REPORT NO: UL-SAR-RP11456397JD17A V3.0 Issue Date: 13 April 2017 12.4. Calibration Certificate for E-Field Probe This sub-section contains Cal Certificates for E-Field Probes, and is not included in the total number of pages for this report.

A2544

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





S Schweizerischer Kalibrierdienst
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Swiss Calibration Service

Accreditation No.: SCS 0108

Certificate No: EX3-3994_Mar16/2

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 (Replacement of No: EX3-3994_Mar16)

Object EX3DV4 - SN:3994

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: March 21, 2016

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

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	01-Apr-15 (No. 217-02128)	Mar-16
Power sensor E4412A	MY41498087	01-Apr-15 (No. 217-02128)	Mar-16
Reference 3 dB Attenuator	SN: S5054 (3c)	01-Apr-15 (No. 217-02129)	Mar-16
Reference 20 dB Attenuator	SN: S5277 (20x)	01-Apr-15 (No. 217-02132)	Mar-16
Reference 30 dB Attenuator	SN: S5129 (30b)	01-Apr-15 (No. 217-02133)	Mar-16
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
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-16
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-15)	In house check: Oct-16

Name Function Signature

Calibrated by: Leif Klysner Laboratory Technician

Approved by: Katja Pokovic Technical Manager

Issued: May 10, 2016

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

Certificate No: EX3-3994_Mar16/2

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





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Glossary:

TSL tissue simulating liquid NORMx.y.z tissue simulating liquid 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:

 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

Techniques", June 2013
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

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

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

Methods Applied and Interpretation of Parameters:

NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
 NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).

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

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

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

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

ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 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).

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Probe EX3DV4

SN:3994

Manufactured:

January 21, 2014

Calibrated:

March 21, 2016

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

EX3DV4- SN:3994

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3994

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.50	0.50	0.43	± 10.1 %
DCP (mV) ⁸	101.2	101.2	96.5	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc ^t (k=2)
0	CW	X	0.0	0.0	1.0	0.00	195.7	±3.0 %
		Y	0.0	0.0	1.0	7 774-7	183.5	
with testing		Z	0.0	0.0	1.0		177.0	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	Т6
X	64.44	483.3	36.1	24.54	1.628	5.046	0.743	0.447	1.007
Y	53.98	404.3	35.87	21.79	1.722	5.007	0.175	0.525	1.004
Z	58.14	448.8	38	23.28	1.723	5.019	0	0.516	1.005

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

^B Numerical linearization parameter: uncertainty not required.

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

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

EX3DV4-SN:3994

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3994

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	10.32	10.32	10.32	0.65	0.80	± 12.0 %
835	41.5	0.90	9.79	9.79	9.79	0.57	0,86	± 12.0 %
900	41.5	0.97	9.42	9.42	9.42	0.47	0.95	± 12.0 %
1450	40.5	1.20	8.72	8.72	8.72	0.43	0.80	± 12.0 %
1750	40.1	1.37	8.42	8.42	8.42	0.34	0.80	± 12.0 %
1900	40.0	1.40	8.14	8.14	8.14	0.31	0.87	± 12.0 %
2100	39.8	1.49	8.26	8.26	8.26	0,36	0.80	± 12.0 %
2300	39.5	1.67	7.71	7.71	7.71	0.29	0.80	± 12.0 %
2450	39.2	1.80	7.36	7.36	7.36	0.32	0.80	± 12.0 %
2600	39.0	1.96	7.07	7.07	7.07	0.37	0.80	± 12.0 %
5250	35.9	4.71	5.20	5.20	5.20	0.35	1.80	± 13.1 %
5600	35.5	5.07	4.50	4.50	4.50	0.50	1.80	± 13.1 %
5750	35.4	5.22	4.51	4.51	4.51	0.50	1.80	± 13.1 %

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

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.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3994

Calibration Parameter Determined in Body Tissue Simulating Media

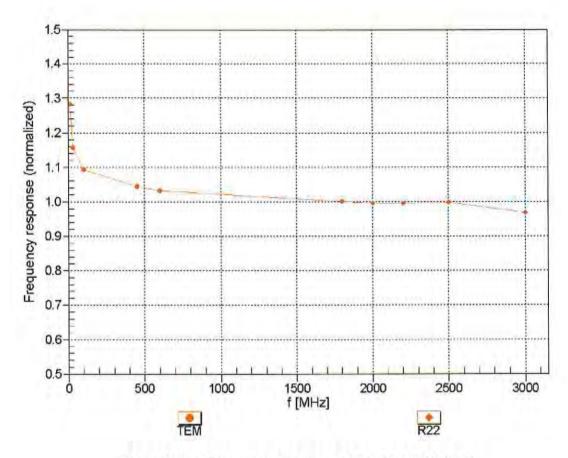
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	9.93	9.93	9.93	0.54	0,80	± 12.0 %
835	55.2	0.97	9,73	9.73	9.73	0.44	0.89	± 12.0 %
900	55.0	1.05	9.74	9.74	9.74	0.41	0.90	± 12.0 %
1450	54.0	1.30	8.47	8.47	8.47	0.32	0.80	± 12.0 %
1750	53.4	1.49	8.12	8.12	8.12	0.46	0.80	± 12.0 %
1900	53.3	1.52	7.81	7.81	7.81	0.37	0.85	± 12.0 %
2100	53.2	1.62	8.10	8.10	8.10	0.28	1.02	± 12.0 %
2300	52.9	1.81	7.45	7.45	7.45	0.32	0.95	± 12.0 %
2450	52.7	1.95	7.28	7.28	7.28	0.36	0.85	± 12.0 %
2600	52,5	2,16	6.99	6.99	6.99	0.29	0.95	± 12.0 %
5250	48.9	5.36	4.38	4.38	4.38	0.55	1.90	± 13.1 %
5600	48.5	5.77	3.76	3.76	3.76	0.60	1.90	± 13.1 %
5750	48.3	5.94	3.99	3.99	3.99	0.60	1.90	± 13.1 %

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

At frequencies below 3 GHz, the 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.

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

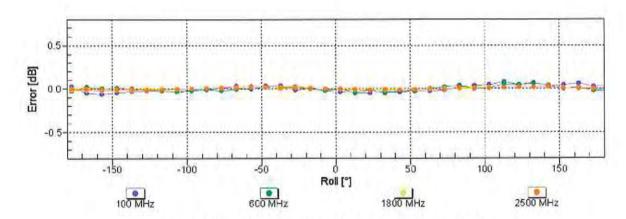
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

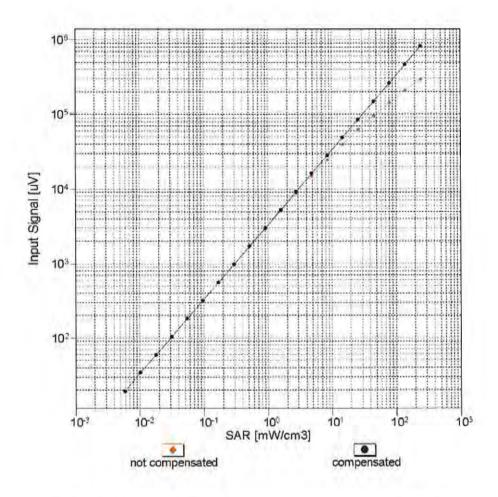
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

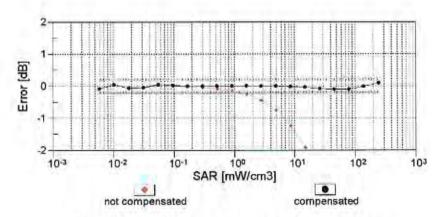
f=600 MHz,TEM f=1800 MHz,R22



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

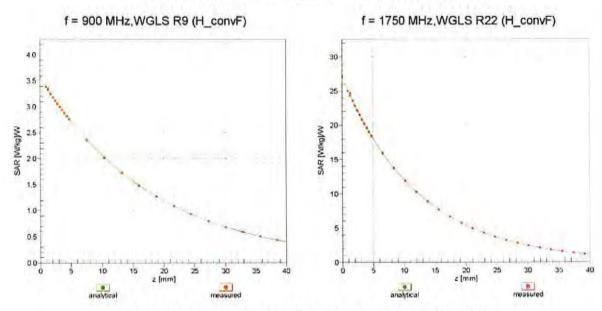
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)





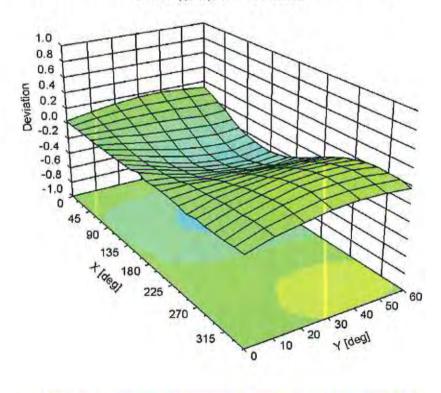
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

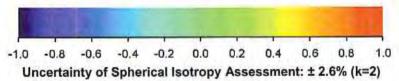
Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (φ, θ), f = 900 MHz





Certificate No: EX3-3994_Mar16/2

EX3DV4- SN:3994

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3994

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-27
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Appendix: Modulation Calibration Parameters

ÚIĎ	ix: Modulation Calibration Parar Communication System Name		A dB	g g g g h A	С	D dB	VR mV	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	195.7	±3.0 %
		Y	0.00	0.00	1.00	1 1100	183.5	
		Z	0.00	0.00	1.00		177.0	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	×	6.51	76.69	16.64	10.00	20.0	± 9.6 %
		Υ	4.27	71.21	14.22		20.0	
		Z	4.72	72.61	14.88		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	1.43	73.16	18.77	0.00	150.0	± 9.6 %
		Y	1.09	68.15	15.86		150.0	
		Z	1.43	73.23	18.83		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.32	65.94	16.90	0.41	150.0	± 9.6 %
1000		Y	1.23	64.44	15.58		150.0	
-		Z	1.30	65.69	16.83		150.0	-
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	×	5.10	66.88	17.39	1,46	150.0	± 9.6 %
	Print a series of	Υ	4.97	66,66	17.05		150.0	
4000	2011 1 17	Z	5.05	66.81	17.41		150.0	
10021- DAB	GSM-FDD (TDMA, GMSK)	×	100.00	117.92	30.54	9.39	50.0	± 9.6 %
		Y	23.03	95.65	24.26		50.0	
10000	CODO FOO (TOMA CHOK THE)	Z	40.87	104.25	26.79	0.57	50.0	1000
10023- DAB	GPRS-FDD (TDMA, GMSK, TN 0)	X	98.13	117.67	30.54	9.57	50.0	± 9.6 %
		Z	18.04 29.33	92.05 99.41	23.23 25.52	-	50.0 50.0	
10024- DAB	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	115.10	28.12	6.56	60.0	± 9.6 %
DINO		Y	100.00	112.82	26.88		60.0	
	Control Control control and an extension	Z	100.00	113.82	27.38		60.0	
10025- DAB	EDGE-FDD (TDMA, 8PSK, TN 0)	X	17.74	108.93	42.09	12.57	50.0	± 9.6 %
		Y	5.96	75.31	27.21		50.0	
11.11		Z	16.02	106.17	41.14	4.0	50.0	10000
10026- DAB	EDGE-FDD (TDMA, 8PSK, TN 0-1)	×	21.43	108.03	37.50	9.56	60.0	± 9.6 %
		Υ	12,07	93.30	31.83		60.0	
		Z	17.57	103.65	36,10		60.0	
10027- DAB	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	×	100.00	114.64	27.11	4.80	80.0	± 9.6 %
		Y	100.00	111.49	25.48		80.0	
		Z	100.00	112.98	26.20		80.0	
10028- DAB	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	115.69	26,86	3.55	100.0	± 9.6 %
		Y	100.00	111.47	24.78		100.0	
10000	FROM FOR CENTAL SECURITION OF	Z	100.00	113.62	25.77	7.00	100.0	1000
10029- DAB	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	12.45	95.25	32.07	7.80	80.0	± 9.6 %
		Z	8.28 10.59	85,45	27.91 30.95		80.0 80.0	
10030-	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	91.97 113.80	27.04	5.30	70.0	± 9.6 %
CAA		Y	100.00	110.89	25.50		70.0	
		2	100.00	112.19	26.15		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	119.08	26.88	1.88	100.0	± 9.6 %
JI VA		Y	100,00	111.20	23.34		100.0	
		Z	100.00	115.41	25.16		100.0	

