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Hearing Aid Compatibility (HAC)

TEST REPORT





<For RF-Emission Measurement>

Model No.(EUT):	5053A	
Company Name	TCL Communication Ltd.	
	7/F, Block F4, TCL Communication Technology Building, TCL	
Company Address	International E City, Zhong Shan Yuan Road, Nanshan District,	
	Shenzhen, Guangdong, P.R. China 518052	
FCC ID	2ACCJH105	
Date of receive Mar. 27, 2019		
Date of test Mar. 28, 2019		
Date of Issue Mar. 29, 2019		

Standards:

ANSI C63.19-2011

FCC RULE PART(S): 47 CFR PART 20.19(B)

HAC CATEGORY: M4 (M Category)

In the configuration tested, the EUT complied with the standards specified above. Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

The test results of this report relate only to the tested sample (EUT) identified in this re-port.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Signed on behalf of SGS	
Engineer	Asst. Manager
Stella.Chang	Alex.wu Alex Wu
Date: Mar. 29, 2019	Date: Mar. 29, 2019

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Revision History

Report Number	Revision	Description	Issue Date
T190327W05	Rev.00	Initial creation of document	Mar. 29, 2019
		5(4)	
364			

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1. Introduction

The purpose of the Hearing Aid Compatibility is to enable measurements of the near electric fields generated by wireless communication devices in the region controlled for use by a hearing aid in accordance with ANSI-C63.19-2011

The purpose of this standard is to establish categories for hearing aids and for WD (wireless communications devices) that can indicate to health care practitioners and hearing aid users which hearing aids are compatible with which WD, and to provide tests that can be used to assess the electromagnetic characteristics of hearing aids and WD and assign them to these categories. The various parameters required, in order to demonstrate compatibility and accessibility are measured. The design of the standard is such that when a hearing aid and WD achieve one of the categories specified, as measured by the methodology of this standard, the indicated performance is realized.

In order to provide for the usability of a hearing aid with a WD, several factors must be coordinated:

a) Radio frequency (RF) measurements of the near-field electric fields emitted by a WD to categorize these emissions for correlation with the RF immunity of a hearing aid.

Hence, the following are measurements made for the WD: RF E-Field emissions

The measurement plane is parallel to, and 1.5cm in front of, the reference plane.

Applications for certification of equipment operation under part 20, that a manufacturer is seeking to certify as hearing aid compatible, as set forth in §20.19 of that part, shall include a statement indication compliance with the test requirements of §20.19 and indicating the appropriate U-rating for the equipment. The manufacturer of the equipment shall be responsible for maintaining the test results.

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2. Testing Laboratory

Company Name	Compliance Certification Services Inc.
Company address	No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891,
	Taiwan. (R.O.C.)
Website	http://www.ccsrf.com

3. Details of Applicant

Applicant Name	TCL Communication Ltd.	
	7/F, Block F4, TCL Communication Technology Building, TCL	
Applicant Address	International E City, Zhong Shan Yuan Road, Nanshan District,	
Cal	Shenzhen, Guangdong, P.R. China 518052	

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4. Description of EUT

Model No.	5053A			
FCC ID	2ACCJH105			
2	⊠GSM ⊠GPRS ∑	☑EDGE ☑WCDMA		
Mode of Operation	⊠LTE FDD ⊠Bluetooth			
	⊠WLAN802.11b/g/n/(20M/40M)			
	GSM	1/8.3		
	(DTM multi class B)			
	GPRS	1/2 (1Dn4UP) 1/2.76 (1Dn3UP)		
	(support multi class 12 max)	1/4.1 (1Dn2UP)		
	(capport main sides 12 max)	1/8.3 (1Dn1UP)		
	-50-	1/2 (1Dn4UP)		
Duty Cycle	EDGE	1/2.76 (1Dn3UP)		
	(support multi class 12 max)	1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)		
	WCDMA	1		
	LTE FDD	1		
	WLAN802.11b/g/n(20M/40M)	1		
	Bluetooth	1		
	GSM850	824 — 849		
	GSM1900	1850 — 1910		
	WCDMA Band II	1850 — 1910		
	WCDMA Band IV	1710 — 1755		
TV F D	WCDMA Band V	824 — 849		
TX Frequency Range (MHz)	LTE FDD Band 2	1850 — 1910		
(1411.12)	LTE FDD Band 4	1710 — 1755		
	LTE FDD Band 5	824 – 849		
	LTE FDD Band 7	2500 — 2570		
	LTE FDD Band 12	699 — 716		
	LTE FDD Band 13	777 — 787		

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	LTE FDD Band 17	704	_	716
	LTE FDD Band 66	1710	_	1780
TX Frequency Range	WLAN802.11 b/g/n(20M)	2412	_	2462
(MHz)	WLAN802.11 n(40M)	2422	_	2452
	Bluetooth	2402	A-C	2480
2	GSM850	128	1-	251
	GSM1900	512	_	810
	WCDMA Band II	9262	_	9538
	WCDMA Band IV	1312	_	1513
	WCDMA Band V	4132	_	4233
	LTE FDD Band 2	18607	_	19193
	LTE FDD Band 4	19957	_	20393
Channel Number	LTE FDD Band 5	20407	_	20643
(ARFCN)	LTE FDD Band 7	20775		21425
	LTE FDD Band 12	23017	-	23173
	LTE FDD Band 13	23205		23255
	LTE FDD Band 17	23755	_	23825
	LTE FDD Band 66	131979	_	132665
	WLAN802.11 b/g/n(20M/40M)	1	_	11
	WLAN802.11 n(40M)	3	_	9
	Bluetooth	0	_	78

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5. Air Interfaces and Bands

Air Interface	Band (MHz)	Туре	ANSI C63.19 Tested	Simultaneous Transmitter	Name of Voice Service	Power Reduction
GSM	850 1900	VO	Yes	BT and Wi-Fi	CMRS Voice	NA
	GPRS/EDGE	DT	No		NA	
WCDMA	850 1700 1900	vo	Yes (Note 1.)	BT and Wi-Fi	CMRS Voice	NA
	HSPA	DT	No		NA	
LTE	Band 2/4/5/7/12/1 3/17/66	VD	Yes (Note 1.)	BT and Wi-Fi	VoLTE	NA
Wi-Fi	2450	VD	Yes (Note 1.)	BT and GSM,WCDMA, LTE	Wi-Fi calling	NA
ВТ	2450	DT	NA	Wi-Fi and GSM,WCDMA, LTE	NA	NA

VO: Legacy Cellular Voice Service from Table 7.1 in 7.4.2.1 of ANSI C63.19-2011

DT: Digital Transport (no voice)

VD: IP Voice Service over Digital Transport

Note

1. It applies the low power exemption based on ANSI C63.19-2011

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6. Test Environment

Ambient Temperature	21.7° C
Relative Humidity	<80 %

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7. Description of test system

7.1 Measurement system Diagram for SPEAG Robotic

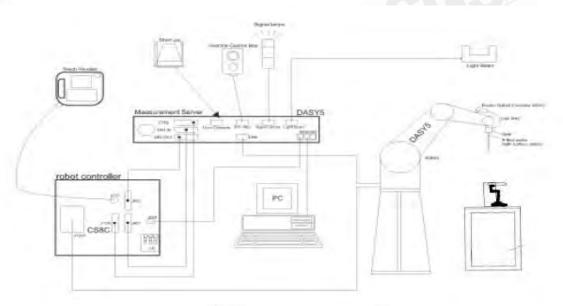


Fig.1 The SPEAG Robotic Diagram

The DASY5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- E Field probe.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.

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- · A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- · Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The Test Arch phantom.
- The device holder for handheld mobile phones.
- · Validation dipole kits allowing to validate the proper functioning of the system.

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7.2 E Field Probe

Construction	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges PEEK enclosure material			
Calibration	In air from 100 MHz to 3.0 GHz (absolute accuracy ±6.0%, k=2)			
Frequency	(extended to 20 MHz for MRI), Linearity: ± 0.2 dB (100 MHz to 3 GHz)	ER3DV6 E-Field Probe		
Directivity	± 0.2 dB in air (rotation around probe axis)			
Directivity	± 0.2 dB in air (rotation around probe axis) ± 0.4 dB in air (rotation normal to probe axis)			
Dynamic Range	rip diameter: 8 mm Distance from probe tip to dipole centers: 2.5 mm			
Dimensions				

7.3 Test Arch

<u> </u>	2017 (1011		
De	escription	Enables easy and well defined	
		positioning of the phone and	
		validation dipoles as well as simple	
		teaching of the robot.	
Dii	mensions	length: 370 mm	
		width: 370 mm	
		height: 370 mm	Test Arch

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7.4 Phone Holder

٠	Horic Holder		
	·	Supports accurate and reliable positioning of any phone Effect on near field <+/- 0.5 dB	
			Phone Holder

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8. Test Procedure

Test Instructions Confirm proper operation of probes and instrumentation Position WD Configure WD TX operation Per 5-4-1-2 (1-3) Initialize field probe Scan Area Per 5.4.1.2 (4-6) Identify exchrsion area. Resean or reunalyze open area to determine maximum Direct method: Record RF Audio Interference Level, in dB(V/m) Indirect method: Add the MIF to the maximum steady state rms field strength and record RF Audio Interference Level. in dB(V/m) Per 5,4.1.2 (7-9) & 5,4.1.3 Identify and record the category Per 5.4.1.2 (9-10)

Fig.2 RF emission flow chart

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The following illustrate a typical RF emissions test scan over a wireless communications device (Indirect method):

- 1. Proper operation of the field probe, probe measurement system, other instrumentation, and the positioning system was confirmed.
- 2. WD is positioned in its intended test position, acoustic output point of the device perpendicular to the field probe.
- 3. The WD operation for maximum rated RF output power was configured and confirmed with the base station simulator, at the test channel and other normal operating parameters as intended for the test. The battery was ensured to be fully charged before each test.
- 4. The center sub-grid was centered over the center of the acoustic output (also audio band magnetic output, if applicable). The WD audio output was positioned tangent (as physically possible) to the measurement plane.
- 5. A surface calibration was performed before each setup change to ensure repeatable spacing and proper maintenance of the measurement plane using the HAC Phantom.
- 6. The measurement system measured the field strength at the reference location.
- 7. Measurements at 5mm increments in the 5 × 5 cm region were performed and recorded. A 360° rotation about the azimuth axis at the maximum interpolated position was measured. For the worst-case condition, the peak reading from this rotation was used in re-evaluating the HAC category.
- The system performed a drift evaluation by measuring the field at the reference location.

Note.

Per KDB 285076 D01 v05 2.c) 1), handsets that have the ability to support concurrent connections using simultaneous transmissions shall be independently tested for each air interface/band given in ANSI C63.19-2011. At the present time ANSI C63.19 does not provide simultaneous transmission test procedures.

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9. System Verification

A dipole antenna meeting the requirements given in ANSI C63.19-2011 was placed in the position normally occupied by the WD.

The length of the dipole was scanned by E-field probes and the maximum values for each were recorded.

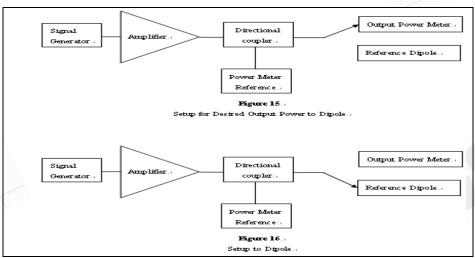


Fig.3 System verification

For E-Field Scan

Mode	Frequency(MHz)	Input Power(dBm)	E-Field 1 (V/m)	E-Field 2(V/m)	Target Value(V/m)	Deviation	Measured Date
CW	835	20	112.7	113.6	110.3	2.58%	Mar. 28, 2019
CW	1880	20	85.91	87.23	88.6	-2.29%	Mar. 28, 2019

Note:

For E-Field, the deviation is [(E-Field 1 + E-Field 2) / 2 – Target value] / Target value x 100%

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10. Modulation Interference Factor

For any specific fixed and repeatable modulated signal, a modulation interference factor (MIF, expressed in dB) may be developed that relates its interference potential to its steady-state rms signal level or average power level. This factor is a function only of the audio-frequency amplitude modulation characteristics of the signal and is the same for field-strength and conducted power measurements. It is important to emphasize that the MIF is valid only for a specific repeatable audio-frequency amplitude modulation characteristic. Any change in modulation characteristic requires determination and application of a new MIF

The MIF may be determined using a radiated RF field or a conducted RF signal,

- Using RF illumination or conducted coupling, apply the specific modulated signal in question to the measurement system at a level within its confirmed operating dynamic range.
- c) Measure the steady-state rms level at the output of the fast probe or sensor.
- d) Measure the steady-state average level at the weighting output.
- Without changing the square-law detector or weighting system, and using RF illumination or conducted coupling, substitute for the specific modulated signal a 1 kHz, 80% amplitude modulated carrier at the same frequency and adjust its strength until the level at the weighting output equals the step d) measurement.
- f) Without changing the carrier level from step e), remove the 1 kHz modulation and again measure the steady-state rms level indicated at the output of the fast probe or sensor.
- g) The MIF for the specific modulation characteristic is provided by the ratio of the step f) measurement to the step c) measurement, expressed in dB (20 × log(step f))/step c)).

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Based on the KDB285076D01v05, the handset can also use the MIF values predetermined by the test equipment manufacturer, and the following table lists the MIF values evaluated by DASY manufacturer (SPEAG), and the test result will be calculated with the MIF parameter automatically.

SPEAG UID	UID version	Communication system	MIF(dB)
10011	CAB	UMTS-FDD (WCDMA)	-27.23
10021	DAC	GSM-FDD (TDMA, GMSK)	3.63
10061	CAB	IEEE 802.11b WiFi 2.4 GHz	-2.02
10077	CAB	IEEE 802.11g WiFi 2.4 GHz	0.12
10170	CAE	LTE-FDD (SC-FDMA,1RB, 20MHz,16-QAM)	-9.76
10176	CAG	LTE-FDD (SC-FDMA,1RB, 10MHz,16-QAM)	-9.76
10178	CAG	LTE-FDD (SC-FDMA,1RB, 5MHz,16-QAM)	-9.76
10182	CAE	LTE-FDD (SC-FDMA,1RB, 15MHz,16-QAM)	-9.76
10185	CAE	LTE-FDD (SC-FDMA,1RB, 3MHz,16-QAM)	-9.76
10188	CAF	LTE-FDD (SC-FDMA,1RB, 1.4MHz,16-QAM)	-9.76
10591	AAB	IEEE 802.11n(20MHz)	-5.59
10599	AAB	IEEE 802.11n(40MHz)	-5.59

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11. Justification of held to ear modes tested

I. Analysis of RF air interface technologies

Based on ANSI. C63.19-2011. An RF air interface technology of a device is exempt from testing when its average antenna input power plus its MIF is ≤17 dBm for any of its operating modes. If a device supports multiple RF air interfaces, each RF air interface shall be evaluated individually.

The MIF plus the worst case average power for all modes are investigated below to determine the testing requirements for this device.

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II. Low power exemption

Air interference	Maximum Average Antenna input power (dBm)	Worst case MIF (dB)	Maximum Average Antenna input power + MIF (dBm)	Low power exemption
GSM850	33.5	3.63	37.13	No
GSM1900	30.5	3.63	34.13	No
WCDMA Band II	23.5	-27.23	-3.73	Yes
WCDMA Band IV	22.5	-27.23	-4.73	Yes
WCDMA Band V	23.5	-27.23	-3.73	Yes
LTE Band 2	24.5	-9.76	14.74	Yes
LTE Band 4	22.5	-9.76	12.74	Yes
LTE Band 5	24	-9.76	14.24	Yes
LTE Band 7	23.5	-9.76	13.74	Yes
LTE Band 12	24.5	-9.76	14.74	Yes
LTE Band 13	24	-9.76	14.24	Yes
LTE Band 17	24.5	-9.76	14.74	Yes
LTE Band 66	22.5	-9.76	12.74	Yes
WLAN 802.11b	16	-2.02	13.98	Yes
WLAN 802.11g	15	0.12	15.12	Yes
WLAN 802.11n(20M)	15	-5.59	9.41	Yes
WLAN 802.11n(40M)	15	-5.59	9.41	Yes

- # We used the predetermined MIF to evaluate the low power exemption.
- # Based on ANSI C63.19-2011, RF emission testing for WCDMA/LTE/WLAN 802.11b/n20/n40 is exempted.
- # Based on ANSI C63.19-2011, WCDMA/LTE/WLAN 802.11b/n20/n40 that is exempted from testing shall be rated as M4.

