





HAC RF TEST REPORT

No. I21Z62328-SEM03

For

Wingtech Group (Hong Kong) Limited

4G Mobile Phone

Model name: TMRVL4G

With

Hardware Version: 98117_1_10

Software Version: TMRVL4G_0.03.25

FCC ID: 2APXW-TMRVL4G1

Results Summary: M Category = M4

Issued Date: 2021-12-14

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Issue Date	Description
I21Z62328-SEM03 Rev.0		2021-12-14	Initial creation of test report





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1 Test Laboratory

1.1 Testing Location

CompanyName:	CTTL(Shouxiang)	
Address:	No. 51 Shouxiang Science Building, Xueyuan Road, Haidian District,	
	Beijing, P. R. China100191	

1.2 Testing Environment

Temperature:	18°C~25°C,			
Relative humidity: 30%~ 70%				
Ground system resistance: $< 0.5 \Omega$				
Ambient noise is checked and found very low and in compliance with requirement of standards.				
Reflection of surrounding objects is minimized and in compliance with requirement of standards				

1.3 Project Data

Project Leader:	Qi Dianyuan
Test Engineer:	Lin Xiaojun
Testing Start Date:	November 25 2021
Testing End Date:	December 11 2021

1.4 Signature

Lin Xiaojun (Prepared this test report)

Qi Dianyuan (Reviewed this test report)

うう W 4

Lu Bingsong Deputy Director of the laboratory (Approved this test report)





2 Client Information

2.1 Applicant Information

Company Name:	Wingtech Group (Hong Kong) Limited			
Address/Post:	Flat/RM 1903, 19/F, Podium Plaza 5 Hanoi Road, Tsim Sha Tsui Kowloon, Hong Kong			
Contact Person:	\			
Contact Email:	1			
Telephone:	1			
Fax:	1			

2.2 Manufacturer Information

Company Name:	Wingtech Group (Hong Kong) Limited			
Adduces (De etc	Flat/RM 1903, 19/F, Podium Plaza 5 Hanoi Road, Tsim Sha Tsui			
Address/Post:	Kowloon, Hong Kong			
Contact Person:	1			
Contact Email:	1			
Telephone:	١			
Fax	١			





3 Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1 About EUT

Description:	4G Mobile Phone
Model name:	TMRVL4G
Operating mode(s):	GSM850/GSM900/GSM1800/GSM1900,WCDMA850/1700/1900/2100,
	LTE Band 2/4/5/12/25/26/41/66/71, BT, Wi-Fi 2.4G,WIFI5G

3.2 Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	863892050025846	98117_1_10	TMRVL4G_0.03.25
EUT2	863892050022140	98117_1_10	TMRVL4G_0.03.25

*EUT ID: is used to identify the test sample in the lab internally.

Note: It is performed to test HAC with the EUT1-2

3.3 Internal Identification of AE used during the test

AE ID*	Description	Model	SN Manufacturer	
AE1	Battery	JU001	Jiade Energy Technolog (Zhuhai) Co.,Ltd.	
AE2	Battery	JU001	\	Sunwoda Electronic Co., Ltd.

*AE ID: is used to identify the test sample in the lab internally.





Air-interface	Band(MHz)	Туре	C63.19/tested	Simultaneous Transmissions	Name of Voice Service
GSM	850	vo	Yes	BT, WLAN	CMRS Voice
GSIM	1900				
	850	рт	Vee		Google duo
GPRS/EDGE	1900	DT	Yes		
	850				
WCDMA	1700	VO	NO ⁽¹⁾		CMRS Voice
(UMTS)	1900			BT, WLAN	
	HSPA	DT	NO ⁽¹⁾		Google duo
LTE TDD	Band41	V/D	Yes	BT, WLAN	VoLTE, Google duo
LTE FDD	Band 12/25/26/66/71	V/D	NO ⁽¹⁾	BT, WLAN	VoLTE, Google duo
BT	2450	рт	NA	GSM,WCDM	NA
Ы	2450	DT	INA	A ,LTE	NA
WLAN	2450	V/D	Yes	GSM,WCDM	VoWiFi, Google
VVLAIN	2450 V/D	165	A ,LTE	duo	
WLAN	5G	V/D	NO ⁽¹⁾	GSM,WCDM	VoWiFi, Google
		V/D		A ,LTE	duo

3.4 Air Interfaces / Bands Indicating Operating Modes

NA: Not Applicable VO: Voice Only V/D: CMRS and IP Voice Service over Digital Transport DT: Digital Transport

* HAC Rating was not based on concurrent voice and data modes, Non current mode was found to represent worst case rating for both M and T rating

Note1 = The air interface is exempted from testing by low power exemption that its average antenna input power plus its MIF is \leq 17 dBm, and is rated as M4.

Note2= The device have similar frequency in some LTE bands : LTEB2/25, 5/26,4/66, since the supported frequency spans for the smaller LTE bands are completely cover by the larger LTE bands, therefore, only larger LTE bands were required to be tested for hearing-aid compliance.





4 Maximum Output Power

GSM	Conducted Power (dBm)					
850MHz	Channel 251(848.8MHz)	Channel 190(836.6MHz)	Channel 128(824.2MHz)			
Voice	33.5	33.5	33.5			
EDGE	29.5	29.5	29.5			
GSM		Conducted Power(dBm)				
1900MHz	Channel 810(1909.8MHz)	Channel 661(1880MHz)	Channel 512(1850.2MHz			
Voice	30	30	30			
EDGE	26	26	26			
WCDMA		Conducted Power (dBm)				
850MHz	Channel 4233(846.6MHz)	Channel 4182(836.4MHz)	Channel 4132(826.4MHz			
RMC	25	25	25			
HSPA	24.5	24.5	24.5			
		Conducted Power (dBm)				
	Channel 1513 (1752.6MHz)	Channel 1412 (1732.4MHz)	Channel 1312			
1700MHz			(1712.4MHz)			
RMC	25	25	25			
HSPA	24.5	24.5	24.5			
WCDMA	Conducted Power (dBm)					
1900MHz	Channel 9538(1907.6MHz)	nnel 9538(1907.6MHz) Channel 9400(1880MHz)				
			9262(1852.4MHz)			
RMC	24.5	24.5	24.5			
HSPA	24.5	24.5	24.5			
LTE		Conducted Power (dBm)				
Band12	Channel 23130(711MHz)	Channel 23095(707.5MHz)	Channel23060(704MHz)			
QPSK	25	25	25			
16QAM	24	24	24			
64QAM	23	23	23			
LTE		Conducted Power (dBm)				
Band25	Channel 26590(1905MHz)	Channel 26365(1883MHz)	Channel 26140(1860MHz			
QPSK	25	25	25			
16QAM	24	24	24			
64QAM	23	23	23			
LTE		Conducted Power (dBm)				
Band26	Channel 26965(841.5MHz)	Channel 26865(831.5MHz)	Channel 26775(822.5MHz			
QPSK	25	25	25			
16QAM	24	24	24			
64QAM	23	23	23			
LTE		Conducted Power (dBm)				
Band41 Power	Channel 41490(2680MHz)	Channel 40620(2593MHz)	Channel 39750(2506MHz			
Class 2						

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QPSK	28	28	28			
16QAM	27	27	27			
64QAM	26	26	26			
LTE	Conducted Power (dBm)					
Band41						
Power	Channel 41490(2680MHz)	Channel 40620(2593MHz)	Channel 39750(2506MHz)			
Class 3						
QPSK	25	25	25			
16QAM	24	24	24			
64QAM	23	23	23			
LTE		Conducted Power (dBm)				
Band66	Channel	Channel	Channel			
Dalluoo	132572(1770MHz)	132322(1745MHz)	133072(1720MHz)			
QPSK	25	25	25			
16QAM	24	24	24			
64QAM	23	23	23			
LTE		Conducted Power (dBm)				
Band71	Channel 133372(688MHz)	Channel 133322(683MHz)	Channel 133222(673MHz)			
QPSK	25	25	25			
16QAM	24	24	24			
64QAM	23	23	23			
2.4011-		Conducted Power (dBm)	•			
2.4GHz	Channel 11 (2462MHz)	Channel 6 (2437MHz)	Channel 1 (2412MHz)			
802.11b	21.8	21.8	21.8			
50U-		Conducted Power (dBm)	•			
5GHz	Channel 60 (5300MHz)	Channel 124 (5620MHz)	Channel 157 (5785MHz)			
802.11a	19.5	20	20			

Note: For LTE Band 41, UL-DL Configuration 1 was used to evaluate Power Class 2 and UL-DL Configuration 1 was used to evaluate Power Class 3.





5 Reference Documents

5.1 Reference Documents for testing

The following document listed in this section is referred for testing.