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	×	100.00	129.54	30.14	1.17	100,0	± 9.6 %
2011	/	Y	100.00	115.90	24.36		100.0	
-		Z	100.00	124.34	27.82		100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	37.42	111.13	30.80	5.30	70.0	± 9.6 %
	A STATE OF THE STA	Y	9.13	86.58	22.59		70.0	
		Z	17.26	97.69	26.59		70.0	-17. 7
10034-	IEEE 802.15.1 Bluetooth (PI/4-DQPSK,	X	11.00	95.71	25.50	1.88	100.0	± 9.6 %
CAA	DH3)	Y	3.89	78.57	18.76	3.63	100.0	7.577
		Z	7.54	89.20	23.01		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	5.65	87.47	22.88	1.17	100.0	± 9.6 %
	2110)	Y	2.67	75.06	17.35		100.0	
		Z	4.67	84.07	21.28		100.0	-
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	60.17	119.16	32.93	5.30	70.0	± 9.6 %
CAA		Υ	11.03	89.67	23.66	-	70.0	
		Z	23.43	102.75	28.11	-	70.0	
10027	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	10.50	95.03	25.25	1.88	100.0	± 9.6 %
10037- CAA	IEEE OUZ, IS. I Bluetooth (8-DPSK, DH3)	100	1790290		100000	1.08	B. (207)	I 9.0 %
		Y	3.69	77.89	18.47		100.0	
10000	LEER OOD AS A DESIGNATION OF STREET	Z	7.11	88.41	22.71	4.47	100.0	1000
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	5.95	88.57	23,34	1.17	100.0	± 9.6 %
		Y	2.72	75,58	17,65		100.0	
		Z	4.89	85.06	21.72		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	Х	3.40	81.02	20.67	0.00	150.0	± 9.6 %
71.54		Y	2.23	74.57	17.31		150.0	
	Links to a supplied and the families of the families	Z	3.76	82.65	20.93	7.0.	150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	×	100.00	113.78	27.74	7.78	50.0	± 9.6 %
		Y	33.41	98.36	23.38		50.0	
Lat 1 de la		Z	100.00	112,71	27.10	115.00	50.0	11.
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Х	0.00	112.12	1.08	0.00	150.0	± 9.6 %
		Y	0.00	101,45	3.05		150.0	
10.7	The state of the s	Z	0.00	118.00	0.51		150.0	E-271, 171
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	×	15.77	89.94	24.74	13.80	25.0	± 9.6 %
- Tribalistic		Y	9.06	80.54	21.21		25.0	
		Z	10.23	82.70	22.08		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	23.93	96.82	25.49	10.79	40.0	± 9.6 %
707		Y	11.10	84.61	21.24		40.0	
100-1		Z	13.75	88.08	22.51	1	40.0	i de la constanti
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	18.32	95.19	26.76	9.03	50.0	± 9.6 %
AV		Υ	10.13	84.16	22.38	-	50.0	
1.1	The same water the same of the	Z	13.16	89.12	24.44	H H	50.0	
10058- DAB	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	8.67	87.80	28.66	6.55	100.0	± 9.6 %
		Υ	6.33	80.61	25.37		100.0	
		Z	7.55	85.18	27.73	1	100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.47	68.12	17.95	0.61	110.0	± 9.6 %
3,10	111111111111111111111111111111111111111	Y	1.33	65.93	16.27		110.0	
15 Y		Z	1.43	67.66	17.76	1122	110.0	
10060-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	X	100.00	136.18	35.57	1.30	110.0	± 9.6 %
CAB	Mbps)	1700	1,10,100	12.22.0.6	F 14(2), (2)	1.50	10,000	2 3.0 76
		Y	26.68	112.29	28.88		110.0	
		4	100.00	135.38	35.14		110.0	

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	14.71	105.39	30.19	2.04	110.0	± 9.6 %
		Y	4.34	83.44	22.51		110.0	
a francis		Z	9.12	97.21	27.69		110.0	
10062- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.89	66.89	16.84	0.49	100.0	± 9.6 %
		Y	4.76	66.66	16.53		100.0	
	THE REPORT OF THE PARTY OF THE	Z	4.85	66.82	16.89	777	100.0	
10063- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.92	67.01	16.96	0.72	100.0	± 9.6 %
E. V.		Y	4.78	66.76	16.63		100.0	
ilulus -		Z	4.87	66.93	16.99		100.0	
10064- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.26	67.33	17.20	0.86	100.0	± 9.6 %
		Y	5.09	67.05	16.85		100.0	
200.00	Contact the state of the state	Z	5.19	67.23	17.22		100.0	
10065- CAB	IEEE 802,11a/h WiFi 5 GHz (OFDM, 18 Mbps)	Х	5.13	67.27	17.30	1.21	100.0	±9.6 %
****		Y	4.96	66.97	16.94		100.0	
2045.2	LOS TOTAL TO	Z	5.06	67.16	17.31	Lawrence L	100.0	La contract
10066- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.16	67.34	17.49	1.46	100.0	± 9.6 %
	Value Viver and the second	Y	4.99	67.00	17.10		100.0	
STATE OF		Z	5.09	67.21	17.49		100.0	4.23.3
10067- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.45	67.37	17.87	2.04	100.0	± 9.6 %
-12-12		Y	5.28	67.10	17.48		100.0	
retails -		Z	5.38	67.28	17.87	A Total	100.0	73.35
10068- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.56	67.67	18.19	2.55	100.0	± 9.6 %
Y-77-		Y	5.37	67.28	17.75		100.0	
- North		Z	5.47	67.52	18.17		100.0	TANT.
10069- CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.63	67.54	18.33	2.67	100.0	± 9.6 %
11011	policy of the second se	Υ	5.45	67.23	17.91		100.0	
	A CONTRACTOR BOOK OF THE STREET	Z	5.55	67.45	18.33		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.21	67.02	17.71	1.99	100.0	± 9.6 %
		Y	5.08	66.78	17.34		100.0	
		Z	5.16	66.93	17.71	-	100.0	-1000
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	5.24	67.50	17.98	2.30	100.0	± 9.6 %
		Y	5.09	67.17	17.56		100.0	
1,77,175		Z	5.18	67.38	17.96	-101	100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	×	5.33	67.72	18.32	2.83	100.0	± 9.6 %
		Y	5.17	67.37	17.88		100.0	
10000		Z	5.26	67.59	18.29		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.31	67.68	18.52	3.30	100.0	± 9.6 %
	Aprel 122 April 22 1980	Y	5.17	67.32	18.05		100.0	
10.00	Long Waller Barrer William	Z	5.25	67.53	18.47		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	×	5,42	68.06	18,96	3.82	90.0	± 9.6 %
LUU.	A CONTRACTOR OF THE CONTRACTOR	Y	5.26	67.58	18.40		90.0	
X 3 7 7 1	A STATE OF THE STA	Z	5.35	67.85	18.87		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	×	5.40	67.74	19.01	4.15	90.0	± 9.6 %
(1)	The second of the second	Y	5.26	67.35	18.50		90.0	
ATK JUST		Z	5.34	67.57	18.94		90.0	L. Tara
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.42	67.80	19.10	4.30	90.0	± 9.6 %
		Y	5.29	67.42	18.58		90.0	
		Z	5.36	67.64	19.03		90.0	

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10081- CAB	CDMA2000 (1xRTT, RC3)	×	1.49	73.97	17.75	0.00	150.0	± 9.6 %
- 10T		Y	0.96	67.53	13.88		150.0	
		Z	1.50	74.25	17.52		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	1.34	61,18	6.55	4.77	80.0	± 9.6 %
		Y	1.15	60.22	5.78		80.0	100
		Z	1.20	60.55	6.02		80.0	To Can.
10090- DAB	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	115.15	28.17	6.56	60,0	± 9.6 %
		Y	100.00	112.87	26.92		60.0	
i anamata -		Z	100.00	113.87	27.42		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	2.08	69.70	17.34	0.00	150.0	± 9.6 %
		Υ	1.89	68.04	16.08		150.0	
		Z	2.08	69.81	17.39	2.02	150.0	
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	X	2.04	69.72	17.34	0.00	150.0	± 9.6 %
1000		Υ	1.85	67.99	16.05		150.0	
1,1537		Z	2.04	69.83	17.39		150.0	
10099- DAB	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	21.42	107.97	37.47	9.56	60.0	± 9.6 %
		Y	12.09	93.28	31.82		60.0	
		Z	17.58	103.60	36.07	0.00	60.0	
10100- CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.72	72.96	18.10	0.00	150.0	± 9.6 %
		Y	3.28	70.92	17.01		150.0	
		Z	3.62	72.58	18.06	0.00	150.0	1000
10101- CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3,53	68.70	16.75	0.00	150.0	± 9.6 %
		Y	3.33	67.79	16.12		150.0	
10.00		Z	3.48	68.49	16.76		150.0	
10102- CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.62	68.53	16.78	0.00	150.0	± 9.6 %
-		Y	3.43	67.74	16.21		150.0 150.0	
10103-	LTE-TDD (SC-FDMA, 100% RB, 20	X	3.57 8.35	68.34 78.46	16.80 21.41	3.98	65.0	± 9.6 %
CAB	MHz, QPSK)	Y	7.27	76.09	20.19		65.0	
		Z	7.52	76.83	20.19		65.0	
10104- CAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	8.06	76.53	21.55	3.98	65.0	± 9.6 %
OND	19112; 10 SE 191)	Y	7.25	74.59	20.43		65.0	1
	International Control of the	Z	7.64	75.72	21.25		65.0	
10105- CAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	×	7.68	75.58	21.45	3.98	65.0	± 9.6 %
-		Y	6.99	73.84	20.41		65.0	
and the second		Z	7.08	74.21	20.90	te Barrio	65.0	
10108- CAC	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	×	3.26	72.04	17.92	0.00	150.0	± 9.6 %
		Y	2.87	70.10	16.84		150.0	
	LA PARTY ALL VIOLENCE	Z	3.18	71.79	17.93		150.0	Lorona
10109- CAC	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.20	68.59	16.76	0.00	150.0	± 9.6 %
- 10.1		Y	2.99	67.65	16.07		150.0	
	Tricos in contract to remediate	Z	3.15	68.45	16.78	COST	150.0	
10110- CAC	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	×	2.68	71.14	17.70	0.00	150.0	± 9.6 %
-3724	V	Y	2.34	69.15	16.48		150.0	
		Z	2.62	71.06	17.75	L. Jales	150.0	
10111- CAC	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	×	2.94	69.46	17.26	0.00	150.0	± 9.6 %
		Y	2.73	68.56	16.49		150.0	
		Z	2.89	69.48	17.29		150.0	

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10112- CAC	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	×	3.31	68.41	16.74	0.00	150.0	± 9.6 %
		Y	3.12	67.61	16.12		150.0	
and the second		Z	3.26	68.30	16.76		150.0	
10113- CAC	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	3.08	69.40	17.29	0.00	150.0	±9.6 %
		Y	2.88	68.66	16.61		150.0	
Živoca i		Z	3.04	69.45	17.33		150.0	
10114- CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	×	5.29	67.40	16.70	0.00	150.0	± 9.6 %
	The way at the second s	Y	5.19	67.22	16.49		150.0	
division in	Soft Committee Teachers	Z	5.28	67.37	16.80		150.0	
10115- CAB	IEEE 802,11n (HT Greenfield, 81 Mbps, 16-QAM)	×	5.66	67.68	16.83	0.00	150.0	± 9.6 %
	LIMINAY CONTRACTOR CON	Y	5.53	67.49	16.63		150.0	
		Z	5.65	67.71	16.97	1000	150.0	
10116- CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	×	5.42	67.67	16.75	0.00	150.0	± 9.6 %
		Y	5.30	67.47	16.53		150.0	
7477		Z	5.41	67.66	16.87		150.0	
10117- CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	×	5.30	67.43	16.73	0.00	150.0	± 9.6 %
10/1 0-		Y	5.17	67.16	16.47		150.0	
10.11		Z	5.28	67.35	16.81	121179	150.0	
10118- CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16- QAM)	×	5.72	67.80	16.90	0.00	150.0	± 9.6 %
		Y	5.61	67.66	16.72		150.0	
10770		Z	5.74	67.91	17.08		150.0	
10119- CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64- QAM)	×	5.39	67.61	16.74	0.00	150.0	± 9.6 %
4 1-1-2	7 16 1 4	Υ	5.27	67.40	16.51		150.0	
		Z	5.39	67.61	16.86		150.0	
10140- CAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	×	3.67	68.53	16.70	0.00	150.0	± 9.6 %
		Υ	3.47	67.74	16.13		150.0	
10000		Z	3.62	68.34	16.71		150.0	-
10141- CAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	×	3.78	68.50	16.80	0.00	150.0	± 9.6 %
		Υ	3.60	67.82	16.29		150.0	
		Z	3.73	68.34	16.83		150.0	
10142- CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	×	2.49	71.42	17.73	0.00	150.0	± 9.6 %
		Υ	2.13	69.25	16.30		150.0	
10110	1 THE PER 200 PRINT 2000 PR 1122	Z	2.44	71.50	17.76		150.0	
10143- CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	×	2.89	70.64	17.43	0.00	150.0	± 9.6 %
		Y	2.63	69.52	16.43		150.0	
10144- CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Z X	2.86 2.65	70.79 68.33	17.42 15.89	0.00	150.0 150.0	± 9.6 %
OAC	OT-GONIN)	Y	2.38	67.07	14.75		150.0	
		Z	2.58	68.27	15.75		150.0	
10145- CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	2.01	71.51	16.50	0.00	150.0	± 9.6 %
X-12		Y	1.46	67.12	13.47		150.0	
Walter To		Z	1.87	70.73	15.71		150.0	LELANT F
10146- CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	3.80	75.01	17.18	0.00	150.0	± 9.6 %
Carallia	(10.16. 30-36.44)	Y	2.13	67.17	12.68		150.0	
	Laboration and considerate the laborate	Z	2.61	70,09	14.59		150.0	Chalabet
10147- CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	5.23	79.70	19.17	0.00	150.0	± 9.6 %
1,577.		Y	2.55	69.52	13.93		150.0	
		Z	3.33	73.46	16.20		150.0	1