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12. ANSI C63.19-2011 performance and categories

The measurements were performed to ensure compliance to the ANSI C63.19-2011 standard,

Category	E-Field Emissions dB(V/m) < 960MHz
M1	50-55
M2	45-50
M3	40-45
M4	<40

Category	E-Field Emissions dB(V/m) > 960MHz
M1	40-45
M2	35-40
M3	30-35
M4	<30

WD RF audio interference level categories in logarithmic units

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13. Instruments List

Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration
Schmid & Partner Engineering AG	E-Field Probe	ER3DV6	2480	Dec.10,2018	Dec.09,2019
Schmid & Partner	System Validation	CD835V3	1149	Dec.10,2018	Dec.09,2019
Engineering AG	Dipole	CD1880V3	1023	Jun.21,2018	Jun.20,2019
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	1336	Aug.06,2018	Aug.05,2019
Schmid & Partner	Coffware	DASY52	NI/A	Calibration	Calibration
Engineering AG	Software	52.10.1	N/A	not required	not required
Apiloni	Dialactria Draha Kit	050700	11004440400	Calibration	Calibration
Agilent	Dielectric Probe Kit	85070D	US01440168	not required	not required
	Dual-directional	772D	MY52180142	Jul.04,2018	Jul.03,2019
Agilent	coupler	778D	MY52180302	Jul.05,2018	Jul.04,2019
Agilent	RF Signal Generator	N5181A	MY52180142	Jul.04,2018	Jul.03,2019
Schmid & Partner Engineering AG	Test Arch SD HAC	P01	1047	Calibration not required	Calibration not required
Agilent	Power Meter	ML2496A	1326001	Aug.09,2018	Aug.02,2019
Agilent	Power Sensor	MA 2411D	1315048	Aug.09,2018	Aug.02,2019
Agilent	Fower Sensor	MA2411B -	1315049	Aug.09,2018	Aug.02,2019

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Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration
	Radio				
R&S	Communication	MT8820C	6201465316	Mar.31,2018	Mar.30,2019
	Tester			0	-
	Radio				
R&S	Communication	CMW 500	143913	Apr.29.2018	Apr.28.2019
	Tester				

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14. Summary of Results

E-Field

E-Field Emission	Channel	Modulation Interference Factor	Power Drift(dB)	Audio Interference Level dB(V/m)	RESULT	Excl Blocks per 4.3.1.2.2
	128	3.63	-0.03	35.36	M4	124
GSM 850	128*	3.63	-0.03	35.26	M4	124
G3W 630	190	3.63	-0.01	34.49	M4	124
	251	3.63	-0.02	35.35	M4	124
E-Field Emission	Channel	Modulation Interference Factor	Power Drift(dB)	Audio Interference Level dB(V/m)	RESULT	Excl Blocks per 4.3.1.2.2
	512	3.63	0.04	27.45	M4	789
GSM 1900	661	3.63	0.03	29.84	M4	789
G3W 1900	661*	3.63	-0.02	27.10	M4	789
	810	3.63	0.01	27.56	M4	789

^{* - 2}nd battery spot check

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15. Measurement Data

HAC-E GSM 850 CH 128

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 824.2

MHz; Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

Probe: ER3DV6 - SN2480; ConvF(1, 1, 1), Calibrated: 2018/12/10

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn1336; Calibrated: 2018/8/6

Phantom: HAC Test Arch; ;

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 49.30 V/m; Power Drift = -0.03 dB

Applied MIF = 3.63 dB

RF audio interference level = 35.36 dBV/m

Emission category: M4

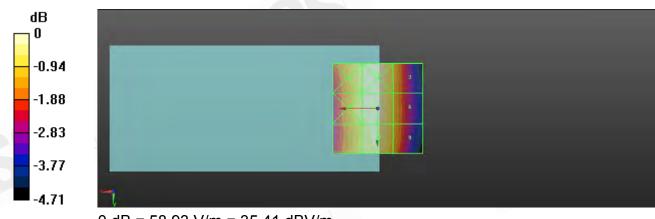
MIF scaled E-field

Grid 1 M4	Grid 2 M4	Grid 3 M4
35.04 dBV/m	35.41 dBV/m	34.45 dBV/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
35.09 dBV/m	35.36 dBV/m	34.38 dBV/m
Grid 7 M4	Grid 8 M4	Grid 9 M4
34.87 dBV/m	35.19 dBV/m	34.37 dBV/m

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0 dB = 58.93 V/m = 35.41 dBV/m

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HAC-E GSM 850 CH 190

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 836.6

MHz; Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

Probe: ER3DV6 - SN2480; ConvF(1, 1, 1), Calibrated: 2018/12/10

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn1336; Calibrated: 2018/8/6

Phantom: HAC Test Arch; ;

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 44.42 V/m; Power Drift = -0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 34.49 dBV/m

Emission category: M4

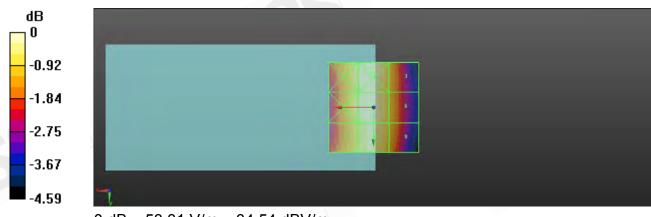
MIF scaled E-field

Grid 1 M4	Grid 2 M4	Grid 3 M4
34.17 dBV/m	34.54 dBV/m	33.65 dBV/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
34.21 dBV/m	34.49 dBV/m	33.65 dBV/m
Grid 7 M4	Grid 8 M4	Grid 9 M4
33.98 dBV/m	34.34 dBV/m	33.59 dBV/m

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0 dB = 53.31 V/m = 34.54 dBV/m

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HAC-E_GSM 850_CH 251

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 848.6

MHz: Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

Probe: ER3DV6 - SN2480; ConvF(1, 1, 1), Calibrated: 2018/12/10

Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn1336; Calibrated: 2018/8/6

Phantom: HAC Test Arch; ;

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 49.20 V/m; Power Drift = -0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 35.35 dBV/m

Emission category: M4

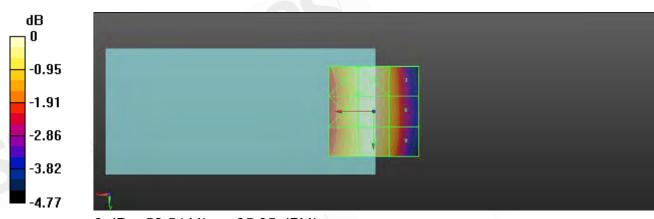
MIF scaled E-field

Grid 1 M4 34.98 dBV/m	Grid 3 M4 34.39 dBV/m
Grid 4 M4 35.03 dBV/m	Grid 6 M4 34.48 dBV/m
	Grid 9 M4 34.44 dBV/m

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0 dB = 58.54 V/m = 35.35 dBV/m

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Date: 2019/3/28

HAC-E_GSM 1900_CH 512

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1850.2

MHz: Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

Probe: ER3DV6 - SN2480; ConvF(1, 1, 1), Calibrated: 2018/12/10

Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn1336; Calibrated: 2018/8/6

Phantom: HAC Test Arch; ;

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 15.63 V/m; Power Drift = 0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 27.45 dBV/m

Emission category: M4

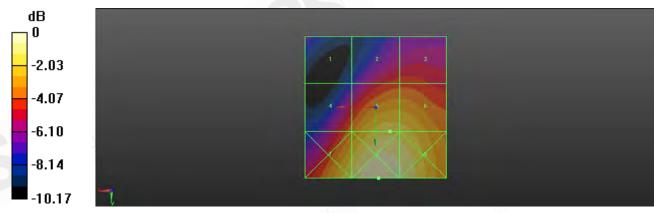
MIF scaled E-field

Grid 1 M4	Grid 2 M4	Grid 3 M4
22.1 dBV/m	24.66 dBV/m	24.71 dBV/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
25.5 dBV/m	27.45 dBV/m	27.34 dBV/m
Grid 7 M4	Grid 8 M4	Grid 9 M4
27.95 dBV/m	28.99 dBV/m	28.5 dBV/m

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0 dB = 28.15 V/m = 28.99 dBV/m

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Date: 2019/3/28

HAC-E_GSM 1900_CH 661

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz: Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

Probe: ER3DV6 - SN2480; ConvF(1, 1, 1), Calibrated: 2018/12/10

Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn1336; Calibrated: 2018/8/6

Phantom: HAC Test Arch; ;

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Device E-Field measurement/E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 20.77 V/m; Power Drift = 0.03 dB

Applied MIF = 3.63 dB

RF audio interference level = 29.84 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4	Grid 2 M4	Grid 3 M4
24.79 dBV/m	26.62 dBV/m	26.61 dBV/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
28.18 dBV/m	29.84 dBV/m	29.62 dBV/m
Grid 7 M3	Grid 8 M3	Grid 9 M3
30.24 dBV/m	31.26 dBV/m	30.76 dBV/m

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0 dB = 36.58 V/m = 31.26 dBV/m

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Date: 2019/3/28

HAC-E_GSM 1900_CH 810

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1909.8

MHz: Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

Probe: ER3DV6 - SN2480; ConvF(1, 1, 1), Calibrated: 2018/12/10

Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn1336; Calibrated: 2018/8/6

Phantom: HAC Test Arch; ;

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 16.14 V/m; Power Drift = 0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 27.56 dBV/m

Emission category: M4

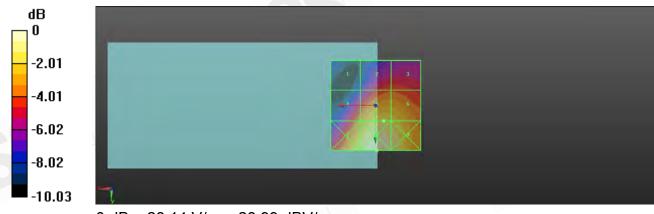
MIF scaled E-field

Grid 1 M4	Grid 2 M4	Grid 3 M4
22.08 dBV/m	24.83 dBV/m	24.83 dBV/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
25.77 dBV/m	27.56 dBV/m	27.39 dBV/m
Grid 7 M4	Grid 8 M4	Grid 9 M4
28.06 dBV/m	28.99 dBV/m	28.42 dBV/m

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0 dB = 28.14 V/m = 28.99 dBV/m

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Date: 2019/3/28

HAC-E_GSM 1900_CH 661_2nd battery spot check

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1880

MHz: Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

Probe: ER3DV6 - SN2480; ConvF(1, 1, 1), Calibrated: 2018/12/10

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn1336; Calibrated: 2018/8/6

Phantom: HAC Test Arch; ;

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Device E-Field measurement/E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 14.85 V/m; Power Drift = -0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 27.10 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4	Grid 2 M4	Grid 3 M4
22.55 dBV/m	24.33 dBV/m	24.35 dBV/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
25.36 dBV/m	27.1 dBV/m	26.95 dBV/m
Grid 7 M4	Grid 8 M4	Grid 9 M4
27.55 dBV/m	28.58 dBV/m	28.1 dBV/m

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0 dB = 26.86 V/m = 28.58 dBV/m

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Date: 2019/3/28

HAC-E_GSM 850_CH 128_2nd battery spot check

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 824.2

MHz: Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

Probe: ER3DV6 - SN2480; ConvF(1, 1, 1), Calibrated: 2018/12/10

Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn1336; Calibrated: 2018/8/6

Phantom: HAC Test Arch; ;

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Device E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 48.45 V/m; Power Drift = -0.03 dB

Applied MIF = 3.63 dB

RF audio interference level = 35.26 dBV/m

Emission category: M4

MIF scaled E-field

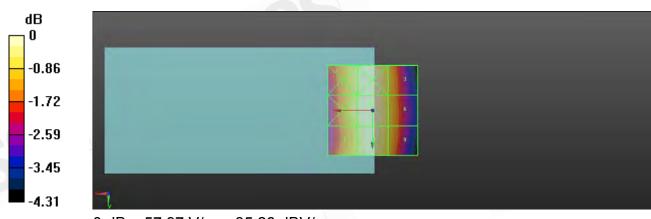
Grid 1 M4	Grid 2 M4	Grid 3 M4
34.87 dBV/m	35.26 dBV/m	34.48 dBV/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
34.95 dBV/m	35.26 dBV/m	34.52 dBV/m
Grid 7 M4	Grid 8 M4	Grid 9 M4
34.76 dBV/m	35.14 dBV/m	34.51 dBV/m

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0 dB = 57.97 V/m = 35.26 dBV/m

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16. System Verification

Date: 2019/3/28

Dipole CD835V3 SN:1149

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

Probe: ER3DV6 - SN2480; ConvF(1, 1, 1), Calibrated: 2018/12/10

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn1336; Calibrated: 2018/8/6

Phantom: HAC Test Arch;

DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Dipole E-Field measurement/E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 91.08 V/m: Power Drift = -0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 94.34 V/m

Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 M4 93.16 V/m	
Grid 4 M4 55.40 V/m	
Grid 7 M4 93.42 V/m	

Cursor:

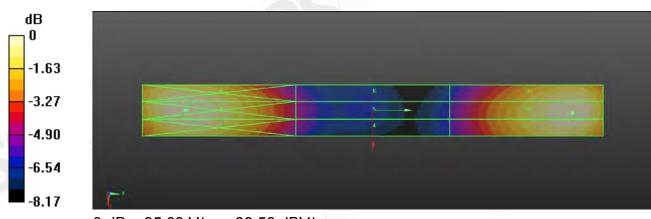
Total = 95.03 V/mE Category: M4

Location: 0, -73, 9.7 mm

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0 dB = 95.03 V/m = 39.56 dBV/m

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Date: 2019/3/28

Dipole CD1880V3_SN:1023

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: RF Section

DASY5 Configuration:

Probe: ER3DV6 - SN2480; ConvF(1, 1, 1), Calibrated: 2018/12/10

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn1336; Calibrated: 2018/8/6

Phantom: HAC Test Arch;;

• DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Dipole E-Field measurement /E Scan: Interpolated grid: dx=0.5000 mm, dy=0.5000

mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 122.1 V/m; Power Drift = 0.01 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 72.33 V/m

Near-field category: M3 (AWF 0 dB)

PMF scaled E-field

Grid 1 M3 72.36 V/m	
Grid 4 M4 60.41 V/m	
Grid 7 M3 71.24 V/m	

Cursor:

Total = 73.32 V/m E Category: M3

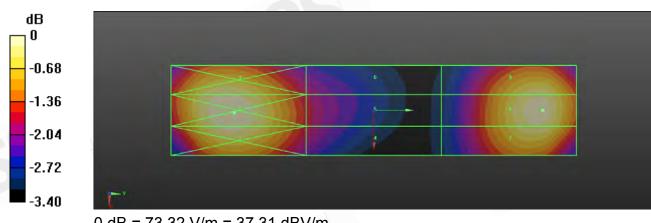
Location: 0.5, -31, 9.7 mm

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0 dB = 73.32 V/m = 37.31 dBV/m

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17. DAE & Probe Calibration Certificate

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





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

Accredited by the Swiss Accreditation Service (SAS)

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

SGS-TW (Auden)

Ascreditation No.: SCS 0108

Certificate No: DAE4-1336_Aug18

CALIBRATION CERTIFICATE

DAE4 - SD 000 D04 BM - SN: 1336

Calibration procedurers)

OA CAL-05.v29

Calibration procedure for the data acquisition electronics (DAE)

August 06, 2018

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

All calibrations have teen conducted in the cosed laboratory facility: proviously temperature (22 ± 3) °C and number < 70%,

Calibration Equipment used IM&TE critical for calibration)

	SN: 0910278	31-Aug-17 (No;21092)	Aug 18
Secondary Standards	ID 4	Check Date (in nouse)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	04-Jan-18 (in house-check)	in house check: Jan-19
Calibrator Box V2.1	SE UMS DOB AA 1802	04-Jan-18 (in house cheek)	in house check: san-19

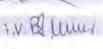
Cal Dale (Certificate No.)

Dominique Station

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Laboratory Technician

Deputy Manager



Issued: August 6, 2018

Certificate No: DAE4-1336_Aug18

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Service suisse d'étalonnage Servizio svizzero di taratura

Accreditation No.: SCS 0108

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Glossary

DAE data acquisition electronics

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

coordinate system.

Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle. The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - DC Voltage Measurement Linearity. Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement,
 - Common mode sensitivity. Influence of a positive or negative common mode voltage on the differential measurement.
 - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
 - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input yellage
 - Input Offset Measurement. Output voltage and statistical results over a large number of zero voltage measurements.
 - input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - Input resistance: Typical value for Information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
 - Power consumption: Typical value for information. Supply currents in various operating

Certificate No: DAE4-1338_Aug18

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DC Voltage Measurement:

A/D - Converte: Resolution nomine

High Flange: 4LSB full range = -100...+500 mV Low Range Low Range: 1LSB = 81nV tull range = -1.....(3/n/V DASY measurement parameters: Auto Zero Time; 3 sec: Measuring time; 3 sec

Calibration Factors	× -	A.	Z
High Range	403.344 ± 0,02% (k=2)	403.624 ± 0.02% (ke2)	40% 107 ± 0.02% (k=2)
Low Range	3,95102 ± 1.50% (k=2)	3,98703 ± 1,50% (k=2)	3.99683 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	287.0° ± 1°

Certificate No: DAE4-1336 Aug 15

Page II pl 5

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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	200042.98	8.66	0.00
Channel X + Input	20006,34	1.11	0.01
Channel X - Input	-20005,65	-0.58	0.00
Channel Y + Input	200034,32	0.12	0.00
Channel Y + Input	20003:47	+1:57	0.01
Channel Y - Input	-20008.39	-1.21	0,01
Channel Z + Input	200032.22	>2.05	-0.00
Channel Z + Input	20002.78	-2.14	-0.01
Channel Z - Input	-20007:34	2.09	0.01

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2001.47	0.30	0.01
Channel X + Input	201.92	0.79	0,39
Channel X - Input	-198,25	0.59	0.30
Channel Y + Input	2001.55	0.37	0.02
Chennel Y + Input	200.97	-0.11	-0.05
Channel V - Input	199.34	0.43	17.22
Channel 2 + Input	2001,12	0.04	0,00
Channel Z + Input	200.15	0.89	-0.44
Channel Z Input	-200.14	1.15	0.58

2. Common mode sensitivity

	Common mode Input Voltage (mV)	High Renge Average Reading (μV)	Low Range Average Reading (µV)
Channel X	200	6.04	4.72
	200	4.13	4.79
Channel Y	200	-3,65	-3,78
	200	2,68	2.45
Channel Z	200	22,48	22.16
	-200	-24.83	-25.10

3. Channel separation

DASY measurement parameters: Auto Zero Timo; 3 sed; Measuring lime: 3 sed

	Input Voltage (mV)	Channel X (µV)	Channel Y (p.V)	Channel Z (µV)
Channel X	200		6:12	-1,64
Channel Y	500	9.19		6.46
Channel Z	500	8.44	6.31	8

Certificate No: DAE4-1336_Aug18

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4. AD-Converter Values with inputs shorted

	High Range (LSB)	Low Range (LSB)
Channel X	15666	16509
Channel Y	15907	15587
Channel Z	15855	15507

Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec. Measuring lime: 3 sec

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)	
Channel X	0.87	-0.00	2.62	0.36	
Channel Y	3,53	2.87	4,59	0.34	
Channel Z	-0.18	-1.34	1.53	0.54	

5. Input Offset Current

Nominal Input circultry offset current on all channels <25tA

7. Input Resistance (Typical values for information)

	Zerding (kOhm)	Measuring (MOhm)		
Channel X	200	500		
Channel Y	200	200		
Channel Z	200	200		

Low Battery Alarm Voltage (Typical values (or information)

Typical values	Alarm Level (VDC)	
Supply (+ Vcc)	47.9	
Supply (- Vcc)	7.6	

9. Power Consumption (Typical values for Information)

Typical veloes	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	40.01	46	114
Supply (- Vcc)	-0.01	-8	-9

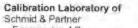
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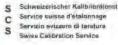


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Engineering AG Zeughausstrasse 43, 5904 Zunich, Switzerland





Accreditation No.: SCS 0108

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Multilateral Agreement for the recognition of calibration certificates

Certificate No. ER3-2480 Dec18

CALIBRATION CERTIFICATE

ER3DV6 - SN:2480

QA CAL-02.V8. QA CAL-25.V8

Calibration procedure for E-field probes optimized for close near field

evaluations in an

December 10, 2018

This cultivation certificate documents the Baceabrilly to national standards, which reside the physical links of meanutements (SI) The measurements and the uncertainties with confidence propositry are given on the following pages and are part of the certificials

All calibrations have been conducted in the obsaut facoratiny facility, environment to consture (22 ± 3) °C and harmony < 70%.