Reference	Title	Version
ANSI C63.19-2011	American National Standard for Methods of Measurement of	2011
	Compatibility between Wireless Communication Devices and	Edition
	Hearing Aids	
FCC 47 CFR §20.19	Hearing Aid Compatible Mobile Headsets	2015
		Edition
KDB 285076 D01	Equipment Authorization Guidance for Hearing Aid Compatibility	v05r01

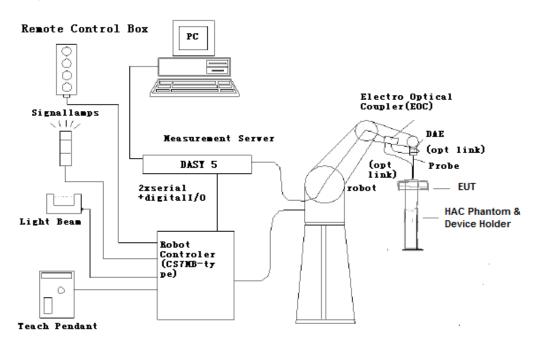




6 OPERATIONAL CONDITIONS DURING TEST

6.1 HAC MEASUREMENT SET-UP

These measurements are performed using the DASY5 NEO automated dosimetric assessment system. It is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland. It consists of high precision robotics system (Stäubli), robot controller, Intel Core2 computer, near-field probe, probe alignment sensor. The robot is a six-axis industrial robot performing precise movements. A cell controller system contains the power supply, robot controller, teach pendant (Joystick),and remote control, is used to drive the robot motors. The PC consists of the HP Intel Core21.86 GHz computer with Windows XP system and HAC Measurement Software DASY5 NEO, A/D interface card, monitor, mouse, and keyboard. The Stäubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE)circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.





The DAE4 consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer.





6.2 Probe Specification

E-Field Probe Description

Construction	One dipole parallel, two dipoles normal to probe axis	
	Built-in shielding against static charges	
	PEEK enclosure material	E
Calibration	In air from 100 MHz to 3.0 GHz (absolute accuracy ±6.0%, k=2)	
F		[ER3DV6]
Frequency	40 MHz to > 6 GHz (can be extended to < 20 MHz)	
	Linearity: ± 0.2 dB (100 MHz to 3 GHz)	
Directivity	± 0.2 dB in air (rotation around probe axis)	
	± 0.4 dB in air (rotation normal to probe axis)	
Dynamic Range	2 V/m to > 1000 V/m; Linearity: ± 0.2 dB	
Dimensions	Overall length: 330 mm (Tip: 16 mm)	
	Tip diameter: 8 mm (Body: 12 mm)	
	Distance from probe tip to dipole centers: 2.5 mm	
Application	General near-field measurements up to 6 GHz	
	Field component measurements	
	Fast automatic scanning in phantoms	





6.3Test Arch Phantom & Phone Positioner

The Test Arch phantom should be positioned horizontally on a stable surface. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot. It enables easy and well defined positioning of the phone and validation dipoles as well as simple teaching of the robot (Dimensions: $370 \times 370 \times 370 \text{ mm}$).

The Phone Positioner supports accurate and reliable positioning of any phone with effect on near field < \pm 0.5 dB.

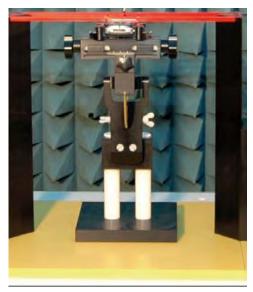


Fig. 2 HAC Phantom & Device Holder

6.4 Robotic System Specifications

Specifications

Positioner: Stäubli Unimation Corp. Robot Model: RX160L Repeatability: ±0.02 mm No. of Axis: 6 Data Acquisition Electronic (DAE) System Cell Controller Processor: Intel Core2 Clock Speed: 1.86GHz Operating System: Windows XP Data Converter Features:Signal Amplifier, multiplexer, A/D converter, and control logic Software: DASY5 software Connecting Lines: Optical downlink for data and status info. Optical uplink for commands and clock





7 EUT ARRANGEMENT

7.1 WD RF Emission Measurements Reference and Plane

Figure 4 illustrates the references and reference plane that shall be used in the WD emissions measurement.

- The grid is 5 cm by 5 cm area that is divided into 9 evenly sized blocks or sub-grids.
- The grid is centered on the audio frequency output transducer of the WD (speaker or T-coil).

The grid is located by reference to a reference plane. This reference plane is the planar area that contains the highest point in the area of the WD that normally rests against the user's ear
The measurement plane is located parallel to the reference plane and 15 mm from it, out from the phone. The grid is located in the measurement plane.

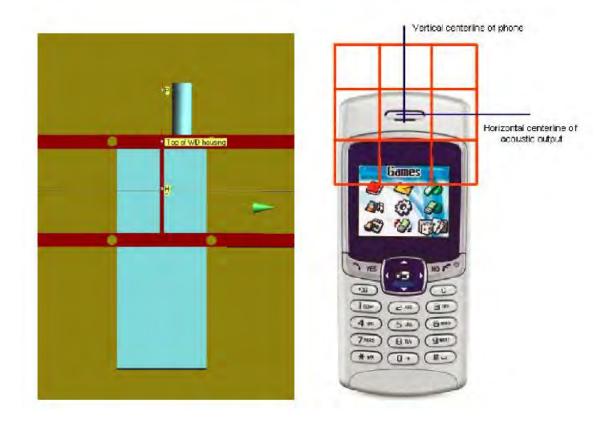


Fig. 3 WD reference and plane for RF emission measurements





8 SYSTEM VALIDATION

8.1 Validation Procedure

Place a dipole antenna meeting the requirements given in ANSI C63.19 in the position normally occupied by the WD. The dipole antenna serves as a known source for an electrical output. Position the E-field probes so that:

•The probes and their cables are parallel to the coaxial feed of the dipole antenna

•The probe cables and the coaxial feed of the dipole antenna approach the measurement area from opposite directions

• The center point of the probe element(s) are 15 mm from the closest surface of the dipole elements.

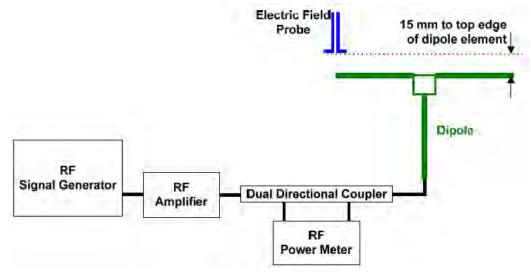


Fig. 4 Dipole Validation Setup

	E-Field Scan						
Mode	Frequency (MHz)	Input Power (mW)	Measured ¹ Value(dBV/m)	Target² Value(dBV/m)	Deviation ³ (%)	Limit⁴ (%)	
CW	835	100	40.63	41.00	-4.17	±25	
CW	1880	100	39.01	38.80	2.45	±25	
CW	2450	100	38.64	38.68	-0.46	±25	
CW	2600	100	38.80	38.64	1.86	±25	

8.2 Validation Result

Notes:

1. Please refer to the attachment for detailed measurement data and plot.

2. Target value is provided by SPEAD in the calibration certificate of specific dipoles.

3. Deviation (%) = 100 * (Measured value minus Target value) divided by Target value.

4. ANSI C63.19 requires values within \pm 25% are acceptable, of which 12% is deviation and 13% is measurement uncertainty. Values independently validated for the dipole actually used in the measurements should be used, when available.





9 Evaluation of MIF

9.1 Introduction

The MIF (Modulation Interference Factor) is used to classify E-field emission to determine Hearing Aid Compatibility (HAC). It scales the power-averaged signal to the RF audio interference level and is characteristic to a modulation scheme. The HAC standard preferred "indirect" measurement method is based on average field measurement with separate scaling by the MIF. With an Audio Interference Analyzer (AIA) designed by SPEAG specifically for the MIF measurement, these values have been verified by practical measurements on an RF signal modulated with each of the waveforms. The resulting deviations from the simulated values are within the requirements

of the HAC standard.

The AIA (Audio Interference Analyzer) is an USB powered electronic sensor to evaluate signals in the frequency range 698MHz - 6 GHz. It contains RMS detector and audio frequency circuits for sampling of the RF envelope.

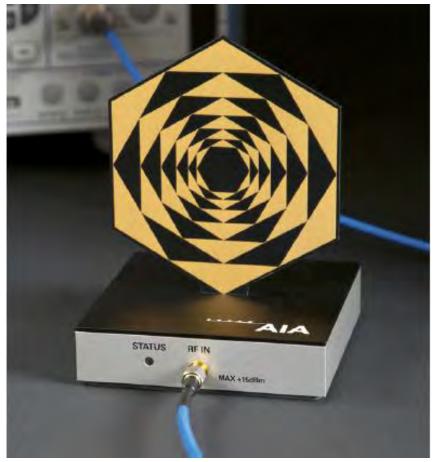


Fig. 5 AIA Front View





9.2 MIF measurement with the AIA

The MIF is measured with the AIA as follows:

- 1. Connect the AIA via USB to the DASY5 PC and verify the configuration settings.
- 2. Couple the RF signal to be evaluated to an AIA via cable or antenna.
- 3. Generate a MIF measurement job for the unknown signal and select the measurement port and timing settings.
- 4. Document the results via the post processor in a report.

9.3 Test equipment for the MIF measurement

No.	Name	Туре	Serial Number	Manufacturer
01	01 Signal Generator E4483C		MY49071430	Anritsu
02	AIA SE UMS 170 CB		1029	SPEAG
03	BTS	CMW500	166370	R&S

9.4 Test signal validation

The signal generator (E4438C) is used to generate a 1GHz signal with different modulation in the below table based on the ANSI C63.19-2011. The measured MIF with AIA are compared with the target values given in ANSI C63.19-2011 table D.3, D.4 and D5.