10149- CAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	×	3.21	68.65	16.81	0.00	150.0	± 9.6 %
		Y	3.00	67.72	16.12		150.0	
		Z	3.16	68.51	16.82	7.00	150.0	Histories year
10150- CAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.32	68.47	16.78	0.00	150.0	± 9.6 %
		Y	3.13	67.67	16.16		150.0	
C 24-1 - 1		Z	3.27	68.35	16.81		150.0	
10151- CAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	8.89	80.86	22.46	3,98	65.0	± 9.6 %
	73 7.77	Y	7.55	78.00	21.02		65.0	
		Z	8.22	79.74	22.04		65.0	A 40 TE
10152- CAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	7.69	76.78	21.46	3.98	65.0	± 9.6 %
CACH		Y	6.78	74.50	20.12		65.0	
		Z	7.23	75.88	21.08		65.0	
10153- CAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	8.03	77.50	22.11	3.98	65.0	± 9.6 %
J/LD		Y	7.19	75.46	20.90		65.0	
		Z	7.59	76.67	21.76		65.0	
10154- CAC	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.77	71.74	18.05	0.00	150.0	± 9.6 %
MM, ==		Y	2.41	69.70	16.81		150.0	
11.		Z	2.70	71.63	18.08	1.11	150.0	
10155- CAC	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.94	69.45	17.26	0.00	150.0	± 9.6 %
-		Y	2.73	68.56	16.50		150.0	
	The experience of the contract of	Z	2.89	69.48	17.30	4.04	150.0	
10156- CAC	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	2.40	72.17	17.97	0.00	150.0	± 9.6 %
		Y	2.00	69.57	16.27		150.0	
	A STATE OF THE STA	Z	2.36	72.29	17.96		150.0	
10157- CAC	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.55	69.48	16.33	0.00	150.0	± 9.6 %
	1	Y	2.24	67.87	14.96		150.0	
170,100		Z	2.50	69.49	16.17	and a Lon	150.0	LTAILE
10158- CAC	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	×	3.09	69.46	17.33	0.00	150.0	± 9.6 %
		Y	2.89	68.73	16.65		150.0	
1.1.		Z	3.05	69.51	17.38		150.0	
10159- CAC	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.69	69.99	16.64	0.00	150.0	± 9.6 %
		Y	2.37	68.44	15.30		150.0	
104.1	The same and the s	Z	2.63	70.00	16.47		150.0	
10160- CAB	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	3,10	70.21	17.38	0.00	150.0	± 9.6 %
.000		Y	2.84	68.94	16.54		150.0	
Avenue -	Auctoropean and a second state of	Z	3.09	70.31	17.51		150.0	
10161- CAB	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.21	68,38	16.75	0.00	150.0	± 9.6 %
Y11		Υ	3.02	67.61	16,11		150.0	
3777	A	Z	3.17	68.30	16.77		150.0	
10162- CAB	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	×	3.31	68.37	16.78	0.00	150.0	± 9.6 %
W13		Y	3.13	67.71	16.20		150.0	
	Subsection of the Control of the Con	Z	3.27	68,34	16.83		150.0	
10166- CAC	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.91	70.15	19.62	3.01	150.0	± 9.6 %
190.04	3830X	Y	3.59	68.95	18.73		150.0	1
204		Z	3.67	69.38	19.31	3.00	150.0	
10167- CAC	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	5.00	73.54	20.31	3.01	150.0	± 9.6 %
		Υ	4.36	71.51	19.08		150.0	
			4.30	11.01	15.00		100.0	

10168- CAC	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	5.50	75.56	21.49	3.01	150.0	±9.6 %
		Y	4.83	73.74	20.43		150.0	
- 1-2		Z	4.89	74.02	20.90		150.0	
10169- CAB	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.53	71.82	20.39	3.01	150.0	± 9.6 %
		Y	3.00	68.74	18.63		150.0	
		Z	3.06	69.43	19.40		150.0	
10170- CAB	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	5.50	79.81	23.33	3.01	150.0	± 9.6 %
		Y	4.10	74.43	20.89		150.0	
- V 1		Z	4.15	75.19	21.66		150.0	
10171- AAB	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	4.33	74.66	20.30	3.01	150.0	± 9.6 %
		Y	3.34	70.14	18.03		150.0	
Fr. J. to	The second secon	Z	3.45	71.26	19.00		150.0	7.75
10172- CAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	28.44	110.26	33.77	6.02	65.0	± 9.6 %
		Y	10.11	89.88	26.80	-	65.0	
		Z	13.57	96.67	29.65		65.0	
10173- CAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	×	39.55	110.46	31.84	6.02	65.0	± 9.6 %
9.		Υ	12.83	90.50	25.34		65.0	
45,15		Z	18.99	98.26	28.27		65.0	7.3.00
10174- CAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	26.02	101.66	28.83	6.02	65.0	± 9.6 %
-7,177		Y	10.54	86.25	23.46		65.0	
COC.		Z	12.72	90.24	25.26		65.0	TTE S
10175- CAC	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	×	3,48	71.43	20.11	3.01	150.0	± 9.6 %
ONO.	313/	Υ	2.96	68.40	18.36		150.0	
		Z	3.03	69.13	19.16		150.0	
10176- CAC	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	5.51	79.84	23.35	3.01	150.0	± 9.6 %
		Y	4.11	74.45	20.91		150.0	
77.70	1 10 10 10 10 10 10 10 10 10 10 10 10 10	Z	4.16	75.21	21.67		150.0	1177
10177- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	×	3.52	71.63	20.23	3.01	150.0	± 9.6 %
*****		Y	2.99	68.57	18.47		150.0	
7.7.1.		Z	3.05	69.28	19.26		150.0	Lateran
10178- CAC	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	Х	5.41	79.45	23.16	3.01	150.0	± 9.6 %
751.039		Y	4.05	74.17	20.76		150.0	11 11
12 cto		Z	4.11	74.95	21.53		150.0	
10179- CAC	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	4.86	77.04	21.65	3,01	150.0	± 9.6 %
VIII A		Υ	3.67	72.09	19.30		150.0	
677.10	A colored to the colo	Z	3.78	73.13	20.20	- 200	150.0	الم من عبوسية
10180- CAC	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	×	4.31	74.54	20.23	3.01	150.0	± 9.6 %
7715		Y	3.33	70.05	17.97		150.0	
7-51	A CARLO SAN AND A SAN AND A SAN AND A SAN AND ASSAULT OF THE ASSAU	Z	3.44	71.18	18.95		150.0	
10181- CAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	×	3.51	71.61	20.22	3.01	150.0	± 9.6 %
		Y	2.99	68.55	18.46		150.0	i i
al part	t of American Committee of American	Z	3.05	69.27	19.25	5-510	150.0	1 7.97
10182- CAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	×	5.40	79.42	23.15	3.01	150.0	± 9.6 %
144	1 10000 100	Y	4.05	74.15	20.74		150.0	
1000	Total Administration and the second second	Z	4.10	74.93	21.52	100	150.0	
10183- AAA	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	4.30	74.51	20.22	3.01	150.0	± 9.6 %
AAA		Y	3.32	70.03	17.96		150.0	
		1	3,32	10.03	17.90		130.0	

10184- CAC	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	×	3.52	71.66	20.24	3.01	150.0	± 9.6 %
- III		Υ	3.00	68.60	18.49		150.0	11 -
		Z	3.06	69.31	19.27		150.0	
10185- CAC	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	5.43	79,51	23.19	3.01	150.0	± 9.6 %
Or to	- Carrier - Carr	Y	4.07	74.22	20.78		150.0	
		Z	4.12	75.00	21.55		150.0	
10186-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-	X	4.33	74.59	20.25	3.01	150.0	± 9.6 %
AAC	QAM)	Y	L30 W 10	47,335	18.00	0.01	150.0	10.0 /0
_			3.34	70.09				
16160	1 TE EDD (00 ED) (1 1 DD 1 1 1 D)	Z	3.46	71.23	18.97	0.04	150.0	10000
10187- CAC	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	×	3.53	71.69	20.29	3.01	150.0	± 9.6 %
		Y	3.00	68.64	18.54		150.0	
	Section of the sales of the process.	Z	3.07	69.35	19.32		150.0	A COLUMN
10188- CAC	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	×	5.68	80.43	23.65	3.01	150.0	± 9.6 %
	TO THE RESERVE TO THE PERSON OF THE PERSON O	Y	4.22	74.97	21.21		150.0	
		Z	4.26	75.67	21.94		150.0	
10189-	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz,	X	4.45	75.15	20.58	3.01	150.0	± 9.6 %
AAC	64-QAM)	3/1	18.75	1 TO 1	0.60.00	12/52/1	CALLED !	School of the
and -		Υ	3.42	70.53	18.28		150.0	
typ of E	The state of the s	Z	3.53	71.65	19.25	7.12	150.0	
10193- CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.73	66.84	16.52	0.00	150.0	± 9.6 %
0/10	5, 5, 7	Y	4.60	66.65	16.24		150.0	
		Z	4.69	66.80	16.58		150.0	
10194- CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.93	67.22	16.63	0.00	150.0	± 9.6 %
CAB	10-QAW)	Υ	4.78	66.99	16.36		150.0	
		Z	4.88	67.16	16.70		150.0	
10195- CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.97	67.23	16.62	0.00	150.0	± 9.6 %
CAB	04-QAW)	Y	4.83	67.01	16.37		150.0	
		Z	4.92	67.17	16.71		150.0	
10196- CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.75	66.95	16.56	0.00	150.0	± 9.6 %
CAB	BFSK)	V	4.61	66.73	16.27	-	150.0	
		Z	4.71	66.90	16.62	2	150.0	
10197-	IEEE 802.11n (HT Mixed, 39 Mbps, 16-	X	4.71	67.24	16.63	0.00	150.0	± 9.6 %
CAB	QAM)	Y	4.00	67.04	10 27		150.0	
			4.80	67.01	16.37		150.0	-
10198-	IEEE 802.11n (HT Mixed, 65 Mbps, 64-	X	4.90 4.98	67.18 67.24	16.71 16.63	0.00	150.0 150.0	± 9.6 %
CAB	QAM)					- Alterd	-45	HIERW
711		Y	4.83	67.03	16.38		150.0	
		Z	4.93	67.19	16.72		150.0	
10219- CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.70	66.98	16.53	0.00	150.0	± 9.6 %
W. F.		Y	4.56	66.74	16.23		150.0	
		Z	4.66	66.92	16.59	line erro	150.0	- F.
10220- CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.95	67.24	16.63	0.00	150.0	± 9.6 %
		Y	4.80	66.99	16.36		150.0	
	A CONTRACTOR OF THE PROPERTY O	Z	4.90	67.17	16.71	110000	150.0	
10221- CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.98	67.17	16.62	0.00	150.0	± 9.6 %
JAD	Safe SIVI)	Y	4.84	66.96	16.37		150.0	
		Z	4.93	67.12	16.70		150.0	
10222-	IEEE 802.11n (HT Mixed, 15 Mbps,	X	5.28	67.46	16.73	0.00	150.0	± 9.6 %
CAB	BPSK)		1 - BONA.	T. F. F. WALLE	1000	0.00		1 3.0 70
		Y	5.15	67.18	16.47		150.0	
		Z	5.25	67.37	16.81		150.0	1

10223- CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	Х	5.66	67.76	16.90	0.00	150.0	± 9.6 %
		Y	5.46	67.36	16.58		150.0	
Jan		Z	5.60	67.65	16.97		150.0	
10224- CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	×	5.34	67.58	16.72	0.00	150.0	± 9.6 %
		Y	5.20	67.28	16.45		150.0	
		Z	5.30	67.46	16.78	- 1 - 2 - 1	150.0	
10225-	UMTS-FDD (HSPA+)	X	3.03	66.77	16.19	0.00	150.0	± 9.6 %
CAB	THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF	Y	2.88	66.27	15.59	0.00	150.0	2 0.0 70
		z	2.99	66.76	16.18		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	43.29	112.24	32.41	6.02	65.0	± 9.6 %
		Y	13.62	91.62	25.79		65.0	
	Towns to the second second second	Z	20.27	99.53	28.74		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	29.93	104.13	29.62	6.02	65.0	± 9.6 %
-		Y	12.07	88.44	24.24		65.0	_
-1,		Z	16.60	94.64	26.69		65.0	
10228-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	X	32.77	113.44	34.77	6.02	65.0	± 9.6 %
CAA	QPSK)	Ŷ	11.53	92.65	27.81	0.02	65.0	1 3.0 %
_								
10229-	LTE TOD (SC EDMA 4 DB 9 MHz 40	Z	17.87	102.20	31.43	0.00	65.0	1000
CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	39.67	110.50	31.86	6.02	65.0	± 9.6 %
_		Υ	12.91	90.59	25.38		65.0	
10000	1 TE TEE (00 FELL) 4 EE 6181 04	Z	19.07	98.31	28.29		65.0	7 2 2 57
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	×	27.95	102.83	29.17	6.02	65.0	± 9.6 %
10.11.1		Y	11.48	87.55	23.88		65.0	
		Z	15.74	93.65	26.31		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	30.59	111.96	34.27	6.02	65.0	± 9.6 %
	A A A A A	Y	10.99	91.68	27.41		65.0	
ALTE.	LILLER THE STREET WATER TOTAL TOTAL	Z	16.92	101.05	31.00		65.0	
10232- CAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	39.68	110.52	31.86	6.02	65.0	± 9.6 %
2010		Y	12.89	90.57	25.37		65.0	
		Z	19.06	98.31	28.29		65.0	
10233- CAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	×	27.96	102.86	29.18	6.02	65.0	± 9.6 %
	32000	Y	11.47	87.54	23.87		65.0	
VACUA -	A CONTRACTOR OF THE PARTY OF TH	Z	15.73	93,66	26.31	- 7 - 7	65.0	
10234- CAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	28.50	110.35	33.71	6.02	65.0	± 9.6 %
. 10		Y	10.51	90.71	26.98		65.0	
he here	A Committee of the Comm	Z	16.06	99.86	30.52	74.7	65.0	
10235- CAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	39.84	110.60	31.88	6.02	65.0	± 9.6 %
777		Y	12.90	90.60	25.38		65.0	
		Z	19.10	98.37	28.31		65.0	
10236- CAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	×	28.31	103.04	29.22	6.02	65.0	± 9.6 %
7.2		Y	11.55	87.64	23.90		65.0	
		Z	15.89	93.80	26.35	to West	65.0	
10237- CAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	30.95	112.21	34.34	6.02	65.0	± 9.6 %
		Y	11.01	91.74	27.43		65.0	
		Z	17.04	101.22	31.05		65.0	
10238-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	X	39.70	110.54	31.86	6.02	65.0	± 9.6 %
CAB	16-QAM)	Y	12.87	90.56	25.36	7.57	65.0	- 5.5 /6
		Z	19.04	98.30	28.29		65.0	
		4	19.04	30.30	20.29		05.0	

