

Test Report S/N: Test Report Issue Date: 45461483 R1.0 01 March 2019

#### **APPENDIX E - PROBE CALIBRATION**

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





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Accreditation No.: SCS 0108

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Multilateral Agreement for the recognition of calibration certificates

Certificate No: EX3-3600 Apr18

Client Celltech

#### **CALIBRATION CERTIFICATE**

Object EX3DV4 - SN:3600

Calibration procedure(s) QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v4, QA CAL-23.v5,

QA CAL-25.v6

Calibration procedure for dosimetric E-field probes

Calibration date: April 25, 2018

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

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

Calibration Equipment used (M&TE critical for calibration)

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

Name Function

Calibrated by: Claudio Leubler Laboratory Technician

Approved by: Katja Pokovic Technical Manager

Issued: April 27, 2018

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

Certificate No: EX3-3600\_Apr18

#### Calibration Laboratory of Schmid & Partner

**Engineering AG** Zeughausstrasse 43, 8004 Zurich, Switzerland





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Glossary:

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

ConvF DCP

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

CF A, B, C, D

crest factor (1/duty\_cycle) of the RF signal modulation dependent linearization parameters

Polarization o

φ rotation around probe axis

Polarization 9

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

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

Connector Angle

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

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

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

#### Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization  $\vartheta = 0$  (f  $\leq 900$  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 E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- $NORM(f)x,y,z = NORMx,y,z * frequency_response$  (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

# Probe EX3DV4

SN:3600

Manufactured:

January 10, 2007

Calibrated:

April 25, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) <sup>2</sup> ) <sup>A</sup>	0.48	0.47	0.39	± 10.1 %
DCP (mV) <sup>B</sup>	100.6	98.4	98.7	

#### **Modulation Calibration Parameters**

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc <sup>E</sup> (k=2)
0	CW	Х	0.0	0.0	1.0	0.00	139.6	±3.3 %
		Υ	0.0	0.0	1.0		141.6	
<del></del>		Z	0.0	0.0	1.0		142.7	

Note: For details on UID parameters see Appendix.

#### **Sensor Model Parameters**

	C1 fF	C2 fF	α V <sup>-1</sup>	T1 ms.V <sup>-2</sup>	T2 ms.V <sup>-1</sup>	T3 ms	T4 V <sup>-2</sup>	T5 V <sup>-1</sup>	T6
X	47.33	353.2	35.60	19.01	0.520	5.100	1.422	0.388	1.009
<u>Y</u>	46.23	357.0	37.60	18.09	1.044	5.083	0.000	0.697	1.010
Z	45.65	339.6	35.33	20.88	0.860	5.075	1.511	0.364	1.008

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

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

\*\*Numerical linearization parameter: uncertainty not required.

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

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
150	52.3	0.76	9.75	9.75	9.75	0.00	1.00	± 13.3 %
450	43.5	0.87	8.83	8.83	8.83	0.15	1.25	± 13.3 %
835	41.5	0.90	8.29	8.29	8.29	0.47	0.80	± 12.0 %
900	41.5	0.97	8.23	8.23	8.23	0.53	0.81	± 12.0 %
1640	40.2	1.31	7.30	7.30	7.30	0.31	0.80	± 12.0 %
1810	40.0	1.40	7.35	7.35	7.35	0.32	0.80	± 12.0 %
2450	39.2	1.80	6.55	6.55	6.55	0.37	0.85	± 12.0 %
5250	35.9	4.71	4.60	4.60	4.60	0.35	1.80	± 13.1 %
5600	35.5	5.07	4.31	4.31	4.31	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.33	4.33	4.33	0.40	1.80	± 13.1 %

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

yalidity can be extended to ± 110 MHz.

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

the ConvF uncertainty for indicated target tissue parameters.

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

#### Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
150	61.9	0.80	9.62	9.62	9.62	0.00	1.00	± 13.3 %
450	56.7	0.94	9.15	9.15	9.15	0.08	1.25	± 13.3 %
835	55.2	0.97	8.05	8.05	8.05	0.35	1.03	± 12.0 %
900	55.0	1.05	8.01	8.01	8.01	0.41	0.90	± 12.0 %
1640	53.7	1.42	7.47	7.47	7.47	0.39	0.80	± 12.0 %
1810	53.3	1.52	7.15	7.15	7.15	0.38	0.83	± 12.0 %
2450	52.7	1.95	6.54	6.54	6.54	0.30	0.94	± 12.0 %
5250	48.9	5.36	4.02	4.02	4.02	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.44	3.44	3.44	0.50	1.90	± 13.1 %
5750	48.3	5.94	3.70	3.70	3.70	0.50	1.90	± 13.1 %

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

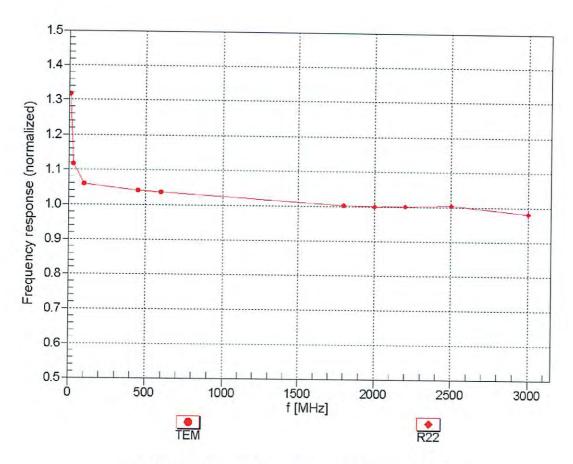
validity can be extended to ± 110 MHz.

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

the ConvF uncertainty for indicated target tissue parameters.

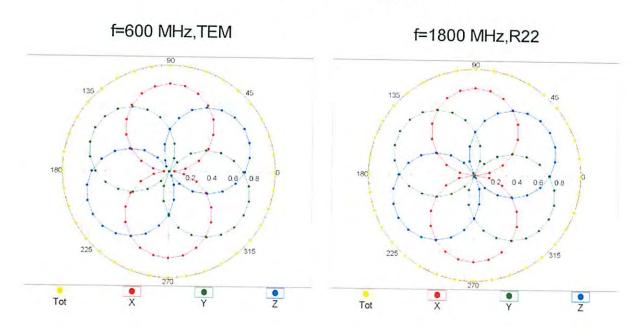
Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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

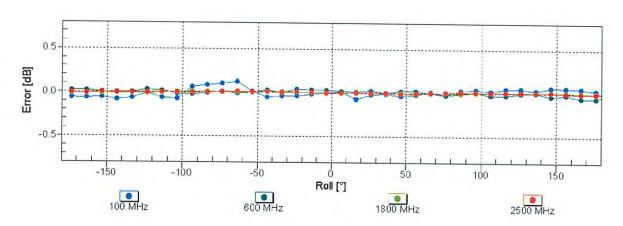
# Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

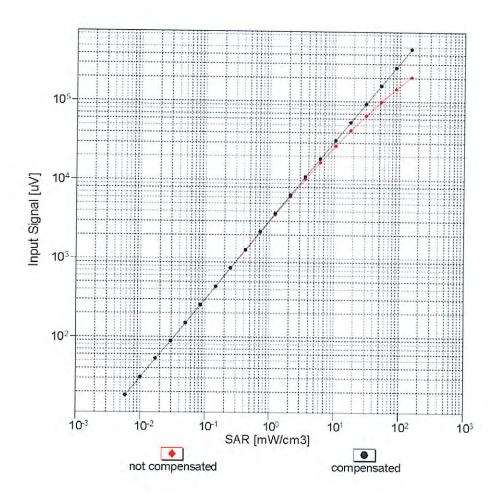
# Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

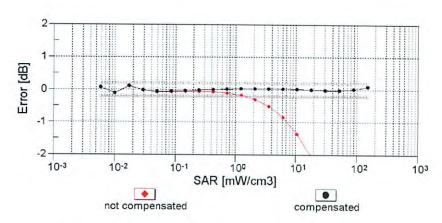




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

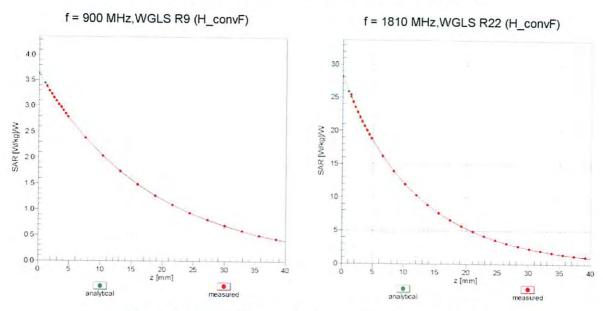
### Dynamic Range f(SAR<sub>head</sub>) (TEM cell , f<sub>eval</sub>= 1900 MHz)



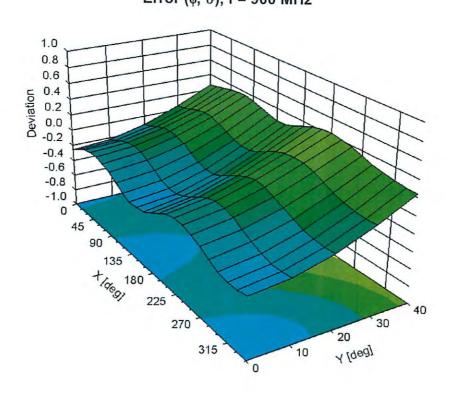


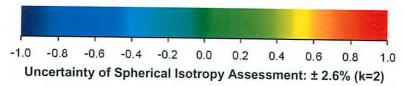
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

# **Conversion Factor Assessment**



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





#### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	66.4
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

**Appendix: Modulation Calibration Parameters** 

ÜID	ix: Modulation Calibration Paran Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Max Unc <sup>E</sup> (k=2)
0	CW	X	0.00	0.00	1.00	0.00	139.6	± 3.3 %
		Υ	0.00	0.00	1.00		141.6	
		Z	0.00	0.00	1.00	40.00	142.7	. 0 0 0/
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	13.61	86.49	18.67	10.00	20.0	± 9.6 %
		Υ	3.19	68.98	12.48		20.0	
	1,11,120,533,633,143	<u>Z</u>	5.35	75.35	15.25	0.00	20.0 150.0	± 9.6 %
10011- CAB	UMTS-FDD (WCDMA)	X	1.05	67.61	15.45	0.00		19.0%
		Y	0.83	64.20	12.81		150.0	
	1777 000 441 MITTI 0 4 011 (D000 4	Z	0.95	66.08	14.37	0.44	150.0 150.0	± 9.6 %
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	Х	1.21	64.34	15.59	0.41		£ 9.0 %
		4	1.09	62.77	14.15		150.0	
		Z	1.19	63.87	15.03	4.40	150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	4.92	66.87	17.26	1.46	150.0	± 9.6 %
		Υ	4.83	66.47	16.93		150.0	
		Z	4.88	66.77	17.07	0.00	150.0	. 0 0 0/
10021- DAC	GSM-FDD (TDMA, GMSK)	×	100.00	119.53	30.16	9.39	50.0	± 9.6 %
		Υ	100.00	116.57	29.06	ļ. ———	50.0	
		Z	100.00	117.57	29.56		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	119.13	30.01	9.57	50.0	± 9.6 %
		Υ	100.00	116.35	29.01		50.0	
		Z	100.00	117.34	29.49		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	118.68	28.85	6.56	60.0	± 9.6 %
		Υ	100.00	113.28	26.49		60.0	
		Z	100.00	114.93	27.39		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	7.49	89.38	36.41	12.57	50.0	± 9.6 %
		Υ	4.10	67.64	24.23		50.0	
		Z	6.08	80.09	31.03		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	15.70	106.36	38.37	9.56	60.0	± 9.6 %
		Y	10.38	93.09	32.67		60.0	
		Z	14.09	100.99	35.68		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	119.94	28.68	4.80	80.0	± 9.6 %
		Y	100.00	111.71	25.01		80.0	
		Z	100.00	114.52	26.48		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	122.54	29.12	3.55	100.0	± 9.6 %
		Y	100.00	110.62	23.83		100.0	
		Z	100.00	115.25	26.13	<u> </u>	100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	×	8.27	89.82	31.09	7.80	80.0	± 9.6 %
		Υ	6.84	83.70	27.94		80.0	
10030-	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	8.31 100.00	88.21 117.37	29.81 27.83	5.30	80.0 70.0	± 9.6 %
CAA		<del>                  _  </del>	100.00	110.02	24.04		70.0	
		Y	100.00	110.83 113.05	24.91	-	70.0	
10031-	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	124.54	26.10 28.49	1.88	70.0 100.0	± 9.6 %
CAA		Y	100.00	103.14	19.34		100.0	<del></del>
	1		1 100.00	100.14	13.34	1	100.0	1

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	100.00	133.46	31.04	1.17	100.0	± 9.6 %
		TY	24.62	88.73	14.40	<u> </u>	100.0	ļ
		ż	100.00	117.47	14.43 24.73		100.0	<u> </u>
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	100.00	130.36	35.56	5.30	70.0	± 9.6 %
		Y	14.67	95.74	25.44		70.0	
		Z	36.88	110.26	29.70	<del>                                     </del>	70.0	<del> </del>
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	10.26	94.71	24.41	1.88	100.0	± 9.6 %
		Y	2.82	74.56	16.51		100.0	
10035-	JEEE 000 45 4 Bt	Z	5.17	82.98	19.99		100.0	
CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	3.96	82.15	20.10	1.17	100.0	± 9.6 %
		Y	1.76	69.75	14.20		100.0	
10036-	IEEE 902 45 4 Bluetooth (0 DDOK DUI)	Z	2.74	75.73	17.13		100.0	
CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	100.00	130.79	35.77	5.30	70.0	± 9.6 %
		Y	21.85	102.07	27.33		70.0	
10037-	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Z	69.56	120.40	32.30		70.0	
CAA	Didelootii (6-DFSK, DH3)		8.87	92.71	23.79	1.88	100.0	± 9.6 %
		Y	2.65	73.86	16.21		100.0	
10038-	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Z	4.69	81.75	19.54		100.0	
CAA	TEEE 002.13.1 Bidelootil (6-DPSK, DH5)	X	4.05	82.77	20.44	1.17	100.0	± 9.6 %
	<del> </del>	Y	1.78	70.08	14.44		100.0	
10039-	CDMA2000 (1xRTT, RC1)	Z	2.78	76.21	17.42		100.0	
CAB	CDIVIA2000 (TXRTT, RCT)	X	1.91	72.65	16.00	0.00	150.0	± 9.6 %
		Y	1.16	65.87	11.96		150.0	
10042-	IC EA LIC ACC EDD (TDMA (EDA)	Z	1.54	69.72	14.37		150.0	
CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	100.00	115.22	27.46	7.78	50.0	± 9.6 %
	<del> </del>	Y	100.00	111.15	25.74		50.0	
10044-	IC 04/EIA/EIA EE2 EDD /EDAA EA	Z	100.00	112.82	26.61		50.0	
CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	96.67	1.18	0.00	150.0	± 9.6 %
	<del></del>	Y	0.04	124.47	6.09		150.0	
10048-	DECT (TDD TOMA (EDM DECK = 1)	Z	0.00	101.86	8.00		150.0	
CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	100.00	120.54	31.84	13.80	25.0	± 9.6 %
		Υ	58.15	109.32	28.95		25.0	
10049-	DECT (TDD TDMA/EDM OFOX D	Z	100.00	119.40	31.71		25.0	
CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	Х	100.00	118.20	29.84	10.79	40.0	± 9.6 %
	<del>                                     </del>	Y	100.00	116.39	29.36		40.0	
10056-	LIMTS TOD (TD SCDMA 4 00 M	Z	100.00	117.33	29.77		40.0	
CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	100.00	127.18	35.26	9.03	50.0	± 9.6 %
	<del> </del>	Y	19.30	96.70	26.42		50.0	
10058-	FDGE EDD /TDMA ODOK TN 0.4.0.0	Z	40.29	109.28	30.20		50.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	5.90	82.25	27.25	6.55	100.0	± 9.6 %
	<del> </del>	_	5.24	78.54	25.09		100.0	
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	Z X	6.07 1.29	81.66 65.90	26.45 16.47	0.61	100.0 110.0	± 9.6 %
<u> </u>	i wispaj	$\vdash \!$	4.45		44.01			
	<del>                                     </del>	Y	1.15	63.98	14.81		110.0	
10060-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5	Z	1.27	65.34	15.82	4.55	110.0	
CAB	Mbps)	X	100.00	139.44	36.64	1.30	110.0	± 9.6 %
		>	6.33	92.34	22.99		110.0	
	<u></u>	Ζ	64.44	126.95	32.60		110.0	