Pulse modulation	Target MIF	Measured MIF	Deviation
0.5ms pulse, 1000Hz repetition rate	-0.9 dB	-0.9 dB	0 dB
1ms pulse, 100Hz repetition rate	+3.9 dB	+3.7 dB	0.2 dB
0.1ms pulse, 100Hz repetition rate	+10.1 dB	+10.0 dB	0.1 dB
10ms pulse, 10Hz repetition rate	+1.6 dB	+1.7 dB	0.1 dB
Sine-wave modulation	Target MIF	Measured MIF	Deviation
1 kHz, 80% AM	-1.2 dB	-1.3 dB	0.1 dB
1 kHz, 10% AM	-9.1 dB	-9.0 dB	0.1 dB
1 kHz, 1% AM	-19.1 dB	-18.9 dB	0.2 dB
100 Hz, 10% AM	-16.1 dB	-16.0 dB	0.1 dB
10 kHz, 10% AM	-21.5 dB	-21.6 dB	0.1 dB
Transmission protocol	Target MIF	Measured MIF	Deviation
GSM; full-rate version 2; speech codec/handset low	+3.5 dB	+3.47 dB	0.03 dB
WCDMA; speech; speech codec low; AMR 12.2 kb/s	-20.0 dB	-19.8 dB	0.2 dB
CDMA; speech; SO3; RC3; full frame rate; 8kEVRC	-19.0 dB	-19.1 dB	0.1 dB
CDMA; speech; SO3; RC1; 1/8 th frame rate; 8kEVRC	+3.3 dB	+3.44 dB	0.14 dB





9.5 DUT MIF results

Based on the KDB285076D01v05, the handset can also use the MIF values predetermined by the test equipment manufacturer. MIF values applied in this test report were provided by the HAC equipment provider of SPEAG, and the worst values for all air interface are listed below to be determine the Low-power Exemption.

Typical MIF levels in ANSI C63.19-2011				
Transmission protocol	Modulation interference			
	factor			
GSM-FDD (TDMA, GMSK)	+3.63 dB			
EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	-1.82dB			
UMTS-FDD(WCDMA, AMR)	-25.43dB			
UMTS-FDD (HSPA)	-20.75dB			
LTE-FDD (SC-FDMA, 1RB, 20MHz, QPSK)	-15.63 dB			
LTE-FDD (SC-FDMA, 1RB, 20MHz, 16QAM)	-9.76 dB			
LTE-FDD (SC-FDMA, 1RB, 20MHz, 64QAM)	-9.93 dB			
LTE-TDD (SC-FDMA, 1RB, 20MHz, QPSK)	-1.62 dB			
LTE-TDD (SC-FDMA, 1RB, 20MHz, 16QAM)	-1.44 dB			
LTE-TDD (SC-FDMA, 1RB, 20MHz, 64QAM)	-1.54 dB			
LTE-TDD(SC-FDMA,1RB,20MHz,QPSK,UL	-3.41 dB			
Subframe=2,3,4,7,8,9)	-3.41 dB			
LTE-TDD(SC-FDMA,1RB,20MHz,16QAM,UL	-3.17 dB			
Subframe=2,3,4,7,8,9)	-3.17 08			
LTE-TDD(SC-FDMA,1RB,20MHz,64QAM,UL	-3.31 dB			
Subframe=2,3,4,7,8,9)	-3.31 0B			
IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	-5.90 dB			
IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	-5.17 dB			
IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	-3.37 dB			
IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	-2.02 dB			
IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	-0.36dB			
IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	-15.80 dB			
IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	-5.82 dB			
IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	-12.23dB			





10 Evaluation for low-power exemption

10.1 Product testing threshold

There are two methods for exempting an RF air interface technology from testing. The first method requires evaluation of the MIF for the worst-case operating mode. An RF air interface technology of a device is exempt from testing when its average antenna input power plus its MIF is \leq 17 dBm for any of its operating modes. The second method does not require determination of the MIF. The RF emissions testing exemption shall be applied to an RF air interface technology in a device whose peak antenna input power, averaged over intervals \leq 50 μ s20, is \leq 23 dBm. An RF air interface technology that is exempted from testing by either method shall be rated as M4.

The first method is used to be exempt from testing for the RF air interface technology in this report.

Band	Average power (dBm)	MIF (dB)	Sum (dBm)	C63.19 Tested
GSM 850 - Voice	33.5	3.63	37.13	Yes
GSM 850 - EDGE	29.5	-1.82	27.68	Yes*
GSM 1900 - Voice	30	3.63	33.63	Yes
GSM 1900 - EDGE	26	-1.82	24.18	Yes*
WCDMA 850 - RMC	25	-25.43	-0.43	No
WCDMA 850 - HSPA	24.5	-20.75	3.75	No
WCDMA 1700 - RMC	25	-25.43	-0.43	No
WCDMA 1700 - HSPA	24.5	-20.75	3.75	No
WCDMA 1900 - RMC	24.5	-25.43	-0.93	No
WCDMA 1900 - HSPA	24.5	-20.75	3.75	No
LTE Band 12 QPSK	25	-15.63	9.37	No
LTE Band 25 QPSK	25	-15.63	9.37	No
LTE Band 26 QPSK	25	-15.63	9.37	No
LTE Band 66 QPSK	25	-15.63	9.37	No
LTE Band 71 QPSK	25	-15.63	9.37	No
LTE Band 41 PC2 QPSK	28	-1.62	26.38	Yes
LTE Band 41 PC3 QPSK	25	-3.41	21.59	Yes
LTE Band 12 16QAM	24	-9.76	14.24	No
LTE Band 25 16QAM	24	-9.76	14.24	No
LTE Band 26 16QAM	24	-9.76	14.24	No
LTE Band 66 16QAM	24	-9.76	14.24	No
LTE Band 71 16QAM	24	-9.76	14.24	No
LTE Band 41 PC2	27	-1.44	25.56	Yes

10.2 Conducted power

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16QAM				
LTE Band 41 PC3	24	-3.17	20.83	Yes
16QAM	24	-5.17	20.05	165
LTE Band 12 64QAM	23	-9.93	13.07	No
LTE Band 25 64QAM	23	-9.93	13.07	No
LTE Band 26 64QAM	23	-9.93	13.07	No
LTE Band 66 64QAM	23	-9.93	13.07	No
LTE Band 71 64QAM	23	-9.93	13.07	No
LTE Band 41 PC2	26	-1.54	24.46	Yes
64QAM	20	-1.54	24.40	165
LTE Band 41 PC3	22	2.24	10.00	Vee
64QAM	23	-3.31	19.69	Yes
WiFi-2.4G	21.8	-2.02	19.78	Yes
WiFi-5G	20	-5.82	14.18	No

*Note: For GSM bands, EDGE modes were not evaluated as Voice modes were found to the worstcase modes for the GSM air interface.

10.3 Conclusion

According to the above table, the sums of average power and MIF for WCDMA and LTE FDD are less than 17dBm. So it is measured for GSM WiFi2.4G and LTE TDD bands. The WCDMA and LTE FDD are exempt from testing and rated as M4.





11 RF TEST PROCEDUERES

The evaluation was performed with the following procedure:

- 1) Confirm proper operation of the field probe, probe measurement system and other instrumentation and the positioning system.
- 2) Position the WD in its intended test position. The gauge block can simplify this positioning.
- 3) Configure the WD normal operation for maximum rated RF output power, at the desired channel and other operating parameters (e.g., test mode), as intended for the test.
- 4) The center sub-grid shall centered on the center of the T-Coil mode axial measurement point or the acoustic output, as appropriate. Locate the field probe at the initial test position in the50 mm by 50 mm grid, which is contained in the measurement plane. If the field alignment method is used, align the probe for maximum field reception.
- 5) Record the reading.
- 6) Scan the entire 50 mm by 50 mm region in equally spaced increments and record the reading at each measurement point. The distance between measurement points shall be sufficient to assure the identification of the maximum reading.
- 7) Identify the five contiguous sub-grids around the center sub-grid whose maximum reading is the lowest of all available choices. This eliminates the three sub-grids with the maximum readings. Thus, the six areas to be used to determine the WD's highest emissions are identified.
- 8) Identify the maximum field reading within the non-excluded sub-grids identified in Step 7)
- 9) Evaluate the MIF and add to the maximum steady-state rms field-strength reading to obtain the RF audio interference level..
- 10) Compare this RF audio interference level with the categories and record the resulting WD category rating.





12 Measurement Results (E-Field)

Freq	luency	Measured	Denne Driff (dD)	Ostanama
MHz	Channel	Value(dBV/m)	Power Drift (dB)	Category
		GSM 8	350	
848.8	251	35.40	0.02	M4(see Fig B.1)
836.6	190	35.29	-0.06	M4
824.2	128	34.37	-0.03	M4
		GSM 1	900	
1909.8	810	28.61	0.01	M4(see Fig B.2)
1880	661	28.14	0.03	M4
1850.2	512	26.05	-0.09	M4
		LTE Band 41 QPS	(Power Class 2	
2680	41490	21.55	-0.06	M4
2636.5	41055	21.90	0.00	M4
2593	40620	21.99	0.04	M4
2549.5	40185	23.00	-0.02	M4(see Fig B.3)
2506	39750	21.71	-0.01	M4
		LTE Band 41 16QAI	M Power Class 2	
2680	41490	20.68	-0.05	M4
2636.5	41055	20.76	0.07	M4
2593	40620	20.97	0.08	M4
2549.5	40185	21.95	-0.03	M4
2506	39750	20.68	-0.08	M4
	·	LTE Band 41 64QA	V Power Class 2	
2680	41490	20.31	-0.03	M4
2636.5	41055	20.58	0.04	M4
2593	40620	19.79	0.02	M4
2549.5	40185	19.67	0.06	M4
2506	39750	20.73	0.03	M4
	·	LTE Band 41 QPS	Ver Class 3	
2680	41490	21.28	0.02	M4(see Fig B.4)
2636.5	41055	19.87	0.06	M4
2593	40620	19.37	0.02	M4
2549.5	40185	18.36	0.04	M4
2506	39750	18.90	0.05	M4
		LTE Band 41 16QA	M Power Class 3	
2680	41490	19.05	0.06	M4
2636.5	41055	18.72	0.07	M4
2593	40620	18.44	0.08	M4
2549.5	40185	17.05	0.02	M4
2506	39750	18.01	-0.06	M4

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CAICT

	LTE Band 41 64QAM Power Class 3					
2680	41490	18.39	0.07	M4		
2636.5	41055	19.64	0.03	M4		
2593	40620	17.78	0.07	M4		
2549.5	40185	17.30	-0.01	M4		
2506	39750	17.85	0.03	M4		
	WiFi2.4G 11b					
2462	11	24.67	-0.04	M4(see Fig B.5)		
2437	6	23.97	-0.08	M4		
2412	1	23.19	0	M4		

Note: For LTE Band 41, UL-DL Configuration 1 was used to evaluate Power Class 2 and UL-DL Configuration 1 was used to evaluate Power Class 3.