10239- CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	27.96	102.87	29.18	6.02	65.0	± 9.6 %
		Υ	11.44	87.52	23.87		65.0	
		Z	15.71	93.66	26.31		65.0	
10240- CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	×	30.81	112.13	34,32	6.02	65.0	± 9.6 %
	177.24	Y	10.98	91.70	27.41		65.0	
	attended to the water and again	Z	16.97	101.15	31.03		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	x	10.73	84.56	26.77	6.98	65.0	± 9.6 %
Or u v	10 30111)	Y	8.92	80.64	24.62		65.0	
		Ż	9.45	82.27	25.74		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	9.86	82.68	25.94	6.98	65.0	± 9.6 %
4.5.	3. 3. 10	Y	8.43	79.43	24.03		65.0	
		Z	8.23	79.26	24.42		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	7.95	79.70	25.63	6.98	65.0	± 9.6 %
O. H.	3.3.3	Y	7.01	76.96	23.85		65.0	
		Z	6.83	76.68	24.20		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	8.92	80.61	21.27	3.98	65.0	± 9.6 %
37,3	12 Mary	Υ	6.38	74.71	17.99		65.0	
		Z	7.09	76.76	19.30		65.0	
10245-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	X	8.77	80.08	21.02	3.98	65.0	± 9.6 %
CAB	64-QAM)	Y	6.31	74.31	17.79	0.00	65.0	2000
		Z	7.00	76.31	19.08		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	9.76	85.21	22.98	3.98	65.0	± 9.6 %
CAD	(QFSN)	Υ	6.48	78.09	19,55		65.0	1
		Z	7.97	81.80	21.40	-	65.0	
10247- CAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	7.32	78.07	20.95	3.98	65.0	± 9.6 %
OND	To-GANITY	Y	5.99	74.48	18.76		65.0	
		Z	6.57	76.31	19.95		65.0	
10248- CAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	7.29	77.48	20.70	3.98	65.0	± 9.6 %
0,10	91 40 1117	Y	5.99	74.02	18.56		65.0	
-		Z	6.57	75.80	19.73		65.0	
10249- CAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	×	10.59	86.69	24.09	3.98	65.0	± 9.6 %
		Y	7.55	80.63	21.24		65.0	
		Z	9.11	84.21	22.99	11.5	65.0	
10250- CAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	×	8.03	79.52	22.68	3.98	65.0	± 9.6 %
W. S.		Y	6.94	76.83	21.11		65.0	
and the second		2	7.45	78.36	22.12		65.0	
10251- CAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	7.54	77.16	21.44	3.98	65.0	± 9.6 %
	(1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Y	6.59	74.73	19.93		65.0	
n Tr	to the same of the	Z	7.07	76.22	20.95		65.0	
10252- CAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	×	9.85	84.64	23.95	3.98	65.0	± 9.6 %
	// ****	Y	7.81	80.48	21.96		65.0	
-11/11/11		Z	8.91	83,13	23.34	10.77	65.0	- 4
10253- CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	7.43	76.05	21.22	3.98	65.0	± 9.6 %
	178 40 700	Y	6.62	73.96	19.92		65.0	
1, 31		Z	7.02	75.23	20.84		65.0	Est Comme
10254- CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	×	7.79	76.80	21.83	3.98	65.0	± 9.6 %
57 A W		Y	7.01	74.87	20.62		65.0	
		1	7.01	14.07	20.02		00.0	

10255- CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	8.48	80.28	22.51	3.98	65.0	± 9.6 %
EARL T		Y	7.26	77.53	21.06		65.0	
ALTIC: D		Z	7.88	79.24	22.10		65.0	1 1 1 1 1
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	7.89	78.39	19.61	3.98	65.0	± 9.6 %
		Y	5.25	71.62	15.79		65.0	
	Armania I was an ana ana ana	Z	5.93	73.77	17.18		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	7.70	77.63	19.24	3.98	65.0	± 9.6 %
		Y	5.18	71.12	15.49		65.0	
		Z	5.83	73.17	16.85		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	×	8.39	82.43	21.42	3.98	65.0	± 9.6 %
-	1 17 E-19	Y	5.23	74.52	17.44	Y	65.0	
	and the second of the second o	Z	6.41	77.99	19.28		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	7.58	78.51	21.52	3.98	65.0	± 9.6 %
		Y	6.36	75.32	19.59		65.0	
IN BUILT	The state of the same of the s	Z	6.92	77.04	20.72		65.0	7.77.7
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	7.59	78.21	21.43	3.98	65.0	± 9.6 %
***		Y	6.39	75.11	19.52		65.0	
		Z	6.94	76.76	20.62		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	9.73	84.99	23.78	3.98	65.0	± 9.6 %
91.12		Y	7.33	79.88	21.31		65.0	
		Z	8.59	82.98	22.89	1.50	65.0	
10262- CAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	8.02	79.49	22.65	3.98	65.0	± 9.6 %
	-/	Y	6.93	76.77	21.07		65.0	
		Z	7.44	78.32	22.09		65.0	
10263- CAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	7.54	77.15	21.44	3.98	65.0	± 9.6 %
TOTAL .		Y	6.58	74.72	19.93		65.0	
171.71		Z	7.06	76.21	20.95		65.0	77.7 77.1
10264- CAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	9.77	84.48	23.87	3.98	65.0	± 9.6 %
*****		Y	7.74	80.30	21.87		65.0	
140.00		Z	8.83	82.96	23.26		65.0	
10265- CAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	7.68	76.78	21.47	3.98	65.0	± 9.6 %
		Y	6.78	74.50	20.13		65.0	
		Z	7.23	75.88	21.08	1.51	65.0	
10266- CAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	8.03	77.49	22.10	3.98	65.0	± 9.6 %
		Y	7.19	75.45	20.89	1	65.0	
articular de la companya de la compa		Z	7.59	76.66	21.75		65.0	
10267- CAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	Х	8.87	80.82	22.44	3.98	65.0	± 9.6 %
22.V2-		Y	7.54	77.97	21.01		65.0	
		Z	8.21	79.70	22.02		65.0	Longer
10268- CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	×	8.11	76.14	21.52	3.98	65.0	± 9.6 %
7.12	delivery of the second	Y	7.39	74.43	20.49		65.0	1
WIETE -	The state of the s	Z	7.73	75.42	21.26		65.0	D. main
10269- CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	×	8.01	75.65	21.40	3.98	65.0	± 9.6 %
		Y	7.35	74.05	20.40		65.0	
		Z	7.66	74.98	21.15	500	65.0	100,000
10270- CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	8.25	77.70	21.36	3.98	65.0	± 9.6 %
		Y	7.38	75.77	20.30		65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	×	2.77	67.19	16.14	0.00	150,0	± 9.6 %
		Y	2.64	66.58	15.47		150.0	
		Z	2.76	67.24	16.17		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	×	1.99	71.22	17,73	0.00	150.0	± 9.6 %
V1	TEAST .	Υ	1.69	68.45	15.99		150.0	
100	A Section of the sect	Z	1.97	71.21	17.76		150.0	
10277- CAA	PHS (QPSK)	×	3.95	66.26	11.53	9.03	50.0	± 9.6 %
7.4.		Y	3.40	64.37	10.05		50.0	
DOME.	t don tripor v	Z	3.52	64.82	10.44		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	9.50	82.04	21.06	9.03	50.0	± 9.6 %
297.7.4		Y	5.88	73.64	16.95		50.0	
		Z	6.77	76.19	18.31		50.0	72472
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	9.74	82.30	21.18	9.03	50.0	±9.6 %
		Y	6.01	73.86	17.07		50.0	
	Lichard Charles The Control of the C	Z	6.94	76.45	18.45	1000	50.0	
10290- AAB	CDMA2000, RC1, SO55, Full Rate	×	2.46	75.89	18.44	0.00	150.0	± 9.6 %
MO DEL		Υ	1.70	70.53	15.31		150.0	
444	A THE RESERVE TO THE PARTY OF T	Z	2.51	76.41	18.31		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	1.43	73,44	17.52	0.00	150.0	± 9.6 %
Mr.		Υ	0.94	67.24	13,73		150.0	
		Z	1.43	73.68	17.27		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	2.54	83.69	21.99	0.00	150.0	± 9.6 %
		Υ	1,31	72.90	16.74		150.0	
77-77		Z	3.10	86.65	22.62	4-11-	150.0	100000
10293- AAB	CDMA2000, RC3, SO3, Full Rate	×	5.51	96.81	26.86	0.00	150.0	± 9.6 %
14.7		Y	2.37	82.04	20.81		150.0	
VIX - 1.1		Z	10.35	106.52	29.20	10000	150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	×	9.44	83.93	24.34	9.03	50.0	± 9.6 %
71111	THE COLUMN STREET STREET	Υ	7.87	79.51	21.75		50.0	
3000		Z	9.25	83.02	23.54	1000	50.0	
10297- AAA	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	3.28	72.16	18.00	0.00	150.0	± 9.6 %
		Y	2.89	70.22	16.91		150.0	
2000	The second secon	Z	3.20	71.91	18.01		150.0	
10298- AAB	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	2.27	72.51	17.54	0.00	150.0	± 9.6 %
11	7/4/2/19	Υ	1.77	69.05	15.22		150.0	
0.00000		Z	2.21	72.49	17.28	2.21	150.0	
10299- AAB	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	×	4.06	75.54	18.10	0.00	150,0	± 9.6 %
-		Υ	2.68	69.58	14.66		150.0	
72400		Z	3.14	72.15	16.34		150.0	100000
10300- AAB	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	×	2.85	69.32	14.70	0.00	150.0	± 9.6 %
		Υ	2.07	65.38	11.94		150.0	
7 m x W x	VALLE 2/15 92 00000000000000000000000000000000000	Z	2.31	66.88	13.18		150.0	7222
10301- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	×	5.31	66.56	18.30	4.17	50.0	± 9.6 %
		Y	4.93	65.62	17.58		50.0	
7222		Z	5.14	66.28	18.23	1000	50.0	1220
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	×	5.77	67.22	19.08	4.96	50.0	± 9.6 %
25,20,25		Y	5.49	66.54	18.44		50.0	
		Z	5.67	67.11	19.07		50.0	

10303- AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	×	5.57	67.12	19.08	4.96	50.0	± 9,6 %
0.00		Y	5.28	66.33	18.36		50.0	
		Z	5.45	66.95	19.03		50.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	×	5.30	66.69	18.39	4.17	50.0	± 9.6 %
4 (41)		Y	5.03	66.04	17.78		50.0	
		Z	5.19	66.56	18.37		50.0	
10305- AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	5.63	71.93	22,51	6,02	35.0	± 9.6 %
		Y	5.27	70.54	21.19		35.0	7
		Z	5.53	71.86	22.37		35.0	Total
10306- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	5.51	68.34	20.47	6.02	35.0	± 9.6 %
	. W. Thirties your water	Y	5.28	68.28	20.17		35.0	
100	A CONTRACTOR OF THE PARTY OF TH	Z	5.45	69.07	21.03		35.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	5.58	69.87	21.34	6.02	35.0	± 9.6 %
	The state of the s	Y	5.26	68.80	20.30		35.0	
DATE:		Z	5.46	69.72	21.22		35.0	I Taranini
10308- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	5.57	70.16	21.52	6.02	35.0	± 9.6 %
	The state of the second	Υ	5.26	69.09	20.47		35.0	
		Z	5.46	70.04	21.41	1	35.0	15.51-5
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	Х	5.61	68.67	20.66	6.02	35.0	± 9.6 %
400		Y	5.36	68.54	20.32	-	35.0	
		Z	5.55	69.42	21.23		35.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	×	5.54	69.37	21.16	6.02	35.0	± 9,6 %
	Language and Control of the Assessment	Y	5.26	68.47	20.19		35.0	
Deciden-	Land of the Printer o	Z	5.43	69.29	21.07		35.0	
10311- AAA	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	3.66	71.33	17.55	0.00	150.0	± 9.6 %
-1-1		Y	3.26	69.52	16.56		150.0	
	3 (3)	Z	3.57	70.98	17.52	1000	150.0	3 77 7
10313- AAA	IDEN 1:3	×	6.85	78.71	18.49	6.99	70.0	± 9.6 %
71117		Y	4.53	72.96	16.00	4	70.0	
ATT . E	1.1.5.5.5.	Z	5.50	75.94	17.40		70.0	A STATE
10314- AAA	IDEN 1:6	X	9.77	87.07	24.06	10.00	30.0	± 9.6 %
-		Y	5.71	78.26	20.69		30.0	
25.74.5.75	Sant harmanan Arranganan Avera	Z	7.05	82.07	22.32		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	Х	1.19	65.68	16.83	0.17	150.0	± 9.6 %
		Y	1.12	64.25	15.52		150.0	1
	And the second second second second	Z	1.18	65.51	16.80		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	×	4.80	66.91	16.63	0.17	150.0	± 9.6 %
	CALCULATION AND CONTRACT OF THE PROPERTY OF TH	Y	4.66	66.67	16.32		150.0	
11/10		Z	4.75	66.85	16.68		150.0	
10317- AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	×	4.80	66.91	16.63	0.17	150.0	± 9.6 %
		Y	4.66	66.67	16.32		150.0	
1.00		Z	4.75	66.85	16.68		150.0	Lavaria
10400- AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.95	67.29	16.62	0.00	150.0	± 9.6 %
14.15	- X C . C3X-3046-X	Y	4.78	67.03	16.34		150.0	
ALCONO.		Z	4.89	67.24	16.70	House F	150.0	10.00
10401- AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.54	67.24	16.62	0.00	150.0	± 9.6 %
		Y	5.44	67.14	16.44		150.0	
		Z	0.44	67.32	10.44		100.0	