40004	LIEFE 000 445 WEE 0 4 OH- (D000 44	<del>- 7 -</del>	6.20	02.70	27.25	2.04	1400	+060/
10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	6.30	93.78	27.25	2.04	110.0	± 9.6 %
		Y	3.28	80.62	21.61		110.0	
		Z	4.95	87.41	24.34		110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	Х	4.70	66.78	16.61	0.49	100.0	± 9.6 %
		Υ	4.59	66.31	16.26		100.0	
		Z	4.65	66.65	16.43		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	Х	4.72	66.90	16.73	0.72	100.0	± 9.6 %
		Y	4.61	66.43	16.37		100.0	
		Z	4.67	66.77	16.54		100.0	_
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.01	67.17	16.97	0.86	100.0	± 9.6 %
		Y	4.90	66.72	16.63		100.0	
		Z	4.96	67.03	16.78		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.89	67.11	17.11	1.21	100.0	± 9.6 %
		Υ	4.79	66.66	16.76		100.0	
		Ζ	4.84	66.97	16.90		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.92	67.16	17.30	1.46	100.0	± 9.6 %
		Υ	4.82	66.72	16.95		100.0	
		Z	4.87	67.03	17.10		100.0	
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.22	67.35	17.77	2.04	100.0	± 9.6 %
		Y	5.12	66.98	17.45		100.0	
		Z	5.17	67.26	17.57		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	Х	5.28	67.45	18.03	2.55	100.0	± 9.6 %
		Y	5.19	67.07	17.70		100.0	
		Z	5.24	67.34	17.82		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.36	67.43	18.21	2.67	100.0	± 9.6 %
		Y	5.27	67.09	17.90		100.0	
_		Z	5.32	67.35	18.01		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	Х	5.03	66.99	17.60	1.99	100.0	± 9.6 %
<u> </u>	(2000:00:00:00:00:00:00:00:00:00:00:00:00	Y	4.94	66.62	17.28		100.0	
		Z	4.99	66.90	17.41		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	5.02	67.38	17.86	2.30	100.0	± 9.6 %
<u> </u>		Y	4.93	66.98	17.52		100.0	
		Z	4.99	67.28	17.66		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.10	67.59	18.23	2.83	100.0	± 9.6 %
		Υ	5.02	67.21	17.89		100.0	
		Z	5.07	67.52	18.03		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.09	67.52	18.41	3.30	100.0	± 9.6 %
		Υ	5.02	67.17	18.07		100.0	
		Z	5.08	67.48	18.22		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.14	67.69	18.78	3.82	90.0	± 9.6 %
		Υ	5.08	67.36	18.43		90.0	
		Z	5.14	67.66	18.57		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.14	67.47	18.89	4.15	90.0	± 9.6 %
		Υ	5.10	67.18	18.57		90.0	
		Z	5.16	67.49	18.71		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.17	67.54	18.99	4.30	90.0	± 9.6 %
		Y	5.13	67.26	18.67		90.0	
		Z	5.19	67.57	18.81	1	90.0	†

10081-	CDMA2000 (1xRTT, RC3)	X	0.86	66.33	12.79	0.00	150.0	± 9.6 %
CAB								1 2.0 %
<b></b>		Y	0.60	62.18	9.41		150.0	
10082-	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-	Z	0.74	64.51	11.45	<u> </u>	150.0	
CAB	DQPSK, Fullrate)	X	0.87	60.00	5.15	4.77	80.0	± 9.6 %
<del></del>		Z	0.90	60.00	5.02		80.0	
10090-	GPRS-FDD (TDMA, GMSK, TN 0-4)		0.97	60.00	5.28		80.0	
DAC	(1500) (1500), GIVISK, 114 0-4)	X	100.00	118.72	28.89	6.56	60.0	± 9.6 %
		Z	100.00	113.37	26.55	<del> </del>	60.0	
10097-	UMTS-FDD (HSDPA)	<del>Z</del>	1.85	114.98 67.83	27.43		60.0	
CAB		Y			15.78	0.00	150.0	± 9.6 %
		Z	1.60 1.75	65.59 67.03	14.12		150.0	
10098-	UMTS-FDD (HSUPA, Subtest 2)	1 x	1.81	67.79	15.16	0.00	150.0	
CAB	(100174, 0000012)	Y	1.57		15.76	0.00	150.0	± 9.6 %
		$\frac{1}{Z}$	1.72	65.51	14.07		150.0	
10099-	EDGE-FDD (TDMA, 8PSK, TN 0-4)	<del>X</del>	15.87	66.97	15.12	0.50	150.0	L
DAC	(12/11/4)			106.59	38.44	9.56	60.0	± 9.6 %
		Y 7	10.44	93.19	32.70		60.0	
10100-	LTE-FDD (SC-FDMA, 100% RB, 20	Z	14.19 3.15	101.11	35.71		60.0	
CAD	MHz, QPSK)			70.45	16.78	0.00	150.0	± 9.6 %
		Z	2.79	68.33	15.47	ļ	150.0	
10101-	LTE-FDD (SC-FDMA, 100% RB, 20	<del>   </del>	3.00 3.25	69.67	16.29	0.00	150.0	
CAD	MHz, 16-QAM)			67.57	15.97	0.00	150.0	± 9.6 %
	<del>                                     </del>	1	3.06	66.45	15.20		150.0	
10102-	LTE-FDD (SC-FDMA, 100% RB, 20	Z	3.17	67.19	15.67		150.0	
CAD	MHz, 64-QAM)	X	3.35	67.52	16.06	0.00	150.0	± 9.6 %
		Y	3.17	66.49	15.33		150.0	
10103-	LTE-TDD (SC-FDMA, 100% RB, 20	Z	3.28	67.18	15.77		150.0	
CAD	MHz, QPSK)	X	7.87	79.59	22.24	3.98	65.0	± 9.6 %
	<del></del>	Y	6.78	76.36	20.65		65.0	
10104-	LITE TOD (CO EDIM 400% DD 00	Z	7.25	77.43	21.07		65.0	
CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	×	7.09	75.96	21.58	3.98	65.0	± 9.6 %
		Y	6.58	74.08	20.50		65.0	
10105-	LITE TOD (SC EDMA 4000) DD 00	Z	7.13	75.47	21.07		65.0	
CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	6.91	75.38	21.64	3.98	65.0	± 9.6 %
	<del> </del>	Y	6.34	73.26	20.46		65.0	
10108-	LTE-FDD (SC-FDMA, 100% RB, 10	Z	6.99	75.05	21.20		65.0	
CAE	MHz, QPSK)	X	2.75	69.66	16.60	0.00	150.0	± 9.6 %
	<del> </del>	Y	2.43	67.61	15.27		150.0	
10109-	TE EDD (SC EDMA 4000/ DD 40	Z	2.61	68.89	16.09		150.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.90	67.42	15.88	0.00	150.0	± 9.6 %
		Y	2.70	66.20	14.99		150.0	
10110-	LTE EDD (SC EDMA 4000/ DD 544)	Z	2.82	67.00	15.53		150.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.23	68.78	16.22	0.00	150.0	± 9.6 %
		Y	1.95	66.61	14.71		150.0	
10111	LTE EDD (SO EDMA 4000) ED ENTE	Z	2.11	67.94	15.63		150.0	
10111- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.62	68.28	16.18	0.00	150.0	± 9.6 %
		Y	2.38	66.66	15.01		150.0	
	<u> </u>	Z	2.53	67.75	15.75		150.0	

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	×	3.03	67.41	15.93	0.00	150.0	± 9.6 %
UAL	1911 (2) 07 90 (191)	Υ	2.83	66.27	15.10		150.0	
		Ż	2.95	67.03	15.61		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.78	68.41	16.30	0.00	150.0	± 9.6 %
		Υ	2.53	66.89	15.21		150.0	
		Ζ	2.68	67.94	15.90		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.13	67.21	16.45	0.00	150.0	± 9.6 %
		Υ	5.03	66.79	16.16		150.0	
		Z	5.07	67.09	16.31		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	5.41	67.33	16.52	0.00	150.0	± 9.6 %
		Y	5.31	66.92	16.25		150.0	
		Z	5.35	67.19	16.37		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.22	67.40	16.47	0.00	150.0	± 9.6 %
		Υ	5.12	66.96	16.18		150.0	
		Z	5.16	67.26	16.32		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	×	5.09	67.07	16.40	0.00	150.0	± 9.6 %
		Υ	4.99	66.62	16.10		150.0	
		Z	5.04	66.94	16.25		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.49	67.54	16.63	0.00	150.0	± 9.6 %
		Υ	5.40	67.15	16.37		150.0	ļ
		Z	5.42	67.38	16.47		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	Х	5.20	67.35	16.46	0.00	150.0	± 9.6 %
		Υ	5.10	66.93	16.17		150.0	
		Z	5.14	67.21	16.31		150.0	l
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.39	67.53	15.98	0.00	150.0	± 9.6 %
		Υ	3.20	66.50	15.25		150.0	
		Z	3.31	67.19	15.69		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.51	67.63	16.14	0.00	150.0	± 9.6 %
		Υ	3.33	66.65	15.46		150.0	ļ
		Z	3.43	67.32	15.88		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	×	2.01	68.82	15.90	0.00	150.0	± 9.6 %
		Υ	1.70	66.23	14.09		150.0	
		Z	1.88	67.81	15.19		150.0	
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	×	2.50	69.08	15.91	0.00	150.0	± 9.6 %
		Y	2.15	66.78	14.31		150.0	ļ
		Z	2.36	68.32	15.33		150.0	1
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	×	2.25	66.73	14.27	0.00	150.0	± 9.6 %
		Y	2.00	64.96	12.90		150.0	<u> </u>
		Z	2.14	66.08	13.73		150.0	<del> </del>
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.24	65.35	11.95	0.00	150.0	± 9.6 %
		Y	0.94	62.15	9.38		150.0	<u> </u>
		Z	1.10	63.98	10.88		150.0	<u> </u>
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.40	68.45	12.74	0.00	150.0	± 9.6 %
		Y	1.66	64.15	10.31		150.0	
		Z	1.99	66.16	11.30		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	3.09	71.54	14.22	0.00	150.0	± 9.6 %
		Υ	1.84	65.30	11.02		150.0	
		Z	2.36	68.14	12.36		150.0	

10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	TX	2.91	67.48	15.92	0.00	150.0	± 9.6 %
		T.Y	2.71	66.25	15.04		450.0	
		Tż.	2.83	67.06	15.58	<del> </del>	150.0 150.0	-
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.04	67.47	15.97	0.00	150.0	± 9.6 %
		Υ	2.84	66.32	15.14		150.0	<del>                                     </del>
l	. == =	Z	2.96	67.09	15.65		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	8.51	82.61	23.51	3.98	65.0	± 9.6 %
		Y	7.10	78.66	21.62		65.0	
10150	LTE TOD (OC FOLL)	Z	8.14	80.93	22.50		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	×	6.69	76.23	21.42	3.98	65.0	± 9.6 %
	<del></del>	Y	6.11	74.02	20.15		65.0	
10153-	LITE TOD (CC COMA 500) DR CO MIL	Z	6.69	75.56	20.80		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	7.11	77.21	22.18	3.98	65.0	± 9.6 %
	<del></del>	Υ	6.53	75.13	21.00		65.0	
10154-	LTE-FDD (SC-FDMA, 50% RB, 10 MHz,	Z	7.13	76.64	21.61		65.0	
CAE	QPSK)	×	2.28	69.19	16.47	0.00	150.0	± 9.6 %
	<del> </del>	Y	1.98	66.94	14.94		150.0	
10155-	LTE EDD (CO EDMA 500) DD (CON)	Z	2.15	68.33	15.88		150.0	
CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.63	68.29	16.19	0.00	150.0	± 9.6 %
	<del> </del>	Y	2.38	66.67	15.03		150.0	
10156-	LTE EDD (SC EDMA 500) DD 5441	Z	2.53	67.77	15.77		150.0	
CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.86	68.94	15.71	0.00	150.0	± 9.6 %
		Υ	1.52	65.94	13.61		150.0	
10157-	LITE EDD (OO ED) A SOO! DE SOO!	Z	1.71	67.75	14.89		150.0	i
CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.10	67.35	14.34	0.00	150.0	± 9.6 %
		Υ	1.79	65.05	12.62		150.0	
10158-	LTE EDD (OG ED)	Z	1.96	66.49	13.66		150.0	
CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.78	68.47	16.35	0.00	150.0	± 9.6 %
		Υ	2.53	66.95	15.25		150.0	
40450	LTC CDD (00 CD)	Z	2.69	68.00	15.95		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.21	67.82	14.62	0.00	150.0	± 9.6 %
		Υ	1.87	65.39	12.86		150.0	
40400	1.TE EDD (0.0 ED)	Z	2.07	66.93	13.94		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.75	68.70	16.36	0.00	150.0	± 9.6 %
		Υ	2.51	67.17	15.28		150.0	
10161-	LITE EDD (OO ED) A FOR ED	Z	2.64	68.10	15.92		150.0	
CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.93	67.41	15.90	0.00	150.0	± 9.6 %
		Y	2.73	66.22	15.03		150.0	
10160	LTE EDD (00 ED) (1	Z	2.85	67.03	15.57		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.04	67.56	16.01	0.00	150.0	± 9.6 %
		Υ	2.84	66.41	15.17		150.0	
40400	LTE EDD (OO TO T	Z	2.96	67.20	15.69		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.82	70.68	19.71	3.01	150.0	± 9.6 %
		Υ	3.54	69.13	18.82		150.0	
1010=		Z	3.72	70.31	19.39		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	5.02	74.64	20.53	3.01	150.0	± 9.6 %
		Υ	4.33	71.68	19.10		150.0	
		Z	4.86	74.12	20.14		150.0	