13 ANSIC 63.19-2011 LIMITS

WD RF audio interference level categories in logarithmic units

Emission categories	< 960 MHz	E-field emissions
Category M1	50 to 55	dB (V/m)
Category M2	45 to 50	dB (V/m)
Category M3	40 to 45	dB (V/m)
Category M4	< 40	dB (V/m)
Emission categories	> 960 MHz	E-field emissions
Category M1	40 to 45	dB (V/m)
Category M2	35 to 40	dB (V/m)
Category M3	30 to 35	dB (V/m)
		dB (V/m)





14 MEASUREMENT UNCERTAINTY

No.	Error source	Туре	Uncertainty Value(%)	Prob. Dist.	k	ciE	Standard Uncertainty (%) $\mu_i^{'}$ (%)E	Degree of freedom V _{eff} or <i>v</i> i
Meas	urement System		<u>·</u>			1		
1	Probe Calibration	В	5.	N	1	1	5.1	8
2	Axial Isotropy	В	4.7	R	$\sqrt{3}$	1	2.7	×
3	Sensor Displacement	В	16.5	R	$\sqrt{3}$	1	9.5	∞
4	Boundary Effects	В	2.4	R	$\sqrt{3}$	1	1.4	∞
5	Linearity	В	4.7	R	$\sqrt{3}$	1	2.7	×
6	Scaling to Peak Envelope Power	В	2.0	R	$\sqrt{3}$	1	1.2	×
7	System Detection Limit	В	1.0	R	$\sqrt{3}$	1	0.6	∞
8	Readout Electronics	В	0.3	N	1	1	0.3	∞
9	Response Time	В	0.8	R	$\sqrt{3}$	1	0.5	∞
10	Integration Time	В	2.6	R	$\sqrt{3}$	1	1.5	8
11	RF Ambient Conditions	В	3.0	R	$\sqrt{3}$	1	1.7	×
12	RF Reflections	В	12.0	R	$\sqrt{3}$	1	6.9	∞
13	Probe Positioner	В	1.2	R	$\sqrt{3}$	1	0.7	×
14	Probe Positioning	А	4.7	R	$\sqrt{3}$	1	2.7	×
15	Extra. And Interpolation	В	1.0	R	$\sqrt{3}$	1	0.6	×
Test	Sample Related			•		•		
16	Device Positioning Vertical	В	4.7	R	$\sqrt{3}$	1	2.7	×
17	Device Positioning Lateral	В	1.0	R	$\sqrt{3}$	1	0.6	∞
18	Device Holder and Phantom	В	2.4	R	$\sqrt{3}$	1	1.4	∞
19	Power Drift	В	5.0	R	$\sqrt{3}$	1	2.9	×





20	AIA measurement	В	12	R	$\sqrt{3}$	1	6.9	×
Pha	Phantom and Setup related							
21	Phantom Thickness	В	2.4	R	$\sqrt{3}$	1	1.4	∞
Comb	Combined standard uncertainty(%)						16.2	
Expanded uncertainty (confidence interval of 95 %)		ı	$u_e = 2u_c$	Ν	k=:	2	32.4	

15 MAIN TEST INSTRUMENTS

Table 1: List of Main Instruments

No.	Name	Туре	Serial Number	Calibration Date	Valid Period
01	Signal Generator	E4483C	MY49071430	February 01, 2021	One Year
02	Power meter	NRP2	106276	May 11, 2021	One year
03	Power sensor	NRP6A	101369	May 11, 2021	One year
04	Amplifier	60S1G4	0331848	No Calibration Re	quested
05	E-Field Probe	EF3DV3	4060	May 21, 2021	One year
06	DAE	SPEAG DAE4	1524	October 08, 2021	One year
07	HAC Dipole	CD835V3	1023	August 24, 2021	One year
08	HAC Dipole	CD1880V3	1018	August 24, 2021	One year
09	HAC Dipole	CD2450V3	1021	August 24, 2021	One year
10	HAC Dipole	CD2600V3	1017	August 24, 2021	One year
11	BTS	CMW500	166370	June 25,2021	One year
12	AIA	SE UMS 170 CB	1029	No Calibration Re	quested

16 CONCLUSION

The HAC measurement indicates that the EUT complies with the HAC limits of the ANSIC63.19-2011. The total M-rating is **M4.**

END OF REPORT BODY





ANNEX A TEST LAYOUT



Picture A1:HAC RF System Layout





ANNEX B TEST PLOTS

HAC RF E-Field GSM 850 High

Date: 2021-11-25 Electronics: DAE4 Sn1524 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³ Ambient Temperature: 22.0°C Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3 Probe: EF3DV3 - SN4060;ConvF(1, 1, 1)

E Scan - ER3DV6 - 2011: 15 mm from Probe Center to the Device

3/Hearing Aid Compatibility Test (101x101x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mm Reference Value = 47.44 V/m; Power Drift = 0.02 dB Applied MIF = 3.47 dB RF audio interference level = 35.40 dBV/m

Emission category: M4

MIF scaled E-fleid				
Grid 1 M4	Grid 2 M4	Grid 3 M4		
35.2 dBV/m	35.33 dBV/m	34.26 dBV/m		
Grid 4 M4	Grid 5 M4	Grid 6 M4		
35.28 dBV/m	35.4 dBV/m	34.56 dBV/m		
Grid 7 M4	Grid 8 M4	Grid 9 M4		
35.18 dBV/m	35.38 dBV/m	34.63 dBV/m		

MIF scaled E-field





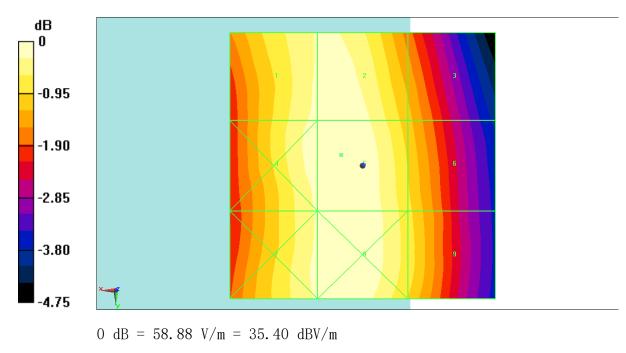


Fig B.1 HAC RF E-Field GSM 850 High





HAC RF E-Field GSM 1900 Middle

Date: 2021-11-25 Electronics: DAE4 Sn1524 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³ Ambient Temperature: 22.0°C Communication System: PCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3 Probe: EF3DV3 - SN4060;ConvF(1, 1, 1)

E Scan - ER3DV6 - 2011: 15 mm from Probe Center to the Device 2

2/Hearing Aid Compatibility Test (101x101x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mmReference Value = 17.85 V/m; Power Drift = 0.01 dB Applied MIF = 3.50 dB RF audio interference level = 28.61 dBV/m

MIL SCALEU E HELU				
Grid 1 M4	Grid 2	M4	Grid 3	M4
26.81 dBV/m	27.05	dBV/m	26. 76	dBV/m
Grid 4 M4	Grid 5	M4	Grid 6	M4
27.78 dBV/m	28.61	dBV/m	27. 99	dBV/m
Grid 7 M3	Grid 8	МЗ	Grid 9	M4
30.72 dBV/m	30. 78	dBV/m	28.96	dBV/m

MIF scaled E-field





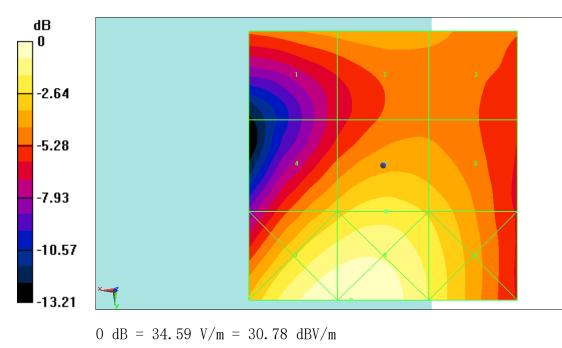


Fig B.2 HAC RF E-Field GSM 1900 High





HAC RF E-Field LTE Band41 Power Class 2 QPSK CH40185

Date: 2021-11-30 Electronics: DAE4 Sn1524 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Ambient Temperature: 22.0°C Communication System: LTE Band41; Frequency: 2549.5 MHz; Duty Cycle: 1: 1.58 Probe: EF3DV3 - SN4060;ConvF(1, 1, 1)