Calibration Equipment uses (MATE entreafor carbination)

Primary Standants	in	Call District (Carringto No.)	Scheduled Carloration
Fower meter NRP	SN: 104778	04-Apr-18 (No. 217/02672/02673)	App.16
Power sensor NRP 291 SN: 103244 84-Apr-18 (No. 217-026		84-Apr-18 (No. 217-02672)	Apr-15
Power sensor NRP-ZB1	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-16
Reference 20 dB Attenuator	BN: 85277 (20x)	04-Apr 18 (No. 217-02662)	Apr-15
Reference Proce ER3DV6	SN-2528	IR-Ccs-18 (No. ER3-2328_Oc18)	Oct-19
DAE4	SN 789	07-Aug-16 (No. DAE4-789, Aug 18)	Aug-19
Secondary Standards	JIX-	Check, Date (In house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	in house check: Jun 25
Power sensor Edd FZA	3N/ MY41499087	06-Apr-16 (in house check Jun-18)	in house check: Jun 20
Power sensor E4412A	SN: 000119210	06-Apr-16 (in flouse check Jun-18)	In house check: Jun 20
RF generator HF 86481.	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	in nouse check: Jun 20
Network Analyzar EB358A	SN: US410B0477	31-Mar-14 (in Feather Black Oct-18)	in house check: Oct-19

	Name	Flinction	Signature
Calibrated by	Jefon Kastrati	Laboratory Testinistic	- Ve
Аситично бу	Kaip Posovic	Technical faterage	elle.
			rement December 11 2018

Certificate No: ER3-2490_Dec18

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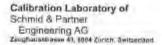
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Accreditation No. SCS 0108

The Swiss Accreditation Service is one of the signalprior to the EA Mullimeen Agrenment for the recognition of calibration certification

Glossary:

NORMKYZ sensitivity in free space DCP

diade compression point crest factor (1/duty_cycle) of the RF signal modulation dependent innearzation parameters A.B.C.D

Polarizalion y if ristation around probe axis

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

i.e., II = 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 1309-2005, "IEEE Standard for calibration of elactromagnetic field sensors and probes, excluding antiennias, from 8 kHz to 40 GHz", December 2005

DI CTIA Test Plan for Heating Aid Compatibility, Rev 3.1.1, May 2017

Methods Applied and Interpretation of Parameters:

NORMs, y.z. Assessed for E-field polarization G = 0 for XY sensors and 0 = 90 for Z sensor (F ≤ 900 MHz in TEM-call; f $\simeq 1800$ MHz. R22 waveguide)

NORM(f)x y z = NORMx y z * frequency_response (see Frequency Response Chart).

DCFx,v.z. DCF are numerical linearization paremeters assessed based on the data of power sweep with CW erginal (no uncertainty required). DCP does not depend on frequency nor media.

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

Ax, y.z., 9x, y.z., Cx, y.z., Dx, y.z., WR, y.z. A. B. C. D are managed 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

Spherical isotropy (3D deviation from isotropy), in a locally homogeneous field (ealized using an open wavequide setup.

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

Connector Angle. The angle is assessed using the information gained by determining the NORMX inc. uncartainty required).

Confidente No. ERS-2480, Dec 18

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ER3DV6 - SN:2480

December 10, 2018

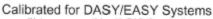


Probe ER3DV6

SN:2480

Manufactured: Calibrated:

March 31, 2009 December 10, 2018



(Note: non-compatible with DASY2 system!)

Certificate No: ER3-2380_Dec18

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December 10, 2018

DASY/EASY - Parameters of Probe: ER3DV6 - SN:2480

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ²)	1.98	1.43	1.78	± 10.1 %
DCP (mV) ⁸	100.2	101.8	101,5	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc [©] (k=2)
0	CW	X	10.0	0.0	1.0	0.00	224.4	±3.5 %
		Y	0.0	0.0	1.0		199.8	
		Z	10.0	0.0	1.0		197.8	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V-1	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V-2	T5 V-1	Т6
X	109.0	522.0	36.34	29.18	2.596	5.100	0.00	0.746	1.021
Y	82.59	393.3	35.93	24.73	1.001	5.100	0.00	0.591	1.015
Z	76.35	364.5	36.33	29.64	3.089	5.100	0.00	0.823	1.015

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%.

rization parameter; uncertainty not required. letermined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the

Certificate No: ER3-2480_Dec18

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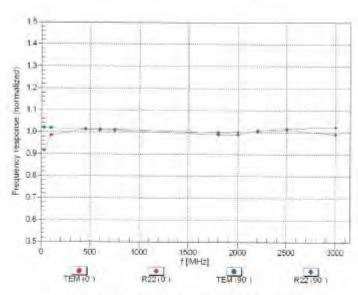
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December 10, 2018

Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



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

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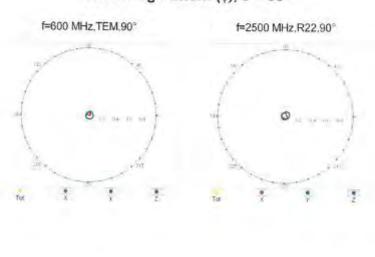


December 10, 2018

Receiving Pattern (6), 9 = 0°



Receiving Pattern (6), 9 = 90°



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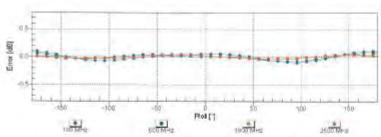
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Receiving Pattern (6), 9 = 0°

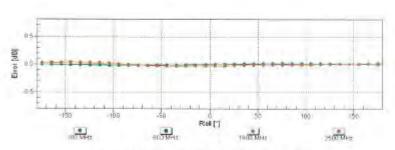




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Receiving Pattern (6), 9 = 90°





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



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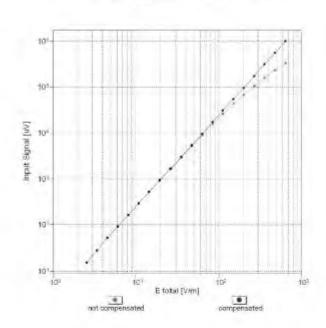


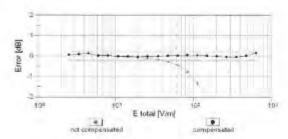
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Dynamic Range f(E-field) (TEM cell , f = 900 MHz)





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

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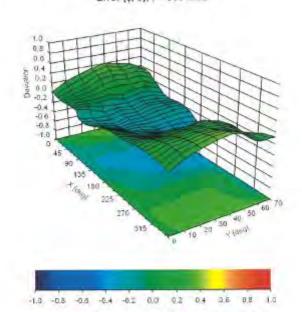
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Deviation from Isotropy in Air

Error (¢, 9), f = 900 MHz



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

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DASY/EASY - Parameters of Probe: ER3DV6 - SN:2480

Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle (*)	15.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	8 mm
Probe Tip to Sensor X Calibration Point	2.5 mm
Probe Tip to Sensor Y Calibration Point	2.5 mm
Probe Tip to Sensor Z Calibration Point	2.5 mm

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Appendix: Modu	ulation Calibr	ration P	arameters
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UID	Communication System Name		A dB	dB√μV	С	D dB	VR mV	Max Unc ^E (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	224.4	± 3.5 %
		Υ	0.00	0.00	1.00		199.8	
		Z	0.00	0.00	1.00		197.8	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	Х	8.63	79.95	19.00	10.00	30.0	± 9.6 %
		Y	6.70	77.12	15.99		30.0	
		Z	8.99	80.35	19.54		30.0	
10011- CAB	UMTS-FDD (WCDMA)	Х	1.36	70.64	16.32	0.00	150.0	± 9.6 %
		Y	1.23	69.34	15.34		150.0	
		Z	1.34	71.71	17.01		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.54	68.30	17.36	0.41	150.0	± 9.6 %
		Y	1.44	67.56	16.75		150.0	
		Z	1.54	68.77	17.71		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	5.86	70.01	19.22	1.46	150.0	± 9.6 %
		Υ	5.60	69.70	18.89		150.0	
		Z	5.73	70.20	19.18		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	Х	11.63	85.73	22.68	9.39	50.0	± 9.6 %
		Y	15.63	90.72	22.51		50.0	
		Z	11.90	86.22	23.37		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	Х	11.58	85.57	22.69	9.57	50.0	± 9.6 %
		Υ	14.99	90.02	22.32		50.0	
		Z	11.76	85.86	23.28		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	×	11.28	86.30	21.43	6.56	60.0	± 9.6 9
		Y	17.09	91.72	21.52		60.0	
		Z	12.07	87.73	22.41		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	Х	93.41	158.53	57.75	12.57	50.0	± 9.6 %
		Y	100.00	166.21	60.12		50.0	
		Z	29.69	119.35	45.13		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Х	37.14	120.85	41.81	9.56	60.0	±9.6 %
		Υ	100.00	150.48	50.32		60.0	
		Z	26.69	111.39	38.52		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	×	12.05	88.41	21.21	4.80	0.08	±9.6 9
		Y	21.78	94.95	21.58		80.0	
		Z	14.58	91.83	22.80		80.0	1000
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	Х	14.27	91.86	21.54	3.55	100.0	± 9.6 9
		Y	30.68	99.19	21.97		100.0	
		Z	23.90	99.90	24.40		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	Х	28.21	113.72	38.42	7.80	80.0	± 9.6 %
		Y	78.28	143.02	47.23		80.0	
		Z	20.57	105.31	35.44		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Х	10.81	86.16	20.73	5.30	70.0	±9.6 5
		Y	15.07	89.87	20.31		70.0	
		Z	11.88	87.96	21.76		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	11.86	91.81	20.12	1.88	100.0	± 9.6 9
		Y	7.92	85.14	16.54		100.0	
		Z	54.88	111.31	25.62		100.0	

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10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Х	10.94	93.17	19.71	1.17	100.0	± 9.6 %
		Y	3.30	78.73	13.78		100.0	
		Z	100.00	119.12	26.34		100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	13.61	93.20	25.94	5.30	70.0	±9.6 %
		Y	23.98	103.66	28.28		70.0	
		Z	11.23	88.67	24.00		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Х	5.82	84.07	21.54	1.88	100.0	± 9.6 %
		Y	5.35	83.13	20.29		100.0	
		Z	5.83	83.11	20.47		100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	3.98	80.08	19.86	1.17	100.0	± 9.6 %
		Υ	3.38	77.98	18.14		100.0	
		Z	4.20	80.20	19.11		100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	14.43	94.31	26.35	5.30	70.0	± 9.6 %
		Y	28.22	105.48	29.11		70.0	
		Z	11.88	89.74	24.41		70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Х	5.92	84.36	21.59	1.88	100.0	± 9.6 %
		Y	5.41	83.36	20.32		100.0	
		Z	5.84	83.18	20.46		100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	×	4.15	80.86	20.22	1.17	100.0	± 9.6 %
		Y	3.51	78.76	18.51		100.0	
		Z	4.40	81.08	19.51		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	X	2.03	71.19	16.04	0.00	150.0	± 9.6 %
		Y	1.78	70.21	14.65		150.0	
		Z	1.96	72.68	15.91		150.0	
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PU4- DQPSK, Halfrate)	X	10.28	83.81	20.58	7.78	50.0	± 9.6 %
01.10		Y	11,53	85.51	19.47		50.0	
		Z	10.85	84.73	21.35		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Х	0.10	86.30	4.07	0.00	150.0	± 9.6 %
		Y	0.02	75.50	0.86		150.0	
		Z	0.42	85.33	1.06		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	Х	14.09	87.71	25.45	13.80	20.0	± 9.6 %
		Y	29.01	100.24	27.05		20.0	
		Z	12.69	85.28	24.98		20.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	11.52	84.98	22.94	10.79	40.0	± 9.6 %
		Y	13.18	87.82	21.91		40.0	
		Z	11.66	85.02	23.41		40.0	
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	×	12.96	88.40	25.17	9.03	50.0	± 9.6 %
		Y	18.98	96.89	26.98		50.0	
		Z	12.13	86.32	24.24		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	Х	21.29	107.31	35.59	6.55	100.0	± 9.6 %
		Y	31.87	120.23	39.93		100.0	
		Z	16.32	100.61	33.14		100.0	
10059- CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps)	Х	1.84	71.30	18.69	0.61	110.0	± 9.6 %
		Y	1.68	70.33	18.03		110.0	
		Z	1.87	71.97	19.10		110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	14.61	101.46	25.90	1.30	110.0	±9.6%
		Y	27.67	110.54	27.71		110.0	
		Z	32.31	114.03	29.50		110.0	

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10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	10.58	96.27	26.74	2.04	110.0	± 9.6 %
		Y	15.14	103.99	28.88		110.0	
		Z	11.66	98.01	27.36		110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	Х	5.54	69.47	18.26	0.49	100.0	± 9.6 %
		Y	5.33	69.31	18.02		100.0	
		Z	5.37	69.61	18.25		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbos)	X	5.60	69.73	18.46	0.72	100.0	± 9.6 %
		Y	5.38	69.52	18.18		100.0	
		Z	5.44	69.86	18.43		100.0	
10064- CAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps)	Х	6.05	70.30	18.86	0.86	100.0	± 9.6 %
		Y	5.77	70.05	18.58		100.0	
		Z	5.82	70.37	18.81		100.0	
10065- CAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps)	X	5.92	70.32	19.02	1.21	100.0	± 9.6 %
		Y	5.65	70.07	18.75		100.0	
		Z	5.75	70.53	19.04		100.0	
10066- CAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps)	Х	6.01	70.62	19.36	1.46	100.0	±9.6%
		Y	5.70	70.28	19.04		100.0	
		Z	5.84	70.81	19.36		100.0	
10067- CAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps)	Х	6.46	71.29	20.21	2.04	100.0	± 9.6 %
		Y	6.06	70.67	19.70		100.0	
		Z	6.23	71.26	19.99		100.0	
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	Х	6.65	71.83	20.67	2.55	100.0	± 9.6 %
		Y	6.22	71.18	20.18		100.0	
		Z	6.46	71.90	20.53		100.0	
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	6.70	71.72	20.89	2.67	100.0	±9.6%
		Y	6.29	71.17	20.42		100.0	
		Z	6.55	71.94	20.78		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	Х	6.03	70.40	19.73	1.99	100.0	± 9.6 %
0.10		Y	5.75	70.01	19.35		100.0	
		Z	5.93	70.63	19.68		100.0	
10072- CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 12 Mbps)	Х	6.14	71.05	20.05	2.30	100.0	± 9.6 %
0. 45		Y	5.82	70.63	19.70		100.0	
		Z	6.06	71.41	20.10		100.0	
10073- CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	6.33	71.67	20.65	2.83	100.0	± 9.6 %
		Y	5.95	71.09	20.22		100.0	
		Z	6.28	72.04	20.67		100.0	
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	6.40	72.06	21.14	3.30	100.0	±9.6 %
		Y	5.96	71.25	20.56		100.0	
		Z	6.37	72.35	21.05		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	×	6.72	73.23	22.03	3.82	90.0	±9.6 %
		Y	6.16	72.07	21.29		90.0	
		Z	6.66	73.31	21.80		90.0	
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	Х	6.70	73.09	22.25	4.15	90.0	± 9.6 %
		Y	6.13	71.83	21.45		90.0	
		Z	6.72	73.34	22.08		90.0	
10077- CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 54 Mbps)	Х	6.74	73.22	22.38	4.30	90.0	± 9.6 %
	,	Y	6.16	71.94	21.57		90.0	
				73.51	22.23		90.0	

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10081- CAB	CDMA2000 (1xRTT, RC3)	X	1.24	69.19	14.61	0.00	150.0	± 9.6 %
		Y	1.03	67.34	12.70		150.0	
		ż	1.10	69.27	13.86		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Fullrate)	X	3.55	68.94	10.92	4.77	80.0	± 9.6 %
		Y	2.56	66.51	8.49		80.0	
		Z	3.74	69.36	11.38		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	11.24	86.25	21.45	6.56	60.0	± 9.6 %
		Y	16.99	91.67	21.53		60.0	
		Z	12.02	87.67	22.43		60.0	
10097- CAB	UMTS-FDD (HSDPA)	X	2.07	68.85	16.28	0.00	150.0	± 9.6 %
		Y	1.98	68.48	15.72		150.0	
		Z	2.04	69.54	16.53		150.0	
10098- CAB	UMTS-FDD (HSUPA, Subtest 2)	X	2.04	68.88	16.27	0.00	150.0	± 9.6 %
		Y	1.95	68.49	15.70		150.0	
		Z	2.00	69.57	16.54		150.0	
10099- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	36.62	120.44	41.68	9.56	60.0	±9.6 %
		Y	100.00	150.45	50.31		60.0	
		Z	26.42	111.10	38.43		60.0	
10100- CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.54	71.40	16.85	0.00	150.0	± 9.6 %
		Y	3.36	70.98	16.60		150.0	
		Z	3.43	71.76	17.26		150.0	
10101- CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	3.87	69.98	17.03	0.00	150.0	±9.6 %
		Y	3.69	69.59	16.75		150.0	
		Z	3.69	69.92	17.13		150.0	
10102- CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	3.96	69.82	17.10	0.00	150.0	±9.6%
		Y	3.79	69.49	16.83		150.0	
		Z	3.79	69.80	17.19		150.0	
10103- CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	Х	8.30	77.07	20.70	3.98	65.0	± 9.6 %
		Y	8.44	79.20	21.62		65.0	
		Z	8.42	77.75	21.11		65.0	
10104- CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	11.08	82.39	24.19	3.98	65.0	± 9.6 %
		Y	11.02	84.00	24.81		65.0	
		Z	10.73	81.90	23.90		65.0	
10105- CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	8.40	76.37	21.76	3.98	65.0	± 9.6 %
		Y	7.66	76.27	21.76		65.0	
		Z	8.05	75.67	21.39		65.0	
10108- CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	Х	3.28	71.26	16.99	0.00	150.0	± 9.6 %
		Y	3.08	70.88	16.73		150.0	
		Z	3.14	71.77	17.45		150.0	
10109- CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.55	69.91	17.04	0.00	150.0	± 9.6 %
		Y	3.35	69.52	16.69		150.0	
		Z	3.35	69.95	17.12		150.0	
10110- CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.84	71.03	17.04	0.00	150.0	± 9.6 %
		Y	2.61	70.55	16.62		150.0	
		Z	2.66	71.60	17,41		150.0	
10111- CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	3.12	69.73	16.97	0.00	150.0	±9.6%
		Y	2.92	69.43	16.51		150.0	

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10112- CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.66	69.71	17.04	0.00	150.0	± 9.6 %
		Y	3.46	69.40	16.72		150.0	
		Z	3.46	69.81	17.12		150.0	
10113- CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	3.29	69.76	17.08	0.00	150.0	± 9.6 %
41.10	0.00	Y	3.08	69,51	16.63		150.0	
		Z	3.09	70.18	17.16		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.47	67.85	16.76	0.00	150.0	± 9.6 %
0/10	maps, or org	Y	5.31	67.69	16.59		150.0	
		ż	5.33	67.94	16.86		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	6.03	68.70	17.22	0.00	150.0	± 9.6 %
		Y	5.73	68.24	16.90		150.0	
		Z	5.68	68.24	17.03		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.63	68.15	16.83	0.00	150.0	±9.6 %
0.710	0.000	Y	5.47	68.07	16.71		150.0	
		ż	5.47	68.28	16.96		150.0	
10117-	IEEE 802.11n (HT Mixed, 13.5 Mbps.	X	5.49	67.92	16.82	0.00	150.0	± 9.6 %
CAC	BPSK)	Ŷ	5.31	67.70	16.62		150.0	20.0 %
		ż	5.29	67.81	16.81		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16- QAM)	X	5.99	68.48	17.11	0.00	150.0	±9.6 %
CO 1G	Serving .	Υ	5.77	68.26	16.92		150.0	
		ż	5.81	68.60	17.22		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64- QAM)	X	5.63	68.22	16.89	0.00	150.0	± 9.6 %
00	- W 119	Y	5.46	68.09	16.74		150.0	
		ż	5.47	68.31	16.99		150.0	
10140- CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	4.02	69.78	17.01	0.00	150.0	± 9.6 %
0.0		Y	3.84	69.48	16.75		150.0	
		Z	3.83	69.80	17,11		150.0	
10141- CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	4.13	69.75	17.13	0.00	150.0	± 9.6 %
		Y	3.95	69.49	16.89		150.0	
		Z	3.94	69.80	17.24		150.0	
10142- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	2.59	70.84	16.85	0.00	150.0	± 9.6 %
		Y	2.35	70.29	16.21		150.0	
		Z	2.41	71.54	17.06		150.0	
10143- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	2.94	69.87	16.67	0.00	150.0	± 9.6 %
		Y	2.71	69.52	15.96		150.0	
		Z	2.74	70.43	16.56		150.0	
10144- CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	2.91	69.07	15.96	0.00	150.0	±9.6 %
		Y	2.67	68.61	15.14		150.0	
		Z	2.67	69.21	15.53		150.0	
10145- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.91	69.28	15.05	0.00	150.0	± 9.6 %
		Y	1.58	67.49	13.01		150.0	
		Z	1.59	68.31	13.39		150.0	
10146- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	×	3.79	74.52	17.93	0.00	150.0	± 9.6 %
		Y	2.87	70.95	14.82		150.0	
		Z	3.26	72.60	15.46		150.0	
10147- CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	4.03	75.49	18.50	0.00	150.0	± 9.6 %
CAF		Y	3.04	71.80	15.36		150.0	
			3.53	73.80	16.15		150.0	