						0.04	1 4 5 0 0	
10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	5.69	77.34	22.01	3.01	150.0	± 9.6 %
		Υ	4.84	74.09	20.53		150.0	
		Z	5.54	76.95	21.68		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	3.37	71.10	19.90	3.01	150.0	± 9.6 %
		Υ	3.00	68.45	18.46		150.0	
		Ζ	3.26	70.53	19.46		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	5.36	79.49	23.02	3.01	150.0	± 9.6 %
		Υ	4.07	73.69	20.51		150.0	
		Z	5.15	78.72	22.52		150.0	
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	4.15	74.09	19.85	3.01	150.0	± 9.6 %
		Υ	3.36	69.68	17.77		150.0	
		Z	3.95	73.21	19.27		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	29.47	117.12	36.98	6.02	65.0	± 9.6 %
		Y	10.13	93.09	28.98		65.0	
		Z	22.00	108.80	33.84		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	100.00	132.60	38.40	6.02	65.0	± 9.6 %
		Y	15.82	97.14	28.46		65.0	
		Z	54.50	119.00	34.31		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	72.89	124.60	35.79	6.02	65.0	±9.6 %
		Y	10.56	89.12	25.41		65.0	
		Z	37.80	110.79	31.55		65.0	
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.32	70.74	19.64	3.01	150.0	± 9.6 %
	<u> </u>	Υ	2.97	68.13	18.21		150.0	
		Z	3.21	70.16	19.19		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	5.37	79.52	23.03	3.01	150.0	± 9.6 %
OAL	10 00 101)	Y	4.07	73.71	20.52		150.0	
		Ż	5.16	78.75	22.54		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.35	70.91	19.74	3.01	150.0	± 9.6 %
		Y	2.99	68.28	18.30		150.0	
		Z	3.24	70.33	19.29		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	5.30	79.24	22.90	3.01	150.0	± 9.6 %
		Y	4.03	73.51	20.41		150.0	
		Z	5.09	78.47	22.40		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	4.69	76.61	21.28	3.01	150.0	± 9.6 %
		Υ	3.67	71.50	18.98		150.0	
		Z	4.48	75.74	20.73		150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	4.14	74.00	19.80	3.01	150.0	± 9.6 %
		Y	3.35	69.61	17.73		150.0	
		Z	3.94	73.12	19.22		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.34	70.89	19.73	3.01	150.0	± 9.6 %
		Υ	2.99	68.26	18.29		150.0	
		Z	3.24	70.31	19.28		150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	5.29	79.21	22.88	3.01	150.0	± 9.6 %
		Υ	4.03	73.48	20.39		150.0	
		Z	5.08	78.44	22.39		150.0	
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	4.13	73.98	19.79	3.01	150.0	± 9.6 %
		Y	3.34	69.59	17.72		150.0	
		Z	3.93	73.09	19.20		150.0	1

10184-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz,	X	3.36	70.94	19.75	3.01	150.0	± 9.6 %
CAD	QPSK)	ļ					100.0	2 3.0 %
		Y	3.00	68.30	18.32		150.0	
10185-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-	Z	3.25	70.36	19.31		150.0	
CAD	QAM)	X	5.31	79.30	22.92	3.01	150.0	± 9.6 %
		I Y	4.05	73.55	20.43	<u> </u>	150.0	
10186-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-	Z	5.11	78.53	22.43	<u> </u>	150.0	L
AAD	QAM)	Y	4.15	74.05	19.82	3.01	150.0	± 9.6 %
		Z	3.36 3.95	69.65	17.75		150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.37	73.17 71.00	19.24 19.82	3.01	150.0 150.0	± 9.6 %
		Y	3.01	68.36	40.00		170.0	<b>-</b>
		Ż	3.26	70.43	18.38 19.38		150.0	<del> </del>
10188-	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz,	X	5.54	80.16	23.36	2.04	150.0	
CAE	16-QAM)	Y	4.17	74.20		3.01	150.0	± 9.6 %
		Z	5.33		20.81		150.0	
10189-	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz,	X	4.27	79.41	22.88	2.04	150.0	L
AAE	64-QAM)	Y		74.59	20.13	3.01	150.0	± 9.6 %
		Z	3.43	70.04	18.01		150.0	
10193-	IEEE 802.11n (HT Greenfield, 6.5 Mbps,	X	4.06	73.70	19.56		150.0	
CAC	BPSK)		4.52	66.64	16.16	0.00	150.0	± 9.6 %
		Z	4.40	66.13	15.79		150.0	
10194-	IEEE 802.11n (HT Greenfield, 39 Mbps,		4.47	66.51	16.00		150.0	
CAC	16-QAM)	Х	4.69	66.95	16.28	0.00	150.0	± 9.6 %
	<del>                                     </del>	Y	4.57	66.43	15.92		150.0	
10195-	IEEE 902 44m /UT Cooperate 05 40	Z	4.63	66.81	16.12		150.0	
CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.73	66.98	16.30	0.00	150.0	± 9.6 %
		Υ	4.61	66.47	15.94		150.0	
10196-	IEEE 902 110 (HT Mined O 5 Mine	Z	4.67	66.84	16.14		150.0	
CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	×	4.53	66.70	16.18	0.00	150.0	± 9.6 %
		Υ	4.40	66.18	15.80		150.0	
10197-	IEEE BOO 44 - (UTA4) - 1 CO 44	Ζ	4.47	66.56	16.01		150.0	
CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	×	4.71 	66.97	16.29	0.00	150.0	± 9.6 %
	<del> </del>	Y	4.58	66.45	15.93		150.0	
10198-	IEEE 000 44 = (IEEA) = 4 05 14	Z	4.65	66.83	16.13		150.0	
CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	×	4.74	66.99	16.31	0.00	150.0	± 9.6 %
	<del> </del>	Y	4.61	66.48	15.95		150.0	
10219-	IEEE 802.11n (HT Mixed, 7.2 Mbps,	Z	4.68	66.86	16.15		150.0	
CAC	BPSK)	X	4.48	66.71	16.14	0.00	150.0	± 9.6 %
		Y	4.35	66.18	15.75		150.0	
10220-	IEEE 902 11p /LIT Missed 40 0 Missed 40	Z	4.42	66.57	15.97		150.0	
CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.70	66.94	16.28	0.00 ————	150.0	± 9.6 %
		Y	4.57	66.42	15.92		150.0	
10221-	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-	Z X	4.64 4.74	66.80 66.92	16.12 16.29	0.00	150.0 150.0	± 9.6 %
CAC	QAM)		4.55					
		Y	4.62	66.42	15.94		150.0	
10222-	IEEE 802 11n /UT Missay 45 Mbss	Z	4.68	66.79	16.14	0.00	150.0	
CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.07	67.08	16.40	0.00	150.0	± 9.6 %
		Y	4.96	66.62	16.09		150.0	
		Ζ	5.01	66.95	16.25		150.0	

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10224- IE CAC Q 10225- U CAB 1 10226- L CAA 1 10227- L CAA 6	EEE 802.11n (HT Mixed, 90 Mbps, 16-DAM)  EEE 802.11n (HT Mixed, 150 Mbps, 64-DAM)  JMTS-FDD (HSPA+)  TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	5.37 5.28 5.31 5.11 5.00 5.06 2.81 2.64 2.74 100.00 17.06 63.36 100.00	67.28 66.93 67.16 67.20 66.73 67.06 66.18 65.18 65.88 132.85 98.63 121.91	16.51 16.27 16.38 16.38 16.07 16.23 15.34 14.54 15.03 38.56	0.00	150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 65.0	± 9.6 % ± 9.6 % ± 9.6 %
10224- IE CAC Q 10225- U CAB 1 10226- L CAA 1 10227- L CAA 6	EEE 802.11n (HT Mixed, 150 Mbps, 64- QAM)  JMTS-FDD (HSPA+)  TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Z X Y Z X Y Z X X Y Z X X	5.31 5.11 5.00 5.06 2.81 2.64 2.74 100.00 17.06 63.36	67.16 67.20 66.73 67.06 66.18 65.18 65.88 132.85 98.63 121.91	16.38 16.38 16.07 16.23 15.34 14.54 15.03 38.56	0.00	150.0 150.0 150.0 150.0 150.0 150.0	± 9.6 %
10225- UCAB 10226- LCAA 1 10227- CAA 6	JMTS-FDD (HSPA+)  TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Z X Y Z X Y Z X X Y Z X X	5.31 5.11 5.00 5.06 2.81 2.64 2.74 100.00 17.06 63.36	67.16 67.20 66.73 67.06 66.18 65.18 65.88 132.85 98.63 121.91	16.38 16.38 16.07 16.23 15.34 14.54 15.03 38.56	0.00	150.0 150.0 150.0 150.0 150.0 150.0	± 9.6 %
10225- U CAB 10226- L CAA 1 10227- L CAA 6	JMTS-FDD (HSPA+)  TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X Y Z X Y Z X	5.11 5.00 5.06 2.81 2.64 2.74 100.00 17.06 63.36	67.20 66.73 67.06 66.18 65.18 65.88 132.85 98.63 121.91	16.38 16.07 16.23 15.34 14.54 15.03 38.56	0.00	150.0 150.0 150.0 150.0 150.0	± 9.6 %
10225- UCAB 10226- LCAA 1 10227- CAA 6	JMTS-FDD (HSPA+)  TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Y Z X Y Z X Y Z X X	5.00 5.06 2.81 2.64 2.74 100.00 17.06 63.36	66.73 67.06 66.18 65.18 65.88 132.85 98.63 121.91	16.07 16.23 15.34 14.54 15.03 38.56	0.00	150.0 150.0 150.0 150.0 150.0	± 9.6 %
10225- UCAB  10226- LCAA 1  10227- LCAA 6	TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Z X Y Z X Y Z X	5.06 2.81 2.64 2.74 100.00 17.06 63.36	67.06 66.18 65.18 65.88 132.85 98.63 121.91	16.23 15.34 14.54 15.03 38.56		150.0 150.0 150.0 150.0	
10226- L CAA 1 10227- L CAA 6	TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X Y Z X Y Z	2.81 2.64 2.74 100.00 17.06 63.36	66.18 65.18 65.88 132.85 98.63 121.91	15.34 14.54 15.03 38.56		150.0 150.0 150.0	
10226- L CAA 1 10227- L CAA 6	TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Y Z X Y Z X	2.64 2.74 100.00 17.06 63.36	65.18 65.88 132.85 98.63 121.91	14.54 15.03 38.56		150.0 150.0	
10226- L CAA 1 10227- L CAA 6	TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X Y Z X	2.74 100.00 17.06 63.36	65.88 132.85 98.63 121.91	15.03 38.56	6.02	150.0	± 9.6 %
10227- L CAA 6	TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X Y Z X	100.00 17.06 63.36	98.63 121.91	38.56	6.02		± 9.6 %
10227- L CAA 6	TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Y Z X	17.06 63.36	98.63 121.91		6.02	65.0	± 9.6 %
10227- L CAA 6	TE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	63.36	121.91	20.04			/•
10228- L	64-QAM)	X	63.36	121.91	29.01		65.0	
10228- L	64-QAM)	Х			35.15		65.0	
10228- L		$\overline{}$		130.17	37.17	6.02	65.0	± 9.6 %
	TE-TDD (SC-FDMA, 1 RB, 1.4 MHz.		16.00	96.13	27.66		65.0	
	TE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Ż	50.25	115.65	32.86		65.0	
		X	31.70	119.11	37.64	6.02	65.0	± 9.6 %
	QPSK)	Ŷ	11.75	96.55	30.23		65.0	
		Z	22.94	110.06	34.30		65.0	
<del></del>	TE TOD (00 EDMA 4 DD 2 MH - 46		100.00	132.59	38.41	6.02	65.0	± 9.6 %
	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X				0.02		1 3.0 %
		Y	15.93	97.24	28.50		65.0 65.0	
		Z	54.96	119.14	34.36	0.00		106%
	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	×	97.31	129.51	36.94	6.02	65.0	± 9.6 %
		Y	14.93	94.84	27.19		65.0	
		Z	44.19	113.29	32.17		65.0	
	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	28.89	117.03	36.98	6.02	65.0	± 9.6 %
		Y	11.10	95.33	29.76		65.0	
		Z	21.14	108.30	33.71		65.0	
	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	Х	100.00	132.60	38.41	6.02	65.0	± 9.6 %
		Y	15.91	97.23	28.50		65.0	
		Z	54.93	119.14	34.36		65.0	
	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	Х	97.11	129.49	36.93	6.02	65.0	± 9.6 %
O/ LD	<del>20 m</del>	Y	14.90	94.81	27.18		65.0	
		Z	44.10	113.27	32.17		65.0	
	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	26.71	115.16	36.33	6.02	65.0	± 9.6 %
<u> </u>	y	Y	10.59	94.23	29.28		65.0	
		Ż	19.70	106.68	33.12		65.0	
	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	100.00	132.62	38.42	6.02	65.0	± 9.6 %
<u> </u>		Y	15.93	97.27	28.51		65.0	<u> </u>
<del></del>		Z	55.21	119.25	34.39	1	65.0	
	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	99.83	129.93	37.03	6.02	65.0	± 9.6 %
		Y	15.05	94.96	27.22	<u> </u>	65.0	<del>                                     </del>
		Ż	44.88	113.53	32.23		65.0	
	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	29.16	117.27	37.05	6.02	65.0	± 9.6 %
JAD I	Q. 0. y	Y	11.13	95.41	29.78		65.0	<del>                                     </del>
<del></del>	<del></del>	Ż	21.27	108.46	33.76		65.0	<del></del>
	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	100.00	132.62	38.41	6.02	65.0	± 9.6 %
CAD	IO-GCAWI)	Y	15.88	97.21	28.49	<del>                                     </del>	65.0	+
<del></del>		Z	54.89	119.14	34.35	<del> </del>	65.0	+

10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	96.91	129.48	36.93	6.02	65.0	± 9.6 %
		Y	14.86	94.79	27.47			<del></del>
		l ż	43.99	113.25	27.17 32.16	+	65.0	<del></del>
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	29.03	117.19	37.03	6.02	65.0 65.0	± 9.6 %
		Y	11.10	95.36	29.77		65.0	
10241-	LTE TOD (SC EDMA 500) DD 4 400	Z	21.20	108.40	33.74		65.0	
CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	10.62	87.05	28.00	6.98	65.0	± 9.6 %
		Y	8.88	82.14	25.70	<u> </u>	65.0	
10242-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z	10.60	86.30	27.30		65.0	
CAA	64-QAM)		10.05	85.86	27.48	6.98	65.0	± 9.6 %
		Y	8.32	80.77	25.07		65.0	
10243-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz,	Z	10.10	85.30	26.85		65.0	
CAA	QPSK)	X	7.54	81.11	26.59	6.98	65.0	± 9.6 %
		Y	6.72	77.64	24.68		65.0	
10244-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	Z	7.69	80.98	26.12		65.0	
CAB	16-QAM)	X	9.20	82.54	21.35	3.98	65.0	± 9.6 %
	<del> </del>	Y	6.47	76.27	18.59		65.0	
10245-	LTE-TDD (SC-FDMA, 50% RB, 3 MHz,	Z	7.80	78.88	19.49		65.0	
CAB	64-QAM)	X	8.69	81.36	20.85	3.98	65.0	± 9.6 %
<u> </u>		Y	6.26	75.52	18.23		65.0	
10246-	LTE TOD (SC EDMA 500) DD CAN	Z	7.47	77.96	19.08		65.0	
CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	9.83	87.41	23.33	3.98	65.0	± 9.6 %
		Υ	5.82	78.01	19.29		65.0	
10247-	LTE TOD (OO FD)	Z	7.60	81.97	20.89		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	6.39	77.73	20.42	3.98	65.0	± 9.6 %
		Y	5.28	73.85	18.33		65.0	
10248-	LTC TDD (00 TD)	Z	6.05	75.92	19.25		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	6.22	76.78	20.01	3.98	65.0	± 9.6 %
<del></del>		Υ	5.23	73.24	18.05		65.0	
10249-	LTC TDD (00 TD)	Ζ	5.94	75.15	18.91		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	11.51	90.75	25.42	3.98	65.0	± 9.6 %
		Υ	7.29	81.94	21.75		65.0	
10250-	LTC TDD (00 FDW) 500 FD	_Z	9.38	85.89	23.25		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	7.16	79.67	22.82	3.98	65.0	± 9.6 %
		Y	6.31	76.75	21.25		65.0	
10251-	LTE-TOD (SC EDMA 500) SD 40.00	Z	7.08	78.63	22.01		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	6.62	76.94	21.34	3.98	65.0	± 9.6 %
		Y	5.92	74.36	19.88		65.0	
102E2	LTE TOD (OO FOLK TO)	Z	6.56	76.04	20.59		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	9.90	87.64	25.34	3.98	65.0	± 9.6 %
		Υ	7.48	81.75	22.72		65.0	
10253-	LTE TOD (CO FOLIA FOR FE	Z	9.03	84.84	23.88		65.0	
CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	×	6.51	75.58	21.13	3.98	65.0	± 9.6 %
		Υ	5.98	73.51	19.91		65.0	
10054	LTE TOD (00 FEE)	Z	6.53	75.01	20.54		65.0	
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	6.90	76.50	21.82	3.98	65.0	± 9.6 %
		Y	6.37	74.52	20.67		65.0	
		Z	6.94	75.99	21.27		65.0	