E Scan - ER3DV6 - 2011: 15 mm from Probe Center to the Device 3

3/Hearing Aid Compatibility Test (101x101x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mmReference Value = 17.59 V/m; Power Drift = -0.02 dBApplied MIF = -1.79 dBRF audio interference level = 23.00 dBV/m

MIL SCALEU L HELU				
Grid 1 M4	Grid 2 M4	Grid 3 M4		
20.19 dBV/m	20.54 dBV/m	20.66 dBV/m		
Grid 4 M4	Grid 5 M4	Grid 6 M4		
21.26 dBV/m	23 dBV/m	22.79 dBV/m		
Grid 7 M4	Grid 8 M4	Grid 9 M4		
22.52 dBV/m	23.39 dBV/m	22.92 dBV/m		

MIF scaled E-field





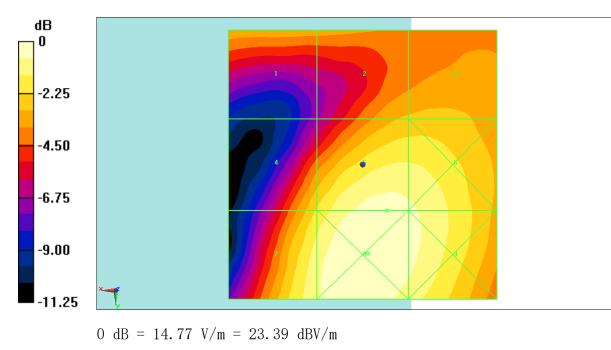


Fig B.3HAC RF E-Field LTE Band41 Power Class 2 QPSK CH40185





HAC RF E-Field LTE Band41 Power Class 3 QPSK CH41490

Date: 2021-11-30 Electronics: DAE4 Sn1524 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³ Ambient Temperature: 22.0°C Communication System: LTE Band41; Frequency: 2680 MHz; Duty Cycle: 1:1.58 Probe: EF3DV3 - SN4060;ConvF(1, 1, 1)

E Scan - ER3DV6 - 2011: 15 mm from Probe Center to the

Device/Hearing Aid Compatibility Test (101x101x1): Interpolated

grid: dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mm Reference Value = 14.98 V/m; Power Drift = 0.02 dB Applied MIF = -3.29 dB RF audio interference level = 21.28 dBV/m

Grid 1 M4	Grid 2 M4	Grid 3 M4		
22.16 dBV/m	22.01 dBV/m	20.28 dBV/m		
Grid 4 M4	Grid 5 M4	Grid 6 M4		
21.52 dBV/m	21.2 dBV/m	19.27 dBV/m		
Grid 7 M4	Grid 8 M4	Grid 9 M4		
21.28 dBV/m	20.9 dBV/m	18.04 dBV/m		

MIF scaled E-field





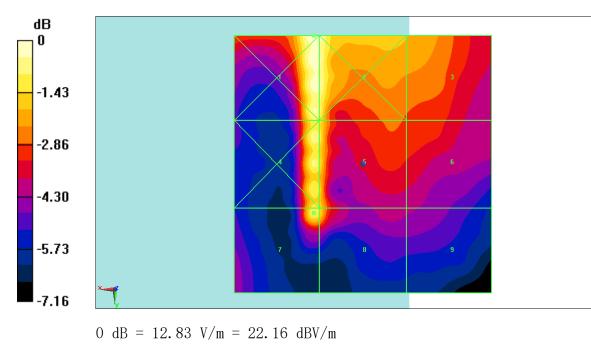


Fig B.4 HAC RF E-Field LTE Band41 Power Class 3 QPSK CH41490





HAC RF E-Field WiFI2.4G 11b

Date: 2021-12-11 Electronics: DAE4 Sn1524 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³ Ambient Temperature: 22.0°C Communication System: WiFi2.4G; Frequency: 2462 MHz; Duty Cycle: 1:1 Probe: EF3DV3 - SN4060;ConvF(1, 1, 1)

E Scan - ER3DV6 - 2011: 15 mm from Probe Center to the Device

3/Hearing Aid Compatibility Test (101x101x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mm Reference Value = 44.08 V/m; Power Drift = -0.04 dB Applied MIF = -6.34 dB RF audio interference level = 24.67 dBV/m

mii beaica E	MIL SCALEU L'HEIU				
Grid 1 M4	Grid 2 M4	Grid 3 M4			
22.94 dBV/m	23.75 dBV/	m 23.31 dBV/m			
Grid 4 M4	Grid 5 M4	Grid 6 M4			
24.08 dBV/m	24.67 dBV/	m 24.05 dBV/m			
Grid 7 M4	Grid 8 M4	Grid 9 M4			
25.15 dBV/m	25.63 dBV/	m 24.77 dBV/m			

MIF scaled E-field





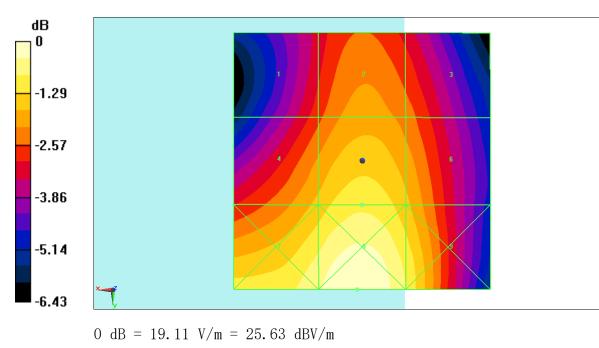


Fig B.5 HAC RF E-Field WiFi2.4G 11b





ANNEX C SYSTEM VALIDATION RESULT

E SCAN of Dipole 835 MHz Date: 2021-11-25 Electronics: DAE4 Sn1524 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon r = 1$; $\rho = 1000$ kg/m3 Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1 Probe: EF3DV3 - SN4060;ConvF(1, 1, 1)

E Scan - measurement distance from the probe sensor center to CD835 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x361x1): Interpolated

grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

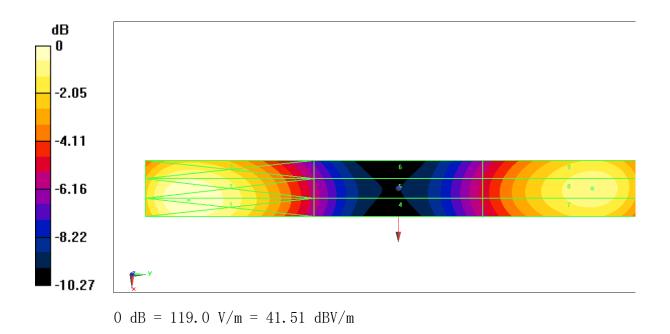
Reference Value = 128.4 V/m; Power Drift = 0.01 dB

Applied MIF = 0.00 dB RF audio interference level = 40.63 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M3	Grid 2 M3	Grid 3 M3
41.51 dBV/m	41.51 dBV/m	40.83 dBV/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
36.29 dBV/m	36.32 dBV/m	36.11 dBV/m
Grid 7 M3	Grid 8 M3	Grid 9 M3
40.51 dBV/m	40.63 dBV/m	40.47 dBV/m





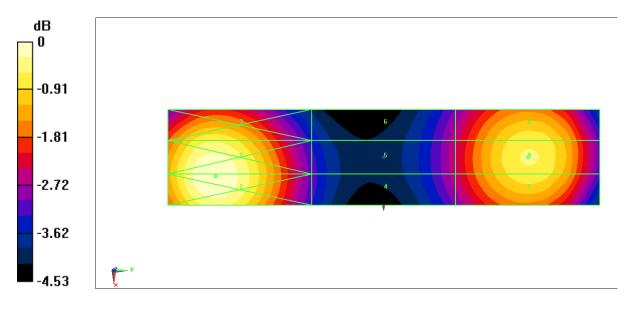


E SCAN of Dipole 1880MHz Date: 2021-11-25

Electronics: DAE4 Sn1524 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³ Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1 Probe: EF3DV3 - SN4060;ConvF(1, 1, 1) **E Scan - measurement distance from the probe sensor center to CD1880 = 15mm 2/Hearing Aid Compatibility Test at 15mm distance (41x181x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mm Reference Value = 133.2 V/m; Power Drift = 0.01 dB Applied MIF = 0.00 dB RF audio interference level = 39.01 dBV/m **Emission category: M2**

MIF scaled E-field

Grid 1 M2	Grid 2 M2	Grid 3 M2
39.56 dBV/m	39.55 dBV/m	38.92 dBV/m
Grid 4 M2	Grid 5 M2	Grid 6 M2
37.06 dBV/m	37.11 dBV/m	37.03 dBV/m
Grid 7 M2	Grid 8 M2	Grid 9 M2
38.87 dBV/m	39.01 dBV/m	38.86 dBV/m