10402- AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	×	5.86	67.84	16.76	0.00	150.0	±9.6 %
-7.0		Y	5.72	67.59	16.52		150.0	
		Z	5.84	67.77	16.85		150.0	hada Assarta
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	2.46	75.89	18.44	0.00	115.0	± 9.6 %
		Y	1.70	70.53	15.31		115.0	
	ACCES TO A CONTRACT OF THE PARTY OF THE PART	Z	2.51	76.41	18.31		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	2.46	75.89	18.44	0.00	115.0	± 9.6 %
		Y	1.70	70.53	15.31		115.0	
		Z	2.51	76.41	18.31		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	×	100.00	125.61	32.60	0.00	100.0	± 9.6 %
Tall Inc.		Y	18.10	99.77	25.60		100.0	
112 111		Z	61.65	120.85	31.82		100.0	
	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	1.04	60.00	5.14	2.23	80.0	± 9.6 %
7.77		Y	0.89	60.00	4.65		80.0	
atomatic (William and making and arrest to the same	Z	0.91	60.00	4.76		80.0	
	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	×	1.07	64.33	16.07	0.00	150.0	± 9.6 %
7.7.1		Y	1.02	63.20	14.92		150,0	
		Z	1.07	64.28	16.13	Habitan T	150.0	Transfe.
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	×	4.73	66.87	16.55	0.00	150.0	± 9.6 %
7-1-1-1		Y	4.60	66.69	16.29		150.0	
MILTALE I		Z	4.69	66.84	16.64		150.0	FERF
10417- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	×	4.73	66.87	16.55	0.00	150.0	± 9.6 %
	A TO THE STATE OF	Y	4.60	66.69	16.29		150.0	
		Z	4.69	66.84	16.64		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.72	67.02	16.56	0.00	150.0	± 9.6 %
		Υ	4.59	66.84	16.31		150.0	
		Z	4.68	67.00	16.65	Const	150.0	- 115 6
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	×	4.74	66.98	16.57	0.00	150,0	± 9.6 %
	- Comment	Y	4.61	66.79	16.31		150.0	
		Z	4.70	66.95	16.65		150.0	207.5
10422- AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	×	4.87	66.97	16.57	0.00	150.0	± 9.6 %
		Y	4.74	66.79	16.32	-	150.0	
also la va	A STATE OF S	Z	4.83	66.94	16.66	rianta -	150.0	Landaria in
10423- AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	×	5.08	67.37	16.71	0.00	150.0	± 9.6 %
777	The state of the s	Y	4.92	67.13	16.45		150.0	
MT SET	The second of the second of the second	Z	5.02	67.31	16.79	4-5-7-	150.0	
10424- AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	×	4.99	67.31	16.68	0.00	150.0	± 9.6 %
1777	THE RESERVE TO THE PARTY OF THE	Y	4.83	67.08	16.42		150.0	
Maria I	Transfer of the second form	Z	4.94	67.26	16.76		150.0	LIALT
10425- AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	×	5.54	67.56	16.78	0.00	150.0	± 9.6 %
7-111	11/1/2014	Y	5.42	67.39	16.57		150.0	
N. VIII		Z	5.53	67.59	16.92	11.	150.0	
10426- AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	×	5.55	67.61	16.79	0.00	150.0	± 9.6 %
	4.5327	Y	5.42	67.39	16.57		150.0	
		Z	5.54	67.62	16.93		150.0	

10427- AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.58	67.64	16.80	0.00	150.0	± 9,6 %
		Y	5.44	67.39	16.57		150.0	
X.13.6.1		Z	5.55	67.59	16.91		150.0	
10430- AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	×	4.51	70.76	18.66	0.00	150.0	± 9.6 %
-111171		Υ	4.44	71.22	18.60		150.0	
1000	CONTRACTOR CONTRACTOR TO STATE OF THE STATE	Z	4.47	71.02	18.77	6 7	150.0	
10431- AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	х	4,49	67.52	16.70	0.00	150.0	± 9.6 %
777		Y	4.31	67.26	16.34		150.0	
		Z	4.43	67.52	16.75		150.0	
10432- AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.77	67.38	16.68	0.00	150.0	± 9.6 %
		Y	4.60	67.13	16.38		150.0	
1000	the state of the s	Z	4.71	67.34	16.75	C. Tatal	150.0	
10433- AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	5.00	67.36	16.71	0.00	150.0	± 9.6 %
14.4		Y	4.85	67.12	16.44		150.0	
alva a	First PHY LANDING SOLVERS	Z	4.95	67.30	16.79		150.0	100
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	×	4.64	71.62	18.73	0,00	150.0	± 9.6 %
Lai A		Υ	4.58	72.20	18.67		150.0	
		Z	4.61	71.98	18.84		150.0	
10435- AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	1.04	60.00	5.13	2.23	80.0	± 9.6 %
47.45		Y	0.89	60.00	4.64		80.0	
Value		Z	0.91	60.00	4.75		80.0	1
10447- AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	Х	3.84	67.78	16.39	0.00	150.0	± 9.6 %
270	77712 774	Y	3.62	67.35	15.80		150.0	
	The second secon	Z	3.77	67.79	16.35		150.0	
10448- AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	4.31	67.31	16.56	0.00	150.0	± 9.6 %
		Y	4.14	67.04	16.20		150.0	
		Z	4.25	67.30	16.62	4.670.7.1	150.0	L. P.A. H. Y.
10449- AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	×	4.55	67.22	16.59	0.00	150.0	± 9.6 %
		Y	4.41	66.97	16.29		150.0	
toran -		Z	4.51	67.17	16.66		150.0	
10450- AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	4.72	67.13	16.58	0.00	150.0	± 9.6 %
-		Y	4.59	66.89	16.30		150.0	
	ACCOUNT BOARD FOR AND IN	Z	4.69	67.07	16.65		150.0	1 = 1 = 1 = 1
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	Х	3.80	68.19	16.23	0.00	150.0	± 9.6 %
		Y	3.54	67.62	15.51		150.0	
		Z	3.71	68.17	16.13		150,0	
10456- AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	×	6.39	68.18	16,93	0.00	150.0	± 9.6 %
000	A second six or a	Υ	6.27	67.95	16.72		150.0	7
4.5.2	CONTRACTOR AND CONTRACTOR	Z	6.39	68.13	17.04		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	×	3.89	65.51	16.31	0.00	150.0	± 9.6 %
		Y	3.83	65.32	16.01		150.0	
Justin -		Z	3.88	65.45	16.37	Latrical.	150.0	i Louis
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.59	67.34	15.72	0.00	150.0	± 9.6 %
25.67	10000000	Y	3.36	66.90	14.95		150.0	7
1.7.		Z	3.52	67.43	15.60	E titl	150.0	2 2000
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.67	65.24	16.19	0.00	150.0	± 9.6 %
		Y	4.49	65.25	15.83		150.0	
			7,70	00.20	10.00		100.0	

10460- AAA	UMTS-FDD (WCDMA, AMR)	×	1.30	75,35	20.39	0.00	150.0	± 9.6 %
		Υ	0.95	69.09	16.82		150.0	
		Z	1.33	75.72	20.56		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	100.00	123.38	31.84	3.29	80.0	± 9.6 %
		Y	10.65	90.05	22.29		80.0	
		Z	100.00	122.02	30,96		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	106.78	23.96	3.23	80.0	± 9.6 %
	2 3.30 - 3.00	Υ	1.88	64.80	10.89		80.0	
		Z	3.69	72.00	14.07	- Arresta	80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	11.42	82.27	17.21	3.23	80.0	± 9.6 %
		Υ	1.49	62.10	9.23		80.0	
		Z	2.13	65.72	11.15	0.00	80.0	
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	100.00	121.19	30.67	3.23	80.0	± 9.6 %
7. 6.17		Y	7.57	84.80	20.18		80.0	
Total Co.		Z	100.00	119.52	29.65	2000	80.0	10 00 100 100
10465- AAA		X	43.93	97.74	21.77	3.23	80.0	± 9.6 %
4 Table		Y	1.75	64.01	10.48		80.0	
-		Z	3.03	69.90	13.23	6/4/4	80.0	7 2 2 2 2
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	7.34	77.70	15.77	3.23	80.0	± 9.6 %
11111	the state of the property of the state of th	Υ	1.43	61.67	8.98		80.0	
Cover		Z	1.94	64.77	10.69	2.22	80.0	
10467- AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	100.00	121.41	30.77	3.23	80.0	± 9.6 %
7444	The service are the contract of the contract o	Y	8.25	85.96	20.56		80.0	
dia In-		Z	100.00	119,76	29.76		80.0	
10468- AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	56.76	100.52	22.45	3.23	80.0	± 9.6 %
		Y	1.77	64.19	10.58		80.0	
A STATE OF THE STA		Z	3.16	70.38	13.42		80.0	
10469- AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	7.46	77.87	15.82	3.23	80.0	± 9.6 %
140-21-0		Υ	1.42	61.68	8.98	Mark I	80.0	
	Donate miles Man auto Ara	Z	1.94	64.80	10.70		80.0	
10470- AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	100.00	121.44	30.78	3.23	80.0	± 9.6 %
		Y	8.24	85.96	20.55		80.0	
1777	A ferror to the contract that the contract of	Z	100.00	119.78	29.76		80.0	
10471- AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	55.97	100.32	22.39	3.23	80.0	± 9.6 %
	E CONTRACTOR UNITED TO THE PERSON OF THE PER	Y	1.77	64.15	10.55		80.0	
Value -		Z	3.14	70.29	13.38	222	80.0	
10472- AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	7.38	77.75	15.77	3.23	80.0	± 9.6 %
	12-20 de - 30	Y	1.42	61.65	8.95		80.0	-
	V	Z	1.93	64.74	10.66		80.0	
10473- AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	121.41	30.76	3.23	80.0	± 9.6 %
		Y	8.21	85.90	20.53		80.0	
10474-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-	Z	100.00 54.63	119.74 100.08	29.74 22.33	3.23	80.0	± 9.6 %
AAA	QAM, UL Subframe=2,3,4,7,8,9)	11	1 40	01.10	40.70		00.0	
		Y	1.76	64.12	10.53		80.0	-
10475	LITE TOD (OC FDMA 4 DD 45 ML CA	Z	3.12	70.24	13.36	2.02	80.0	+000
10475- AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	7.30	77.66	15.74	3.23	80.0	± 9.6 %
		Y	1.42	61.64	8.95		80.0	
		Z	1.92	64.72	10.66		80.0	

10477- AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	×	45.20	97.99	21.80	3.23	80.0	± 9.6 %
		Υ	1.73	63.96	10.44		80.0	
		Z	3.01	69.84	13.18	-	80.0	
10478- AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	7.16	77.43	15.66	3.23	80.0	± 9.6 %
		Y	1.41	61.61	8.92		80.0	
		Z	1,91	64.65	10.62		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	5.91	75.99	14.82	1.99	80.0	± 9.6 %
	HXX 4.01-00-3 F AV8.3 F 1VE = = 1	Y	1.08	60.00	7.15	7	80.0	
		Z	1.10	60.19	7.71		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.45	60.06	7.55	1.99	80.0	± 9.6 %
		Y	1.37	60.00	6.47		80.0	
	Language of the Committee of the Committ	Z	1.37	60.00	6.83		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	1.47	60.00	7.29	1.99	80.0	± 9.6 %
To Lor	A CONTRACTOR OF THE PROPERTY O	Υ	1.40	60.00	6.25		80.0	
V 2 7 2 11		Z	1.41	60.00	6.61		80.0	1
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	7.80	84.12	21.31	1.99	80.0	± 9,6 %
		Y	3.14	71.12	15.65		80.0	
10100		Z	5.38	78.66	18.99		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	8.35	81,49	20.25	1.99	80.0	± 9.6 %
		Y	3.48	69.04	14.44		80.0	
V-1-1		Z	4.91	73.86	16.90		80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	7.63	80.04	19.79	1.99	80.0	± 9.6 %
1119	The state of the s	Y	3.40	68.52	14.26		80.0	
		Z	4.66	72.96	16.59		80.0	
10485- AAA	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	7.85	84.84	22.34	1.99	80.0	± 9.6 %
		Υ	3.88	74.14	17,77		80.0	
72772		Z	6.12	81.14	20.82	- 1-06/-	80.0	
10486- AAA	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.81	74.44	18.50	1.99	80.0	± 9.6 %
		Y	3.38	69.22	15.56		80.0	
VP 12W		Z	4.16	72.36	17.34		80.0	
10487- AAA	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.71	73.76	18.25	1.99	80.0	± 9.6 %
		Υ	3,38	68.86	15.42		80.0	
10488-	LTE-TDD (SC-FDMA, 50% RB, 10 MHz,	Z X	4.09 6.62	71.77 80.89	17.11 21.55	1,99	80.0 80.0	± 9.6 %
AAA	QPSK, UL Subframe=2,3,4,7,8,9)	Υ	4.24	73.93	18.46	1	80.0	Carrier Co.
		Z	5.61	78.53	20.63		80.0	
10489- AAA	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.65	72.87	18.87	1.99	80.0	± 9.6 %
1771		Y	3.80	69.75	17.04		80.0	
		Z	4.28	71.75	18.30		80.0	
10490- AAA	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	4.67	72.34	18.69	1.99	80.0	± 9.6 %
	150.1315139	Y	3.89	69.54	17.00		80.0	
		Z	4.33	71.35	18.18	l sere	80.0	The state of
10491- AAA	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	5.71	76.53	20.11	1.99	80.0	± 9.6 %
77.7.	A Talana	Y	4.30	72.07	17.97		80.0	
Service Control	Control of the Contro	Z	5.10	74.93	19.49		80.0	100
10492- AAA	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	4.75	71.22	18.45	1.99	80.0	± 9.6 %
-91100	Total Control of the	Y	4.12	69.01	17.10		80.0	
		Z	4.47	70.39	18.07		80.0	