10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	7.96	81.64	23.37	3.98	65.0	± 9.6 %
		Υ	6.77	78.04	21.58		65.0	
		Ζ	7.72	80.22	22.44		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	6.92	77.50	18.36	3.98	65.0	± 9.6 %
		Υ	4.87	71.71	15.62		65.0	
		Ζ	5.73	73.80	16.41		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	6.42	76.01	17.67	3.98	65.0	± 9.6 %
		Υ	4.69	70.84	15.14		65.0	_
-		Z	5.45	72.73	15.86		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	6.82	80.84	20.11	3.98	65.0	± 9.6 %
		Υ	4.20	72.69	16.25		65.0	
		Z	5.36	76.03	17.76		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	6.70	78.46	21.29	3.98	65.0	± 9.6 %
		Y	5.69	74.97	19.40		65.0	
		Z	6.46	76.96	20.25		65.0	
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	6.65	77.98	21.09	3.98	65.0	± 9.6 %
<u>-</u>		Y	5.70	74.67	19.28		65.0	
		Z	6.44	76.57	20.10		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	9.82	87.87	24.88	3.98	65.0	± 9.6 %
	4.0.0	Y	6.97	80.93	21.82		65.0	
		Z	8.62	84.34	23.13		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	7.14	79.61	22.78	3.98	65.0	± 9.6 %
<u> </u>	10 00 1111)	Y	6.30	76.68	21.20		65.0	
-		Z	7.06	78.56	21.96		65.0	
10263-	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	6.61	76.91	21.34	3.98	65.0	± 9.6 %
CAD	OH-GEARN)	Y	5.91	74.34	19.87		65.0	
		ż	6.55	76.01	20.59	-	65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	9.77	87.37	25.22	3.98	65.0	± 9.6 %
<u> </u>	<u> </u>	Y	7.40	81.52	22.61		65.0	
	<del>                                     </del>	Ż	8.92	84.59	23.77		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	6.69	76.23	21.42	3.98	65.0	± 9.6 %
		Y	6.11	74.03	20.16		65.0	
		Z	6.69	75.57	20.80		65.0	ĺ
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	7.10	77.19	22.17	3.98	65.0	± 9.6 %
		Y	6.53	75.11	20.99		65.0	
		Z	7.13	76.62	21.60		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	8.49	82.55	23.48	3.98	65.0	± 9.6 %
	7 77 77 77	Y	7.08	78.61	21.60		65.0	1
		Z	8.12	80.88	22.48		65.0	
	LTE-TDD (SC-FDMA, 100% RB, 15	<del>                                     </del>	7.19	75.65	21.55	3.98	65.0	± 9.6 %
10268- CAD	MHz, 16-QAM)				1			
		Y	6.73	73.94	20.56		65.0	
		Y					<del></del>	
10269-	MHz, 16-QAM)  LTE-TDD (SC-FDMA, 100% RB, 15		6.73 7.25 7.12	73.94 75.25 75.13	20.56 21.09 21.38	3.98	65.0 65.0 65.0	± 9.6 %
CAD	MHz, 16-QAM)	Y Z X	7.25 7.12	75.25 75.13	21.09 21.38	3.98	65.0 65.0	± 9.6 %
10269-	MHz, 16-QAM)  LTE-TDD (SC-FDMA, 100% RB, 15	Y Z X Y	7.25 7.12 6.70	75.25 75.13 73.53	21.09 21.38 20.44	3.98	65.0 65.0	± 9.6 %
10269- CAD	MHz, 16-QAM)  LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  LTE-TDD (SC-FDMA, 100% RB, 15	Y Z X	7.25 7.12	75.25 75.13	21.09 21.38	3.98	65.0 65.0	± 9.6 %
10269- CAD	MHz, 16-QAM)  LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Y Z X Y Z	7.25 7.12 6.70 7.19	75.25 75.13 73.53 74.80	21.09 21.38 20.44 20.95		65.0 65.0 65.0 65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.60	66.58	15.29	0.00	150.0	± 9.6 %
		Y	2.41	65.37	14.33		150.0	<u> </u>
		Ż	2.52	66.20	14.92	+	150.0	<u> </u>
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	Х	1.63	68.08	15.67	0.00	150.0	± 9.6 %
<u> </u>		Y	1.37	65.40	13.72		150.0	
40077	D. 10 (0.70)	Z	1.52	67.01	14.91		150.0	
10277- CAA	PHS (QPSK)	X	2.45	62.90	8.35	9.03	50.0	± 9.6 %
	<del> </del>	Y	2.57	62.57	8.27		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	2.68 10.31	63.07 84.70	8.59 20.93	9.03	50.0 50.0	± 9.6 %
		Y	5.19	73.08	16.14	<del>                                     </del>	50.0	
		Z	6.41	76.35	17.60	<del>                                     </del>	50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	Х	10.48	84.90	21.05	9.03	50.0	± 9.6 %
		Υ	5.32	73.34	16.29		50.0	
40000		Z	6.55	76.60	17.75		50.0	<del> </del>
10290- AAB	CDMA2000, RC1, SO55, Full Rate	Х	1.48	69.05	14.14	0.00	150.0	± 9.6 %
	<del></del>	Y	1.01	64.24	10.87		150.0	
10291-	CDMAROOD BOX COST	Z	1.25	66.95	12.81		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	X	0.84	66.08	12.65	0.00	150.0	± 9.6 %
	<del> </del>	Y	0.59	62.07	9.33		150.0	
10292-	CDM40000 DOS COST TO	Z	0.73	64.33	11.34		150.0	
AAB	CDMA2000, RC3, SO32, Full Rate	X	1.14	71.01	15.38	0.00	150.0	± 9.6 %
		Y	0.65	63.72	10.55		150.0	
40000	0.5144.000	Z	0.89	67.65	13.39		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	1.94	78.78	19.00	0.00	150.0	± 9.6 %
		Υ	0.81	66.25	12.29		150.0	
10295-	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	Z	1.32 14.26	73.02 94.27	16.25 27.69	9.03	150.0 50.0	1000
AAB		Y	10.28	85.76		9.03		± 9.6 %
		Ż	11.25		23.93		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	2.76	87.94 69.76	24.94 16.67	0.00	50.0 150.0	± 9.6 %
		Υ	2.44	67.69	15.33		150.0	
40000		Z	2.63	68.99	16.16		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	1.58	67.86	14.21	0.00	150.0	± 9.6 %
	<del> </del>	Y	1.22	64.36	11.68		150.0	
10299-	LITE EDD (SC EDMA 500) DD 0100	Z	1.41	66.40	13.18		150.0	
AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	3.38	72.62	15.57	0.00	150.0	± 9.6 %
	<del> </del>	Y	2.26	67.32	12.92		150.0	
10300-	LTE-EDD (SC EDMA FOR DD CARL	Z	2.85	70.23	14.21		150.0	
AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	2.23	66.40	12.06	0.00	150.0	± 9.6 %
		Y	1.80	63.86	10.49		150.0	
10301- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	2.02 4.96	65.21 66.27	11.16 17.84	4.17	150.0 50.0	± 9.6 %
		Y	4.81	65.67	17.36		50.0	
		Ż	4.92	66.22	17.69		50.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.40	66.70	18.46	4.96	50.0	± 9.6 %
		Y	5.28	66.13	17.97		50.0	

10303-	IEEE 802.16e WiMAX (31:15, 5ms,	X	5.16	66.40	18.33	4.96	50.0	± 9.6 %
AAA	10MHz, 64QAM, PUSC)	<del>  ,,  </del>	OF	05.04	47.00			
		Y	5.05 5.13	65.84 66.34	17.82 18.15		50.0 50.0	
40004	IEEE 902 160 W/MAY (20:19, 5mg	Z	4.95	66.19	17.76	4.17	50.0	± 9.6 %
10304- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	^	4.33	00.19	17.70	7.17	30.0	2 3.0 %
<del></del>	TOWINZ, 04QAWI, FOOC)	Y	4.82	65.58	17.25		50.0	
		Ż	4.91	66.10	17.58		50.0	
10305-	IEEE 802.16e WIMAX (31:15, 10ms,	$\frac{-}{x}$	4.79	69.29	20.49	6.02	35.0	± 9.6 %
AAA	10MHz, 64QAM, PUSC, 15 symbols)	1 1	_					
		Y	4.92	69.65	20.24		35.0	
		Z	4.96	69.98	20.57		35.0	
10306-	IEEE 802.16e WiMAX (29:18, 10ms,	X	4.98	67.74	19.82	6.02	35.0	± 9.6 %
AAA	10MHz, 64QAM, PUSC, 18 symbols)	$\sqcup$			10		05.0	
		Y	5.02	67.82	19.55		35.0	
		Z	5.06	68.09	19.80	0.00	35.0	1069
10307-	IEEE 802.16e WIMAX (29:18, 10ms,	X	4.91	68.01	19.83	6.02	35.0	± 9.6 %
AAA	10MHz, QPSK, PUSC, 18 symbols)	Y	4.06	68.13	19.56		35.0	
			4.96 5.00	68.41	19.83		35.0	
40000	JEEE 902 160 M/MAY /20:19 10mg	Z	4.90	68.28	20.00	6.02	35.0	± 9.6 %
10308-	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	^	7.30	00.20	20.00	0.02	55.5	1 0.0 /0
<u> </u>	TUMHZ, TOQAW, FUSC)	Y	4.96	68.42	19.74		35.0	
	<del></del>	Ż	5.00	68.72	20.02		35.0	
10309-	IEEE 802.16e WiMAX (29:18, 10ms,	$\frac{1}{X}$	5.05	67.98	19.97	6.02	35.0	± 9.6 %
AAA	10MHz, 16QAM, AMC 2x3, 18 symbols)	'	0.00					
,,,,,		Y	5.08	68.03	19.69		35.0	
		Z	5.12	68.30	19.94		35.0	
10310-	IEEE 802.16e WiMAX (29:18, 10ms,	X	4.94	67.85	19.81	6.02	35.0	± 9.6 %
AAA	10MHz, QPSK, AMC 2x3, 18 symbols)							
		Y	4.99	67.96	19.55		35.0	
		Z	5.03	68.23	19.81		35.0	
10311-	LTE-FDD (SC-FDMA, 100% RB, 15	X	3.12	69.05	16.32	0.00	150.0	± 9.6 %
AAC	MHz, QPSK)	<del>  ,,</del>	0.70	07.07	45.00		4500	
		Y	2.78	67.07	15.09 15.86		150.0 150.0	
40040	IDEN 4-2	Z	2.98 9.43	68.34 86.22	21.27	6.99	70.0	± 9.6 %
10313-	iDEN 1:3	^	9.43	00.22	21.27	0.55	70.0	1 9.0 %
AAA		TY	4.12	73.47	16.16		70.0	
		Ż	6.08	78.52	18.27		70.0	
10314-	iDEN 1:6	+ <del>-</del> -	16.11	100.77	29.06	10.00	30.0	± 9.6 %
AAA	IDEN 1.0	^	10	100				
		Y	5.93	81.41	21.99		30.0	
		Z	9.26	88.93	24.82		30.0	
10315-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	X	1.11	64.08	15.40	0.17	150.0	± 9.6 %
AAB	Mbps, 96pc duty cycle)							
		Υ	0.99	62.44	13.89		150.0	
		Z	1.08	63.56	14.83		150.0	
10316-	IEEE 802.11g WiFi 2.4 GHz (ERP-	X	4.59	66.75	16.35	0.17	150.0	± 9.6 %
AAB	OFDM, 6 Mbps, 96pc duty cycle)	+		<del> </del>	45.00		450.0	ļ
		Y	4.48	66.25	15.98	ļ	150.0	
10015	LEGE COO AA LANGE COLL CORDA C	Z	4.54	66.61	16.17	0.47	150.0	+06%
10317-	IEEE 802.11a WiFi 5 GHz (OFDM, 6	X	4.59	66.75	16.35	0.17	150.0	± 9.6 %
AAC	Mbps, 96pc duty cycle)	Y	4.48	66.25	15.98	<b>-</b>	150.0	<b></b>
		Z	4.46	66.61	16.17	<del>                                     </del>	150.0	<del> </del>
10400-	IEEE 802.11ac WiFi (20MHz, 64-QAM,	X	4.68	67.00	16.28	0.00	150.0	± 9.6 %
AAD	99pc duty cycle)	^	7.00	37.00	10.20	5.50	100.0	_ 5.5 /6
		Y	4.55	66.48	15.91		150.0	
-		Ż	4.62	66.85	16.11	İ	150.0	
10401-	IEEE 802.11ac WiFi (40MHz, 64-QAM,	+ <del>-</del>	5.39	67.18	16.44	0.00	150.0	± 9.6 %
AAD	99pc duty cycle)	'						[
		Y	5.31	66.86	16.21	<u> </u>	150.0	
		Z						