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



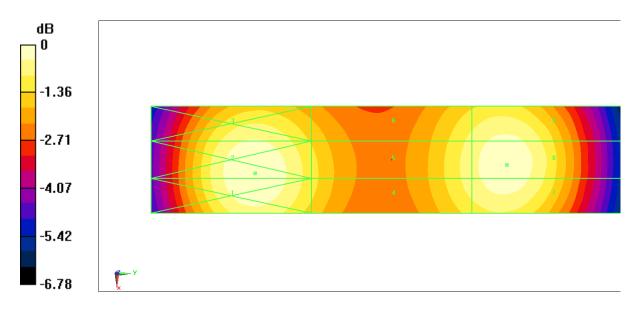


E SCAN of Dipole 2450 MHz Date: 2021-12-11

Electronics: DAE4 Sn1524 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³ Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1 Probe: EF3DV3 - SN4060;ConvF(1, 1, 1) **E Scan - measurement distance from the probe sensor center to CD2450 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mm Reference Value = 69.45 V/m; Power Drift = 0.01 dB Applied MIF = 0.00 dB RF audio interference level = 38.64 dBV/m **Emission category: M2**

MIF scaled E-field

Grid 1 M2 38.75 dBV/m	Grid 3 M2 38.36 dBV/m
Grid 4 M2 38.14 dBV/m	Grid 6 M2 38.02 dBV/m
Grid 7 M2 38.57 dBV/m	Grid 9 M2 38.44 dBV/m



0 dB = 86.75 V/m = 38.77 dBV/m



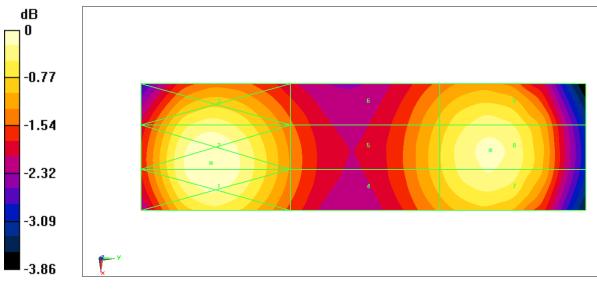


E SCAN of Dipole 2600 MHz Date: 2021-11-30

Electronics: DAE4 Sn1524 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m³ Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1 Probe: EF3DV3 - SN4060;ConvF(1, 1, 1) **Dipole E-Field measurement (E-field scan for ANSI C63.19-2007 & -2011 compliance)/E Scan - measurement distance from the probe sensor center to CD2600 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x141x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mm Reference Value = 64.26 V/m; Power Drift = 0.01 dB Applied MIF = 0.00 dB RF audio interference level = 38.80 dBV/m **Emission category: M2**

MIF scaled E-field

Grid 1 M2 38.95 dBV/m		Grid 3 M2 38.59 dBV/m
	Grid 5 M2 38.18 dBV/m	Grid 6 M2 38.03 dBV/m
Grid 7 M2 38.72 dBV/m		Grid 9 M2 38.58 dBV/m



0 dB = 88.75 V/m = 38.96 dBV/m





ANNEX D PROBE CALIBRATION CERTIFICATE

lient CTTL-BJ (Aud	en)	Company of the second s	
		Certificate No: E	EF3-4060_May21
CALIBRATION	CERTIFICATE		Read the second
Dbject	EF3DV3- SN:4060		
Calibration procedure(s)	QA CAL-02.v9, QA Calibration procedu evaluations in air	CAL-25.v7 ure for E-field probes optimized fo	or close near field
Calibration date:	May 21, 2021		
Calibration Equipment used (M&	1		Rebaduled Calibration
Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration Apr-22
	SN: 104778	09-Apr-21 (No. 217-03291/03292)	Apr-22
Power meter NRP	CNI 103244	09-Apr-21 (No. 217-03291)	Apr-22
Power sensor NRP-Z91	SN: 103244 SN: 103245	09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292)	Apr-22 Apr-22
	SN: 103244 SN: 103245 SN: CC2552 (20x)	09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343)	Apr-22 Apr-22
Power sensor NRP-Z91 Power sensor NRP-Z91	SN: 103245	09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-789_Dec20)	Apr-22 Apr-22 Dec-21
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator	SN: 103245 SN: CC2552 (20x)	09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343)	Apr-22 Apr-22
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ER3DV6	SN: 103245 SN: CC2552 (20x) SN: 789 SN: 2328	09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-789_Dec20)	Apr-22 Apr-22 Dec-21
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4	SN: 103245 SN: CC2552 (20x) SN: 789	09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-789_Dec20) 05-Oct-20 (No. ER3-2328_Oct20)	Apr-22 Apr-22 Dec-21 Oct-21 Scheduled Check In house check: Jun-22
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ER3DV6 Secondary Standards Power meter E44198 Power sensor E4412A	SN: 103245 SN: CC2552 (20x) SN: 789 SN: 2328 ID SN: GB41293874 SN: MY41498087	09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-789_Dec20) 05-Oct-20 (No. ER3-2328_Oct20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20)	Apr-22 Apr-22 Dec-21 Oct-21 Scheduled Check In house check: Jun-22 In house check: Jun-22
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ER3DV6 Secondary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A	SN: 103245 SN: CC2552 (20x) SN: 789 SN: 2328 ID SN: GB41293874 SN: MY41498087 SN: 000110210	09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-789_Dec20) 05-Oct-20 (No. ER3-2328_Oct20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20)	Apr-22 Apr-22 Dec-21 Oct-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 In house check: Jun-22
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ER3DV6 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C	SN: 103245 SN: CC2552 (20x) SN: 789 SN: 2328 ID SN: GB41293874 SN: MY41498087 SN: 000110210 SN: US3642U01700	09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-789_Dec20) 05-Oct-20 (No. ER3-2328_Oct20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20)	Apr-22 Apr-22 Dec-21 Oct-21 Scheduled Check In house check: Jun-22 In house check: Jun-22
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ER3DV6 Secondary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A	SN: 103245 SN: CC2552 (20x) SN: 789 SN: 2328 ID SN: GB41293874 SN: MY41498087 SN: 000110210 SN: US3642U01700 SN: US41080477	09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-789_Dec20) 05-Oct-20 (No. ER3-2328_Oct20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-99 (in house check Jun-20) 31-Mar-14 (in house check Oct-20)	Apr-22 Apr-22 Dec-21 Oct-21 Scheduled Check In house check: Jun-22 In house check: Oct-21
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ER3DV6 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C Network Analyzer E8358A	SN: 103245 SN: CC2552 (20x) SN: 789 SN: 2328 ID SN: GB41293874 SN: 000110210 SN: US3642U01700 SN: US41080477	09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-789_Dec20) 05-Oct-20 (No. ER3-2328_Oct20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-99 (in house check Jun-20)	Apr-22 Apr-22 Dec-21 Oct-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 In house check: Jun-22
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ER3DV6 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C	SN: 103245 SN: CC2552 (20x) SN: 789 SN: 2328 ID SN: GB41293874 SN: MY41498087 SN: 000110210 SN: US3642U01700 SN: US41080477	09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-789_Dec20) 05-Oct-20 (No. ER3-2328_Oct20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-99 (in house check Jun-20) 31-Mar-14 (in house check Oct-20) Function	Apr-22 Apr-22 Dec-21 Oct-21 Scheduled Check In house check: Jun-22 In house check: Oct-21
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ER3DV6 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C Network Analyzer E8358A	SN: 103245 SN: CC2552 (20x) SN: 789 SN: 2328 ID SN: GB41293874 SN: 000110210 SN: US3642U01700 SN: US41080477	09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-789_Dec20) 05-Oct-20 (No. ER3-2328_Oct20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-99 (in house check Jun-20) 31-Mar-14 (in house check Oct-20) Function	Apr-22 Apr-22 Dec-21 Oct-21 Scheduled Check In house check: Jun-22 In house check: Oct-21
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ER3DV6 Secondary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A RF generator HP 8648C Network Analyzer E8358A Calibrated by: Approved by:	SN: 103245 SN: CC2552 (20x) SN: 789 SN: 2328 ID SN: GB41293874 SN: MY41498087 SN: 000110210 SN: US3642U01700 SN: US41080477 Name Jeffrey Katzman Katja Pokovic	09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-789_Dec20) 05-Oct-20 (No. ER3-2328_Oct20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-99 (in house check Jun-20) 31-Mar-14 (in house check Oct-20) Function Laboratory Technician	Apr-22 Apr-22 Dec-21 Oct-21 Scheduled Check In house check: Jun-22 In house check: Oct-21





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



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

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Accreditation No.: SCS 0108

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

Gloceary

Glossary.	
NORMx,y,z	sensitivity in free space
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
	incident E-field orientation normal to probe axis
En	incident E-field orientation parallel to probe axis
Ep	
Polarization ϕ	φ rotation around probe axis
Polarization 9	9 rotation around an axis that is in the plane normal to probe axis (at measurement center).
1 Oldricution of	i = 0 = 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 electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005
 b) CTIA Test Plan for Hearing Aid Compatibility, Rev 3.1.1, May 2017

Methods Applied and Interpretation of Parameters:

- NORMx, y, z: Assessed for E-field polarization ϑ = 0 for XY sensors and ϑ = 90 for Z sensor (f \leq 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). .
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW . signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal . characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- Spherical isotropy (3D deviation from isotropy): in a locally homogeneous field realized using an open waveguide setup.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip . (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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DASY/EASY - Parameters of Probe: EF3DV3 - SN:4060

Basic Calibration Parameters

Sasie Guilbration Full	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)$	0.79	0.74	1.27	± 10.1 %
DCP (mV) ^B	95.0	97.0	94.2	

Calibration results for Frequency Response (30 MHz - 6 GHz)

