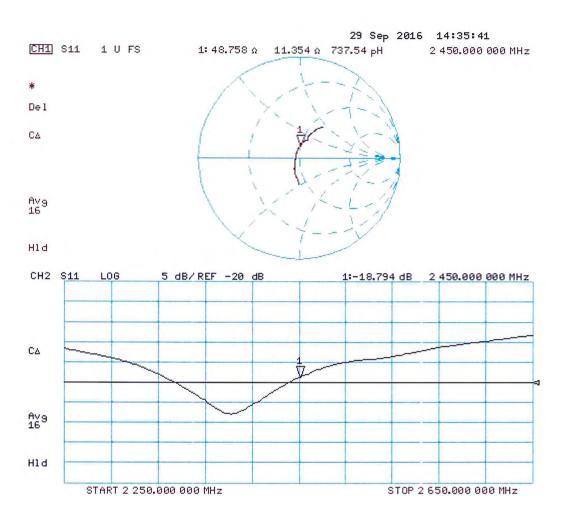
Maximum value of SAR (measured) = 20.7 W/kg



0 dB = 20.7 W/kg = 13.16 dBW/kg

Certificate No: D2450V2-725\_Sep16

# Impedance Measurement Plot for Body TSL



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#### 12.6. Tissues-Equivalent Media Recipes

The SPEAG Broadband Tissue Simulation Liquid HBBL600-6000V6 has been used for Head and Body testing. The composition of this fluid is undisclosed and proprietary to SPEAG.

Visual inspection is made to ensure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the tissue.

UL VS Ltd.

Report. No.: 2.0