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.63	67.47	16.44	0.00	150.0	± 9.6 %
L		Y	5.53	67.03	16.16		150.0	<del> </del>
		Z	5.58	67.35	16.31		150.0	<del> </del>
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	1.48	69.05	14.14	0.00	115.0	± 9.6 %
<del></del>		Y	1.01	64.24	10.87		115.0	
10404-	CD1440000 (4 5) ( 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5	Z	1.25	66.95	12.81		115.0	
AAB	CDMA2000 (1xEV-DO, Rev. A)	X	1.48	69.05	14.14	0.00	115.0	± 9.6 %
<u> </u>		Y	1.01	64.24	10.87		115.0	
10406-	CDMA2000, RC3, SO32, SCH0, Full	Z	1.25	66.95	12.81	<u></u>	115.0	
AAB	Rate	X	100.00	118.99	29.36	0.00	100.0	± 9.6 %
		Z	10.72	90.66	22.54		100.0	
10410-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz,	_	100.00	116.96	28.31		100.0	
AAD	QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	×	100.00	124.56	31.79	3.23	80.0	± 9.6 %
	<del></del>	Y	100.00	122.13	30.66		80.0	
10415-	IEEE 900 44h WIELD 4 CH IEEE	Z	100.00	120.66	29.96		80.0	
AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.02	63.05	14.69	0.00	150.0	± 9.6 %
	<del></del>	Y	0.91	61.56	13.26		150.0	
10416-	IEEE 002 44- WEE: 0.4 OU. 4555	Z	0.98	62.54	14.15		150.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	X	4.53	66.68	16.22	0.00	150.0	± 9.6 %
	<del>                                     </del>	Y	4.41	66.17	15.86		150.0	
10417-	IEEE 902 44e/b MUE: 5 OUL (CERM	Z	4.47	66.54	16.06		150.0	
AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.53	66.68	16.22	0.00	150.0	± 9.6 %
		_	4.41	66.17	15.86		150.0	
10418-	IEEE 902 11 - WIE 0 4 OLL (DOOD	Z	4.47	66.54	16.06		150.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.52	66.84	16.25	0.00	150.0	± 9.6 %
		Y	4.39	66.31	15.87		150.0	
10419-	IEEE 900 44 - WIEE 0 4 OLL (DOOR	Z	4.46	66.71	16.09		150.0	
AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.54	66.79	16.25	0.00	150.0	± 9.6 %
		Υ	4.41	66.27	15.88		150.0	
10100		Z	4.48	66.65	16.09		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	×	4.65	66.78	16.26	0.00	150.0	± 9.6 %
	<del></del>	Y	4.53	66.29	15.91		150.0	
10423-	IEEE 902 11p /UT Consecutive 40.0	Z	4.60	66.65	16.10		150.0	
AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.81	67.09	16.37	0.00	150.0	± 9.6 %
		Y	4.69	66.59	16.02		150.0	
10424-	IEEE 802.11n (HT Greenfield, 72.2	Z	4.75	66.95	16.21		150.0	
AAB	Mbps, 64-QAM)	X	4.74	67.05	16.35	0.00	150.0	± 9.6 %
		Y	4.61	66.53	15.99		150.0	
10425-	IEEE 802.11n (HT Greenfield, 15 Mbps,	Z	4.68	66.91	16.19		150.0	
AAB	BPSK)	X	5.33	67.32	16.51	0.00	150.0	± 9.6 %
		Y	5.24	66.92	16.24		150.0	
10426-	IEEE 802.11n (HT Greenfield, 90 Mbps,	Z	5.27	67.18	16.36	0.55	150.0	
AAB	16-QAM)	X	5.34	67.36	16.53	0.00	150.0	± 9.6 %
	<del></del>	Y	5.26	67.01	16.28		150.0	
	<u> </u>	Ζ	5.28	67.23	16.38		150.0	

10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	×	5.35	67.33	16.51	0.00	150.0	± 9.6 %
		Υ	5.26	66.94	16.25		150.0	
		Ζ	5.29	67.20	16.36		150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	×	4.25	70.87	18.17	0.00	150.0	± 9.6 %
		Y	4.05	70.09	17.58		150.0	
-		Ż	4.19	70.78	18.00		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.20	67.24	16.22	0.00	150.0	± 9.6 %
		Y	4.05	66.59	15.73		150.0	
		Z	4.13	67.05	16.01		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	Х	4.50	67.10	16.29	0.00	150.0	± 9.6 %
		Y	4.37	66.54	15.89		150.0	
		Z	4.44	66.95	16.12		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.75	67.08	16.37	0.00	150.0	± 9.6 %
		~	4.62	66.56	16.01		150.0	
		Z	4.69	66.94	16.21		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.36	71.77	18.15	0.00	150.0	± 9.6 %
		Υ	4.09	70.71	17.39		150.0	
		Z	4.28	71.63	17.93		150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	124.35	31.69	3.23	80.0	± 9.6 %
70.0		Y	100.00	121.93	30.56		80.0	
		Z	100.00	120.45	29.86		80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	Х	3.49	67.25	15.52	0.00	150.0	± 9.6 %
AND	Cupping 1170/	Y	3.29	66.28	14.76		150.0	
		Ż	3.40	66.95	15.22		150.0	Î
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	4.04	67.02	16.08	0.00	150.0	± 9.6 %
7010	Cuppiii 1170)	Y	3.89	66.36	15.58		150.0	
		Z	3.98	66.83	15.87		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.32	66.93	16.19	0.00	150.0	± 9.6 %
7012		Y	4.18	66.35	15.77		150.0	
		Ž	4.26	66.77	16.01		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.52	66.85	16.22	0.00	150.0	± 9.6 %
	Cupping 1770	Y	4.39	66.31	15.84		150.0	
		Z	4.46	66.71	16.06		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.38	67.41	15.12	0.00	150.0	± 9.6 %
		Y	3.14	66.26	14.23		150.0	
		Z	3.27	67.03	14.76		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	Х	6.20	67.87	16.66	0.00	150.0	± 9.6 %
		Υ	6.13	67.54	16.45		150.0	
		Z	6.15	67.76	16.54		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.79	65.32	15.93	0.00	150.0	± 9.6 %
		Y	3.69	64.82	15.55		150.0	
		Z	3.75	65.20	15.77		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	4.00	71.03	17.52	0.00	150.0	± 9.6 %
		Y	3.69	69.69	16.56		150.0	
	<u> </u>	Z	3.90	70.77	17.22	Ī	150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3	X	5.07	68.44	18.11	0.00	150.0	± 9.6 %
	(camers)							II .
AAA	carriers)	Y	4.96	68.22	17.89	<u> </u>	150.0	

10460-	UMTS-FDD (WCDMA, AMR)	X	0.91	68.37	16.28	0.00	150.0	± 9.6 %
AAA		+	<del> </del>					
		1 Y	0.69	64.27	13.12		150.0	
10461-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	Z	100.00	66.52	14.99	+	150.0	
AAA	QPSK, UL Subframe=2,3,4,7,8,9)	Ŷ		131.00	34.77	3.29	80.0	± 9.6 %
		Z	100.00	125.15	32.14	ļ	80.0	
10462-	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz,	1 ×	100.00	125.68	32.31	<del> </del>	80.0	
AAA	16-QAM, UL Subframe=2,3,4,7,8,9)	Ŷ	4.14	109.63	24.78	3.23	80.0	± 9.6 %
		Z	14.60	74.20 86.27	15.07	<del> </del>	80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	105.25	18.21 22.73	3.23	80.0	± 9.6 %
		Y	2.03	66.14	11.50	<del> </del> -		
		Z	2.74	68.94	12.19	<del> </del>	80.0	
10464- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.65	33.51	3.23	80.0	± 9.6 %
		Y	100.00	122.54	30.78		80.0	
40405		Z	100.00	123.08	30.95		80.0	
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	108.91	24.44	3.23	80.0	± 9.6 %
		Υ	3.14	71.22	13.94		80.0	
10466-	LTE TOD (SO TO)	Z	7.18	79.12	16.10		80.0	
AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	×	62.83	100.18	21.47	3.23	80.0	± 9.6 %
		Y	1.82	64.99	10.96		80.0	
10467-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz,	Z	2.25	67.05	11.42		80.0	
10467- AAC	QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.95	33.64	3.23	80.0	± 9.6 %
	<del></del>	Y	100.00	122.82	30.90		80.0	
10468-	LTE TOD (SC FDMA 4 DD FAM)	Z	100.00	123.36	31.08		80.0	
AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	×	100.00	109.14	24.54	3.23	80.0	± 9.6 %
		Y	3.36	71.95	14.23		80.0	
10469-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-	Z	8.47	80.80	16.62		80.0	
AAC	QAM, UL Subframe=2,3,4,7,8,9)	X	69.54	101.17	21.69	3.23	80.0	± 9.6 %
	<del> </del>	Y	1.82	65.03	10.97		80.0	
10470-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz,	Z	2.26	67.11	11.44		80.0	
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	129.00	33.65	3.23	80.0	± 9.6 %
		Y	100.00	122.84	30.90		80.0	
10471-	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-	Z	100.00	123.39	31.08		80.0	
AAC	QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.07	24.50	3.23	80.0	± 9.6 %
	<u> </u>	Y	3.33	71.86	14.18		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	8.32 67.85	80.60 100.86	16.55 21.60	3.23	80.0 80.0	± 9.6 %
	121212121	Y	1.81	64.98	10.94		90.0	
		Ż	2.24	67.02	11.39		80.0 80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	128.96	33.63	3.23	80.0	± 9.6 %
		Y	100.00	122.81	30.88		90.0	
		Ż	100.00	123.35	31.06		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	109.08	24.50	3.23	80.0 80.0	± 9.6 %
		Υ	3.30	71.79	14.16		80.0	
10.1==		Z	8.19	80.46	16.51		80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	64.40	100.38	21.50	3.23	80.0	± 9.6 %
		~						
	<del></del>	Y	1.80	64.95	10.93	I	80.0	

10477-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-	Х	100.00	108.86	24.40	3.23	80.0	± 9.6 %
AAC	QAM, UL Subframe=2,3,4,7,8,9)	Y	3.14	71.21	13.92		80.0	
		Z	7.22	79.16	16.09		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	59.59	99.57	21.30	3.23	80.0	± 9.6 %
<u> </u>	QANI, OE OBSTANO 2,0,1,1,0,0	Υ	1.80	64.89	10.90		80.0	
		Ζ	2.21	66.89	11.33		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	33.98	110.28	30.49	3.23	80.0	± 9.6 %
		Υ	10.65	90.53	24.29		80.0	
		Ζ	17.47	98.06	26.51		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	55.09	108.07	27.44	3.23	80.0	± 9.6 %
		Υ	8.34	81.68	19.63		80.0	
		Z	16.92	90.76	22.25		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	32.11	99.43	24.78	3.23	80.0	± 9.6 %
		Υ	6.33	77.42	17.81		80.0	
		Z	11.19	84.53	19.99		80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.98	79.29	19.81	2.23	80.0	± 9.6 %
		Υ	2.52	69.01	15.05		80.0	
		Z	3.56	73.69	17.21		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	9.69	84.30	20.93	2.23	80.0	± 9.6 %
		Υ	4.49	73.11	16.49		80.0	
		Z	5.98	76.87	17.89		80.0	
10484- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	8.07	81.59	20.04	2.23	80.0	± 9.6 %
		Y	4.14	71.84	16.00		80.0	<u> </u>
		Z	5.35	75.18	17.28		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.87	79.34	20.87	2.23	80.0	± 9.6 %
		Y	3.05	71.52	17.15		80.0	
		Z	4.00	75.47	18.93		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.02	72.81	17.77	2.23	80.0	± 9.6 %
		Υ	2.96	67.87	15.09		80.0	
		Z	3.56	70.50	16.40		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.94	72.16	17.48	2.23	80.0	± 9.6 %
		Υ	2.96	67.53	14.93		80.0	
		Z	3.52	70.01	16.18		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.51	76.30	20.43	2.23	80.0	± 9.6 %
		Y	3.45	71.46	17.96		80.0	<u> </u>
		Z	4.10	74.15	19.20	ļ	80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.95	71.13	18.33	2.23	80.0	± 9.6 %
		Υ	3.42	68.43	16.73		80.0	<u> </u>
		Z	3.80	70.12	17.56	1	80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	4.02	70.83	18.21	2.23	80.0	± 9.6 %
		Υ	3.51	68.31	16.70	ļ	80.0	
		Z	3.88	69.91	17.48		80.0	<u> </u>
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.45	73.62	19.48	2.23	80.0	± 9.6 %
		Y	3.72	70.26	17.67		80.0	
		Z	4.21	72.26	18.60		80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.18	69.82	18.06	2.23	80.0	± 9.6 %
		Y	3.79	67.91	16.88	L	80.0	
		Z	4.10	69.19	17.50		80.0	

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10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz,	X	4.23	69.62	17.98	2.23	80.0	± 9.6 %
740	64-QAM, UL Subframe=2,3,4,7,8,9)	+		<u> </u>				
	<del></del>						80.0	
10494-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,					<u> </u>	80.0	
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	3,4,7,8,9)  Y 3,86 67,80 16,85 Z 4,16 69,04 17,45 4,7,8,9)  Y 3,99 71,54 18,04 Z 4,61 73,86 19,09 6 RB, 20 MHz, X 4,23 70,26 18,28 2,23 3,4,7,8,9)  Y 3,82 68,25 17,06 6 RB, 20 MHz, X 4,29 69,87 18,14 2,23 3,4,7,8,9)  Y 3,90 68,03 17,01 Z 4,11 69,28 17,61 X 8,1,4 X 3,56 74,10 16,81 2,23 X 8,1,7,8,9)  Y 1,72 64,30 11,87 Z 2,41 68,36 14,00 X RB, 1,4 X 2,03 64,32 11,52 2,23  Y 1,44 60,29 8,81 Z 1,70 62,00 9,97 X RB, 1,4 X 1,92 63,43 10,94 2,23  Y 1,43 60,00 8,52 Z 1,64 61,41 9,52 X 1,7,8,9)  Y 3,18 71,31 17,42 X 3,99 72,12 17,97 2,23 X 1,7,8,9  Y 3,18 68,24 15,78 X 3,99 72,12 17,97 2,23 X 1,7,8,9)  Y 3,18 68,24 15,78 X 3,99 72,12 17,97 2,23 X 1,7,8,9)  Y 3,18 68,24 15,78 X 3,99 72,12 17,97 2,23 X 4,7,8,9)  Y 3,18 68,24 15,78 X 3,99 72,12 17,97 2,23 X 4,7,8,9)  Y 3,18 68,24 15,78 X 4,7,8,9)  Y 3,18 68,24 15,78 X 4,7,8,9)  Y 3,18 68,24 15,78 X 3,99 72,12 17,97 2,23 X 4,7,8,9)  Y 3,18 68,24 15,78 X 4,7,8,9)  Y 3,18 71,31 17,42 X 4,03 71,86 17,80 2,23 X 4,7,8,9)  Y 3,18 71,31 17,42 X 3,99 72,12 17,97 2,23 X 4,7,8,9)  Y 3,18 68,24 15,78 X 4,7,8,9)  Y 3,18 71,31 17,42 X 4,03 71,86 17,80 2,23 X 4,7,8,9)  Y 3,18 68,20 11,567 X 3,78 70,24 16,74 X 4,78,9)  Y 3,40 68,34 16,67 X 3,78,9)  Y 3,49 68,22 16,64 X 2,3,86 69,81 17,43	80.0	± 9.6 %				
							80.0 80.0	
10495-	LTE TOD (SC FDMA 50% DD 00 MH						80.0	
AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)					2.23	80.0	± 9.6 %
							80.0	
10496-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,					<u> </u>		
AAC	64-QAM, UL Subframe=2,3,4,7,8,9)					2.23		± 9.6 %
10497-	LTE-TDD (SC-FDMA, 100% RB, 1.4							
AAA	MHz, QPSK, UL Subframe=2,3,4,7,8,9)					2.23		± 9.6 %
10498-	LTE-TDD (SC-FDMA, 100% RB, 1.4							
AAA	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)			64.32	11.52	2.23	80.0	± 9.6 %
				60.29	8.81		80.0	
10499-	LTE TOD (OO FOLK)				9.97			
AAA 	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)		1.92	63.43	10.94	2.23		± 9.6 %
			1.43	60.00	8.52		80.0	
40500		Z	1.64	61.41				
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)				20.48	2.23		± 9.6 %
	<del></del>				17.42		80.0	
10501-	LTE TOD (CC FDMA 4000) DD CAN						80.0	
AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)					2.23	80.0	± 9.6 %
					15.78		80.0	
10502-	LTE TOD (SC FDMA 4000) DD 0 AND						80.0	
AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)					2.23	80.0	± 9.6 %
	<del></del>				15.67		80.0	
10503-	LTE TOD (OO FOLIA 1000)				16.74		80.0	
AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)					2.23	80.0	± 9.6 %
							80.0	
10504-	LTE TOD (CC FDMA 4000) DD TANK						80.0	
AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)			18.27	2.23	80.0	± 9.6 %	
	<del>   </del>						80.0	
10505-	LITE TOD (SC FDMA 4000) DD TANK						80.0	
AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)				18.15	2.23	80.0	± 9.6 %
	<del> </del>						80.0	
10506-	LTE TOD (CC FD) (A 4000) FF 10				17.43		80.0	
AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	4.94	75.47	20.04	2.23		± 9.6 %
	<del> </del>	Y	3.96	71.40	17.97		80.0	
10507-	LITE TOD (SC EDMA 4000) DD 40	Z	4.57	73.71	19.02		80.0	
AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.22	70.20	18.24	2.23		± 9.6 %
		_						
		Υ	3.80	68.18	17.02		80.0	