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10149- CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	×	3.56	69.94	17.07	0.00	150.0	± 9.6 %
		Y	3.35	69.55	16.72		150.0	
		Z	3.35	69.99	17.15		150.0	
10150- CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.66	69.73	17.06	0.00	150.0	± 9.6 %
		Y	3.47	69.42	16.74		150.0	
		Z	3.47	69.84	17.15		150.0	
10151- CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	Х	9.93	81.64	22.71	3.96	65.0	±9.6 %
		Y	10.43	84.49	23.77		65.0	
		Z	10.01	82.23	22.98		65.0	
10152- CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	Х	10.43	82.03	23.80	3.98	65.0	±9.6 %
		Y	10.41	83.79	24.39		65.0	
		Z	10.08	81.46	23.38		65.0	
10153- CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	10.65	82.40	24.29	3.98	65.0	± 9.6 %
		Y	10.66	84.24	24.92		65.0	
		Z	10.33	81.93	23.89		65.0	
10154- CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	Х	2.86	71.23	17.19	0.00	150.0	± 9.6 %
		Y	2.63	70.73	16.76		150.0	
		Z	2.69	71.83	17.58		150.0	
10155- CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	×	3.12	69.72	16.97	0.00	150.0	± 9.6 %
		Y	2.92	69.43	16.52		150.0	
		Z	2.94	70.14	17.08		150.0	
10156- CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	2.46	71.13	16.86	0.00	150.0	± 9.6 %
		Υ	2.19	70.33	15.99		150.0	
		Ż	2.26	71.74	16.89		150.0	
10157- CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	24.89	104.83	28.36	0.00	150.0	± 9.6 %
		Y	9.38	88.72	22.53		150.0	
		Z	14.41	95.39	24.55		150.0	
10158- CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	3.29	69.77	17.09	0.00	150.0	± 9.6 %
		Y	3.08	69.52	16.65		150.0	
		Z	3.09	70.20	17.18		150.0	
10159- CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.76	69.39	16.02	0.00	150.0	± 9.6 %
		Y	2.52	68.96	15.11		150.0	
		Z	2.56	69.83	15.62		150.0	
10160- CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	1332.26	164.87	41.83	0.00	150.0	± 9.6 %
		Y	739.45	156.14	40.09		150.0	
		Z	888.72	158.74	40.54		150.0	
10161- CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.52	69.46	16.95	0.00	150.0	± 9.6 %
		Y	3.33	69.21	16.61		150.0	
		Z	3.33	69.67	17.03		150.0	
10162- CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	Х	3.61	69.40	16.97	0.00	150.0	± 9.6 %
		Y	3.43	69.24	16.67		150.0	
		Z	3.43	69.70	17.09		150.0	
10166- CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	4.93	74.27	21.98	3.01	150.0	± 9.6 %
		Y	4.44	73.42	21.23		150.0	
		Z	4.75	74.82	21.95		150.0	
10167- CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	6.52	77.81	22.61	3.01	150.0	± 9.6 %
		Y	5.74	76.87	21.82		150.0	
		Ż	6.40	78.65	22.57		150.0	
	1							

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10168- CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6.76	78.59	23.14	3.01	150.0	± 9.6 %
		Y	6.01	77.93	22.50		150.0	
		Z	6.79	80.06	23.42		150.0	
0169- CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	5.48	79.72	24.24	3.01	150.0	± 9.6 %
		Y	4.28	76.12	22.50		150.0	
		Z	4.82	77.75	23.20		150.0	
10170- CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	7.91	85.28	25.72	3.01	150.0	± 9.6 %
		Y	6.01	81.78	24.23		150.0	
		Z	7.01	83.57	24.91		150.0	
10171- AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	7.05	82.42	23.89	3.01	150.0	± 9.6 %
		Y	5.32	78.87	22.26		150.0	
		Z	6.10	80.19	22.77		150.0	
10172- CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	38.29	115.29	35.95	6.02	65.0	± 9.6 %
		Y	100.00	138.93	42.21		65.0	
		Z	36.22	114.04	35.25		65.0	
10173- CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	Х	22.54	99.62	29.56	6.02	65.0	± 9.6 %
		Υ	47.85	116.92	34.40		65.0	
		Z	23.62	100.80	29.72		65.0	
10174- CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	Х	21.42	97.66	28.58	6.02	65.0	± 9.6 %
		Y	38.12	111.05	32.26		65.0	
		Z	21.97	98.40	28.54		65.0	
10175- CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	Х	7.68	87.17	27.29	3.01	150.0	± 9.6 %
		Y	5.51	81.56	24.83		150.0	
		Z	6.53	84.19	25.82		150.0	
10176- CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	7.88	85.19	25.69	3.01	150.0	± 9.6 %
		Y	6.00	81.73	24.21		150.0	
		Z	7.00	83.51	24.89		150.0	
10177- GAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	Х	5.45	79.50	24.08	3.01	150.0	±9.6%
		Y	4.27	75.95	22.35		150.0	
		Z	4.80	77.54	23.04		150.0	
10178- CAG	LTE-FDD (SC-FDMA, 1 R8, 5 MHz, 16- QAM)	X	7.79	84.95	25.58	3.01	150.0	± 9.6 %
		Y	5.94	81.51	24.11		150.0	
		Z	6.92	83.29	24.79		150.0	
10179- CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	7.37	83.50	24.58	3.01	150.0	± 9.6 %
		Y	5.62	80.13	23.07		150.0	
		Z	6.50	81.68	23.67		150.0	
10180- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	6.50 7.03	81.68 82.34	23.84	3.01	150.0	± 9.6 %
		X	6.50 7.03 5.32	81.68 82.34 78.83	23.84	3.01	150.0	± 9.6 %
	QAM)	Z X Y	6.50 7.03 5.32 6.09	81.68 82.34 78.83 80.13	23.84 22.23 22.73		150.0 150.0 150.0	
		X Y Z X	6.50 7.03 5.32 6.09 5.45	81.68 82.34 78.83 80.13 79.51	23.84 22.23 22.73 24.09	3.01	150.0 150.0 150.0	
10181-	QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	X Y Z X	6.50 7.03 5.32 6.09 5.45	81.68 82.34 78.83 80.13 79.51 75.97	23.84 22.23 22.73 24.09 22.36		150.0 150.0 150.0 150.0	
10181-	QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	X Y Z X	6.50 7.03 5.32 6.09 5.45	81.68 82.34 78.83 80.13 79.51	23.84 22.23 22.73 24.09		150.0 150.0 150.0	±9.6 %
10181-	QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	X Y Z X	6.50 7.03 5.32 6.09 5.45	81.68 82.34 78.83 80.13 79.51 75.97	23.84 22.23 22.73 24.09 22.36		150.0 150.0 150.0 150.0 150.0 150.0	±9.6 %
10181- CAE	QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	X Y Z X	6.50 7.03 5.32 6.09 5.45 4.27 4.80	81.68 82.34 78.83 80.13 79.51 75.97 77.56	23.84 22.23 22.73 24.09 22.36 23.05	3.01	150.0 150.0 150.0 150.0 150.0 150.0 150.0	±9.6% ±9.6%
10181- CAE	QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 15 MHz,	X Y Z X Y Z	6.50 7.03 5.32 6.09 5.45 4.27 4.80 7.77	81.68 82.34 78.83 80.13 79.51 75.97 77.56 84.93	23.84 22.23 22.73 24.09 22.36 23.05 25.57	3.01	150.0 150.0 150.0 150.0 150.0 150.0	± 9.6 %
10181- CAE 10182- CAE	QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 15 FDD (SC-FDMA, 1 RB, 15 MHz, 15 MHz, 15 FDD (SC-FDMA, 1 RB, 15 MHz, 15 MH	X Y Z X Y Z X	6.50 7.03 5.32 6.09 5.45 4.27 4.80 7.77	81.68 82.34 78.83 80.13 79.51 75.97 77.56 84.93	23.84 22.23 22.73 24.09 22.36 23.05 25.57 24.10	3.01	150.0 150.0 150.0 150.0 150.0 150.0 150.0	±9.6 %
10181- CAE 10182- CAE	QAM) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X Y Z X Y Z X	6.50 7.03 5.32 6.09 5.45 4.27 4.80 7.77 5.93 6.91	81.68 82.34 78.83 80.13 79.51 75.97 77.56 84.93 81.48 83.26	23.84 22.23 22.73 24.09 22.36 23.05 25.57 24.10 24.77	3.01	150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0	± 9.6 %

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10184- CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	Х	5.46	79.52	24.09	3.01	150.0	± 9.6 %
		Y	4.28	75.97	22.36		150.0	
		ż	4.81	77.56	23.05		150.0	
10185- CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	7.81	84.99	25.60	3.01	150.0	±9.6%
		Y	5.96	81.55	24.13		150.0	
		Z	6.94	83.33	24.81		150.0	
10186- AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	Х	7.05	82.38	23.86	3.01	150.0	± 9.6 %
		Y	5.34	78.88	22.25		150.0	
		Z	6.11	80.17	22.75		150.0	
10187- CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	6.04	81.80	25.12	3.01	150.0	± 9.6 %
		Y	4.63	77.72	23.20		150.0	
		Z	5.27	79.60	23.98		150.0	
10188- CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	7.98	85.46	25.84	3.01	150.0	± 9.6 %
		Y	6.09	82.02	24.39		150.0	
		Z	7.11	83.85	25.08		150.0	
10189- AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	х	7.16	82.70	24.05	3.01	150.0	± 9.6 %
		Υ	5.41	79.18	22.44		150.0	
		Z	6.21	80.51	22.96		150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	Х	5.27	69.00	17.64	0.00	150.0	± 9.6 %
		Y	5.09	68.90	17.40		150.0	
		Z	5.05	69.00	17.55		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	Х	5.52	69.44	17.75	0.00	150.0	± 9.6 %
2110	10 00 017	Y	5.32	69.32	17.55		150.0	
		Z	5.27	69.43	17.72		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	5.55	69.38	17.72	0.00	150.0	± 9.6 %
		Y	5.35	69.32	17.55		150.0	
		Z	5.31	69.43	17.72		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	Х	5.31	69.17	17.70	0.00	150.0	± 9.6 %
	,	Y	5.12	69.05	17.46		150.0	
		Z	5.08	69.15	17.61		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16- QAM)	Х	5.53	69.42	17.74	0.00	150.0	± 9.6 %
		Y	5.33	69.34	17.56		150.0	
		Z	5.29	69.44	17.73		150.0	
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64- QAM)	Х	5.56	69.41	17.74	0.00	150.0	± 9.6 %
		Y	5.36	69.34	17.57		150.0	
		Z	5.32	69.46	17.74		150.0	
10219- CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	5.26	69.19	17.66	0.00	150.0	±9.65
		Y	5.07	69.06	17.41		150.0	
		Z	5.03	69.17	17.57		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16- QAM)	×	5.54	69.47	17.77	0.00	150.0	± 9.6 %
		Y	5.34	69.37	17.59		150.0	
		Z	5.30	69.47	17.75		150.0	
10221- GAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64- QAM)	X	5.57	69.40	17.77	0.00	150.0	± 9.6 9
		Y	5.37	69.30	17.58		150.0	
		Z	5.33	69.40	17.74		150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	Х	5.48	67.96	16.83	0.00	150.0	± 9.6 %
CAL	or ory	Y	5.29	67.71	16,61		150.0	

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10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16- QAM)	X	5.89	68.34	17.06	0.00	150.0	± 9.6 %
		Y	5.73	68.34	16.98		150.0	
		Z	5.65	68.25	17.06		150.0	
0224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64- QAM)	Х	5.54	68.06	16.79	0.00	150.0	± 9.6 %
21.00	and only	Y	5.32	67.75	16.55		150.0	
		Z	5.32	67.92	16.78		150.0	
10225- CAB	UMTS-FDD (HSPA+)	Х	3.36	68.28	16.76	0.00	150.0	± 9.6 %
21 10		Y	3.19	68.09	16.30		150.0	
		Z	3.17	68.44	16.60		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	22.79	99.88	29.71	6.02	65.0	± 9.6 %
		Y	49.39	117.66	34.68		65.0	
		Z	24.02	101.20	29.90		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	Х	19.82	96.19	28.13	6.02	65.0	±9.6%
		Y	33.96	108.95	31.70		65.0	
		Z	20.96	97.58	28.33		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	×	32.10	112.05	35.09	6.02	65.0	± 9.6 %
		Y	100.00	139.36	42.37		65.0	
		Z	36.68	114.90	35.60		65.0	
10229- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	Х	22.39	99.46	29.52	6.02	65.0	±9.6%
0110		Y	47.06	116.59	34.32		65.0	
		Z	23.49	100.68	29.69		65.0	
10230- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM)	Х	19.53	95.88	27.98	6.02	65.0	± 9.6 %
0.710	- Constant	Y	32.88	108.28	31.45		65.0	
		Z	20.62	97.24	28.18		65.0	
10231- CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	31.38	111.50	34.87	6.02	65.0	± 9.6 %
0110		Y	100.00	139.26	42.29		65.0	
		Z	35.49	114.13	35.33		65.0	
10232- CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	22.41	99.49	29.52	6.02	65.0	± 9.6 %
0		Y	47.15	116.64	34.33		65.0	
		Z	23.51	100.71	29.69		65.0	
10233- CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	19.56	95.92	28.00	6.02	65.0	±9.6 %
2010		Y	33.01	108.36	31.48		65.0	
		Z	20.64	97.27	28.19		65.0	
10234- CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	30.64	110.87	34.60	6.02	65.0	± 9.6 %
		Y	100.00	139.03	42.14		65.0	
		Z	34.35	113.29	35.00		65.0	
10235- CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	22.54	99.62	29.57	6.02	65.0	±9.6 %
		Y	47.83	116.92	34.41		65.0	
		Z	23.62	100.81	29.73		65.0	
10236- CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	19.68	96.00	28.02	6.02	65.0	± 9.6 %
		Y	33.37	108.52	31.51		65.0	
		Z	20.75	97.34	28.20		65.0	
10237- CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	31.93	111.88	34.98	6.02	65.0	± 9.6 %
		Y	100.00	139.23	42.27		65.0	
		Z	36.13	114.52	35.44		65.0	
10238- CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	22.44	99.52	29.53	6.02	65.0	± 9.6 %
- Corn	1	Y	47.39	116.74	34.36		65.0	
		Z	23.53	100.74	29.70	_	65.0	

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CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	19.60	95.98	28.02	6.02	65.0	± 9.6 %
		Υ	33.21	108.49	31.52		65.0	
		Z	20.69	97.32	28.20		65.0	
10240- CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	31.66	111.72	34.93	6.02	65.0	± 9.6 %
		Υ	100.00	139.27	42.29		65.0	
		Ż	35.83	114.36	35.39		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	18.12	96.14	32.07	6.98	65.0	±9.6%
		Y	17.99	98.31	32.51		65.0	
		Z	17.45	94.73	30.71		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	13.73	89.03	29.15	6.98	65.0	±9.6 %
		Υ	14.16	92.42	30.21		65.0	
		Z	13.21	88.07	28.03		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	12.01	88.63	30.07	6.98	65.0	±9.6 %
		Υ	11.96	91.26	30.98		65.0	
		Z	12.55	89.47	29.64		65.0	
10244- CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	12.01	85.46	24.05	3.98	65.0	± 9.6 %
		Y	10.91	84.65	22.64		65.0	
		Z	10.71	82.50	21.81		65.0	
10245- CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	11.94	85.12	23.89	3.98	65.0	± 9.6 %
	· ·	Y	10.81	84.25	22.46		65.0	
		Z	10.70	82.27	21.68		65.0	
10246- CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	10.01	84.28	22.85	3.98	65.0	± 9.6 %
0110		Y	10.44	86.31	22.80		65.0	
		ż	9.22	82.59	21.54		65.0	
10247- CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-OAM)	X	9.85	82.42	22.94	3.98	65.0	± 9.6 %
40.0	10 00 119	Y	9.44	83.02	22.48		65.0	
		Z	9.06	80.60	21.49		65.0	
10248- CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	9.97	82.21	22.89	3.98	65.0	± 9.6 %
		Y	9.55	82.80	22.43		65.0	
		Z	9.21	80.50	21,46		65.0	
10249- CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	10.28	84.66	23.42	3.98	65.0	± 9.6 %
		Y	11.56	88.46	24.30		65.0	
		Z	9.98	84.21	22.85		65.0	
					24.40	3.98	65.0	± 9.6 %
10250- CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	10.45	83.57	24.40			
		X	10.45	83.57 85.78	25.00		65.0	
		-	-0110				65.0 65.0	
		Y	10.65	85.78	25.00	3.98		± 9.6 %
10251-	16-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz,	Y	10.65	85.78 82.84	25.00 23.76	3.98	65.0	± 9.6 %
10251-	16-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz,	Y Z X	10.65 10.05 10.24	85.78 82.84 82.22	25.00 23.76 23.74	3.98	65.0 65.0	± 9.6 %
10251-	16-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz,	Y Z X	10.65 10.05 10.24 10.19 9.85 10.23	85.78 82.84 82.22 83.86 81.51 83.81	25.00 23.76 23.74 24.06 23.02 23.58	3.98	65.0 65.0 65.0 65.0 65.0	
10251- CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 10 LTE-TDD (SC-FDMA, 50% RB, 10 LTE-TDD (SC-FDMA, 50% RB, 10 LTE-TDD (SC-FDMA, 50%	Y Z X Y Z X	10.65 10.05 10.24 10.19 9.85	85.78 82.84 82.22 83.86 81.51	25.00 23.76 23.74 24.06 23.02		65.0 65.0 65.0	
10251- CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 10 LTE-TDD (SC-FDMA, 50% RB, 10 LTE-TDD (SC-FDMA, 50% RB, 10 LTE-TDD (SC-FDMA, 50%	Y Z X	10.65 10.05 10.24 10.19 9.85 10.23	85.78 82.84 82.22 83.86 81.51 83.81	25.00 23.76 23.74 24.06 23.02 23.58		65.0 65.0 65.0 65.0 65.0	
CAF 10251- CAF 10252-	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 10 LTE-TDD (SC-FDMA, 50% RB, 10 LTE-TDD (SC-FDMA, 50% RB, 10 LTE-TDD (SC-FDMA, 50%	Y Z X Y Z X	10.65 10.05 10.24 10.19 9.85 10.23 11.51 10.33 10.26	85.78 82.84 82.22 83.86 81.51 83.81	25.00 23.76 23.74 24.06 23.02 23.58 25.00 23.70 23.83		65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	± 9.6 %
10251- CAF 10252- CAF 10252- CAF	16-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Y Z X Y Z X	10.65 10.05 10.24 10.19 9.85 10.23 11.51 10.33	85.78 82.84 82.22 83.86 81.51 83.81 88.07 84.41	25.00 23.76 23.74 24.06 23.02 23.58 25.00 23.70	3.98	65.0 65.0 65.0 65.0 65.0 65.0	± 9.6 %
10251- CAF 10252- CAF	16-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Y Z X Y Z X X	10.65 10.05 10.24 10.19 9.85 10.23 11.51 10.33 10.26	85.78 82.84 82.22 83.86 81.51 83.81 88.07 84.41 81.76	25.00 23.76 23.74 24.06 23.02 23.58 25.00 23.70 23.83	3.98	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	±9.6% ±9.6%
CAF 10251- CAF 10252- CAF 10253- CAF	16-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 18-QAM) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 18-QAM)	Y Z X Y Z X Y Z X	10.65 10.05 10.24 10.19 9.85 10.23 11.51 10.33 10.26	85.78 82.84 82.22 83.96 51.51 83.81 88.07 84.41 81.76	25.00 23.76 23.74 24.06 23.02 23.58 25.00 23.70 23.83	3.98	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	±9.6%
10251- CAF 10252- CAF 10253- CAF	16-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Y Z X Y Z X Y Z X	10.65 10.05 10.24 10.19 9.85 10.23 11.51 10.33 10.26	85.78 82.84 82.22 83.86 81.51 83.81 88.07 84.41 81.76 83.19 81.01	25.00 23.76 23.74 24.06 23.02 23.58 25.00 23.70 23.83 24.23 23.23	3.98	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	±9.6%