10493- AAA	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	4.79	70.92	18,35	1.99	80.0	± 9.6 %
		Y	4.19	68.86	17.06		80.0	
77.7	The second secon	Z	4.52	70.15	17.99		80.0	
10494- AAA	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.88	79.43	20.92	1.99	80.0	± 9.6 %
101.51		Y	4.75	73.68	18.38		80.0	
		Z	5.90	77.23	20.12		80.0	
10495-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	X	4.90	72.00	18.74	1.99	80.0	± 9.6 %
AAA	16-QAM, UL Subframe=2,3,4,7,8,9)		1000	69.50	17.30	1.00	80.0	2 0.0 70
		Y	4.18			-		
10100	LITE TOD 100 FOLLA CON DR COLUM	Z	4.57	71.02	18.32	4.00	80.0	. 0 0 0/
10496- AAA	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.89	71.39	18.54	1.99	80.0	± 9.6 %
		Y	4.25	69.18	17.23		80.0	
	THE RESERVE OF THE PROPERTY OF THE PARTY OF	Z	4.60	70.53	18.17		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	5.37	78.58	18,65	1.99	80.0	± 9.6 %
		Y	2.02	65.69	12.44		80.0	
I minima	and the control of th	Z	3.18	71.42	15.37		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	3.00	68.10	13.82	1.99	80.0	± 9.6 %
		Y	1.68	61.35	9.53		80.0	
		Z	2.07	63.64	11.15		80.0	
10499-	LTE-TDD (SC-FDMA, 100% RB, 1.4	X	2.89	67.31	13.36	1.99	80.0	± 9.6 %
AAA	MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	69	2.00	01.01	10.00	1.00	00.0	20.0 %
		Y	1.65	60.97	9.22		80.0	
		Z	2.01	63.05	10.74		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.75	81.99	21.66	1.99	80,0	±9,6 %
7-11		Y	3.94	73.71	17.96		80.0	
77.7	A STATE OF THE PARTY OF THE PAR	Z	5.60	79.29	20.52	1. 1. 1	80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	4.70	73.61	18.57	1.99	80.0	± 9.6 %
		Y	3.58	69.51	16.18		80.0	
1.5.0		Z	4.22	72.10	17.71		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.70	73.19	18.37	1.99	80.0	± 9.6 %
	1 - 1-7 JULE 1917 LEE BLOOD JULE 1917	Y	3.63	69.31	16.06	-	80.0	
	The second second second second second	Z	4.24	71.75	17.53		80.0	
10503- AAA	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.49	80.57	21.42	1.99	80.0	± 9.6 %
3,0,0,1		Υ	4.17	73.68	18.35		80.0	
		Z	5.51	78.24	20.51		80.0	
10504- AAA	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.62	72.77	18.81	1.99	80.0	± 9.6 %
7.77		Y	3.78	69.64	16.98		80.0	1-2-
		Z	4.26	71.65	18.24		80.0	
10505- AAA	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	4.64	72.23	18.63	1.99	80.0	± 9.6 %
	5. 55 m, 52 555 mm 2 557 m 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Y	3.86	69.43	16.93		80.0	
		z	4.30	71.24	18.12		80.0	
10506- AAA	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.78	79.20	20.83	1.99	80.0	± 9.6 %
		Y	4.70	73.49	18.30		80.0	
		Z	5.83	77.02	20.03		80.0	
10507-	LTE-TDD (SC-FDMA, 100% RB, 10	X	4.88	71.92	18.70	1.99	80.0	± 9.6 %
AAA	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	^	4.00	71.52	10.70	1.55	30.0	1 3.0 %
		4		22.02	73.22		7000	+
		Y	4.16	69.42	17.26		80.0	

EX3DV4- SN:3994

10508- AAA	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	4.87	71.31	18.50	1,99	80.0	±9.6 %
		Y	4.23	69.10	17.18		80.0	
		Z	4.58	70.45	18.13		80.0	
10509- AAA	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	6.19	75.65	19.57	1.99	80.0	± 9.6 %
11111		Y	4.87	71.89	17.77		80.0	
Salar -		Z	5.56			Trans.	The second second	TULF
10510- AAA	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	12, 64-QAM, UL 17.18 17.18 17.18 17.18 18.00 18.18 18.00 17.18 18.00 18.18 18.00 18.18 18.00 18.18 18.00 18.18 18.00 18.18 18.00 18.18 18.00 18.18 18.00 18.18 18.00 18.18 18.00 18.18 18.00 18.18 18.00 18.18 18.00 18.18 18.00 18.18 18.18 18.00 18.18 18.18 18.00 18.18 18.	± 9.6 %					
		Y	4.63	69.08	17.26		80.0	
	Transfer of the American State of the State		4.95	70.21	18.08	W. N. S. S. S.	80.0	-
10511- AAA	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	5.23	70.58	18.28	1.99	80.0	± 9.6 %
		Y	4.67	68.80	17.20		80.0	
1-0	Heat Section That is not a section to							The state of the state of
10512- AAA	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	7.27	78.78	20.51	1.99	80.0	± 9.6 %
	The second secon			76.56	19.72	5-1/		
10513- AAA	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	5.24	71.76		1.99	80.0	± 9.6 %
					17.37		80.0	
	the second secon	Z	4.90	70.77	18.28		80.0	1225
10514- AAA	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	5.13	71.00	18.44	1.99	80.0	±9.6 %
			4.54	68.98	17.26			
	A THE RESERVE AS PROPERTY AND ADDRESS.	Z	4.85	70.13	18.09	Bull Line	80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	11254	1-666	1000000	- W. Y.	0.00	1 1 (74.9°5) La	± 9.6 %
1771							The second secon	
West and	The second secon					Lame		13.00
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)				V 10 2	0.00		± 9.6 %
					THE RESERVE AND ADDRESS OF THE PARTY OF THE			
10517- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	100	6548		7.00	0.00	11.75	± 9.6 %
	Control to A ALM AND							
								- The second
10518- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	177		1000000	1 41000	0.00	1000	± 9.6 %
to be I decree	A CONTRACTOR DO CARROLL CONTRACTOR OF THE CONTRA							
10519-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12					0.00		± 9.6 %
AAA	wipps, aabc duty cycle)	V	4 90	67.00	16.40		150.0	
10520-	IEEE 802 119/h WIELS GU- (DEDM 19					0.00		± 9.6 %
AAA	Mbps, 99pc duty cycle)	577	- M	1.1.2 196	1000	0.00		1 3.0 %
		4				0.00		± 9.6 %
10521-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24		4.74	07.20	1,515.5	140404	3,37,47	LINE VICTOR
10521- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	1000			10000	150.0	: Waster
		X	4.58	67.00	16.32	1000	150.0	- W.W.W.
AAA 10522-	Mbps, 99pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36	X	1000			0.00	150.0 150.0 150.0	± 9.6 %
AAA	Mbps, 99pc duty cycle)	X Y Z	4.58 4.69	67.00 67.21	16.32 16.68		150.0	± 9.6 %

10523- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.65	67,15	16,51	0.00	150.0	± 9.6 %
		Υ	4.51	66.92	16.24		150.0	
-		Z	4.61	67.11	16.59		150.0	100000
10524- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	×	4.73	67.19	16.63	0.00	150.0	± 9.6 %
		Y	4.58	66.97	16.36		150.0	
		Z	4.69	67.17	16.71	2-	150.0	I TO A
10525- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.69	66.23	16.21	0.00	150.0	± 9.6 %
7-1-1-1	The state of the s	Y	4.56	66.02	15.95		150.0	
Contract of		Z	4.65	66.19	16.29	17070	150.0	The POLICE
10526- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.90	66.64	16.36	0.00	150.0	± 9.6 %
1 1/21		Y	4.74	66.40	16.09		150.0	
	CONTRACTOR AND	Z	4.85	66.60	16.44		150.0	
10527- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	×	4.81	66.64	16.33	0.00	150.0	± 9.6 %
777170		Y	4.66	66.37	16.04		150.0	
	and the state of t	Z	4.77	66.57	16.40		150.0	
10528- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.83	66.66	16.36	0.00	150.0	± 9.6 %
TIF		Y	4.68	66.39	16.08		150.0	
	Level of the second are not be the second	Z	4.79	66.59	16,43	-	150.0	T
10529- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	×	4.83	66.66	16.36	0.00	150.0	± 9.6 %
		Y	4.68	66.39	16.08		150.0	
		Z	4.79	66.59	16.43	- 1.71.1	150.0	
10531- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.85	66.82	16.39	0.00	150.0	± 9.6 %
		Y	4.68	66.51	16.10		150.0	
C. Track	Link BULLEY OF BUILDING STORY	Z	4.79	66.75	16.46	7.72	150.0	
10532- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.70	66.71	16.35	0.00	150.0	± 9.6 %
77.2.2		Y	4.53	66.37	16.04		150.0	
44.734	THE RESIDENCE OF A PLANTAGE AND A	Z	4.65	66.61	16.41	E S. JATE	150.0	-IALA
10533- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	Х	4.85	66.67	16.33	0.00	150.0	± 9.6 %
		Y	4.69	66.43	16.06		150.0	
4 bed 7 b	A A A A A A A A A A A A A A A A A A A	Z	4.80	66.62	16.41		150.0	Late was
10534- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	Х	5.33	66.76	16.36	0.00	150.0	± 9.6 %
. 177		Y	5.20	66.50	16.12		150.0	
	Linetonne Linetone del Versione de versione	Z	5.30	66.68	16.44	Lackson.	150.0	100000
10535- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.41	66.90	16.42	0.00	150.0	± 9.6 %
X-17.		Y	5.26	66.66	16.18		150.0	
		Z	5.37	66.83	16.51	1	150.0	-and
10536- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.28	66.91	16.41	0.00	150.0	± 9.6 %
117	TO 10 10 10 10 10 10 10 10 10 10 10 10 10	Y	5.14	66.63	16.16		150,0	
Land of	TOTAL STREET, STATE OF THE STATE OF	Z	5.25	66.82	16.49	11 11 11	150.0	
10537- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	×	5.34	66.87	16.39	0.00	150.0	± 9.6 %
		Y	5.19	66.60	16.14	1	150.0	
hit is a	The second of the contribution of the contribu	Z	5.31	66.79	16.48		150.0	Literation
10538- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.45	66.93	16.46	0.00	150.0	± 9.6 %
2-9 17	A STATE OF THE STA	Y	5.29	66.63	16.20		150.0	
terret.	Compression in the contract of	Z	5.41	66.84	16.54	1	150.0	1
10540- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	×	5.35	66.88	16.45	0.00	150.0	± 9.6 %
		Y	5.21	66.62	16.21		150.0	
		Z	5.32	66.81	16.54	-	150.0	+