10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.27	69.80	18.10	2.23	80.0	± 9.6 %
	Cubita:110-2,0,4,1,0,0)	Y	3.89	67.96	16.97		80.0	
		Ž	4.19	69.21	17.57		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	5.06	73.36	19.18	2.23	80.0	± 9.6 %
		Υ	4.32	70.38	17.60		80.0	
		Z	4.82	72.17	18.42		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	×	4.65	69.62	18.07	2.23	80.0	± 9.6 %
		Υ	4.30	68.00	17.09		80.0	
		Z	4.59	69.12	17.62		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	×	4.69	69.29	17.97	2.23	80.0	0 0 0 ± 9.6 %
•		Y	4.36	67.80	17.05		80.0	
		Z	4.64	68.86	17.54		80.0	
10512- AAC	MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  Y 4.36 67.80 17.05 80.0  Z 4.64 68.86 17.54 80.0  LTE-TDD (SC-FDMA, 100% RB, 20 X 5.50 75.53 19.89 2.23 80.0  MHz, QPSK, UL Subframe=2,3,4,7,8,9)  Y 4.46 71.66 17.96 80.0  Z 5.11 73.86 18.94 80.0  LTE-TDD (SC-FDMA, 100% RB, 20 X 4.56 69.99 18.23 2.23 80.0  MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  Y 4.18 68.22 17.17 80.0  LTE-TDD (SC-FDMA, 100% RB, 20 X 4.55 69.46 18.05 2.23 80.0  MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  Y 4.21 67.86 17.07 80.0  Z 4.49 68.97 17.60 80.0  IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 X 0.98 63.24 14.76 0.00 150.0  Mbps, 99pc duty cycle)  Y 0.87 61.64 13.23 150.0	80.0	± 9.6 %					
							80.0	
							80.0	
10513- AAC	MHz, 16-QAM, UL					2.23		± 9.6 %
							80.0	
							80.0	
10514- AAC	MHz, 64-QAM, UL					2.23	80.0	± 9.6 %
			4.21				80.0	
							80.0	
10515- AAA						0.00	150.0	± 9.6 %
							150.0	
		Z	0.94	62.68	14.17		150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.61	70.59	17.50	0.00	150.0	± 9.6 %
		Y	0.40	64.39 67.23	12.57		150.0 150.0	
10517-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	X	0.51 0.83	65.16	15.31 15.41	0.00	150.0	± 9.6 %
AAA	Mbps, 99pc duty cycle)	Y	0.69	62.61	13.13	0.00	150.0	1 9.0 76
		Z	0.78	64.11	14.51		150.0	·
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.52	66.75	16.20	0.00	150.0	± 9.6 %
_		Υ	4.40	66.24	15.83		150.0	
		Z	4.46	66.62	16.04		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.70	66.98	16.32	0.00	150.0	± 9.6 %
	<del>                                     </del>	Y	4.57	66.47	15.96	<del> </del>	150.0	
40500	LEEF 000 44 of WIELF OLD (OFF) 4.40	Z	4.64	66.84	16.16	0.00	150.0	+000
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.55	66.93	16.24 15.86	0.00	150.0 150.0	± 9.6 %
		Z	4.42	66.78	16.07	<del>                                     </del>	150.0	<del></del>
10521- AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.48	66.93	16.23	0.00	150.0	± 9.6 %
		Υ	4.35	66.37	15.83		150.0	
		Z	4.42	66.77	16.05		150.0	
10522- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.55	67.03	16.32	0.00	150.0	± 9.6 %
		Y	4.41	66.49	15.94		150.0	
		Z	4.48	66.88	16.15		150.0	

10523- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	X	4.43	66.91	16.17	0.00	150.0	± 9.6 %
AAB	Mbps, 99pc duty cycle)	+						
		Y	4.30	66.35	15.77	ļ	150.0	
10524-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54	Z	4.37	66.77	16.00	<del> </del>	150.0	
AAB	Mbps, 99pc duty cycle)	X	4.49	66.95	16.28	0.00	150.0	± 9.6 %
		Y	4.36	66.40	15.90		150.0	
10525-	IEEE 802.11ac WiFi (20MHz, MCS0,	Z	4.43	66.80	16.11		150.0	
AAB	99pc duty cycle)	X	4.48	66.01	15.88	0.00	150.0	± 9.6 %
		Z	4.35	65.45	15.49		150.0	
10526-	IEEE 802.11ac WiFi (20MHz, MCS1,	<del> </del> X	4.42 4.64	65.87	15.72		150.0	
AAB	99pc duty cycle)	Y	4.50	66.36	16.02	0.00	150.0	± 9.6 %
		Z	4.58	65.79 66.21	15.63		150.0	
10527-	IEEE 802.11ac WiFi (20MHz, MCS2,	X	4.57	66.32	15.85	0.00	150.0	<del> </del>
AAB	99pc duty cycle)	Y	4.43		15.96	0.00	150.0	± 9.6 %
		Z	4.43	65.74	15.56	<del> </del>	150.0	
10528-	IEEE 802.11ac WiFi (20MHz, MCS3,	X	4.58	66.17	15.79		150.0	
AAB	99pc duty cycle)	Ŷ		66.34	15.99	0.00	150.0	± 9.6 %
			4.44	65.76	15.60		150.0	
10529-	IEEE 802.11ac WiFi (20MHz, MCS4,	Z	4.52	66.18	15.82		150.0	
AAB	99pc duty cycle)		4.58	66.34	15.99	0.00	150.0	± 9.6 %
		Y	4.44	65.76	15.60		150.0	
10531-	IEEE 802.11ac WiFi (20MHz, MCS6,	Z	4.52	66.18	15.82		150.0	
AAB	99pc duty cycle)		4.57	66.43	16.00	0.00	150.0	± 9.6 %
		Y	4.42	65.83	15.59		150.0	
10532-	IEEE 902 4400 MIE: (2014) - 14007	Z	4.50	66.26	15.83		150.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.43	66.29	15.94	0.00	150.0	± 9.6 %
	<del></del>	Y	4.29	65.67	15.51		150.0	
10533-	IEEE 902 4400 MIE: (00MI I - 14000	Ζ	4.37	66.11	15.76		150.0	
AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.59	66.39	15.99	0.00	150.0	± 9.6 %
	<del></del>	Y	4.45	65.81	15.59		150.0	
10534-	IEEE 000 44 MEET (100 MEET)	Z	4.53	66.24	15.82		150.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	×	5.11	66.42	16.05	0.00	150.0	± 9.6 %
	<del> </del>	Υ	5.00	65.93	15.73		150.0	
10535-	IEEE 900 44 - MUEL 440 ML A400 A	Z	5.06	66.29	15.90		150.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	×	5.18 	66.60	16.13	0.00	150.0	± 9.6 %
		Y	5.07	66.13	15.82		150.0	
10536-	IEEE 802.11ac WiFi (40MHz, MCS2,	Z	5.12	66.46	15.98		150.0	
AAB	99pc duty cycle)	X	5.05	66.55	16.08	0.00	150.0	± 9.6 %
	<del> </del>	<b>Y</b> 1	4.93	66.05	15.75		150.0	
10537-	IEEE 902 1100 WIE: /40141 - 14000	Z	4.99	66.41	15.93		150.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.11	66.52	16.07	0.00	150.0	± 9.6 %
	<del> </del>	Y	4.99	66.02	15.75		150.0	
10538-	IEEE 902 1100 WIE: /40141 - 1400 1	Z	5.05	66.38	15.92		150.0	
AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.19	66.53	16.12	0.00	150.0	± 9.6 %
		<u> Y</u>	5.08	66.05	15.80		150.0	
10E40	IEEE 000 44 - MITH (100 to 100	Z	5.13	66.39	15.97		150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.13	66.54	16.14	0.00	150.0	± 9.6 %
		Υ	5.02	66.07	15.83		150.0	
		Z	5.06	66.38	15.98		150.0	

10541- AAB 10542- AAB 10543- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X Y Z	5.10 4.99	66.42 65.93	16.07 15.75	0.00	150.0	± 9.6 %
10542- AAB	IEEE 802.11ac WiFi (40MHz, MCS8,			65.93	15.75		450.0	
10543-							150.0	. 1
10543-			5.04	66.28	15.92		150.0	
10543-	MACC CORV CVCIP)	X	5.26	66.49	16.12	0.00	150.0	± 9.6 %
	Sope daty Syster	17	5.14	66.03	15.81		150.0	
		Z	5.20	66.36	15.97		150.0	
	IEEE 802.11ac WiFi (40MHz, MCS9,	$\frac{1}{x}$	5.33	66.52	16.15	0.00	150.0	± 9.6 %
	99pc duty cycle)	Y	5.21	66.06	15.86	0.00	150.0	
		Z	5.27	66.38	16.01		150.0	
40544	IEEE 900 44 WIEI (90MU- MCCO	$\frac{1}{x}$	5.43	66.54	16.01	0.00	150.0	± 9.6 %
10544- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)		-			0.00		± 9.0 %
		Y	5.32	66.07	15.75		150.0	
	1555 000 44	Z	5.38	66.41	15.91	0.00	150.0	1000
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.61	66.94	16.19	0.00	150.0	± 9.6 %
		Y	5.52	66.52	15.92		150.0	
		Z	5.55	66.80	16.05		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.49	66.73	16.10	0.00	150.0	± 9.6 %
		Y	5.38	66.25	15.80		150.0	
		Z	5.43	66.59	15.96		150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.56	66.77	16.12	0.00	150.0	± 9.6 %
7018		Y	5.45	66.31	15.83		150.0	
-		Ż	5.50	66.64	15.98		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.77	67.60	16.50	0.00	150.0	± 9.6 %
AAB	sape duty cycle)	TY	5.70	67.24	16.26		150.0	
		T Z	5.69	67.39	16.33		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.52	66.76	16.13	0.00	150.0	± 9.6 %
AAB	99pc duty cycle)	Y	5.42	66.32	15.85		150.0	
		Ż	5.46	66.63	15.99		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.52	66.80	16.11	0.00	150.0	± 9.6 %
7005		1 Y 1	5.41	66.32	15.81		150.0	
		Ż	5.46	66.65	15.96		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.44	66.62	16.03	0.00	150.0	± 9.6 %
70.0	0000 001, 0,0.0,	1 7 1	5.33	66.13	15.72		150.0	
_		Z	5.39	66.49	15.89		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.52	66.64	16.07	0.00	150.0	± 9.6 %
		Y	5.41	66.16	15.77		150.0	
		Z	5.46	66.51	15.93		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.84	66.90	16.13	0.00	150.0	± 9.6 %
		Y	5.74	66.46	15.86		150.0	
	-	Z	5.78	66.77	16.00		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.96	67.18	16.25	0.00	150.0	± 9.6 %
		1 7	5.87	66.76	15.99		150.0	
		Z	5.90	67.04	16.11		150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	Х	5.98	67.23	16.27	0.00	150.0	± 9.6 %
		Y	5.89	66.81	16.01		150.0	-
-		Z	5.92	67.10	16.13		150.0	
10557-	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.95	67.13	16.24	0.00	150.0	± 9.6 %
	appo duty cycle/	1	5.84	66.69	15.97	<del></del>	150.0	
AAC	•		5.89	1 50.05	10.31		1 100.0	L

10558-	IEEE 802.11ac WiFi (160MHz, MCS4,	X	5.99	67.29	16.33	0.00	150.0	± 9.6 %
AAC	99pc duty cycle)	4		<u> </u>		<u> </u>		
		Y	5.89	66.85	16.06		150.0	
10560-	IFFE 900 44 MIF: (400) 111 - 14000	<u>  Z</u>	5.93	67.15	16.19		150.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	×	5.99	67.15	16.30	0.00	150.0	± 9.6 %
	<del></del>	Y	5.88	66.70	16.03		150.0	
10561	IEEE 000 44 - 14051 (40014)	Z	5.93	67.02	16.16		150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.91	67.12	16.32	0.00	150.0	± 9.6 %
<del> </del>	<del> </del>	Y	5.82	66.68	16.05		150.0	
10562-	IEEE 802.11ac WiFi (160MHz, MCS8,	Z	5.85	66.98	16.18		150.0	
AAC	99pc duty cycle)	X	6.02	67.46	16.49	0.00	150.0	± 9.6 %
		Y	5.92	67.01	16.21		150.0	
10563-	IEEE 902 44 WEEE /4004 11 - 14000	Z	5.95	67.29	16.34		150.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.18	67.57	16.50	0.00	150.0	± 9.6 %
		Υ	6.06	67.06	16.20		150.0	
10504	IEEE 000 44 1177 2 1 5	Z	6.08	67.30	16.30		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	X	4.85	66.84	16.37	0.46	150.0	± 9.6 %
		Y	4.73	66.36	16.03		150.0	
40505		Z	4.79	66.71	16.21		150.0	<b>——</b>
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	Х	5.07	67.27	16.68	0.46	150.0	± 9.6 %
ļ		Y	4.95	66.80	16.36		150.0	
40500		Z	5.01	67.14	16.53		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Х	4.90	67.12	16.51	0.46	150.0	± 9.6 %
		Y	4.78	66.62	16.16		150.0	
		Z	4.84	66.98	16.34		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	X	4.93	67.50	16.86	0.46	150.0	± 9.6 %
		Υ	4.81	67.01	16.52		150.0	
		Z	4.88	67.38	16.70		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	4.82	66.91	16.29	0.46	150.0	± 9.6 %
		Y	4.70	66.40	15.92		150.0	
		Z	4.75	66.75	16.11		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	4.90	67.62	16.93	0.46	150.0	± 9.6 %
		Y	4.77	67.13	16.59		150.0	
		Z	4.84	67.50	16.78		150.0	<del></del>
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	4.92	67.45	16.85	0.46	150.0	± 9.6 %
		Υ	4.80	66.98	16.52		150.0	
40574	1555 000 4 11 11 11 11	Z	4.87	67.33	16.71		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	1.21	64.95	15.92	0.46	130.0	± 9.6 %
		Υ	1.08	63.21	14.35		130.0	
		Z	1.19	64.44	15.31		130.0	
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	Х	1.23	65.56	16.29	0.46	130.0	± 9.6 %
		Υ	1.09	63.67	14.64		130.0	
405=0		Z	1.20	64.99	15.65		130.0	
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	3.02	91.94	25.56	0.46	130.0	± 9.6 %
		Υ	1.01	72.85	16.81		130.0	
1055		Z	1.76	81.53	21.21		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.38	71.74	19.39	0.46	130.0	± 9.6 %
		T	1.11	67.73	16.62		130.0	