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10255- CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	10.00	82.17	23.24	3.98	65.0	± 9.6 %
		Y	10.48	85.02	24.27		65.0	
		Z	9.98	82.47	23.31		65.0	
0256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	Х	11.55	84.54	23.07	3.98	65.0	± 9.6 %
		Y	9.78	82.29	20.87		65.0	
		Z	9.81	80.56	20.26		65.0	
0257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	11.65	84.34	22.95	3.98	65.0	± 9.6 %
		Y	9.77	81.91	20.66		65.0	
		Z	9.84	80.31	20.09		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	Х	9.87	83.92	22.30	3.98	65.0	± 9.6 %
		Y	9.21	83.70	21.18		65.0	
		Z	8.40	80.57	20.14		65.0	
10259- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	Х	10.06	82.71	23.41	3.98	65.0	± 9.6 %
		Y	9.93	84.02	23.38		65.0	
		Z	9.49	81.47	22.32		65.0	
10260- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	10.17	82.67	23.44	3.98	65.0	±9.6%
		Y	9.96	83.82	23.34		65.0	
		Z	9.55	81.34	22.29		65.0	
10261- CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	10.24	84.39	23.59	3.98	65.0	± 9.6 %
		Y	11.44	88.27	24.64		65.0	
		Z	10.04	84.20	23.20		65.0	
10262- CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	10.46	83.57	24.38	3.98	65.0	± 9.6 %
		Y	10.66	85.77	24.98		65.0	
		Z	10.05	82.83	23.73		65.0	
10263- CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	10.26	82.27	23.76	3.98	65.0	± 9.6 %
2011	0.000	Y	10.21	83.91	24.08		65.0	
		Z	9.86	81.53	23.03		65.0	
10264- CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz. QPSK)	Х	10.22	83.78	23.56	3.98	65.0	±9.6%
00.11	- C - C - C - C - C - C - C - C - C - C	Y	11.49	88.01	24.96		65.0	
		Z	10.32	84.36	23.67		65.0	
10265- CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	10.43	82.03	23.81	3.98	65.0	± 9.6 %
01.5		Y	10.41	83.79	24.39		65.0	
		Z	10.06	81.47	23.38		65.0	
10266- CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	10.66	82.40	24.29	3.98	65.0	± 9.6 %
		Y	10.67	84.24	24.92		65.0	
		Z	10.33	81.93	23.89		65.0	
10267- CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	×	9.93	81.63	22.71	3.98	65.0	± 9.6 %
		Y	10.42	84.47	23.76		65.0	
		Z	10.00	82.21	22.97		65.0	
10268- CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	×	10.71	81.23	23.88	3.98	65.0	±9.6 %
		Y	10.58	82.69	24.45		65.0	
		Z	10.44	80.89	23.62		65.0	
10269- CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAW)	Х	10.66	81.05	23.94	3.98	65.0	± 9.6 %
		Y	10.47	82.34	24.43		65.0	
		Z	10.39	80.61	23.60		65.0	
10270- CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	9.96	80.32	22.46	3.98	65.0	± 9.6 %
50.0		V	9.99	82.13	23.17		65.0	
							65.0	

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10274-	UMTS-FDD (HSUPA, Subtest 5, 3GPP	X	2.95	67.90	16.20	0.00	150.0	± 9.6 %
CAB	Rei8.10)							
		Υ	2.85	67.86	15.83		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	2.87 1.97	68.35 69.97	16.23 16.34	0.00	150.0 150.0	± 9.6 %
UPID	Note-4)	Y	1.83	69.30	15.70		150.0	
		ż	1.91	70.67	16.73		150.0	
10277- CAA	PHS (QPSK)	X	7.97	75.75	17.09	9.03	50.0	± 9.6 %
		Y	5.81	71.64	13.18		50.0	
		Z	7.91	74.86	16.46		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	Х	11.76	85.36	23.27	9.03	50.0	± 9.6 %
		Υ	10.97	84.81	21.41		50.0	
		Z	10.13	81.28	21.20		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	Х	12.03	85.65	23.39	9.03	50.0	± 9.6 %
		Υ	11.30	85.22	21.60		50.0	
40000	CDMADOOR DOLL BORE DAILD	Z	10.31	81.53 69.97	21.31	0.00	50.0 150.0	±9.6 %
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	1.86	69.97	15.29	0.00	150.0	I 9.6 %
		Z	1.63	70.88	14.83		150.0	_
10291-	CDMA2000, RC3, SO55, Full Rate	X	1.74	70.88 68.90	14.83	0.00	150.0	± 9.6 %
AAB	COMAZODO, NC3, SCOS, FUII Rate	Ŷ	1.01	67.16	12.60	0.00	150.0	1 9 /0 /6
		Z	1.07	69.02	13.73		150.0	_
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	1.28	70.46	15.53	0.00	150.0	± 9.6 %
		Y	1.06	68.51	13.58		150.0	
		Ż	1.21	71.63	15.35		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	Х	1.41	71.96	16.64	0.00	150.0	± 9.6 %
		Y	1.19	70.03	14.75		150.0	
		Z	1.47	74.63	17.18		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	100.00	131.68	39.67	9.03	50.0	± 9.6 %
		Υ	1222.05	173.65	46.68		50.0	
		Z	100.00	126.71	36.81	0.00	50.0	- 0 0 0
10297- AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	3.29	71.30	17.02	0.00	150.0	±9.6%
		Z	3.08	70.92	16.77		150.0	
10296- AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	2.17	70.28	15.98	0.00	150.0	± 9.6 %
		Y	1.88	69.15	14.61		150.0	
		Z	1.93	70.49	15.36		150.0	
10299- AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	4.08	74.88	18.56	0.00	150.0	± 9.6 %
		Y	3.31	72.44	16.28		150.0	
		Z	3.83	74.60	17.20		150.0	
10300- AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	3.82	72.98	17.13	0.00	150.0	± 9.6 %
		Y	3.03	70.32	14.65		150.0	
10301-	IFFF 800 48- WIMAY (20.48 F	Z	3.32	71.52	15.11	4.47	150.0	+0.63
10301- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	6.00 5.58	68.65	19.39	4.17	80.0	± 9.6 %
		Z	5.58	68.27	19.00		80.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	6.92	71.05	21.19	4.96	80.0	± 9.6 %
70-01	IUMPIZ, GPSK, PUSU, 3 CTKL SYMBOIS)	Y	6.27	69.80	20.29		80.0	
		Z	6.97	72.03	21.21		80.0	
		- Bar	0.07	15700	6.1-6.1		00.0	

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10303- AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	6.76	71.13	21.26	4.96	80.0	± 9.6 %
	,	Y	6.06	69.70	20.27		80.0	
		Z	6.85	72.24	21.31		80.0	
10304- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	6.35	70.24	20.28	4.17	80.0	± 9.6 %
		Y	5.76	69.08	19.43		80.0	
		ż	6.39	71.20	20.32		80.0	
10305- AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	8.32	80.67	26.77	6.02	50.0	± 9.6 %
		Y	6.16	74.53	23.38		50.0	
		Z	7.63	77.27	23.68		50.0	
10306- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	Х	7.68	76.79	25.21	6.02	50.0	± 9.6 %
		Y	6.21	72.54	22.62		50.0	
		Z	7.32	75.01	23.11		50.0	
10307- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	Х	7.74	77.37	25.22	6.02	50.0	±9.6%
		Y	6.17	72.91	22.61		50.0	
		Ż	7.35	75.40	23.06		50.0	
10308- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	7.79	77.79	25.42	6.02	50.0	±9.6%
		Y	6.14	73.09	22.71		50.0	
		Ż	7.35	75.64	23.16		50.0	
10309- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	7.77	76.92	25.26	6.02	50.0	± 9.6 %
		Y	6.32	72.90	22.81		50.0	
		Z	7.45	75.37	23.30		50.0	
10310- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Х	7.65	76.90	25.14	6.02	50.0	± 9.6 %
		Y	6.15	72.56	22.53		50.0	
		Ż	7.29	75.06	23.02		50.0	
10311- AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.59	70.27	16.54	0.00	150.0	± 9.6 %
	and the strip	Y	3.40	69.87	16.30		150.0	
		Z	3.45	70.61	16.93		150.0	
10313- AAA	IDEN 1:3	X	8.99	81.34	19.72	6.99	70.0	± 9.6 %
		Y	9.44	83.19	19.65		70.0	
		Z	9.00	81.11	19.79		70.0	
10314- AAA	IDEN 1:8	X	12.12	88.36	24.57	10.00	30.0	±9.6%
1001		Y	20.11	99.11	27.41		30.0	
		ż	11.41	86.73	24.08		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.34	67.32	16.81	0.17	150.0	± 9.6 %
	,	Y	1.27	66.66	16.20		150.0	
		Ż	1.34	67.85	17.25		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	5.41	69.36	17.93	0.17	150.0	± 9.6 %
		Y	5.21	69.23	17.71		150.0	
		Z	5.23	69.47	17.92		150.0	
10317- AAC	IEEE 802.11a WIFI 5 GHz (OFDM, 6 Mbps, 98pc duly cycle)	X	5.41	69.36	17.93	0.17	150.0	± 9.6 %
		Y	5.21	69.23	17.71		150.0	
		Z	5.23	69.47	17.92		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	5.12	67.60	16.61	0.00	150.0	± 9.6 %
		Y	4.90	67.46	16.42		150.0	
		Z	4,87	67.63	16.64		150.0	
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.75	67.82	16.80	0.00	150.0	±9.6 %
7010	cope and eyest	Y	5.64	67.90	16.76		150.0	
		Z	5.67	68.21	17.04		150.0	
		- 6	0.01	00.6	11.04		100.0	

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10402-	IEEE 802.11ac WiFi (80MHz, 64-QAM,	X	6.07	68.35	16.87	0.00	150.0	± 9.6 %
AAD	99pc duty cycle)	Y	5.87	68.09	16.66		150.0	
					16.89		150.0	
0.000	ODILLIANO IA DI DO D. O.	Z	5,87	68.26	15.29	0.00	115.0	±9.6%
0403- VAB	CDMA2000 (1xEV-DO, Rev. 0)	Х	1100	69.97	10120	0.00		£ 8.0 %
		Y	1.63	69.02	13.86		115.0	
		Z	1.74	70.88	14.83		115.0	
10404- NAB	CDMA2000 (1xEV-DO, Rev. A)	Х	1.86	69.97	15.29	0.00	115.0	±9.6 %
		Υ	1.63	69.02	13.86		115.0	
		Z	1.74	70.88	14.83		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	Х	8.65	89.41	24.11	0.00	100.0	± 9.6 %
		Y	6.51	85.54	21.84		100.0	
		Z	9.62	90.16	23.59		100.0	
10410- AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	Х	26.51	103.00	27.53	3.23	80.0	± 9.6 %
		Y	89.12	121.57	31.25		80.0	
		Z	45.84	111.39	29.35		80.0	
10415- AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	Х	1.13	65.12	15.61	0.00	150.0	± 9.6 %
	pa, aspensay ayan	Y	1.10	64.81	15.13		150.0	
		Ż	1.11	65.43	15.97		150.0	
10416- AAA	IEEE 802.11g WIFI 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	Х	5.26	68.98	17.64	0.00	150.0	± 9.6 9
		Y	5.09	68.95	17.46		150.0	
		Z	5.06	69.07	17.63		150.0	
10417-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6	X	5.26	68.98	17.64	0.00	150.0	± 9.6 %
AAB	Mbps, 99pc duty cycle)	Y	5.09	68.95	17.46		150.0	
		ż	5.06	69.07	17.63		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	5.22	69.00	17.55	0.00	150.0	±9.6%
	production	Y	5.06	69.00	17.40		150.0	
		Z	5.03	69.14	17.58		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	5.26	69.02	17.60	0.00	150.0	±9.6 %
	produtoroj	V	5.10	69.00	17,44		150.0	
		Z	5.06	69.13	17.62		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	5.42	69.11	17.68	0.00	150.0	± 9.6 %
	0.014	Y	5.24	69.08	17.51		150.0	
		Z	5.21	69.19	17.67		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	5.71	69.65	17.89	0.00	150.0	± 9.6 9
162		Y	5.48	69.56	17.70		150.0	
		Z	5.44	69.66	17.86		150.0	
10424- AAB	IEEE 802.11n (HT Greenfeld, 72.2 Mbps, 64-QAM)	×	5.59	69.54	17.82	0.00	150.0	± 9.6 %
		Y	5.38	69.44	17.63		150.0	
		Z	5.33	69.55	17.79		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.84	68.43	17.09	0.00	150.0	±9.65
		Y	5.64	68.22	16.89		150.0	
		Ż	5.64	68.42	17.13		150.0	
10426-	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.85	68.43	17.08	0.00	150.0	±9.69
AAB	10 MAIN		2.22	68.28	16.92		150.0	
		Y	5.66	68.235	16.562		130.0	

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10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.84	68.32	17.01	0.00	150.0	± 9.6 %
		Y	5.63	68.12	16.83		150.0	
		Z X	5.64	68.34	17.08		150.0	
10430- AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.72	70.82	18.45	0.00	150.0	±9.6%
		Y	4.45	70.87	18.09		150.0	
		Z	4.46	71.51	18.53		150.0	
10431- AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	Х	5.07	69.65	17.73	0.00	150.0	± 9.6 %
		Y	4.82	69.53	17.43		150.0	
		Z	4.78	69.71	17.62		150.0	
10432- AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	Х	5.37	69.60	17.79	0.00	150.0	± 9.6 %
		Y	5.14	69.47	17.55		150.0	
		Z	5.09	69.60	17.73		150.0	
10433- AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	Х	5.62	69.64	17.87	0.00	150.0	± 9.6 %
		Υ	5.40	69.49	17.66		150.0	
		Z	5.35	69.59	17.82		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	Х	4.73	71.02	18.22	0.00	150.0	±9.6%
		Υ	4.44	71.11	17.79		150.0	
		Z	4.46	71.86	18.25		150.0	
10435- AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	25.87	102.51	27.36	3.23	80.0	± 9.6 %
		Υ	84.95	120.71	31.01		80.0	_
		Z	43.52	110.48	29.08		80.0	
10447- AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	4.34	69.51	17.18	0.00	150.0	± 9.6 %
		Y	4.08	69.33	16.64		150.0	
		Z	4.02	69.64	16.85		150.0	
10448- AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	Х	4.82	69.27	17.50	0.00	150.0	± 9.6 %
		Y	4.61	69.20	17.22		150.0	
		Z	4.57	69.40	17.43		150.0	
10449- AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	Х	5.07	69.22	17.56	0.00	150.0	± 9.6 %
		Y	4.88	69.15	17.35		150.0	
		Z	4.85	69.30	17.55		150.0	
10450- AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	5.24	69.16	17.59	0.00	150.0	± 9.6 %
		Y	5.07	69.07	17.40		150.0	
		Z	5.04	69.19	17.58		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	Х	4.27	69.65	16.87	0.00	150.0	±9.6%
		Y	3.97	69.47	16.24		150.0	
		Z	3.94	69.83	16.45		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	11.65	82.40	24.30	0.00	150.0	±9.69
		Υ	16.99	91.05	27.75		150.0	
		Z	20.13	94.59	29.01		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	×	4.28	67.64	17.43	0.00	150.0	± 9.6 %
		Υ	4.19	67.50	17.16		150.0	
		Z	4.17	67.57	17.32		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	Х	4.14	69.34	17.39	0.00	150.0	±9.6 %
		Y	3.99	69.96	17.06		150.0	
		Z	4.02	70.77	17.51		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	×	5.13	66.36	17.40	0.00	150.0	± 9.6 %
		Y	4.94	66.97	17.37		150.0	
		Z	4.99	67.72	17.83		150.0	