Frequency MHz	Target E-Field V/m	Measured E-field (En) V/m	Deviation E-normal in %	Measured E-field (Ep) V/m	Deviation E-normal in %	Unc (k=2) %
30	77.2	77.3	0.2%	77.1	-0.1%	± 5.1 %
100	77.2	78.3	1.4%	78.4	1.6%	± 5.1 %
450	77.1	78.2	1.4%	78.4	1.7%	± 5.1 %
600	77.1	77.8	0.9%	77.8	1.0%	± 5.1 %
750	77.0	77.5	0.7%	77.5	0.7%	± 5.1 %
1800	143.1	139.1	-2.7%	139.6	-2.4%	± 5.1 %
2000	135.0	131.3	-2.7%	131.6	-2.5%	± 5.1 %
2200	127.7	123.5	-3.3%	124.5	-2.5%	± 5.1 %
2500	125.5	122.4	-2.5%	123.6	-1.5%	± 5.1 %
3000	79.3	75.6	-4.7%	76.6	-3.4%	± 5.1 %
3500	256.3	246.2	-3.9%	242.9	-4.7%	± 5.1 %
3700	249.5	239.6	-4.0%	238.1	-4.6%	± 5.1 %
5200	50.7	51.3	1.3%	51.4	1.4%	± 5.1 %
5500	49.7	49.4	-0.5%	48.0	-3.4%	± 5.1 %
5800	48.9	48.6	-0.7%	49.5	1.3%	± 5.1 %

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

⁸ Numerical linearization parameter: uncertainty not required.
^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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DASY/EASY - Parameters of Probe: EF3DV3 - SN:4060