10575-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	×	4.64	66.67	16.46	0.46	130.0	± 9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)	Y	4.53	66.18	16.10		130.0	_
		Z	4.53	66.53	16.10		130.0	
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	$\frac{2}{x}$	4.67	66.84	16.52	0.46	130.0	± 9.6 %
AAA	OFDM, 9 Mbps, 90pc duty cycle)	^	4.07	00.04	10.52	0.40	130.0	± 3.0 %
		Y	4.55	66.35	16.16		130.0	
		Z	4.61	66.70	16.35		130.0	
10577-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.86	67.11	16.68	0.46	130.0	± 9.6 %
AAA	OFDM, 12 Mbps, 90pc duty cycle)	<b>,</b>						
		Y	4.74	66.63	16.34		130.0	
		Z	4.81	66.98	16.51		130.0	
10578-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.76	67.27	16.79	0.46	130.0	± 9.6 %
AAA	OFDM, 18 Mbps, 90pc duty cycle)							
		Υ	4.64	66.78	16.43		130.0	
		Z	4.70	67.13	16.61		130.0	
10579-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.53	66.56	16.11	0.46	130.0	± 9.6 %
AAA	OFDM, 24 Mbps, 90pc duty cycle)							
		Υ	4.40	66.02	15.70		130.0	
		Z	4.47	66.39	15.91		130.0	
10580-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.58	66.61	16.14	0.46	130.0	± 9.6 %
AAA	OFDM, 36 Mbps, 90pc duty cycle)	لــــــــــــــــــــــــــــــــــــــ						
		Υ	4.45	66.08	15.74		130.0	30.0 30.0 ± 9.6 % 30.0 30.0
		Z	4.51	66.44	15.94		130.0	
10581-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.66	67.32	16.74	0.46	130.0	± 9.6 %
AAA	OFDM, 48 Mbps, 90pc duty cycle)			1				
		Υ	4.54	66.80	16.36		130.0	
		Z	4.60	67.17	16.56		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	4.47	66.33	15.90	0.46	130.0	± 9.6 %
		Y	4.35	65.79	15.49		130.0	
		Z	4.41	66.15	15.69		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	Х	4.64	66.67	16.46	0.46	130.0	± 9.6 %
<u> </u>	Wibbs, sope daty cycle)	Y	4.53	66.18	16.10		130.0	
		Ż	4.59	66.53	16.28		130.0	
10584-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9	X	4.67	66.84	16.52	0.46	130.0	± 9.6 %
AAB	Mbps, 90pc duty cycle)	<del>  _     _</del>	4 5 5	66.25	16.16		130.0	
		Y	4.55	66.35				
40505	1555 000 44 % W/S: 5 OH- (OFDM 40	Z	4.61	66.70	16.35	0.46	130.0	1060/
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)		4.86	67.11	16.68	0.46	130.0	± 9.6 %
	<u> </u>	Υ	4.74	66.63	16.34		130.0	
_		Z	4.81	66.98	16.51		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.76	67.27	16.79	0.46	130.0	± 9.6 %
		Y	4.64	66.78	16.43		130.0	
		Z	4.70	67.13	16.61		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	Х	4.53	66.56	16.11	0.46	130.0	± 9.6 %
· • • • • • • • • • • • • • • • • • • •	inspo, cope day cyclo)	Y	4.40	66.02	15.70		130.0	
	<del> </del>	Ż	4.47	66.39	15.91		130.0	<b> </b>
10588-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36	X	4.58	66.61	16.14	0.46	130.0	± 9.6 %
AAB	Mbps, 90pc duty cycle)	Y	4.45	66.08	15.74	<del>                                     </del>	130.0	<del>                                     </del>
		Z	4.45	66.44	15.74	-	130.0	
10500	IEEE 902 11a/b W/E: 5 CH= /OEDM 49	$\frac{2}{x}$				0.46		+060/
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	^	4.66	67.32	16.74	0.46	130.0	± 9.6 %
~~D	iviopa, aopo duty cycle;	Y	4.54	66.80	16.36		130.0	<del> </del>
		Z	4.60	67.17	16.56		130.0	<del>                                     </del>
10500	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54	<u>Z</u>	4.60	66.33	15.90	0.46	130.0	± 9.6 %
10590- AAB	Mbps, 90pc duty cycle)					0.46		I 3.0 %
		Y	4.35	65.79	15.49	1	130.0	
		Z	4.41	66.15	15.69	I	130.0	l

10591-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.79	66.72	16.55	0.46	130.0	± 9.6 %
AAB	MCS0, 90pc duty cycle)					1	ŀ	
		Y	4.68	66.27	16.22		130.0	
40500		Z	4.74	66.60	16.39		130.0	
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.94	67.06	16.68	0.46	130.0	± 9.6 %
		Y	4.83	66.59	16.35		130.0	<u> </u>
10500		Z	4.88	66.92	16.51		130.0	
10593- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.86	66.96	16.56	0.46	130.0	± 9.6 %
		Y	4.74	66.48	16.21		130.0	
40504		Z	4.80	66.82	16.39		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.92	67.13	16.72	0.46	130.0	± 9.6 %
	<del></del>	Y	4.80	66.66	16.38		130.0	
10595-	IEEE 900 44 - (IEE No. 1 CONTIN	Z	4.86	66.99	16.55		130.0	
AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.89	67.09	16.62	0.46	130.0	± 9.6 %
		Υ	4.77	66.61	16.27		130.0	
10596-	IEEE 900 44 / / IEEE	Z	4.83	66.95	16.45		130.0	
AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.82	67.08	16.62	0.46	130.0	± 9.6 %
		Υ	4.70	66.59	16.26		130.0	
40507		Z	4.76	66.94	16.44		130.0	
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.77	66.98	16.50	0.46	130.0	± 9.6 %
		Υ	4.65	66.47	16.13		130.0	
40500		Z	4.71	66.83	16.32		130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	Х	4.75	67.21	16.76	0.46	130.0	± 9.6 %
		Υ	4.63	66.70	16.40		130.0	
10000		Z	4.69	67.06	16.58		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.46	67.24	16.75	0.46	130.0	± 9.6 %
		Υ	5.37	66.85	16.49		130.0	
10000		Z	5.39	67.07	16.57		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.58	67.61	16.91	0.46	130.0	± 9.6 %
		Υ	5.51	67.33	16.70		130.0	
		Z	5.51	67.44	16.73		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.47	67.38	16.81	0.46	130.0	± 9.6 %
		Y	5.39	67.03	16.56		130.0	
		Z	5.41	67.24	16.65		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.58	67.44	16.76	0.46	130.0	± 9.6 %
		Υ	5.50	67.13	16.53		130.0	
40000		Z	5.52	67.33	16.62		130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.64	67.71	17.02	0.46	130.0	± 9.6 %
		Υ	5.57	67.39	16.80		130.0	
10001	IEEE OOG 44 WEEL	Z	5.58	67.58	16.87		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.48	67.26	16.79	0.46	130.0	± 9.6 %
		Y	5.41	66.95	16.56		130.0	
10005	1555 000 44 1555 15	Z	5.44	67.18	16.66		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.57	67.52	16.92	0.46	130.0	± 9.6 %
		Υ	5.50	67.22	16.69		130.0	
10000		Z	5.51	67.38	16.75		130.0	
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.32	66.87	16.46	0.46	130.0	± 9.6 %
		Y	5.22	66.44	16.16		130.0	
							1,00.0	

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10607-	IEEE 802.11ac WiFi (20MHz, MCS0,	X	4.63	66.06	16.19	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	+	4 = 4	05.51	45.01		400.0	
		Y	4.51	65.54	15.81		130.0	
	1777 000 44 14077 (0014) 14004	Z	4.58	65.91	16.01	0.40	130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	×	4.81	66.45	16.35	0.46 	130.0	± 9.6 %
		<u> </u>	4.68	65.92	15.98		130.0	
		Z	4.75	66.29	16.17		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.70	66.30	16.19	0.46	130.0	± 9.6 %
		Υ	4.57	65.75	15.80		130.0	
		Z	4.64	66.13	16.00		130.0	
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.75	66.46	16.35	0.46	130.0	± 9.6 %
		Y	4.62	65.92	15.97	_	130.0	
		Z	4.69	66.30	16.16		130.0	
10611- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.67	66.26	16.20	0.46	130.0	± 9.6 %
		Y	4.54	65.72	15.81		130.0	
		Z	4.61	66.10	16.01		130.0	
10612- AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	×	4.68	66.42	16.25	0.46	130.0	± 9.6 %
<u> </u>		Y	4.54	65.85	15.85		130.0	
		Z	4.61	66.24	16.05		130.0	
10613- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.68	66.29	16.13	0.46	130.0	± 9.6 %
		Y	4.54	65.72	15.72		130.0	
		Z	4.61	66.11	15.92		130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.63	66.48	16.35	0.46	130.0	± 9.6 %
70.0	3000 001, 070.07	Y	4.49	65.91	15.95		130.0	
	***************************************	Z	4.56	66.31	16.16		130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.67	66.11	15.99	0.46	130.0	± 9.6 %
70,0		Y	4.54	65.55	15.58		130.0	
		Z	4.60	65.93	15.79		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.28	66.50	16.37	0.46	130.0	± 9.6 %
		Y	5.17	66.04	16.06		130.0	
		Z	5.22	66.35	16.20		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.34	66.67	16.43	0.46	130.0	± 9.6 %
,,,,	3000 00.3 03000	Y	5.25	66.25	16.14		130.0	
		Ž	5.28	66.52	16.26		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.23	66.68	16.45	0.46	130.0	± 9.6 %
		Y	5.13	66.23	16.14		130.0	
		Z	5.17	66.54	16.28		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.24	66.48	16.28	0.46	130.0	± 9.6 %
- :-		Y	5.14	66.03	15.98		130.0	
		Z	5.18	66.33	16.11		130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	×	5.33	66.53	16.35	0.46	130.0	± 9.6 %
•		Y	5.23	66.08	16.05		130.0	
		Z	5.27	66.37	16.18		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	×	5.34	66.65	16.53	0.46	130.0	± 9.6 %
	1 1 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Y	5.23	66.22	16.25		130.0	
		Z	5.28	66.52	16.38		130.0	
10622-	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	×	5.35	66.81	16.60	0.46	130.0	± 9.6 %
AAH								
AAB		Y	5.25	66.38	16.32		130.0	

10623-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	5.23	66.35	16.25	T 0.46	400.0	1 . 0 0 0/
AAB	90pc duty cycle)		5.25	00.33	16.25	0.46	130.0	± 9.6 %
		Y	5.12	65.90	15.94		130.0	
40004		Z	5.17	66.20	16.08		130.0	
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.42	66.54	16.41	0.46	130.0	± 9.6 %
	<del></del>	<u> </u>	5.31	66.11	16.12		130.0	
1000E	IEEE 000 44 NAME: 440 M.	Z	5.35	66.39	16.24		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.74	67.40	16.89	0.46	130.0	± 9.6 %
		1 Y	5.64	66.98	16.61	<u> </u>	130.0	
10626-	IEEE 802.11ac WiFi (80MHz, MCS0,	Z	5.65	67.16	16.68		130.0	
AAB	90pc duty cycle)	X	5.58	66.56	16.32	0.46	130.0	± 9.6 %
		Y	5.48	66.12	16.04		130.0	<u> </u>
10627-	IEEE 802.11ac WiFi (80MHz, MCS1,	Z	5.52	66.42	16.17		130.0	
AAB	90pc duty cycle)	X	5.81	67.09	16.55	0.46	130.0	±9.6 %
		Y	5.73	66.75	16.32		130.0	
10628-	IEEE 802.11ac WiFi (80MHz, MCS2,	Z	5.74	66.94	16.39		130.0	
AAB	90pc duty cycle)	X	5.60	66.63	16.26	0.46	130.0	± 9.6 %
		Y	5.50	66.18	15.97		130.0	
10629-	IEEE 802.11ac WiFi (80MHz, MCS3,	Z	5.54	66.47	16.09		130.0	
AAB	90pc duty cycle)	X	5.67	66.68	16.27	0.46	130.0	± 9.6 %
	<del> </del>	<u> </u>	5.58	66.25	16.00		130.0	
10630-	IEEE 802.11ac WiFi (80MHz, MCS4,	Z	5.61	66.52	16.11		130.0	
AAB	90pc duty cycle)	X	6.05	68.01	16.94	0.46	130.0	± 9.6 %
	<del>                                     </del>	Y	6.02	67.78	16.75		130.0	
10631-	IEEE 900 44 - MIEI (00) III - MOOF	Z	5.95	67.73	16.72		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.99	67.90	17.07	0.46	130.0	± 9.6 %
	<del>                                       </del>	Y	5.89	67.50	16.82		130.0	
10632-	IEEE 000 44 - 14/5/ (0014)	Z	5.91	67.70	16.89		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.78	67.16	16.72	0.46	130.0	± 9.6 %
		Υ	5.70	66.81	16.49		130.0	
10022	IEEE 000 44 MITT 1000 W	Z	5.72	67.03	16.57		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.67	66.81	16.37	0.46	130.0	± 9.6 %
		Y	5.56	66.34	16.08		130.0	
10634-	IEEE 000 44 - 14"E" (001 III - 1400)	Z	<u>5.61</u>	66.66	16.22		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.65 	66.83	16.44	0.46	130.0	± 9.6 %
	<del> </del>	Y	5.54	66.37	16.15		130.0	
10635-	IEEE 902 1100 MIE: (0014) - 14000	Z	5.59	66.69	16.29		130.0	
AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.53 ————	66.18	15.86	0.46	130.0	± 9.6 %
	<del> </del>	Y	5.42	65.70	15.54		130.0	
10636-	IEEE 900 44e-148E! /4001#1	Z	5.47	66.01	15.68		130.0	
AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.99	66.91	16.40	0.46	130.0	± 9.6 %
		Y	5.90	66.50	16.14		130.0	
10627	IEEE 900 44e- MEE (4000 H)	Z	5.93	66.78	16.25		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	Х	6.14	67.28	16.57	0.46	130.0	± 9.6 %
		Y	6.06	66.91	16.33		130.0	
40000	1555 000 44 1415	Z	6.08	67.13	16.42		130.0	
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.14	67.26	16.54	0.46	130.0	± 9.6 %
		Υ	6.06	66.87	16.29		130.0	<del></del>
		Z	6.08	67.12	16.38		130.0	