10541- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	×	5.34	66.81	16.42	0.00	150.0	± 9.6 %
		Y	5.19	66.51	16.14		150.0	
		2	5.29	66.68	16.47	T	150.0	
10542- AAA	IEEE 802,11ac WiFi (40MHz, MCS8, 99pc duty cycle)	×	5.48	66.81	16.42	0.00	150.0	± 9.6 %
		Y	5.34	66.56	16.19	45-7	150.0	
	ARYAN A MARKANIA PAR TO	Z	5.45	66.74	16.51		150.0	
10543-	IEEE 802.11ac WiFi (40MHz, MCS9,	X	5.57	66.83	16.44	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)	Y	5.42	66.59	16.22		150.0	.7.783.53
17,		Z	5.53	66.75	16.53		150.0	
10544- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.61	66.85	16.34	0.00	150.0	± 9.6 %
1991		Y	5.50	66.61	16.11		150.0	
		Z	5.59	66.75	16.41		150.0	
10545-	IEEE 802.11ac WiFi (80MHz, MCS1,	X	5.82	67.24	16.46	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)	Y	5.69	67.01	16.25	0.00	150.0	1 5.5 %
10546-	JEEE BOO 440- WIEL (DOMNIE MOOO	Z	5.82	67.22	16.58	0.00	150.0	1000
10546- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	×	5.71	67.16	16.44	0.00	150.0	± 9.6 %
	Control of the contro	Y	5.57	66.85	16.19		150.0	
		Z	5.69	67.04	16.51		150.0	
10547- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	×	5.80	67.22	16.46	0.00	150.0	± 9.6 %
	The Assessment of the Control of the	Y	5.65	66.90	16.20	-	150.0	
		Z	5.78	67.12	16.54		150.0	The Paris
10548- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	6.08	68.21	16.93	0.00	150.0	± 9.6 %
		Y	5.90	67.82	16.63		150.0	
	THE RESERVE THE PROPERTY OF THE PARTY OF THE	Z	6.16	68.44	17.17		150.0	
10550- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.73	67.09	16.42	0.00	150.0	± 9.6 %
		Y	5.59	66.83	16.19		150.0	
		Z	5.70	67.00	16.50		150.0	
10551- AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.75	67.20	16.43	0.00	150.0	± 9.6 %
7333		Y	5.61	66.89	16.18		150.0	
		Z	5.72	67.07	16.49		150.0	
10552- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.65	66.96	16,33	0,00	150.0	± 9.6 %
		Y	5.52	66.69	16.09		150.0	
		Z	5.61	66.82	16.39		150.0	
10553- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.74	67.00	16.37	0.00	150.0	± 9.6 %
3.0'		Y	5.61	66.73	16.14		150.0	
		Z	5.71	66.87	16.44		150.0	Contract
10554- AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	Х	6.00	67.22	16.42	0.00	150.0	± 9.6 %
		Y	5.90	66.97	16.19		150.0	
		Z	6.00	67.12	16.49		150.0	
10555- AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	6.16	67.57	16.56	0.00	150.0	± 9.6 %
		Y	6.03	67.27	16.31		150.0	
The same	Constant of the same of the sa	Z	6.15	67.47	16.64	100.11	150.0	1771.7
10556- AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.17	67.57	16.55	0.00	150.0	± 9.6 %
NAME OF TAXABLE PARTY.	The state of the s	Y	6.05	67.31	16.33		150.0	
		Z	6.17	67.50	16.65	F.19.3	150.0	
	IEEE 1602.11ac WiFi (160MHz, MCS3,	X	6.16	67.55	16.57	0.00	150.0	± 9.6 %
10557- AAA		L CVY		2.7.7.		1		1 1 1 1 1 1 1 1
10557- AAA	99pc duty cycle)	Y	6.02	67.24	16.32		150.0	

10558- AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.22	67.74	16.67	0.00	150.0	± 9.6 %
		Υ	6.07	67.41	16.41		150.0	
45.7		Z	6.21	67.63	16.75		150.0	
10560- AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	×	6.21	67.57	16.63	0.00	150.0	± 9.6 %
7.7	1	Y	6.07	67.26	16.38		150.0	
		Z	6.19	67.43	16.68		150.0	W-1-1-
10561-	IEEE 1602.11ac WiFi (160MHz, MCS7,	X	6.12	67.52	16.64	0.00	150.0	± 9.6 %
AAA	99pc duty cycle)	Y	5.99	67.22	16.39	0.00	150.0	10.0 //
10562- AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	Z X	6.11 6.28	67.41 68.00	16.71 16.88	0.00	150.0 150.0	± 9.6 %
nnn	sape duty cycle)	Y	6.12	67.63	16.60	-	150.0	-
		Z	6.28	67.94	16.98		150.0	
10500	IEEE 1000 11cc Wiei (100MHz, MCCO	X		68.37	17.01	0.00	150.0	± 9.6 %
10563- AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)		6.56	25000	244	0.00		19.0 %
		Y	6.44	68.15	16.80		150.0	
		Z	6.67	68.64	17.27	0.10	150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	5.05	67.03	16,68	0,46	150.0	± 9.6 %
		Υ	4.92	66.82	16.40		150.0	
		Z	5.02	66.98	16.75		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	5.33	67.53	17.00	0.46	150.0	± 9.6 %
		Y	5.17	67.30	16.74		150.0	
		Z	5.27	67.46	17.07		150.0	11016
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	X	5.16	67.41	16.85	0.46	150.0	± 9.6 %
7.0.0.1	CT DIM, TO MODE, COPO GALLY CYCLOY	Y	5.00	67.14	16.55		150.0	
		Z	5.10	67.33	16.90		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	5.18	67.81	17.18	0.46	150.0	± 9.6 %
rvvi	Of Divi, 24 Mops, sope daty cycle)	Y	5.03	67.58	16.93		150.0	
		Z	5.13	67.72	17.25		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	5.06	67.11	16.58	0.46	150.0	± 9.6 %
/VV1	Or Divi, 30 (vibps, 33pc daty cycle)	Y	4.90	66.86	16.29		150.0	
		Z	5.01	67.08	16.66	-	150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	5.12	67.81	17.20	0.46	150.0	± 9.6 %
AAA	OFDIVI, 46 Midps, 99pc duty cycle)	Y	4.98	67.64	16.98		150.0	
					17.28		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	5.07 5.17	67.75 67.64	17.13	0.46	150.0	± 9.6 %
	S. Sin, or mope, cope daty cycle)	Y	5.02	67.47	16.90		150.0	
		Z	5.12	67.60	17.22		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.34	66.86	17.34	0.46	130.0	± 9.6 %
7001	Misps, sope daty cycle)	Y	1.24	65.03	15.83		130.0	-
_		Z	1.32	66.52	17.21		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.38	67.68	17.80	0.46	130.0	± 9.6 %
rvvi	wisps, sope duty cycle/	Y	1.26	65.66	16.21		130.0	-
		Z	1.35	67.31	17.66		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	100.00	152,10	41.27	0.46	130.0	± 9.6 %
AAA	wups, sope duty cycle)	Y	2.82	88.89	24.00		130.0	1
		Z	100.00	151.69	41.06		130.0	
10674	IEEE 000 11h WIELD 4 OUT /DOOD 11					0.46		1000
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	×	1.90	77.77	22.47	0.46	130.0	± 9.6 %
	A STATE OF THE PARTY OF THE PAR	Y	1.47	72.23	19.41		130.0	
		Z	1.82	77.04	22.21		130.0	

10575- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 90pc duty cycle)	×	4.84	66.81	16.72	0.46	130.0	± 9.6 %
		Υ	4.71	66.58	16,41		130.0	
		Z	4.80	66.75	16.78		130.0	
10576- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	×	4.87	66.98	16.79	0.46	130.0	± 9.6 %
30411		Y	4.73	66.75	16.49		130.0	
	Annual Control of the	Z	4.83	66.92	16.84	- + -7-	130.0	-
10577- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	5.11	67.32	16.97	0.46	130.0	± 9.6 %
		Y	4.95	67.07	16.67		130.0	
Sec. 12. 1		Z	5.05	67.24	17.02		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	X	5.01	67.50	17.07	0.46	130.0	± 9.6 %
17.7	Carried and the second	Y	4.85	67.25	16.78		130.0	
		Z	4.95	67.42	17.12		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	X	4.78	66.88	16.45	0.46	130.0	± 9.6 %
		Y	4.61	66.49	16.06		130.0	
71,55		Z	4.72	66.77	16.48		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	×	4.82	66.83	16.44	0.46	130.0	± 9.6 %
	1000	Y	4.65	66.50	16.07		130.0	
£ 4	Carried and the second second	Z	4.77	66.77	16.48		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.91	67.59	17.04	0.46	130.0	± 9.6 %
7-7-3		Y	4.75	67.28	16.71		130.0	
701 00		Z	4.85	67.47	17.07		130.0	7
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.74	66.63	16.25	0.46	130.0	± 9.6 %
		Y	4.55	66.23	15.83		130.0	
	The state of the s	Z	4.67	66.54	16.28		130.0	
10583- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.84	66.81	16.72	0.46	130.0	± 9.6 %
1-1-7-1		Y	4.71	66.58	16.41		130.0	
		Z	4.80	66.75	16.78		130.0	
10584- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.87	66.98	16.79	0.46	130.0	± 9.6 %
2-1/8/5		Y	4.73	66.75	16.49		130.0	
		Z	4.83	66.92	16.84		130.0	
10585- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	5.11	67.32	16.97	0.46	130.0	± 9.6 %
7220		Y	4.95	67.07	16.67		130.0	
	LANGE CONTRACTOR OF THE PARTY	Z	5.05	67.24	17.02		130.0	
10586- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	5.01	67.50	17.07	0.46	130.0	± 9.6 %
6.5	District to the state of the st	Y	4.85	67.25	16.78		130.0	
anda E		Z	4.95	67.42	17.12		130.0	T. T. Waster
10587- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.78	66.88	16.45	0.46	130.0	± 9.6 %
	THE COURSE OF TH	Y	4.61	66.49	16.06		130.0	
		Z	4.72	66.77	16.48	Salva II	130.0	
10588- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.82	66.83	16.44	0.46	130.0	± 9.6 %
		Y	4.65	66.50	16.07		130.0	
		Z	4.77	66.77	16.48		130.0	1.11.2.1
10589- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.91	67.59	17.04	0.46	130.0	± 9.6 %
		Y	4.75	67.28	16.71		130.0	
1.115		Z	4.85	67.47	17.07		130.0	
10590- AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.74	66.63	16.25	0.46	130.0	± 9.6 %
		1		22.22	1 - 1000 7 -	-	7000	-
41.44	The state of the s	Y	4.55	66.23	15.83		130.0	

10591- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	×	4.99	66.86	16.81	0.46	130.0	± 9.6 %
		Y	4.86	66.65	16.52		130.0	
		Z	4.95	66.80	16.86	- 71.7	130.0	
10592- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	5.17	67.21	16.93	0.46	130.0	± 9.6 %
Major .	THE STREET STREET	Y	5.02	66.99	16.65		130.0	
	Control III. and burn of the same	Z	5.12	67.15	16.99	5	130.0	
10593- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	×	5.10	67.18	16.85	0.46	130.0	± 9.6 %
, , ,	mode, cope day cycley	Y	4.94	66.91	16.53		130.0	
		Z	5.05	67.09	16.89		130.0	
10594- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	5.15	67.32	16.98	0.46	130.0	± 9.6 %
7.00		Y	5.00	67.08	16.69		130.0	
		Z	5.10	67.24	17.03	7.3	130.0	- Curanti
10595- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	×	5.13	67,30	16.89	0.46	130.0	± 9.6 %
		Y	4.97	67.02	16.58		130.0	
Torrest to a	THE THIRD WAS A SECOND OF THE	Z	5.07	67.21	16.94		130.0	100
10596- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	5,07	67.29	16.89	0.46	130.0	± 9.6 %
01111-		Y	4.90	67.02	16.58		130.0	
energy I.	A STATE OF THE STA	Z	5.01	67.22	16.94	C traje to	130.0	H. Const
10597- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	×	5.02	67.25	16.81	0.46	130.0	± 9.6 %
	Section of the sectio	Υ	4.85	66,93	16.47		130.0	LEGIC
1000		Z	4.96	67.15	16.85	The American	130.0	
10598- AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	×	5.00	67.51	17.08	0.46	130.0	± 9.6 %
		Y	4.84	67.20	16.75		130.0	
Con district		Z	4.94	67.39	17.11		130.0	17.22
10599- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	×	5.65	67.44	16.97	0.46	130.0	± 9.6 %
		Y	5.52	67.19	16.70		130.0	
13.2.1.		Z	5.63	67.39	17.06		130.0	
10600- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	×	5.86	68.06	17.25	0.46	130.0	± 9.6 %
		Y	5.67	67.63	16.89		130.0	
		Z	5.84	68.05	17.36	-	130.0	
10601- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.71	67.69	17.08	0.46	130.0	± 9.6 %
		Y	5.55	67.37	16.78		130.0	
e e constant	A Company of the Party of the Company of the Compan	Z	5.69	67.66	17.18	1 1	130.0	1.00
10602- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	×	5.81	67.70	17.00	0.46	130.0	± 9.6 %
1777	Programme and the second	Y	5.63	67.34	16.68		130.0	
		Z	5.77	67.64	17.08	1	130.0	L 77 505 54
10603- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	×	5.92	68.10	17.33	0.46	130.0	± 9.6 %
		Y	5.73	67.71	17.00		130.0	
	A SALTER STATE OF THE PROPERTY OF	Z	5.85	67.91	17.35		130.0	
10604- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.66	67.43	16.98	0.46	130.0	± 9.6 %
		Y	5.52	67.15	16.71		130.0	
		Z	5.63	67.35	17.06	CO.	130.0	
10605- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	×	5.77	67.70	17.12	0.46	130.0	± 9.6 %
400		Υ	5.63	67.44	16.85		130.0	
OM ANY	Two days and the second	Z	5.76	67.71	17.24		130.0	
10606- AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	×	5.55	67.21	16.75	0.46	130.0	± 9.6 %
X P C		Y	5.40	66.90	16.44		130.0	
		Z	5.51	67.10	16.81		130.0	