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10460- AAA	UMTS-FDD (WCDMA, AMR)	Х	1.13	70.75	16.71	0.00	150.0	± 9.6 %
		Y	1.02	69.38	15.62		150.0	
		Z	1.15	72.52	17.80		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2.3.4,7,8,9)	Х	100.00	125.02	33.54	3.29	80.0	± 9.6 %
	and the desirence and the following	Y	100.00	125.08	32.59		80.0	
		Z	100.00	124.38	32.85		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	18.99	92.52	22.81	3.23	80.0	± 9.6 %
		Y	13.33	88.03	20.20		80.0	
		Z	19.07	92.39	22.30		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	13.83	87.13	20.77	3.23	80.0	± 9.6 %
		Y	8.50	81.35	17.60		0.08	
		Z	12.97	86.22	19.98		80.0	
10464- AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	123.67	32.76	3.23	80.0	± 9.6 %
		Y	100.00	123.21	31.56		80.0	
		Z	100.00	122.88	32.00		80.0	
10465- AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	17.45	91.24	22.36	3.23	80.0	±9.6 %
		Y	11.69	86.28	19.59		80.0	
		Z	16.81	90.58	21.70		80.0	
10466- AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	12.88	86.07	20.38	3.23	80.0	± 9.6 %
		Y	7.75	80.14	17.14		80.0	
		Z	11.73	84.81	19.48		80.0	
10467- AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	123.77	32.81	3.23	80.0	±9.6 %
		Y	100.00	123.35	31.62		80.0	
		Z	100.00	123.00	32.06		80.0	
10468- AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2.3.4.7.8.9)	X	17.82	91.58	22.48	3.23	80.0	±9.6 %
		Y	12.10	86.76	19.76		80.0	
		Z	17.38	91.09	21.87		80.0	
10469- AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	12.98	86.17	20.41	3.23	80.0	±9.6%
		Υ	7.78	80.20	17.16		80.0	
		Z	11.84	84.94	19.52		80.0	
10470- AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2.3.4.7.8.9)	Х	100.00	123.78	32.80	3.23	80.0	± 9.6 %
		Y	100.00	123.36	31.62		80.0	
		Z	100.00	123.00	32.06		80.0	
10471- AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	17.91	91.63	22.49	3.23	80.0	±9.6 %
		Y	12.12	86.76	19.75		80.0	
		Z	17,44	91.11	21.87		0.08	
10472- AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	13.01	86.20	20.41	3.23	0.08	± 9.6 %
		Y	7.77	80.17	17.14		80.0	
		Z	11.85	84.93	19.51		80.0	
10473- AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	123.76	32.80	3.23	80.0	± 9.6 %
		Y	100.00	123.33	31,61		80.0	
		Z	100.00	122.99	32.05		80.0	
10474- AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	17.80	91.57	22.47	3.23	80.0	± 9.6 %
		Y	12.03	86.69	19.73		80.0	
		Z	17.33	91.05	21.85		80.0	
10475-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-	Х	12.96	86.16	20.40	3.23	80.0	± 9.6 %
10475- AAE	QAM, UL Subframe=2,3,4,7,8,9)							
	QAM, UL Subframe=2,3,4,7,8,9)	Y	7.74	80.14	17.13		80.0	

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10477- AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2.3,4,7,8,9)	Х	17.66	91.40	22.39	3.23	80.0	± 9.6 %
	a mil on communic mich in this	Y	11,80	86.38	19.61		80.0	
		Z	17.02	90.74	21.73		80.0	
10478- AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	12.95	86.13	20.39	3.23	80.0	± 9.6 %
-		Y	7.71	80.08	17.10		80.0	
		Z	11.76	84.83	19.47		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	9.86	88.16	25.22	3.23	80.0	± 9.6 %
		Y	9.29	88.40	24.40		80.0	
		Z	13.16	92.75	25.78		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	9.65	83.44	22.28	3.23	80.0	± 9.6 %
		Υ	8.35	82.18	20.74		80.0	
		Z	10.48	84.35	21.56		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	9.41	82.52	21.71	3.23	80.0	± 9.6 %
		Y	7.77	80.55	19.86		80.0	
		Z	9.64	82.52	20.63		80.0	
10482- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.98	78.69	20.03	2.23	80.0	± 9.6 %
		Y	5.22	77.89	18.99		80.0	
		Z	6.05	79.12	19.51		80.0	
10483- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	X	7.71	80.19	21.28	2.23	80.0	± 9.6 %
		Y	6.40	78.08	19.36		80.0	
		Z	7.63	79.68	19.93		80.0	
10484- AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	7.74	80.02	21.23	2.23	80.0	± 9.6 %
70.02	ar and an analysis and an arrange	Y	6.38	77.78	19.26		80.08	
		Z	7.49	79.18	19.75		80.0	
10485- AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.53	80.04	21.00	2.23	80.0	±9.6%
	ar ore or outside also in forey	Y	6.02	80.30	20.68		0.08	
		Z	6.90	81.50	21.19		80.0	
10486- AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.66	75.24	19.19	2.23	80.0	±9.6 %
7.010	To de titl of operation and the fall of	Y	4.97	74.48	18.27		80.0	
		Z	5.54	75.31	18.59		80.0	
10487- AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.74	75.13	19.18	2.23	80.0	± 9.6 %
7012	or and or other principles	Y	5.01	74.27	18.20		80.0	
		Z	5.55	75.03	18.48		80.0	
10488- AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.63	78.86	20.90	2.23	80.0	±9.6 %
		Y	6.26	79.62	21.09		80.0	
		Z	6.97	80.53	21.54		80.0	
10489- AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	6.05	75.51	20.09	2.23	80.0	± 9.6 %
		Y	5.47	75.23	19.74		80.0	
		Z	5.99	75.91	20.02		80.0	
10490- AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.13	75.22	20.04	2.23	80.0	±9.6%
		Y	5.56	74.98	19.69		80.0	
		Z	6.06	75.62	19.95		80.0	
10491- AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	6.45	76.71	20.24	2.23	80.0	± 9.6 %
		Y	6.03	77.13	20.38		80.0	
		Z	6.60	77.85	20.76		80.0	
10492- AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.33	74.63	20.02	2.23	80.0	± 9.6 %
AAE	to seem on one contract to the	Y	5.78	74.40	19.79		80.0	

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10493- AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	6.42	74.53	20.03	2.23	80.0	± 9.6 %
		Y	5.87	74.29	19.78		80.0	
		Z	6.30	74.77	19.99		80.0	
10494- AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.75	77.42	20.23	2.23	80.0	± 9.6 %
		Y	6.37	77.98	20.46		0.08	
		Z	6.95	78.69	20.88		80.0	
10495- AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	6.46	75.21	20.17	2.23	80.0	± 9.6 %
		Y	5.90	74.95	19.98		80.0	
		Z	6.34	75.42	20.21		80.0	
10496- AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.52	74.88	20.13	2.23	80.0	± 9.6 %
		Υ	5.97	74.64	19.94		80.0	
10100		Z	6.39	75.09	20.15	0.00	80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.21	76.88	18.88	2.23	80.0	± 9.6 %
		Υ	4.00	73.99	16.71		80.0	
10107	1 80 800 000 00011	Z	4.62	74.96	17.12	0.00	80.0	1000
10496- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.65	72.58	16.60	2.23	80.0	± 9.6 %
		Y	3.47	69.39	13.99		80.0	
		Z	3.84	69.84	14.15		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.70	72.38	16.42	2.23	80.0	±9.6 %
		Y	3.47	69.08	13.73		80.0	
		Z	3.82	69.47	13.86		80.0	
10500- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.47	79.26	20.90	2.23	80.0	± 9.6 %
		Υ	6.00	79.71	20.77		80.0	
		Z	6.80	80.79	21.25		80.0	
10501- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.81	75.24	19.50	2.23	80.0	±9.6 %
		Y	5.18	74.73	18.82		80.0	
		Z	5.73	75.51	19.12		80.0	
10502- AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.82	74.90	19.36	2.23	80.0	± 9.6 %
		Y	5.21	74.42	18.66		80.08	
40500		Z	5.74	75.19	18.96	0.00	80.0	
10503- AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.59	78.78	20.86	2.23	80.0	± 9.6 %
		Z	6.21	79.49 80.40	21.03		80.0	
10504- AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.05	75.49	20.07	2.23	80.0	± 9.6 %
		Y	5.47	75.20	19.71		80.0	
		Z	5.98	75.86	19.99		80.0	
10505- AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	6.12	75.18	20.01	2.23	80.0	± 9.6 %
		Υ	5.54	74.93	19.66		0.08	
		Z	6.04	75.56	19.91		80.0	
10506- AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.73	77.36	20.20	2.23	80:0	± 9.6 %
		Y	6.34	77.90	20.42		80.0	
		Z	6.92	78.60	20.83		80.0	
10507- AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.45	75.17	20.15	2.23	80.0	±9.6%
	and the latest	Y	5.89	74.91	19.95		80.0	
		Ż	6.33	75.38	20.19		80.0	

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10508- AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.51	74.85	20.11	2.23	80.0	±9.6%
		Y	5.96	74.60	19.91		80.0	
		Z	6.38	75.05	20.12		80.0	
10509- AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.68	75.42	19.53	2.23	80.0	± 9.6 %
		Y	6.26	75.62	19.64		80.0	
		Z	6.74	76.18	20.00		80.0	
10510- AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	6.84	74.43	19.95	2.23	80.0	± 9.6 %
		Y	6.31	74.17	19.82		80.0	
		Z	6.69	74.52	20.00		80.0	
10511- AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	6.86	74.15	19.93	2.23	80.0	±9.6%
		Y	6.33	73.88	19.78		0.08	
		Z	6.71	74.22	19.95		80.0	
10512- AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	6.81	76.32	19.65	2.23	80.0	± 9.6 %
		Υ	6.41	76.61	19.79		0.08	
		Z	6.92	77.20	20.19		80.0	
10513- AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	6.82	74.99	20.10	2.23	80.0	±9.6%
		Y	6.25	74.66	19.96		80.0	
		Z	6.65	74.98	20.14		80.0	
10514- AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	6.76	74.54	20.05	2.23	80.0	±9.6%
		Y	6.21	74.19	19.88		80.08	
		Z	6.61	74.53	20.06		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	×	1.09	65.39	15.67	0.00	150.0	± 9.6 %
		Υ	1.06	65.03	15.16		150.0	
		Z	1.07	65.74	16.07	0.00	150.0	± 9.6 %
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cyde)	X	0.89	74.74	17.70	0.00	150.0	± 9.0 %
		Y	0.74				150.0	
10517-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11	Z	1.20	81.41 68.17	20.97	0.00	150.0	±9.6%
AAA	Mbps, 99pc duty cycle)	Ŷ	0.94	67.28	15.56	0.00	150.0	20.0 /4
		Z	0.99	68.97	17.11		150.0	
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	5.27	69.12	17.64	0.00	150.0	±9.6%
162	p., -spe and of end	Y	5.09	69.04	17.44		150.0	
		Z	5.06	69.15	17.61		150.0	
10519- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	×	5.57	69.56	17.86	0.00	150.0	±9.6 %
		Y	5.36	69.47	17.66		150.0	
		Z	5.31	69.56	17.82	0.07	150.0	1000
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	5.38	69.42	17.69	0.00	150.0	± 9.6 %
		Y	5.19	69.38	17.53		150.0	
40555	WEST 000 44-0 MINE & D. L. 108011 C.	Z	5.15	69.50 69.37	17.71	0.00	150.0	± 9.6 %
10521- AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	×		69.37	17.64	0.00	150.0	2 9.0 %
		Z	5.10	69.46	17.46	_	150.0	
		X	5.06	69.46	17.69	0.00	150.0	±9.6 %
10522- AAB	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36	^	0.04	00.0	11100		100.0	
10522- AAB	Mbps, 99pc duly cycle)	Y	5.14	69.29	17.51		150.0	

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10523-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48	X	5.20	69.24	17.53	0.00	150.0	± 9.6 %
AAB	Mbps, 99pc duty cycle)							
		Y	5.00	69.13	17.33		150.0	
		Z	4.97	69.27	17.52		150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	5.28	69.27	17.66	0.00	150.0	±9.6 %
		Y	5.10	69.27	17.51		150.0	
		Z	5.06	69.42	17.70		150.0	
10525- AAB	IEEE 802.11ac WIFI (20MHz, MCS0, 99pc duty cycle)	Х	5.22	68.26	17.22	0.00	150.0	±9.6 %
		Y	5.05	68.20	17.04		150.0	
		Z	5.02	68.32	17.21		150.0	
10526- AAB	IEEE 802.11ac WIFI (20MHz, MCS1, 99pc duty cycle)	Х	5.48	68.73	17.38	0.00	150.0	± 9.6 %
		Y	5.28	68.66	17.21		150.0	
		Z	5.24	68.79	17.39		150.0	
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	Х	5.40	68.73	17.34	0.00	150.0	± 9.6 %
		Y	5.19	68.61	17.14		150.0	
		Z	5.15	68.73	17.32		150.0	
10528- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	5.42	68.75	17.37	0.00	150.0	±9.6 %
	and all and	Y	5.21	68.65	17.19		150.0	
		Z	5.17	68.77	17.36		150.0	
10529- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	5.42	68.75	17.37	0.00	150.0	± 9.6 %
		Y	5.21	68.65	17.19		150.0	
		Z	5.17	68.77	17.36		150.0	
10531- AAB	IEEE 802.11ac WIFI (20MHz, MCS6, 99pc duty cycle)	X	5.44	68.87	17.36	0.00	150.0	± 9.6 %
7440	cops only cyacy	Y	5.23	68.83	17.22		150.0	
		Z	5.20	68.97	17.41		150.0	
10532- AAB	IEEE 802.11ac WIFi (20MHz, MCS7, 99pc duty cycle)	X	5.31	68.93	17.41	0.00	150.0	± 9.6 %
7 4 10	cope only of co	Y	5.08	68.70	17.16		150.0	
		Z	5.03	68.80	17.34		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	Х	5.44	68.76	17.35	0.00	150.0	± 9.6 %
	sopo and ofore)	Y	5.22	68.67	17.16		150.0	
		Z	5.18	68.80	17.34		150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	6.64	71.44	18.85	0.00	150.0	± 9.6 %
7010	cope and of sea	Y	6.42	71.18	18.61		150.0	
		ż	6.43	71.37	18.80		150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	6.61	71.09	18.62	0.00	150.0	±9.6 %
		Y	6.61	71.66	18.84		150.0	
		Z	6.72	72.16	19.17		150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	6.50	71.26	18.69	0.00	150.0	± 9.6 %
		Y	6.31	71.11	18.50		150.0	
		Z	6.30	71.24	18.67		150.0	
10537- AAB	IEEE 802.11ac WIFI (40MHz, MCS3, 99pc duty cycle)	Х	6.60	71.34	18.75	0.00	150.0	± 9.6 %
		Y	6.49	71.46	18.71		150.0	
		Z	6.58	71.92	19.04		150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	Х	6.62	70.97	18.58	0.00	150.0	± 9.6 %
PAPO		Y	6.32	70.53	18.26		150.0	
AAO					40.40		4 8 9 9	
		Z	6.29	70.64	18.42		150.0	
10540- AAB	IEEE 802.11ac WIFI (40MHz, MCS6, 99pc duty cycle)	X	6.83	70.64	19.21	0.00	150.0	± 9.6 %
10540-						0.00		± 9.6 %

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10541- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	6.59	71.28	18.77	0.00	150.0	± 9.6 %
	1	Y	6.16	70.31	18.16		150.0	
		Ż	6.18	70.55	18.39		150.0	
0542- AB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	6.78	71.40	18.89	0.00	150.0	± 9.6 %
		Y	6.66	71.49	18.82		150.0	
		Ż	6.75	71.93	19.14		150.0	
10543- NAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	7.88	74.52	20.56	0.00	150.0	±9.6 %
		Y	6.50	70.62	18.38		150.0	
		Z	6.71	71.51	18.94		150.0	
10544- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	×	6.36	69.53	17.73	0.00	150.0	±9.6%
		Y	6.29	69.67	17.74		150.0	
		Z	6.37	70.05	18.05		150.0	
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	×	7.71	73.40	19.73	0.00	150.0	± 9.6 %
		Y	7.90	74.24	20.05		150.0	
		Z	8.29	75.37	20.66		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	Х	6.67	70.44	18.15	0.00	150.0	±9.6 %
		Y	6.53	70.36	18.05		150.0	
		Z	6.62	70.79	18.38		150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	7.45	72.67	19.36	0.00	150.0	± 9.6 %
		Y	6.95	71.53	18.67		150.0	
		Z	7.08	72.06	19.04		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	65.69	118.79	36.36	0.00	150.0	±9.6%
		Y	48.81	111.94	34.00		150.0	
		Z	39.45	107.18	32.43		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	7.26	72.26	19.17	0.00	150.0	± 9.6 %
		Y	7.63	73.72	19.83		150.0	
		Z	8.18	75.31	20.68		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	7.78	73.75	19.88	0.00	150.0	± 9.6 %
		Y	6.88	71.46	18.61		150.0	
		Z	6.84	71.46	18.71		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	6.59	70.20	18.02	0.00	150.0	± 9.6 %
	oup out of ou	Y	6.86	71.57	18.71		150.0	
		Z	6.46	70.36	18.16		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	6.47	69.49	17.66	0.00	150.0	±9.6 %
		Y	6.40	69.72	17.73		150.0	
		Z	6.40	89.88	17.92		150.0	
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	Х	7.38	71.81	18.88	0.00	150.0	±9.6 %
		Y	7.30	71.84	18.82		150.0	
		Z	7.43	72.30	19.15		150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	8.61	75.00	20.47	0.00	150.0	± 9.6 %
		Y	8.40	74.70	20.24		150.0	
		Z	8.42	74.79	20.34		150.0	
10556- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	8.04	73.44	19.68	0.00	150.0	± 9.6 %
		Y	8.19	74.10	19.93		150.0	
		Z	8.76	75.62	20.74		150.0	
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	7.83	72.85	19.39	0.00	150.0	± 9.6 %
	-44-4	Y	7.45	72.05	18.89		150.0	
		Z	7.40	71.97	18.94		150.0	
		_						_

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10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	7.29	71.10	18.41	0.00	150.0	± 9.6 %
	supe say opera	Y	8.86	75.85	20.83		150.0	
		ż	8.22	74.27	20.11		150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	7.45	71.56	18.76	0.00	150.0	± 9.6 %
		Y	7.60	72.40	19.15		150.0	
		Z	7.89	73.30	19.69		150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	Х	7.51	72.04	19.06	0.00	150.0	± 9.6 %
		Y	7.26	71.61	18.75		150.0	
		Z	7.27	71.72	18.90		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	12.43	83.09	24.31	0.00	150.0	± 9.6 %
		Y	9.00	76.21	21.04		150.0	
		Z	8.39	74.75	20.40		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	Х	10.40	78.67	22.28	0.00	150.0	± 9.6 %
		Y	8.36	73.86	19.76		150.0	
		Z	8.24	73.56	19.65		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	Х	5.67	69.44	17.98	0.46	150.0	± 9.6 %
		Y	5.48	69.33	17.76		150.0	
		Z	5.45	69.43	17.90		150.0	1000
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	Х	6.00	69.98	18.31	0.46	150.0	±9.6 %
		Y	5.77	69.86	18.11		150.0	
		Z	5.73	69.95	18.25		150.0	
10566- AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Х	5.80	69.78	18.09	0.46	150.0	± 9.6 %
		Y	5.59	69.71	17.91		150.0	
		Z	5.56	69.82	18.07		150.0	
10567- AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	Х	5.77	69.93	18.25	0.46	150.0	± 9.6 %
		Υ	5.58	69.88	18.11		150.0	
		Z	5.55	70.03	18.30		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	Х	5.73	69.65	17.95	0.46	150.0	± 9.6 %
		Y	5.51	69.54	17.74		150.0	
		Z	5.49	69.66	17.89		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	Х	5.70	69.92	18.24	0.46	150.0	± 9.6 %
		Υ	5.49	69.81	18.06		150.0	
		Z	5.48	69.99	18.28	- 10	150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	5.75	69.78	18.23	0.46	150.0	± 9.6 %
		Y	5.56	69.77	18.09		150.0	
40574	IPPE 000 445 MIPLS 4 OUT IPPES 4	Z	5.53	69.94	18.28	0.46	150.0	+0.63
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.62	69.54	17.88	0.46	130.0	± 9.6 %
		Y		70.12	17.24		130.0	
10572-	IEEE AND AAL MISE O A CHI. IPAGO O	Z	1.64	70.12	18.27	0.46	130.0	± 9.6 %
10572- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)					0.46		I 9.0 %
		Y	1.53	69.27	17.52		130.0	
10570	1555 900 111 1655 0 4 OUT 15000 5 5	Z	1.68	70.82	18.62	0.46	130.0	4055
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	4.16	90.92	23.41	0.46		±9.6 %
		Y	3.34	87.84	21.93		130.0	
10554	THE SERVICE STATE OF SERVICE STATE STATE STATE OF SERVICE STATE STA	Z	10.18	106.24	28.34	0.40	130.0	1000
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	2.00	76.38	20.56	0.46	130.0	± 9.6 %
		Y	1.78	75.01	19.75		130.0	
		Z	2.16	78.69	21.81		130.0	