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10639-	IEEE 802.11ac WiFi (160MHz, MCS3,	X	6.12	67.21	16.55	0.46	130.0	± 9.6 %
AAC	90pc duty cycle)	,	2.22	20.70	40.00		400.0	
		Y	6.03	66.79	16.29		130.0	
10010	1555 000 44 NATE (40014) 14004	Z	6.06	67.06	16.40	0.40	130.0	. 0 0 0′
10640- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.12	67.22	16.50	0.46	130.0	± 9.6 %
		Υ	6.03	66.80	16.23		130.0	
		Z	6.05	67.06	16.34		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.17	67.13	16.48	0.46	130.0	± 9.6 %
		Υ	6.09	66.76	16.24		130.0	
		Z	6.11	66.99	16.33		130.0	
10642- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.21	67.37	16.76	0.46	130.0	± 9.6 %
		Y	6.11	66.97	16.52		130.0	
		Z	6.15	67.24	16.62		130.0	
10643- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.05	67.07	16.51	0.46	130.0	± 9.6 %
		Y	5.96	66.67	16.26		130.0	
		Z	5.98	66.92	16.35		130.0	
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.19	67.51	16.76	0.46	130.0	± 9.6 %
		Y	6.09	67.08	16.48		130.0	
		Ż	6.11	67.32	16.58		130.0	
10645- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.42	67.82	16.87	0.46	130.0	± 9.6 %
<del>////</del>	Sope daty cycle/	Y	6.30	67.33	16.57		130.0	
		Ż	6.29	67.47	16.61		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	55.13	137.55	46.12	9.30	60.0	± 9.6 %
770	QI SIX, SE Gabitante-2,1)	T	18.04	107.24	36.35		60.0	
	<del></del>	Ż	34.16	122.72	41.09	<u> </u>	60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	43.28	132.63	45.01	9.30	60.0	± 9.6 %
AAC	QPSN, UL Subiranie-2,1)	Y	16.30	105.65	36.00		60.0	
		Z	29.23	119.96	40.48		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.69	63.58	10.80	0.00	150.0	± 9.6 %
7/1/	<del></del>	Y	0.52	60.87	8.12		150.0	
•		Ż	0.62	62.48	9.80		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.84	67.84	17.09	2.23	80.0	± 9.6 %
	Olipping 4470)	TY	3.55	66.36	16.08		80.0	
	<del></del>	Z	3.79	67.44	16.65		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	4.31	66.92	17.10	2.23	80.0	± 9.6 %
	- ··[-]	TY	4.11	65.92	16.40		80.0	
		Z	4.30	66.72	16.80	ľ	80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	4.28	66.53	17.08	2.23	80.0	± 9.6 %
		Y	4.10	65.60	16.44		80.0	
		Z	4.27	66.37	16.81		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.34	66.50	17.11	2.23	80.0	± 9.6 %
		Y	4.17	65.59	16.48		80.0	
		Z	4.34	66.34	16.85		80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	X	100.00	116.10	28.81	10.00	50.0	± 9.6 %
		Y	34.77	100.22	24.74		50.0	
		Ż	100.00	115.11	28.64		50.0	
40050	Pulse Waveform (200Hz, 20%)	X	100.00	114.50	27.14	6.99	60.0	± 9.6 %
10659- AAA	, , , ,							
AAA	, , , , , , , , , , , , , , , , , , ,	Y	100.00	110.58	25.46		60.0	

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10660- AAA	Pulse Waveform (200Hz, 40%)	X	100.00	115.57	26.37	3.98	80.0	± 9.6 %
		Y	100.00	106.91	22.49		80.0	
		Z	100.00	110.56	24.33		80.0	
10661- Pulse Waveform	Pulse Waveform (200Hz, 60%)	X	100.00	119.76	26.90	2.22	100.0	± 9.6 %
		Y	100.00	102.90	19.59		100.0	
		Z	100.00	111.43	23.53		100.0	
10662- Pulse	Pulse Waveform (200Hz, 80%)	X	100.00	129.98	29.24	0.97	120.0	± 9.6 %
		Y	0.26	60.41	4.94		120.0	
		Z	100.00	113.21	22.67		120.0	

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



Test Report S/N: Test Report Issue Date: 45461483 R1.0

01 March 2019

### **APPENDIX F - DIPOLE CALIBRATION**

# 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

Client

Celltech

Certificate No: CLA150-4007\_Apr17

### CALIBRATION CERTIFICATE

Object CLA150 - SN: 4007

Calibration procedure(s) QA CAL-15.v8

Calibration procedure for system validation sources below 700 MHz

Calibration date: April 27, 2017

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02522)	Apr-18
Reference 20 dB Attenuator	SN: 5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
Type-N mismatch combination	SN: 5047.2 / 06327	07-Apr-17 (No. 217-02529)	Apr-18
Reference Probe EX3DV4	SN: 3877	31-Dec-16 (No. EX3-3877_Dec16)	Dec-17
DAE4	SN: 654	12-Aug-16 (No. DAE4-654_Aug16)	Aug-17
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (No. 217-02285/02284)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (No. 217-02285)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (No. 217-02284	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17
	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	19
			min
Approved by:	Katja Pokovic	Technical Manager	&XXX

Issued: April 27, 2017

Schodulad Calibration

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 sensitivity in TSL / NORM x,y,z N/A 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 source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. 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%.

### **Measurement Conditions**

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

DASY Version	DASY5	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Phantom	Shell thickness: 2 ± 0.2 mm
EUT Positioning	Touch Position	
Zoom Scan Resolution	dx, dy = 4.0  mm, dz = 1.4  mm	Graded Ratio = 1.4 (Z direction)
Frequency	150 MHz ± 1 MHz	

### **Head TSL parameters**

The following parameters and calculations were applied.

The following parameters and sales and the very approximation	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	52.3	0.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	50.5 ± 6 %	0.76 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	1 W input power	3.90 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	3.87 W/kg ± 18.4 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	1 W input power	2.58 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	2.56 W/kg ± 18.0 % (k=2)

### **Body TSL parameters**

The following parameters and calculations were applied.

ne following parameters and calculations were appli	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	61.9	0.80 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	62.2 ± 6 %	0.82 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

### **SAR result with Body TSL**

SAR averaged over 1 cm <sup>3</sup> (1 g) of Body TSL	Condition	
SAR measured	1 W input power	4.08 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	4.01 W/kg ± 18.4 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL	condition	100000
SAR measured	1 W input power	2.70 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	2.65 W/kg ± 18.0 % (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	44.5 Ω - 7.6 jΩ	
Return Loss	- 20.1 dB	

## **Antenna Parameters with Body TSL**

Impedance, transformed to feed point	47.6 Ω - 9.1 jΩ	
Return Loss	- 20.3 dB	

### **Additional EUT Data**

Manufactured by	SPEAG	
Manufactured on	December 12, 2013	

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

Date: 27.04.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: CLA150; Type: CLA150; Serial: CLA150 - SN: 4007

Communication System: UID 0 - CW; Frequency: 150 MHz

Medium parameters used: f = 150 MHz;  $\sigma = 0.76 \text{ S/m}$ ;  $\varepsilon_r = 50.5$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

### DASY52 Configuration:

Probe: EX3DV4 - SN3877; ConvF(12.04, 12.04, 12.04); Calibrated: 31.12.2016;

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

• Electronics: DAE4 Sn654; Calibrated: 12.08.2016

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1003

DASY52 52.10.0(1442); SEMCAD X 14.6.10(7413)

# CLA Calibration for HSL-LF Tissue/CLA150, touch configuration, Pin=1W/Area Scan

(81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.42 W/kg

# CLA Calibration for HSL-LF Tissue/CLA150, touch configuration, Pin=1W/Zoom Scan,

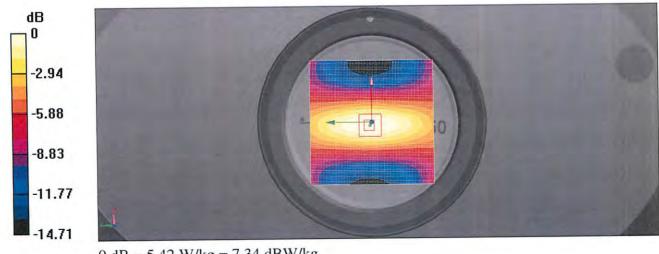
dist=1.4mm (8x10x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 74.83 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 7.04 W/kg

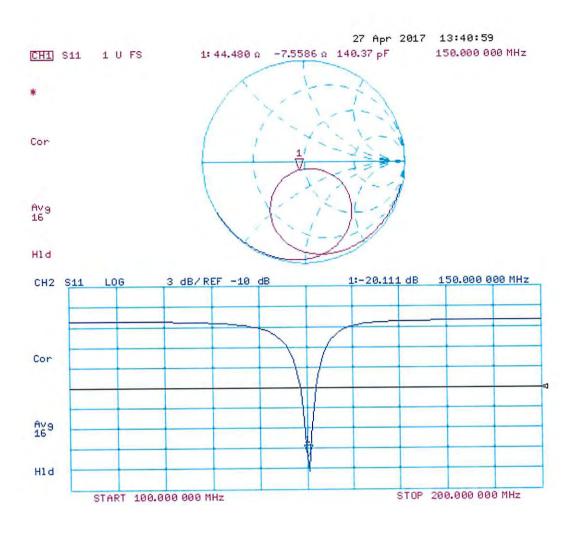
SAR(1 g) = 3.9 W/kg; SAR(10 g) = 2.58 W/kg

Maximum value of SAR (measured) = 5.40 W/kg



0 dB = 5.42 W/kg = 7.34 dBW/kg

### Impedance Measurement Plot for Head TSL



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

Date: 27.04.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: CLA150; Type: CLA150; Serial: CLA150 - SN: 4007

Communication System: UID 0 - CW; Frequency: 150 MHz

Medium parameters used: f = 150 MHz;  $\sigma = 0.82 \text{ S/m}$ ;  $\varepsilon_r = 62.2$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### DASY52 Configuration:

Probe: EX3DV4 - SN3877; ConvF(11.54, 11.54, 11.54); Calibrated: 31.12.2016;

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

Electronics: DAE4 Sn654; Calibrated: 12.08.2016

Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1003

DASY52 52.10.0(1442); SEMCAD X 14.6.10(7413)

# CLA Calibration for MSL-LF Tissue/CLA150, touch configuration, Pin=1W/Area Scan

(81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 5.74 W/kg

# CLA Calibration for MSL-LF Tissue/CLA150, touch configuration, Pin=1W/Zoom Scan,

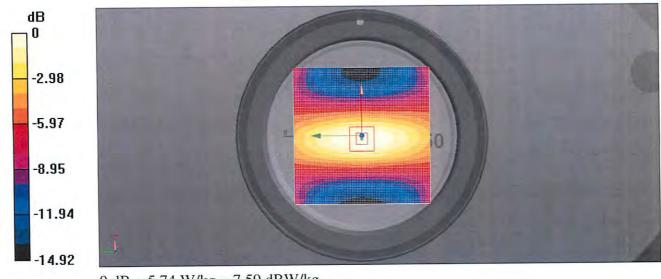
dist=1.4mm (8x10x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 82.70 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 7.74 W/kg

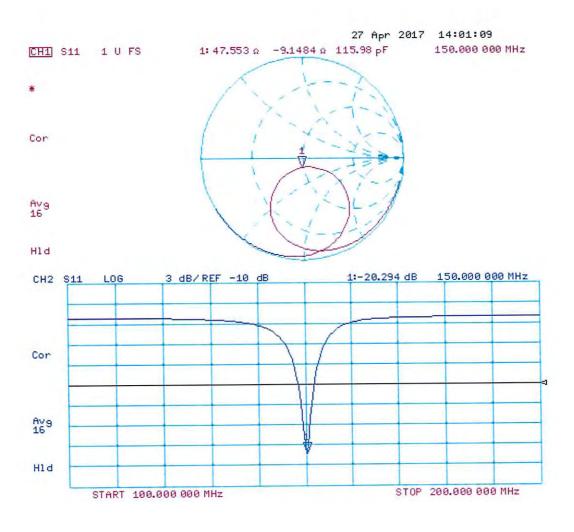
SAR(1 g) = 4.08 W/kg; SAR(10 g) = 2.7 W/kg

Maximum value of SAR (measured) = 5.74 W/kg



0 dB = 5.74 W/kg = 7.59 dBW/kg

### Impedance Measurement Plot for Body TSL





#### <u>Date:</u> April 13, 2018

Revision No. Rev. 1.0



### **150 MHz Dipole Extended Calibration**

Dipole: CLA150
Serial Number: 4007
Last Calibrated: April 13 2018

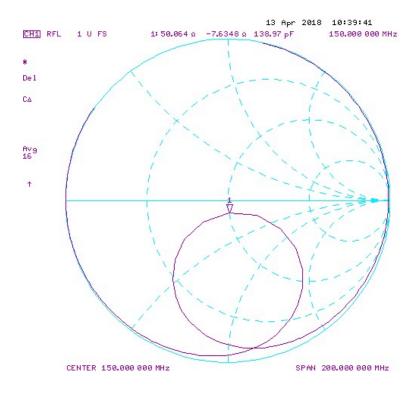
Antenna Parameters with Body TSL						
	Impedance Real (ohms)	Deviation from cal (ohms)	Impedance Imaginary (ohms)	Deviation from cal (ohms)	Return Loss (dB)	Deviation from Cal (%)
Last Calibration	47.55	-	-9.15	-	-20.29	-
Extended Cal April 13, 2018	50.06	+2.51	-7.63	+1.52	-20.27	+7.78%

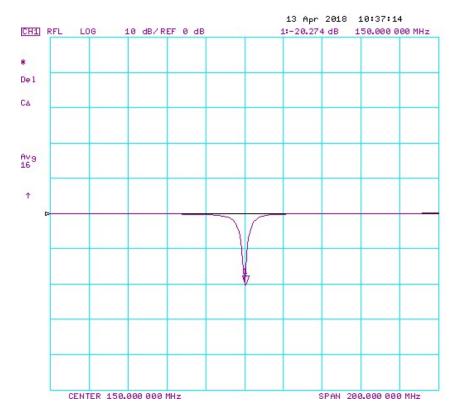
Revision No.
Rev. 1.0



#### **150 MHz Dipole Extended Calibration**

### **Antenna VSWR with Body TSL**







Test Report S/N: Test Report Issue Date: 45461483 R1.0 01 March 2019

**APPENDIX G - PHANTOM** 

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### **Certificate of Conformity / First Article Inspection**

Item	Oval Flat Phantom ELI 5.0
Type No	QD OVA 002 A
Series No	1108 and higher
Manufacturer	Untersee Composites
	Knebelstrasse 8, CH-8268 Mannenbach, Switzerland

#### Tests

Complete tests were made on the prototype units QD OVA 001 A, pre-series units QD OVA 001 B as well as on some series units QD OVA 001 B. Some tests are made on all series units QD OVA 002 A.

Test	Requirement	Details	Units tested
Shape	Internal dimensions, depth and sagging are compatible with standards	Bottom elliptical 600 x 400 mm, Depth 190 mm, dimension compliant with [1] for f > 375 MHz	Prototypes
Material thickness	Bottom: 2.0mm +/- 0.2mm	dimension compliant with [3] for f > 800 MHz	all
Material parameters	rel. permittivity 2 – 5, loss tangent ≤ 0.05, at f ≤ 6 GHz	rel. permittivity 3.5 +/- 0.5 loss tangent ≤ 0.05	Material samples
Material resistivity	Compatibility with tissue simulating liquids .	Compatible with SPEAG liquids. **	Phantoms, Material sample
Sagging	Sagging of the flat section in tolerance when filled with tissue simulating liquid.	within tolerance for filling height up to 155 mm	Prototypes, samples

Note: Compatibility restrictions apply certain liquid components mentioned in the standard, containing e.g. DGBE, DGMHE or Triton X-100. Observe technical note on material compatibility.

#### **Standards**

- [1] OET Bulletin 65, Supplement C, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 01-01
- [2] IEEE 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques, December 2003
- [3] IEC 62209–1 ed1.0, "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Human models, instrumentation, and procedures Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", 2005-02-18
- [4] IEC 62209–2 ed1.0, "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Human models, instrumentation, and procedures Part 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)", 2010-03-30

#### Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of **body-worn** SAR measurements and system performance checks as specified in [1-4] and further standards.

Date

25.7.2011

Signature / Stamp

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