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10607- AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	×	4.83	66.19	16.43	0.46	130,0	± 9.6 %
400		Y	4.69	65.96	16.14		130.0	1
		Z	4.79	66.12	16.49		130.0	
10608- AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	×	5.05	66.63	16.60	0.46	130.0	± 9.6 %
		Y	4.89	66.37	16.30		130.0	
Land.	LONG CHICA CHILDREN V VICTOR	Z	5.00	66.56	16.65		130.0	
10609- AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	×	4.94	66.52	16.47	0.46	130.0	± 9.6 %
	estate de la companya della companya della companya de la companya de la companya della companya	Y	4.78	66.22	16.14		130.0	
		Z	4.89	66.43	16.51		130.0	
10610- AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	×	4.99	66.67	16.62	0.46	130.0	± 9.6 %
PALA A	Days cut also	Y	4.83	66.39	16.31		130.0	
		Z	4.94	66.58	16.67		130,0	2
10611- AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	×	4.92	66,51	16.49	0.46	130.0	± 9.6 %
1 9 9 1 1		Y	4.75	66.19	16.15		130.0	
	Cartanian and Albanda and I have	Z	4.86	66.41	16.53		130.0	4-14-1-1
10612- AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	×	4.94	66.67	16,53	0,46	130.0	± 9.6 %
7 11	-117-117-117-117-117-117-117-117-117-11	Y	4.76	66.34	16,19		130.0	
		Z	4.87	66.58	16.58		130.0	
10613- AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	×	4.95	66.59	16.44	0.46	130.0	± 9.6 %
- D		Y	4.76	66.23	16.08		130.0	
	La a minima de material de la compansión	Z	4.88	66.49	16.48	Lull	130.0	
10614- AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	×	4.88	66.79	16.67	0.46	130.0	± 9.6 %
		Y	4.71	66.45	16.33		130.0	
10.0		Z	4.82	66.66	16.70		130.0	
10615- AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	×	4.92	66.32	16.27	0.46	130.0	± 9.6 %
		Y	4.74	65.99	15.91		130.0	
-V-air		Z	4.86	66.23	16.31	3.55	130.0	
10616- AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.48	66.74	16.60	0.46	130.0	± 9.6 %
71.5		Y	5.34	66.47	16.33		130.0	
zősizőlem		Z	5.45	66.65	16.67	-	130.0	in make
10617- AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	×	5.54	66,86	16,63	0.46	130.0	± 9.6 %
UU I	HAVA SAVIAN	Y	5.40	66.59	16.36		130.0	
0.54		Z	5.51	66.77	16.69		130.0	
10618- AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	×	5.44	66.94	16.69	0.46	130.0	± 9.6 %
	100 00000000000000000000000000000000000	Ŷ	5.29	66.64	16.41		130.0	1
	Control Control Control Control	Z	5.40	66.85	16.75	Turk T	130.0	
10619- AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	×	5.46	66.75	16.53	0.46	130.0	± 9.6 %
1337	3 497 311 1/20 1/20	Y	5.31	66.46	16.25		130.0	
MCX.		Z	5.43	66.67	16.60	The state of	130.0	
10620- AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	×	5.58	66.86	16.63	0.46	130.0	± 9.6 %
7777	The state of the s	Y	5.41	66.52	16.32		130.0	
	VALUE STATE OF THE	Z	5.54	66.76	16.69		130.0	
10621- AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	×	5,55	66.92	16.77	0.46	130.0	± 9.6 %
14.4	THE STATE OF THE S	Υ	5.40	66.64	16.51		130.0	
110.15	14	Z	5.51	66.79	16.82	1.72	130.0	
10622- AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	×	5.55	67.03	16.82	0.46	130.0	± 9.6 %
		Y	5.41	66.77	16.56		130.0	
		Z	5.52	66.96	16.90		130.0	

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10623- AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.45	66,66	16,53	0.46	130.0	± 9.6 %
		Y	5.29	66.30	16.20		130.0	
		Z	5.40	66.50	16.55		130.0	
10624- AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	Х	5.62	66.77	16.64	0.46	130.0	± 9.6 %
	1 X 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y	5.48	66.50	16.37		130.0	
		Z	5.60	66.70	16.72	F-17-07-2	130.0	
10625- AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	×	6.00	67.71	17.15	0.46	130.0	± 9.6 %
		Y	5.87	67.52	16.92		130.0	
And the latest		Z	6.06	67.96	17.39		130.0	
10626- AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.73	66.77	16.53	0.46	130.0	± 9.6 %
17071		Υ	5.62	66.52	16.28		130.0	
	Francisco Pierromanus automorphose	Z	5.71	66.66	16.59		130.0	
10627- AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	×	5.98	67.28	16.73	0.46	130.0	± 9.6 %
110/	27.7 C. A.C. J. A. J	Y	5.86	67.05	16.50		130.0	
		Z	5.99	67.31	16.87		130.0	
10628- AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.81	66.97	16.52	0,46	130.0	± 9.6 %
		Y	5.66	66.63	16.23		130.0	
	The second second second	Z	5.78	66.85	16.58	-11.00	130.0	
10629- AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	×	5.90	67.04	16.54	0.46	130.0	± 9.6 %
-3-3-34- I	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Y	5.75	66.72	16.26		130.0	
		Z	5.86	66.90	16.59		130.0	11111
10630- AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	×	6.42	68.75	17.40	0.46	130.0	± 9.6 %
	112 201121	Y	6.20	68.23	17.01		130.0	
		Z	6.53	69.06	17.67		130.0	
10631- AAA	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	Х	6.31	68.53	17.47	0.46	130.0	± 9.6 %
		Y	6.11	68.09	17.14		130.0	
355665		Z	6.30	68.49	17.57	1.00	130.0	
10632- AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.97	67.40	16.93	0.46	130.0	± 9.6 %
		Y	5.83	67.14	16.69		130.0	
of the same	A CONTRACTOR OF THE PART OF TH	Z	5.95	67.32	17.01		130.0	
10633- AAA	IEEE 802.11ac WIFi (80MHz, MCS7, 90pc duty cycle)	X	5.92	67.25	16.69	0.46	130.0	± 9.6 %
		Y	5.73	66.81	16.35		130.0	
Section 1	1500 Carlotte to the total of Carlotte	Z	5.86	67.04	16.70	Lave	130.0	I TOWN
10634- AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.89	67.23	16.74	0.46	130.0	± 9.6 %
777	1 1 M S 2 1 W S V M S	Y	5.72	66.85	16.43		130.0	
	I have a recovered company	Z	5.83	67.01	16.75		130.0	
10635- AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	×	5.77	66.56	16.15	0.46	130.0	± 9.6 %
	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Y	5.60	66.15	15.80		130.0	
Mark Toll		Z	5.72	66.39	16.18		130.0	
10636- AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	×	6.14	67.16	16.62	0.46	130.0	± 9.6 %
1277		Υ	6.03	66.89	16.37		130.0	
the t	Liver to a first or a series of the series o	Z	6.13	67.06	16.69	1 - 1 - 1	130.0	1324
10637- AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.32	67.57	16.80	0.46	130.0	± 9.6 %
1.111		Y	6.18	67.26	16.53		130.0	
arani 8	The second of the second of the second	Z	6.31	67.48	16.87	L. Conti	130.0	Less.
10638- AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.31	67.51	16.75	0.46	130.0	± 9.6 %
1901		Y	6.18	67.23	16.49		130.0	
		Z	6.31	67.46	16.84		130.0	

EX3DV4- SN:3994

10639- AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	×	6.32	67.56	16.82	0.46	130.0	± 9.6 %
11 (11)		Y	6.17	67.22	16.54		130.0	
1 1 1 1 1 1 -	Estation and American Property and	Z	6.30	67.43	16.87		130.0	
10640- AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.35	67.64	16.80	0.46	130.0	± 9.6 %
20 7 100	22.02.12.01.20.00.00.00.00.00.00.00.00.00.00.00.00.	Y	6.18	67.24	16.48		130.0	
Little -		Z	6.33	67.52	16.86		130.0	1
10641- AAA	IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.33	67.36	16.68	0.46	130.0	± 9.6 %
7		Y	6.20	67.07	16.42		130.0	
	The second of the second of the second	Z	6.32	67.26	16.75		130.0	
10642- IEEE 1602.11ac WiFi (160MHz, MCS6, AAA 90pc duty cycle)	X	6.41	67.71	17.01	0.46	130.0	± 9.6 %	
10001		Y	6.27	67.40	16.76		130.0	
45 V V E-		Z	6.38	67.56	17.06	- 1	130.0	
10643- AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	Х	6.23	67.38	16.76	0.46	130.0	± 9.6 %
		Y	6.09	67.04	16.47		130.0	
		Z	6.22	67.27	16,82		130.0	
10644- AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	Х	6.47	68.08	17.14	0.46	130.0	± 9.6 %
	10 80 0 30 70 70 70	Y	6.28	67.62	16.78		130.0	
MAG.		Z	6.46	67.99	17.21		130.0	
	IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.76	68.48	17.27	0.46	130.0	±9.6 %
200		Y	6.71	68.44	17.14		130.0	
		Z	6.93	68.91	17.61		130.0	

March 21, 2016

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

REPORT NO: UL-SAR-RP11456397JD17A V3.0 Issue Date: 13 April 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 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

ID#	Cal Date (Certificate No.)	Scheduled Calibration
SN: 104778	06-Apr-16 (No. 217-02288/02289)	Apr-17
SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17
SN: 103245	06-Apr-16 (No. 217-02289)	Apr-17
SN: 5058 (20k)	05-Apr-16 (No. 217-02292)	Apr-17
SN: 5047.2 / 06327	05-Apr-16 (No. 217-02295)	Apr-17
SN: 7349	15-Jun-16 (No. EX3-7349_Jun16)	Jun-17
SN: 601	30-Dec-15 (No. DAE4-601_Dec15)	Dec-16
ID#	Check Date (in house)	Scheduled Check
SN: GB37480704	07-Oct-15 (No. 217-02222)	In house check: Oct-16
SN: US37292783	07-Oct-15 (No. 217-02222)	In house check: Oct-16
SN: MY41092317	07-Oct-15 (No. 217-02223)	In house check: Oct-16
SN: 100972	15-Jun-15 (in house check Jun-15)	In house check: Oct-16
SN: US37390585	18-Oct-01 (in house check Oct-15)	In house check: Oct-16
Name	Function	Signature
Johannes Kurikka	Laboratory Technician	you un
Katja Pokovic	Technical Manager	MM
	SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 7349 SN: 601 ID # SN: GB37480704 SN: US37292783 SN: MY41092317 SN: 100972 SN: US37390585 Name	SN: 104778

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 ³ (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 ³ (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 ³ (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)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.9 Ω + 9.8 j Ω
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 Dolay (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:

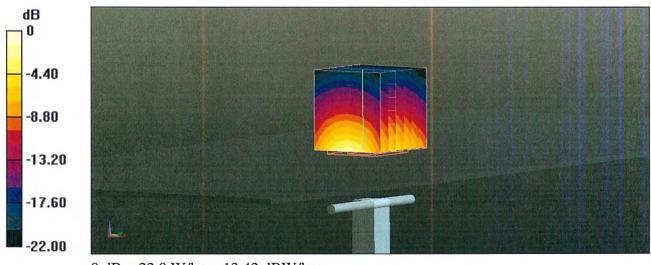
Measurement grid: dx=5mm, dy=5mm, dz=5mm

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

Peak SAR (extrapolated) = 27.2 W/kg

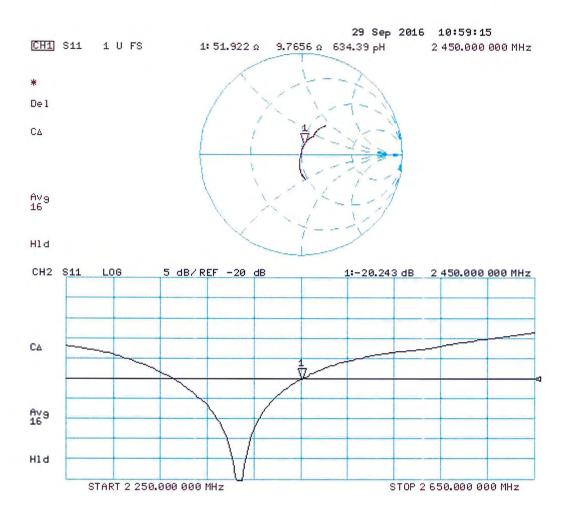
SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.21 W/kg

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:

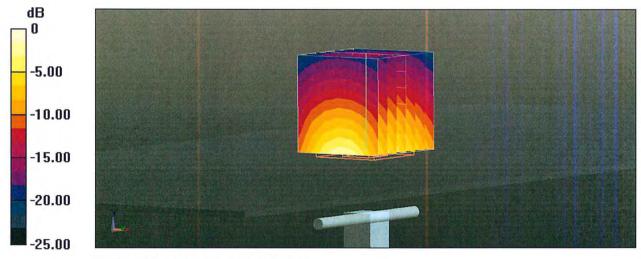
Measurement grid: dx=5mm, dy=5mm, dz=5mm

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

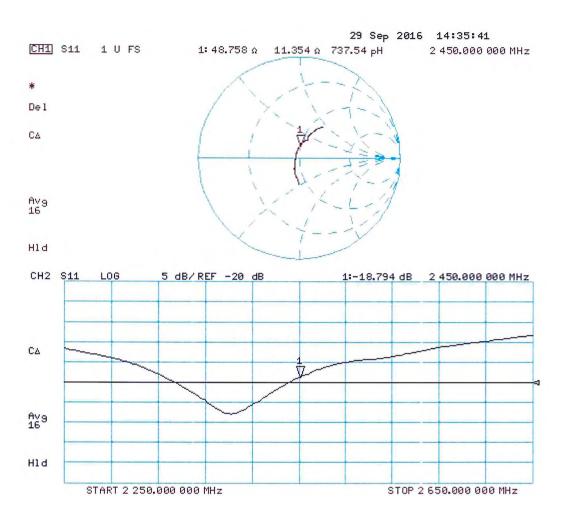
Maximum value of SAR (measured) = 20.7 W/kg



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 MBBL600-6000V6 has been used for 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.

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