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10575-	IEEE 802.11g WIFI 2.4 GHz (DSSS-	X	5.47	69.34	18.10	0.46	130.0	±9.6 %
AAA	OFDM, 6 Mbps, 90pc duty cycle)	V	5.27	69.21	17.87		130.0	
		Z	5.27	69.21	17.87		130.0	
10576-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	5.50	69.49	18.14	0.46	130.0	± 9.6 %
AAA	OFDM, 9 Mbps, 90pc duty cycle)					0.40		1 5.0 %
		Υ	5.29	69.32	17.89		130.0	
		Z	5.30	69.55	18.10		130.0	
10577- AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS- OFDM, 12 Mbps, 90pc duty cycle)	X	5.81	69.93	18.38	0.46	130.0	± 9.6 %
		Y	5.56	69.76	18.14		130.0	
		Z	5.56	69.96	18.33		130.0	
10578- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 90pc duty cycle)	Х	5.67	69.97	18.36	0.46	130.0	± 9.6 %
		Y	5.43	69.81	18.14		130.0	
		Z	5.44	70.06	18.37		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	Х	5.50	69.69	17.96	0.46	130.0	± 9.6 %
		Y	5.26	69.47	17.70		130.0	
		Z	5.26	69.67	17.89		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	Х	5.60	69.85	18.09	0.46	130.0	± 9.6 %
		Y	5.32	69.54	17.76		130.0	
		Z	5.32	69.73	17.93		130.0	
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	5.63	70.25	18.40	0.46	130.0	± 9.6 %
		Y	5.35	69.95	18.12		130.0	
		Z	5.36	70.20	18.35		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	X	5.51	69.68	17.93	0.46	130.0	± 9.6 %
		Y	5.24	69.42	17.63		130.0	
		Z	5.24	69.60	17.78		130.0	
10583- AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	5.47	69.34	18.10	0.46	130.0	± 9.6 %
		Y	5.27	69.21	17.87		130.0	
		Z	5.28	69.43	18.07		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	5.50	69.49	18.14	0.46	130.0	±9.6%
		Υ	5.29	69.32	17.89		130.0	
		Z	5.30	69.55	18.10		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	5.81	69.93	18.38	0.46	130.0	± 9.6 %
		Y	5.56	69.76	18.14		130.0	
		Z	5.56	69.96	18.33		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	5.67	69.97	18.36	0.46	130.0	± 9.6 %
		Y	5.43	69.81	18.14		130.0	
		Z	5.44	70.06	18.37		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	5.50	69.69	17.96	0.46	130.0	±9.6 %
		Y	5.26	69.47	17.70		130.0	
		Z	5.26	69.67	17.89	0.10	130.0	1000
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	5.60	69.85	18.09	0.46	130.0	±9.6 %
		Y	5.32	69.54	17.76		130.0	
		Z	5.32	69.73	17.93		130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	Х	5.63	70.25	18.40	0.46	130.0	±9.6 %
		Υ	5.35	69.95	18.12		130.0	
		Z	5.36	70.20	18.35		130.0	
10590- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	5.51	69.68	17.93	0.46	130.0	± 9.6 %
		Y	5.24	69.42	17.63		130.0	
		Z	5.24	69.60	17.78		130.0	

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10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	5.63	69.39	18.20	0.46	130.0	± 9.6 %
- 44	eee, supe sail eyen)	Y	5.42	69.24	17.96		130.0	
		Z	5.43	69.44	18.15		130.0	
10592- NAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	5.84	69.74	18.30	0.46	130.0	± 9.6 %
UID	WOOT, sope duty cycle)	Y	5.62	69.62	18.10		130.0	
		Z	5.62	69.82	18.29		130.0	
10593-	IEEE 802.11n (HT Mixed, 20MHz,	X	5.80	69.80	18.26	0.46	130.0	± 9.6 %
AAB	MCS2, 90pc duty cycle)		5.56	69.63	18.04	0.40	130.0	10/0/6
		Y						
		Z	5.56	69.83	18.22		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	5.82	69.83	18.33	0.46	130.0	± 9.6 %
		Y	5.59	69.69	18.12		130.0	
		Z	5.60	69.90	18.32		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	5.85	69.97	18.33	0.46	130.0	± 9.6 %
		Y	5.60	69.77	18.09		130.0	
		Z	5.59	69.96	18.27		130.0	
10596-	IEEE 802.11n (HT Mixed, 20MHz,	X	5.78	69.95	18.32	0.46	130.0	± 9.6 %
AAB	MCS5, 90pc duty cycle)	- Î	5.52	69.74	18.07	0.40	130.0	20.00
							130.0	
		Z	5.53	69.96	18.27	0.10		1000
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	5.74	69.95	18.26	0.46	130.0	±9.6 %
		Y	5.48	69.72	18.00		130.0	
		Z	5.49	69.92	18.19		130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	5.70	70.14	18.46	0.46	130.0	± 9.6 %
		Y	5.44	69.86	18.18		130.0	
		Z	5.45	70.08	18.39		130.0	
10599-	IEEE 802.11n (HT Mixed, 40MHz,	X	8.49	77.10	22.23	0.46	130.0	±9.6%
AAB	MCS0, 90pc duty cycle)	Ŷ	7.68	75.15	21.10	0.40	130.0	2000
		- Z	8.05	76.29	21.69		130.0	-
70.000	THE STATE OF THE S					0.40		1000
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	Х	81.62	128.75	40.59	0.46	130.0	± 9.6 %
		Y	38.25	110.83	34.83		130.0	
		Z	37.25	109.76	34.31		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	8.79	77.75	22.46	0.46	130.0	± 9.6 %
		Y	9.61	80.24	23.48		130.0	
		Z	9.75	80.59	23.63		130.0	
10602- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	9.66	79.56	23.26	0.46	130.0	±9.6%
		Y	9.86	80.52	23.57		130.0	
		Z	10.26	81.41	23.94		130.0	
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duly cycle)	X	7.91	74.84	21.02	0.46	130.0	± 9.6 %
	moun, outro only operay	Y	9.40	79.48	23.19		130.0	
		Z	11.06	83.18	24.84		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz,	X	7.34	73.48	20.36	0.46	130.0	± 9.6 %
AMD	MCS5, 90pc duty cycle)	Y	7.32	73.96	20.51		130.0	
		Z	7.65	75.08	21.13		130.0	
10605-	IEEE 802.11n (HT Mixed, 40MHz,	X	10.81	82.61	24.84	0.46	130.0	± 9.6 %
AAB	MCS6, 90pc duty cycle)	10	0.00	00.04	00.55		400.0	
		Y	9.69	80.31	23.58		130.0	
		Z	9.72	80.36	23.58		130.0	
				71.93	19.41	0.46	130.0	± 9.6 %
10606- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	6.81	71.93	13.41	0.40	130.0	2 5.0 W
		X	6.97	73.08	19,94	0.40	130.0	2 5.0 W

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10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	5.44	68.53	17.67	0.46	130.0	± 9.6 %
		Y	5.24	68.40	17.45		130.0	
		Z	5.25	68.61	17.66		130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	5.71	68.99	17.83	0.46	130.0	± 9.6 %
		Y	5.48	68.87	17.63		130.0	
		Z	5.48	69.08	17.84		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	5.60	68.94	17.73	0.46	130.0	± 9.6 %
		Y	5.37	68.78	17.50		130.0	
		Z	5.38	68.98	17.70		130.0	
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	5.65	69.03	17.84	0.46	130.0	± 9.6 %
		Y	5.42	68.90	17.64		130.0	
		Z	5.42	69.11	17.84		130.0	
10611- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	5.63	69.11	17.84	0.46	130.0	±9.6 %
		Y	5.37	68.88	17.58		130.0	
		Z	5.37	69.07	17.78		130.0	
10612- AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	×	5.63	69.17	17.82	0.46	130.0	±9.6%
		Y	5.39	69.01	17.60		130.0	
		Z	5.39	69.23	17.81		130.0	
10613- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	×	5.66	69.15	17.76	0.46	130.0	±9.6%
		Y	5.41	68.98	17.55		130.0	
		Z	5.41	69.18	17.74		130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	5.58	69.35	17.97	0.46	130.0	± 9.6 %
	77-7	Y	5.31	69.02	17.67		130.0	
		Z	5.31	69.22	17.88		130.0	
10615- AAB	IEEE 802.11ac WIFI (20MHz, MCS8, 90pc duty cycle)	Х	5.63	68.92	17.65	0.46	130.0	± 9.6 %
	7-7	Y	5.38	68.74	17.40		130.0	
		Z	5.38	68.93	17.59		130.0	
10516- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90ac duty cycle)	Х	7.03	72.28	19.63	0.46	130.0	± 9.6 %
		Y	6.99	72.63	19.70		130.0	
		Z	6.97	72.64	19.76		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	×	7.14	72.41	19.63	0.46	130.0	±9.6 %
	- Cope and C	Y	7.13	72.92	19.81		130.0	
		Z	7.33	73.61	20.21		130.0	
10618- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	6.99	72.41	19.63	0.46	130.0	± 9.6 %
	7 7 7 1	Y	6.83	72.41	19.53		130.0	
		Z	6.83	72.52	19.64		130.0	
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	×	7.24	72.98	19.91	0.46	130.0	±9.6%
		Y	7.10	73.01	19.81		130.0	
		Z	7.19	73.39	20.05		130.0	
10620- AAB	IEEE 802.11ac WIFI (40MHz, MCS4, 90pc duty cycle)	×	6.93	71.53	19.17	0.46	130.0	± 9.6 %
		Y	6.67	71.31	18.97		130.0	
		Z	6.67	71.42	19.10		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	×	6.66	70.87	18.91	0.46	130.0	± 9.6 %
		Y	6.49	70.84	18.81		130.0	
		Z	6.53	71.11	19.04		130.0	
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90ac duty cycle)	X	7.70	74.37	20.76	0.46	130.0	± 9.6 %
		_					400.0	
740		Y	6.82	72.06	19,44		130.0	

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10623-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	7.11	72.51	19.72	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)							
		Y	6.54	71.18	18.91		130.0	
10001	IEEE OOG 11 HEE HOLDE TYPE	Z	6.62	71.57	19.18	0.46	130.0	±9.6 %
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	Х	7.26	72.52	19.81	0.46		1 9.6 %
		Y	7.34	73.25	20.06		130.0	
		Z	7.52	73.88	20.43		130.0	
10625- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	Х	12.41	84.31	25.41	0.46	130.0	± 9.6 %
		Y	11.20	81.94	24.07		130.0	
		Z	13.65	86.24	25.84		130.0	
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	Х	6.63	70.02	18.31	0.46	130.0	± 9.6 %
		Y	6.58	70.22	18.35		130.0	
		Z	6.71	70.73	18.71		130.0	
10627- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	8.06	74.01	20.37	0.46	130.0	± 9.6 %
		Y	8.94	76.67	21.57		130.0	
		Z	9.98	79.11	22.73		130.0	
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	Х	6.98	71.03	18.74	0.46	130.0	± 9.6 %
		Y	6.82	70.91	18.60		130.0	
		Z	6.89	71.22	18.85		130.0	
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	8.27	74.68	20.68	0.46	130.0	±9.6%
		Y	7.30	72.23	19.31		130.0	
		Z	7.42	72.65	19.59		130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	62.71	118.49	36.75	0.46	130.0	± 9.6 %
		Y	64.87	118.70	36.49		130.0	
		Z	57.07	115.53	35.42		130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	Х	23.88	98.00	30.40	0.46	130.0	± 9.6 %
		Y	10.02	79.12	22.70		130.0	
		Z	8.36	75.22	20.92		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	8.19	74.54	20.75	0.46	130.0	± 9.6 %
		Y	8.77	76.48	21.62		130.0	
		Z	9.81	78.98	22.81		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	8.83	76.22	21.43	0.46	130.0	± 9.6 %
		Y	7.54	73.09	19.77		130.0	
		Z	7.54	73.19	19.89		130.0	
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	7.05	71.12	18.82	0.46	130.0	± 9.6 %
		Y	7.75	73.87	20.25		130.0	
		Z	7.33	72.67	19.69		130.0	
10835- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	6.73	69.90	18.00	0.46	130.0	± 9.6 %
		Y	6.65	70.14	18.07		130.0	
		Z	6.70	70.40	18.30	0.10	130.0	1000
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCSo, 90pc duty cycle)	X	8.01	73.33	20.03	0.46	130.0	± 9.6 %
		Y	7.87	73.14	19.83		130.0	
		Z	8.37	74.57	20.61		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	Х	10.08	78.28	22.43	0.46	130.0	± 9.6 %
		Y	9.31	76.70	21.56		130.0	
		Z	9.33	76.72	21.59		130.0	
10638- AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	Х	9.02	75.76	21.19	0.46	130.0	± 9.6 %
		Y	9.34	76.73	21.55		130.0	
		Z	10.03	78.29	22.31		130.0	

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10639- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	8.43	74.18	20.42	0.46	130.0	± 9.6 %
1010	sope and cycles	Y	8.01	73.32	19.89		130.0	
		Z	7.76	72.63	19.59		130.0	
10640- AAC	IEEE 802.11ac WFi (160MHz, MCS4, 90pc duty cycle)	X	7.58	71.51	18.87	0.46	130.0	± 9.6 %
	sope sed start	Y	9.66	77.49	21.91		130.0	
		Z	9.39	76.86	21.63		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	8.23	73.42	20.02	0.46	130.0	± 9.6 %
14.40	cope only cycle)	Y	8.26	73.79	20.13		130.0	
		ż	8.47	74.38	20.48		130.0	
10642- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	8.01	72.86	19.84	0.46	130.0	±9.6%
		Y	8.28	73.98	20.36		130.0	
		Z	8.84	75.51	21.18		130.0	
10643- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	Х	8.08	73.34	20.04	0.46	130.0	± 9.6 %
		Y	7.73	72.64	19.57		130.0	
		Z	7.61	72.32	19.46		130.0	
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	Х	17.33	90.48	27.71	0.46	130.0	±9.6%
		Y	10.40	79.16	22.75		130.0	
		Z	9.29	76.66	21.60		130.0	
10645- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	Х	12.67	82.92	24.55	0.46	130.0	± 9.6 %
		Y	9.33	76.00	21.13		130.0	
		Z	9.04	75.13	20.67		130.0	
10646- AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	Х	33.91	115.70	38.89	9.30	60.0	± 9.6 %
		Y	100.00	145.90	47.24		60.0	
		Z	39.18	119.15	39.53		60.0	
10647- AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	Х	37.47	118.97	40.03	9.30	60.0	±9.6 %
		Y	100.00	146.83	47.63		60.0	
		Z	45.23	123.46	40.93		60.0	
10648- AAA	CDMA2000 (1x Advanced)	Х	1.11	67.81	13.44	0.00	150.0	±9.6 %
		Y	0.93	66.20	11.61		150.0	
		Z	0.97	67.57	12.43		150.0	
10652- AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	Х	5.45	72.12	19.22	2.23	80.0	±9.69
		Y	5.00	71.69	18.74		80.0	
		Z	5.39	72.40	19.03		80.0	
10653- AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	Х	6.01	71.76	19.51	2.23	80.0	± 9.6 %
		Y	5.59	71.30	19.13		80.0	
		Z	5.91	71.76	19.31		80.0	
10654- AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	Х	5.87	71.40	19.50	2.23	80.0	±9.6 5
		Y	5.49	70.92	19.14		80.0	
		Z	5.81	71.37	19.33		80.0	
10655- AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	Х	5.97	71.62	19.62	2.23	80.0	± 9.6 9
		Y	5.58	71.06	19.25		80.0	_
		Z	5.90	71.45	19.42		80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	Х	10.71	83.30	21.82	10.00	50.0	±9.69
		Y	10.92	84.33	20.32		50.0	
		Z	10.85	83.39	22.27		50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	X	9.89	83.31	20.36	6.99	60.0	±9.69
		Y	10.71	84.40	19.06		60.0	
			10.35	84.14	21.07		60.0	

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10660- AAA	Pulse Waveform (200Hz, 40%)	X	10.29	86.12	19.74	3.98	80.0	±9.6 %
		Y	11.52	86.36	18.25		80.0	
		Z	12.69	89.51	21.25		80.0	
10661- AAA	Pulse Waveform (200Hz, 60%)	Х	100.00	86.91	12.34	2.22	100.0	±9.6 %
		Y	100.00	83.70	10.45		100.0	
		Z	100.00	85.81	11.37		100.0	
10662- Pulse V	Pulse Waveform (200Hz, 80%)	X	100.00	108.21	21.35	0.97	120.0	±9.6 %
		Y	100.00	99.15	17.04		120.0	
		Z	100.00	105.70	20.36		120.0	
10670- AAA	Bluetooth Low Energy	X	9.38	87.55	19.37	2.19	100.0	±9.6 %
		Y	9.35	86.05	17.53		100.0	
		Z	18.29	96.85	22.51		100.0	



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18. Uncertainty Budget

Error Description	Uncert. value	Prob. Dist.	Div.	(c _i)	$\binom{c_i}{H}$	Std. Unc. E	Std. Unc.
Measurement System							
Probe Calibration	±5,1%	N	1	1	1	±5.1%	±5.1 %
Axial Isotropy	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	$\pm 2.7\%$
Sensor Displacement	±16.5 %	R	$\sqrt{3}$	1	0.145	±9.5 %	$\pm 1.4\%$
Boundary Effects	±2.4%	R	$\sqrt{3}$	1	1	±1.4%	±1.4%
Phantom Boundary Effect	±7.2%	R	$\sqrt{3}$	1	0	±4.1%	±0.0%
Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%
Scaling with PMR calibration	±10.0%	R	$\sqrt{3}$	1	1	±5.8%	±5.8%
System Detection Limit	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%
Readout Electronics	±0.3%	N	1	1.	1	±0.3%	±0.3 %
Response Time	±0.8%	R	$\sqrt{3}$	1	1	±0.5%	±0.5%
Integration Time	±2.6%	R	$\sqrt{3}$	1	1	±1.5%	±1.5%
RF Ambient Conditions	±3.0%	R	$\sqrt{3}$	1	1	±1.7%	±1.7%
RF Reflections	±12.0%	R	$\sqrt{3}$	1	1	±6.9 %	±6.9 %
Probe Positioner	±1.2%	R	$\sqrt{3}$	1	0.67	±0.7%	±0.5 %
Probe Positioning	±4.7%	R	$\sqrt{3}$	1	0.67	±2.7%	±1.8%
Extrap. and Interpolation	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%
Test Sample Related							
Device Positioning Vertical	±4.7%	R	$\sqrt{3}$	1	0.67	±2.7%	±1.8%
Device Positioning Lateral	±1.0%	R	$\sqrt{3}$	1	1	±0.6%	±0.6%
Device Holder and Phantom	±2.4%	R	$\sqrt{3}$	1	1	±1.4%	±1.4%
Power Drift	±5.0%	R	$\sqrt{3}$	1	1-	±2.9%	±2.9 %
Phantom and Setup Related							
Phantom Thickness	$\pm 2.4\%$	R	$\sqrt{3}$	1	0.67	±1.4%	±0.9 %
Combined Std. Uncertainty						±16,3 %	±12.3 %
Expanded Std. Uncertainty of Expanded Std. Uncertainty of				1111		±32.6 % ±16.3 %	±24.6 % ±12.3 %

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19. System Validation from Original Equipment Supplier

Calibration Laboratory of Schmid & Partner Engineering AG aughausstrasse 43, 8004 Zunch, Switzerland





The Swiss Accreditation Service is one of the signatories to the EA Multitateral Agreement for the recognition of calibration contribates Accreditation No.: SCS 0108

Auden

Curtificate No: CD635V3-1149_Dec18

CALIBRATION CERTIFICATE CD835V3 - SN: 1149 Calibration procedure(s) QA CAL-20.v6 Calibration procedure for dipoles in air December 10, 2018 This continuous contribute obcuments the traceativity to nanonal standards, which makes the physical units of messurements (SI) The measurements and the uncertainties with confidence probability are given on the following pages and ese pair of the certificate All calibrations have been conducted in the disced appretory facility, environment temperature (22 ± 3) °C and humidity < 70% Calibration Equipment used (M&TE critical for dailbration) Plantary Standards Cal Date (Certificate No.) SN 104778 84-April 15 (No. 217-02672/02679) Power meter MRP Apr-19 Power sensor MRP-Z91 SN 103244 04-Apr-18 (No. 217-02672) Apr-19 Power sensor NRP-Z91 SN: 103245 84-Apr-18 (No. 217-02673) 04-Apr-18 (No. 217-02682) Apr-19 Reference 20 dB Attanuator SN. 5068 (20k) Apr 19 Type-N mismach combination SN. 5047.2 / 06327 04-Apr-18 (No. 217-02683) Probe EF9DV3 SN: 4013 05-Mar-18 (No. EF3-4013 Mar18) 17-Jan-18 (No. DAER-781 Jan18) Mar-10 SN 781 Jan-19 Secondary Standards 10 4 Check Date (in house) Scheduled Chieby 09-Oct-09 (in house check Oct-17) In house street. Oct-20 Power meter Agricut 4419B SN: GB42420191 Power sanser HP E4412A SN US38489103 65-Jan-10 (in house check Oct-17) in house check: Oct-20 Power sensor HP 5482A SN: US37296597 09 Cot-09 (in house check, Oct-17) In house theor. Oct-20 RF generator R&S SMT 66 SM. 635583-011 27-Aug-12 (in Fourte drieds Oct-17) in house chack: Oct-20 Network Analyzer HP 6753E SN US37590585 18-Oct-01 (kn imass check Oct-17) in yearse check: Oct-18 Calmened by Lot Klysner Laboratory Technician Kass Pokowe Technical Manager Approved by This calibration certificate shall not be reproduced except in full without written applicable the laboral

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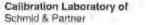
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ditation No.: SCS 0108

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

References

ANSI-C63.19-2011 American National Standard, Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.

Methods Applied and Interpretation of Parameters:

- Coordinate System: y-axis is in the direction of the dipole arms, z-axis is from the basis of the america. (mounted on the lable) towards its feed point between the two dipole arms, x-axis is normal to the other axes. In coincidence with the standards [1], the measurement planes (probe sensor center) are selected to be at a distance of 15 mm above the top metal edge of the dipole arms.
- Measurement Conditions: Further details are available from the hardcopies at the end of the certificate, All figures stated in the certificate are valid at the frequency indicated. The forward power to the dipote connector is set with a calibrated power meter connected and monitored with an auxiliary power meter connected to α directional coupler. While the dipole under test is connected, the forward power is adjusted to the same level
- Antenna Positioning: The dipole is mounted on a HAC Test Arch phantom using the matching dipole positioner with the arms horizontal and the feeding cable coming from the floor. The measurements are performed in a shielded room with absorbers around the setting to reduce the reflections. It is verified before the mounting of the dipole under the Test Arch phantom, that its arms are perfectly in a line. It is installed on the HAC dipole positioner with its arms parallel below the dielectric reference wire and able to move eastically in vertical direction without changing its relative position to the top center of the Test. Arch phantom. The vertical distance to the probe is adjusted after dipole mounting with a DASY5 Surface. Check job. Before the measurement, the distance between phantom surface and probe tip is verified. The proper measurement distance is selected by choosing the matching section of the HAC Test Arch phanton with the proper device reference point (upper surface of the dipole) and the matching grid reference point (tip of the probe) considering the probe sensor offset. The vertical distance to the probe elessential for the
- Feed Point Impedance and Return Loss: These parameters are measured using a HP 8753E Vector Network Analyzer. The impedance is specified at the SMA connector of the dipole. The influence of reflections was eliminating by applying the averaging function while moving the dipole in the air, at least 70cm away from any
- E-field distribution: E field is measured in the x-y-plane with an isotropic ER3D-field probe with 100 mW forward power to the anterma feed point. In accordance with [1], the scan area is 20mm wide, its length exceeds the dipole arm length (180 or 90mm). The sensor center is 15 mm (in z) above the metal top of the dpole arms. Two 3D maxima are evaluable near the end of the dipole arms. Assuming the dipole arms arm perfectly in one line, the average of these two maxima (in subgrid 2 and subgrid 8) is determined to compensate for any non-parallelity to the measurement plane as well as the sensor displacement. The E-field value stated as calibration value represents the maximum of the interpolated 3D-E-field, in the plane above the dipole surface.

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

Certificate No. CD835V3-1149, Dec18

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Measurement Conditions

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

DASY Version	DASY5	V52.10.2
Phantom	HAC Test Arch	
Distance Dipole Top - Probe Center	15 mm	
Scan resolution	dx, dy = 5 mm	
Frequency	835 MHz ± 1 MHz	
Input power drift	< 0.05 dB	

Maximum Field values at 835 MHz

E-field 15 mm above dipole surface	condition	Interpolated maximum
Maximum measured above high end	100 mW input power	110.4 V/m = 40.88 dBV/m
Maximum measured above low end	100 mW input power	110.2 V/m = 40.85 dBV/m
Averaged maximum above arm	100 mW input power	110.3 V/m ± 12.8 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters

Frequency	Return Loss	Impedance
800 MHz	17.9 dB	42.5 Ω - 9.2 jΩ
835 MHz	25.1 dB	$53.6 \Omega + 4.4 j\Omega$
880 MHz	16.5 dB	61.5 Ω - 12.3 jΩ
900 MHz	15.9 dB	51.8 Ω - 16.3 jΩ
945 MHz	22.4 dB	$43.5 \Omega + 2.8 j\Omega$

3.2 Antenna Design and Handling

The calibration dipole has a symmetric geometry with a built-in two stub matching network, which leads to the enhanced bandwidth.

The dipole is built of standard semirigid coaxial cable. The internal matching line is open ended. The antenna is therefore open for DC signals.

Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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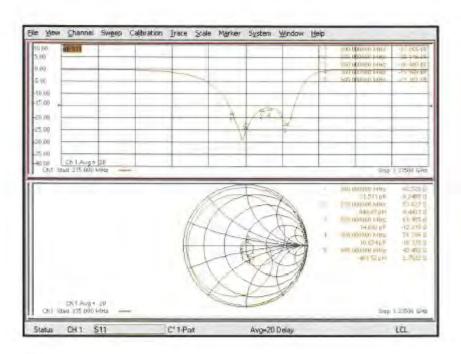
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Impedance Measurement Plot



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DASY5 E-field Result

Date: 10,12:2018

Test Laboratory: SPEAG Lab2

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Scrial; CD835V3 - SN: 1149

Communication System: UID 0 - CW : Frequency: 835 MHz Medium parameters used: $\sigma = 0.8/m_b c_r = 1$; $\rho = 0.kg/m^3$ Phantom section: RF Section Measurement Standard: DASY5 (IEFE/IEC/ANSI C63/19-2011)

DASY32 Configuration:

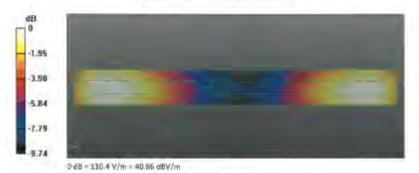
- Probe: EF30V3 5N4013, ConvF(1, 1, 1) @ 835 MHz; Calibrated: 05.03,2018
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 17.01.2018
- Phantom: HAC Test Arch with AMCC; Type: SD HAC F01 BA; Suriali 1070
- DASYS2 52:10.2(1495); SEMCAD X 14.6:12(7450)

Dipole E-Field measurement @ 835MHz/E-Scan - 835MHz d=15mm/Hearing Aid Compatibility Test (41x361x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0. 0, -0.3 mm Reference Value = 132.1 V/m; Power Drift = 0.01 dB Applied MIF = 0.00 dB RF audio interference level = 40.86 dBV/m Emission category: M3

MIT scaled E-field

	Grid 2 M3 40.85 dBV/m	Grid 3 M3 40.84 dBV/m
Grid 4 M4 35.6 dBV/m	Grid 5 M4 36.03 diBV/m	Grid 5 M4 36.01 dBV/m
1000	The second second	Grid 9 M3 40.83 dBV/m



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Calibration Laboratory of Schmid & Partner Engineering AG loghausstrasse 43, 8994 Zurich, Switzer





Schweizerischer Kalibriernig Service suisse d'étalonnage Servizio svizzero di tersture Swiss Calibration Service

Accreditation No.: SCS 0108

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Auden

Certificate No. CD1880V3-1023_Jun18

CALIBRATION CERTIFICATE

Doject

CD1880V3 - SN: 1023

Calibration procedure(s)

QA CAL-20.v6

Calibration procedure for dipoles in air

Galermen data

June 21, 2018

This calibration contribute documents the traceability to national standards, which review the physical parts of measurements (SI) The measurements and the uncertainties with confidence probability are given on the histowing pages and are part of the certifical

All calibrators have been conducted in the Goset Inboratory facility, environment temperature (22 ± 31%, and furnigny + 76%

Calibration Equipment (mild-(M&TE critical (or calibration))

Power meter NRP SN 15 Power sensor NRP-Z91 SN 15	And Albert of Room of Lands Spice and	3) Agr-19
Source comment NOS. VOV. 1755 17		
Prover annous over-221	13244 04-Apr-16 (No. 217-02672)	Acr-13
Priver sensor NRP (Z9) SNL 10	3245 (M-Apr-18 (No. 217-02673)	Acir-19
Reference 20 dB Attenuation SN: 50	358 (80k) 34-Apr-18 (No. 217-02682)	Apv-10
Type-N mirriatch combination SN 50	147.2 / 06327 04-Apr-18 (No. 217-02683)	Asc-10
Probe EF3DVS SN: 40	913 05-Mar-18 (No. EF3-4013, Mar18	6) Mar-19
DAE4 SN 78	17 Jan-18 (No. DAE4 781 Jan16	8V Jen-19

Secondary Standards	10+	Check Date (in house)	Schodular Chook
Power meter Agilint 44199	SN GB42428191	09-D3-09 (in house-check Oct-17)	In house cheek. Oct-20
Power sensor HP E4412A	SN: US38485102	(65-Jan-10 (in himse check Obt-17)	In nouse check: Oct-20
Power sensor HP 8482A	5N US37295597	(940ct-09 (im house check: Oct-17)	In house check, Dct-26
RF generator FISS SMT-00	586 832283/011	27-Aug-12 Lin hause check Oct-171	In house cheek Dct-20
Network Areayzer HP 8753E	SN: US37390585	18-Oct-01 (in house pheck Oct-17)	In house check. Oct-18
	Noune	#10-14-14-1	William of

Function Calibrated by LeifKlyaner Laboratory Technician Approved by Kalja Postvic Technical Managar

issued June 22, 2018

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References

AMSI-C83,19-2011 American National Standard, Methods of Measurement of Compatibility between Wireless Communications. Devices and Hearing Aids.

Methods Applied and Interpretation of Parameters:

- Coordinate System y-axis is in the direction of the dipole arms, z-axis is from the basis of the antenna (mounted on the table) towards its feed point between the two dipole arms. X-axis is normal to the other axes. In coincidence with the standards [1], the measurement places (probe sensor center) are selected to be at a distance of 15 mm above the top metal edge of the dipole arms.
- Measurement Conditions: Further details are available from the hardcopies at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated. The forward power to the dipolit connecto is set with a calibrated power meter connected and monitored with an auxiliary power meter connected to a directional coupler. While the dipote under test is connected, this forward power is adjusted to the same level.
- Antenna Positioning: The dipole is mounted on a HAC Test Arch phantom using the matching dipole positioner with the arms horizontal and the feeding cable coming from the (fccy. The measurements are performed in a shielded room with absorbers around the setup to reduce the reflections. It is verified before the mounting of the dipole under the Test Arch phantom, that its arms are perfectly in a line it is installed on the HAC dipole positionar with its arms parallel below the dielectric reference wire and able to move elastically in vertical direction without changing its relative position to the top center of the Test Arch phantiam. The vertical distance to the probe is adjusted after dipole mounting with a DASY5 Surface Check job. Before the measurement, the distance between phantism surface and probe tip is verified. The proper measurement distance is selected by choosing the masslving section of the HAC Test Arch phantom with the proper device reference point (upper surface of the dipole) and the matching and inference point (tip of the probe) considering the probe sensor alfaet. This vertical distance to the probe is essential for the accuracy
- Feed Form Impediance and Rotum Loss: These parameters are measured using a HP 6753E. Vector Network Analyzer. The impacance is specified at the SMA connector of the dipole. The influence of reflections was aliminating by applying the averaging function while moving the dipole in the air, at least 70cm away from any
- E-field distribution. E field is measured in the x-y-plane with an isotropic ER3D-field probe with 100 mW forward power to the entenna feed point, in accordance with [1], the scan area is 20mm wide, its length exceeds the dipole arm length (180 or 90mm). The sensor center is 15 mm (in z) above the metal top of the dipole arms. Two 3D maxima are available near the end of the dipole arms. Assuming the dipole arms are perfectly in one line, the average of trissic two maximir (in subgrid 2 and subgrid 8) is determined to compensate for any non-parallelity to the measurement plane as well as the consor displacement. The E licks value stated as salibration value represents the maximum of the interpolated 30-E-field, in the plane above the dipute surface.

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%.

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Measurement Conditions

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

DASY Version	DASY5	V52.10.1
Phantom	HAC Test Arch	
Distance Dipole Top - Probe Center	15 mm	
Scan resolution	dx, dy = 5 mm	
Frequency	1880 MHz ± 1 MHz	
Input power drift	< 0.05 dB	

Maximum Field values at 1880 MHz

E-field 15 mm above dipole surface	condition	Interpolated maximum
Maximum measured above high end	100 mW input power	89.9 V/m = 39.08 dBV/m
Maximum measured above low end	100 mW input power	87.2 V/m = 38.81 dBV/m
Averaged maximum above arm	100 mW input power	88.6 V/m ± 12.8 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters

Frequency	Return Loss	Impedance
1730 MHz	22.4 dB	55.8 Ω + 5.6 jΩ
1880 MHz	21.3 dB	58.9 Ω + 3.2 jΩ
1900 MHz	21.7 dB	58.9 Ω + 0.5 jΩ
1950 MHz	28.8 dB	51.5 Ω - 3.4 jΩ
2000 MHz	19.8 dB	44.0 Ω + 7.5 jΩ

3.2 Antenna Design and Handling

The calibration dipole has a symmetric geometry with a built-in two stub matching network, which leads to the enhanced bandwidth.

The dipole is built of standard semirigid coaxial cable. The internal matching line is open ended. The antenna is

therefore open for DC signals.

Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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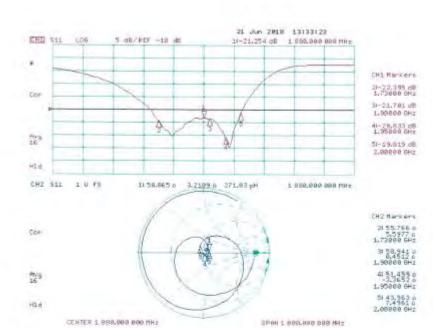
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Impedance Measurement Plot



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DASY5 E-field Result

Date: 21,06,2018

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: CD1880V3 - SN: 1023

Communication System, UID 0, CW, Frequency, 1880 MHz: Medium parameters used: $\sigma = 0$ S/m; $\tau_0 = 1$; $\rho = 0$ kg/m Phantom section: RF Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63 19-2011)

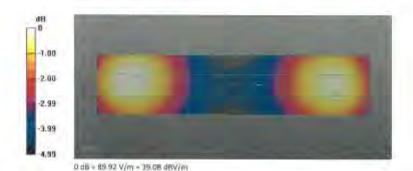
DASY Configuration:

- Probe: EF30V3 SN4013; ConvF(1 I, I) @ 1880 MHz;
- Sensor Surface: (Fix Surface)
- Electronics: DA64 5n781; Calibrated: 17.01.2018
- Phantom: HAC Test Arch with AMCC: Type: SD HAC PQ3 BA; Serial: 1070
- DASY52 52.10 1(1476); SEMCAD X 14.6 11(7439)

Dipole E-Field measurement @ 1880MHz/E-Scan - 1880MHz d=15mm/Hearing Aid Compatibility Test (41x181x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0. 0, +6.3 mm Reference Value = 153.7 V/m; Power Drift = -0.01 dBApplied MIF = 0.00 dBRF audio interference level = 39.08 dBV/m Emission category: M2

	Grid 2 M2 39.08 dBV/m	Grid 3 MIZ 39.03 dBV/m
1.00	Grid 5 M2 36.07 dBV/m	Grid 6 M2 36.02 dBV/m
Grid 7 M2 38,57 dBV/m	Grid 8 M2 38.81 dBV/m	Grid 9 M2 38.7 dBV/m



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