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	128.0	± 3.0 %	± 4.7 %
0	CVV	Y	0.00	0.00	1.00		122.6		
		Z	0.00	0.00	1.00	1.1.1	126.8		
10352-	Pulse Waveform (200Hz, 10%)	X	2.34	64.67	9.12	10.00	60.0	±2.8%	± 9.6 %
AAA	1 disc Waveloini (Loonilli 1010)	Y	3.40	68.47	11.14		60.0		
		Z	2.56	65.64	9.75		60.0		
10353-	Pulse Waveform (200Hz, 20%)	X	1.17	62.34	7.11	6.99	80.0	± 1.0 %	± 9.6 %
AAA	Puise Waveloini (20012, 2010)	Y	2.12	67.49	9.84		80.0		
		Z	1.28	63.31	7.74		80.0		
10354-	Pulse Waveform (200Hz, 40%)	X	0.76	62.99	6.54	3.98	95.0	± 0.8 %	± 9.6 %
AAA	Puise Waveloini (20012, 4010)	Y	8.48	81.16	13.43		95.0		
AAA		Z	0.81	63.88	7.07		95.0		
10355-	Pulse Waveform (200Hz, 60%)	X	3.06	72.89	9.44	2.22	120.0	±0.9%	±9.6 %
AAA	Fuise Waveloini (20012, 0010)	Y	20.00	93.01	16.68		120.0		
~~~		Z	20.00	83.16	11.95		120.0		
10387-	QPSK Waveform, 1 MHz	X	1.99	71.10	17.30	1.00	150.0	± 2.0 %	± 9.6 %
AAA		Y	1.93	70.25	16.95		150.0		
		Z	1.93	70.86	17.01		150.0		
10388-	QPSK Waveform, 10 MHz	X	2.40	70.11	17.24	0.00	150.0	± 1.0 %	± 9.6 %
AAA	Gron varaioning to mine	Y	2.46	70.31	17.25	1	150.0		
		Z	2.31	69.59	16.93		150.0		
10396-	64-QAM Waveform, 100 kHz	X	2.06	67.11	17.82	3.01	150.0	± 1.1 %	± 9.6 %
AAA		Y	2.36	69.41	18.81		150.0		
		Z	2.02	66.55	17.38		150.0		1
10399-	64-QAM Waveform, 40 MHz	X	3.50	67.36	16.25	0.00	150.0	± 1.1 %	± 9.6 %
AAA	Of CAN MATCHING TO THE	Y	3.59	67.71	16.35	1	150.0		
rww1		Z	3.45	67.13	16.11		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.72	65.68	15.83	0.00	150.0	± 1.9 %	± 9.6 %
AAA	The second second second second	Y	4.68	65.48	15.66		150.0		
		Z	4.67	65.58	15.76	-	150.0		

Note: For details on UID parameters see Appendix

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

⁸ Numerical linearization parameter: uncertainty not required.
^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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## DASY/EASY - Parameters of Probe: EF3DV3 - SN:4060

#### Sensor Frequency Model Parameters

	Sensor X	Sensor Y	Sensor Z
Frequency Corr. (LF)	0.22	0.23	4.73
Frequency Corr. (HF)	2.82	2.82	2.82

#### Sensor Model Parameters

1301	C1 fF	C2 fF	α V-1	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	Т6
V	37.2	247.97	37.40	5.87	0.02	4.95	0.12	0.10	1.00
~				4.88	0.00	4.96	1.01	0.00	1.00
Y	38.0	248.69	36.33						1.00
Z	35.3	236.35	37.63	4.53	0.04	4.96	0.00	0.13	1.00

#### **Other Probe Parameters**

Sensor Arrangement	Rectangular		
Connector Angle (°)	144.4		
Mechanical Surface Detection Mode	enabled		
Optical Surface Detection Mode	disabled		
Probe Overall Length	337 mm		
Probe Body Diameter	12 m		
Tip Length	25 mm		
Tip Diameter	4 mm		
Probe Tip to Sensor X Calibration Point	1.5 mm		
Probe Tip to Sensor Y Calibration Point	1.5 mm		
Probe Tip to Sensor Z Calibration Point	1.5 mm		

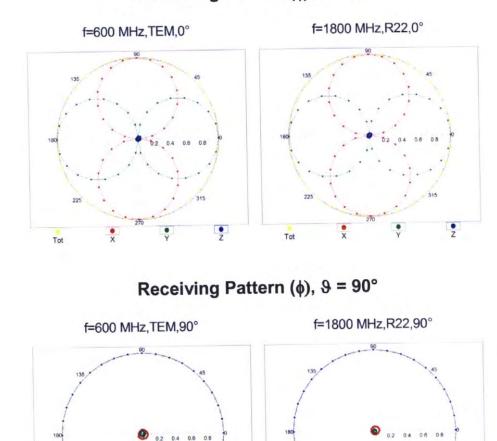
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• Z

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

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• Y

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Tot

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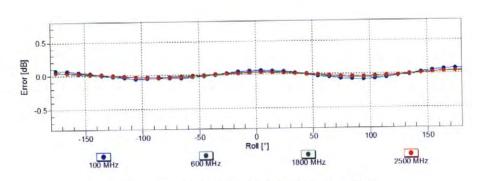
×

Tot



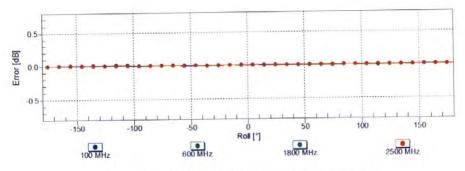


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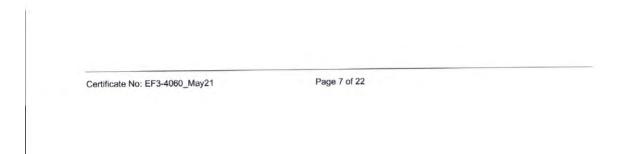


## Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

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



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

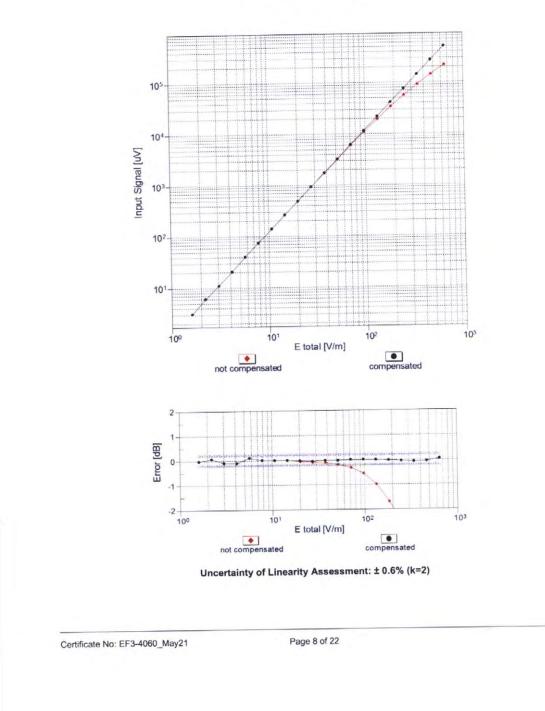






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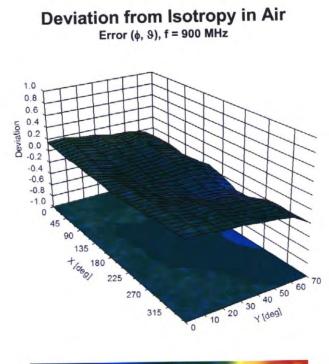
#### Dynamic Range f(E-field) (TEM cell, f = 900 MHz)







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

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#### EF3DV3 - SN:4060

## Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	-	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10030	CAA	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10039	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
A	CAB	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10044	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10049	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10056	CAA	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10058	DAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.83	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 3.5 Mibbs)	WLAN	3.60	± 9.6 %
10061	CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 8 Mbps)	WLAN	8.63	± 9.6 %
10063	CAD		WLAN	9.09	± 9.6 %
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.00	± 9.6 %
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.38	± 9.6 °
10066	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps)	WLAN	10.12	± 9.6 °
10067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 °
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	9.83	± 9.6 °
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.63	± 9.6 °
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.94	± 9.6 °
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	10.30	± 9.6
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)		10.94	± 9.6
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN		
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6
10090	DAC		GSM	6.56	± 9.6
10097	CAC		WCDMA	3.98	± 9.6
10098	DAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6

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10099	0.00	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10102	DAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10103		LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10103	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %
10109	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	-	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10113	CAG	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAG	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10115	CAG	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAG	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
	CAG	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10118	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10119	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6%
10140	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 10-04M)	LTE-FDD	6.53	+9.6 %
10141	CAD	LTE-FDD (SC-FDMA, 100% RB, 13 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10142	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10143	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 10-GAM)	LTE-FDD	6.65	± 9.6 %
10144	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10145	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10146	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 10-04M)	LTE-FDD	6.72	± 9.6 %
10147	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MH2, 04-QAM)	LTE-FDD	6.42	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 10-QAM)	LTE-FDD	6.60	± 9.6 %
10150	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 04-0AM)	LTE-TDD	9.28	± 9.6 %
10151	CAE		LTE-TDD	9.92	± 9.6 %
10152	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	10.05	± 9.6 9
10153	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	5.75	± 9.6 9
10154	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	6.43	± 9.6 °
10155	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	5.79	± 9.6 °
10156	CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	6.49	± 9.6 °
10157	CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.62	± 9.6
10158	CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	5.82	± 9.6
10160	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	6.43	± 9.6
10161	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.58	± 9.6
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	5.46	± 9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	6.21	+ 9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.79	± 9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	5.73	± 9.6
10169	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	6.52	± 9.6
10170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6
10171	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)			
10172	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6
10173	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD		
10174	CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD LTE-FDD	10.25	± 9.6
10175	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)			± 9.6
10176	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6
10177	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	-
10178	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6
10179	AAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 ± 9.6

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	-	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10181	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
0182	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 10 (a))	LTE-FDD	6.50	±9.6 %
0183	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
0184	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10185	CAI	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10186	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10189	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	± 9.6 %
10193	CAE	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	± 9.6 %
10194	AAD	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6 %
10195	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10196	CAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10197	AAE	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10198	CAF	IEEE 802.11n (HT Mixed, 55 Mbps, 64 data) IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %
10219	CAF	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10220	AAF	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbbs, 64-644) IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 10 Mips, Bi otc) IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10223	CAD	IEEE 802.11n (HT Mixed, 50 Mips, 10-04M) IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10224	CAD		WCDMA	5.97	± 9.6 %
10225	CAD	UMTS-FDD (HSPA+) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10226	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 10-QAM) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10227	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 04-QAM)	LTE-TDD	9.22	± 9.6 %
10228	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.48	± 9.6 %
10229	DAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	10.25	± 9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	9.19	± 9.6 %
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.48	± 9.6 %
10232	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	10.25	± 9.6 %
10233	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	9.21	± 9.6 %
10234	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.48	± 9.6 %
10235	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	10.25	± 9.6 %
10236	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	9.21	± 9.6 %
10237	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.48	± 9.6 %
10238	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	10.25	± 9.6 %
10239	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	9.21	± 9.6 %
10240	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.82	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.86	± 9.6 %
10242	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.46	± 9.6 %
10243	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	10.06	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	9.30	± 9.6 %
10246	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.91	± 9.6 9
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	10.09	± 9.6 °
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	9.29	± 9.6 °
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.81	± 9.6 °
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	10.17	± 9.6 °
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	9.24	± 9.6 °
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.90	± 9.6
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	10.14	± 9.6
10254	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	9.20	± 9.6
10255	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.96	± 9.6
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	10.08	± 9.6
10257	CAD	THE TOD (OO FOMA 4000/ DD 1 4 MH+ OPSK)	LTE-TDD	9.34	± 9.6
10258	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6

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0000		LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6 %
10260	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
0261	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
0262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 10 and 1) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10269	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10270	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Sublest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10275	CAD		PHS	11.81	± 9.6 %
10277	CAD	PHS (QPSK) PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10278	CAD	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10279	CAG	CDMA2000, RC1, S055, Full Rate	CDMA2000	3.91	± 9.6 %
10290	CAG	CDMA2000, RC1, S055, Full Rate	CDMA2000	3.46	± 9.6 %
10291	CAG	CDMA2000, RC3, S035, Full Rate	CDMA2000	3.39	± 9.6 %
10292	CAG		CDMA2000	3.50	± 9.6 %
10293	CAG	CDMA2000, RC3, SO3, Full Rate	CDMA2000	12.49	± 9.6 %
10295	CAG	CDMA2000, RC1, SO3, 1/8th Rate 25 fr. LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10297	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 Witz, Gr SK) LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10298	CAF		LTE-FDD	6.39	± 9.6 %
10299	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10300	CAC	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	12.03	± 9.6 %
10301	CAC	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC) IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WIMAX	12.57	± 9.6 %
10302	CAB	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, P0SC, 30 ME) IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	12.52	± 9.6 %
10303	CAB	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	11.86	± 9.6 %
10304	CAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	15.24	± 9.6 %
10305	CAA	IEEE 802.16e WIMAX (31:15, 10ms, 10mHz, 64QAM, F000) IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)	WIMAX	14.67	± 9.6 %
10306	CAA	IEEE 802.16e WIMAX (29:18, 10ms, 10kin2, 040/mi, 1000) IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WIMAX	14.49	± 9.6 %
10307	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 04 AK, 1030) IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WIMAX	14.46	± 9.6 %
10308	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, F030) IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3)	WIMAX	14.58	± 9.6 %
10309	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 180AW, AVIC 2x3)	WIMAX	14.57	± 9.6 %
10310	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3	LTE-FDD	6.06	± 9.6 %
10311	AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	IDEN	10.51	± 9.6 %
10313	AAD	iDEN 1:3	IDEN	13.48	± 9.6 °
10314	AAD	IDEN 1:6	WLAN	1.71	± 9.6 %
10315	AAD	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	8.36	± 9.6 9
10316	AAD	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10317	AAA	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)	Generic	10.00	± 9.6 °
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	6.99	± 9.6 °
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	3.98	± 9.6 °
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	2.22	± 9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	0.97	± 9.6
10356	AAA	Pulse Waveform (200Hz, 80%)		5.10	± 9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic Generic	5.22	± 9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	6.27	± 9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6
10399	AAA	64-QAM Waveform, 40 MHz	WLAN	8.37	± 9.6
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.60	± 9.6
10401	AAA	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.53	± 9.6
10402	AAA	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)	CDMA2000	3.76	± 9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.77	± 9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. A) CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6

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0.110		LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6 %
0410	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
0414	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
0415	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
0416	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	±9.6 %
0417	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
0418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10419	AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10422	AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10423 10424	AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
	AAE	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10425	AAE	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10426	AAE	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10427	AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10430	AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10431	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10432	AAB		LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	WCDMA	8.60	± 9.6 %
10434	AAG	W-CDMA (BS Test Model 1, 64 DPCH) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10435	AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10447	AAA	LTE-FDD (OFDMA, 5 MHz, E-1M 3.1, Clipping 4476) LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	± 9.6 %
10448	AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 4470) LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.51	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHZ, E-1M 3.1, Clipping 44 %)	LTE-FDD	7.48	± 9.6 %
10450	AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	WCDMA	7.59	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	Test	10.00	± 9.6 %
10453	AAC	Validation (Square, 10ms, 1ms)	WLAN	8.63	± 9.6 %
10456	AAC	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WCDMA	6.62	± 9.6 %
10457	AAC	UMTS-FDD (DC-HSDPA)	CDMA2000	6.55	± 9.6 %
10458	AAC	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	8.25	± 9.6 %
10459	AAC	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	WCDMA	2.39	± 9.6 %
10460	AAC	UMTS-FDD (WCDMA, AMR)	LTE-TDD	7.82	± 9.6 %
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	8.30	± 9.6 °
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10463	AAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	7.82	± 9.6 °
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	8.32	± 9.6
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.57	± 9.6
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	7.82	± 9.6
10467	AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	8.32	± 9.6
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.56	± 9.6
10469	AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	7.82	± 9.6
10470	AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	8.32	± 9.6
10471	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.57	± 9.6
10472	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	7.82	± 9.6
10473	AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	8.32	± 9.6
10474	AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.57	± 9.6
10475	AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.32	± 9.6
10477	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)		8.57	± 9.6
10478	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	7.74	± 9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	8.18	± 9.6
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)		8.45	± 9.6
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	7.71	± 9.6
10482	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	8.39	± 9.6
10483	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.47	± 9.6
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	7.59	± 9.6
10485	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	8.38	± 9.6
10486	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	± 9.6

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10488	1	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	± 9.6 %
	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
0489	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
0490	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	± 9.6 %
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	± 9.6 %
10495 10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10496	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10497	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	± 9.6 %
10498	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	± 9.6 %
	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10500	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
10501	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	± 9.6 %
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	± 9.6 %
10503	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10504	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10505	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10506	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 41 OA, 62 OB)	LTE-TDD	8.36	± 9.6 %
10507	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	± 9.6 %
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	± 9.6 %
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 10 Gran, 02 GB)	LTE-TDD	8.51	± 9.6 %
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.42	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10514	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	±9.6 °
10515	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.57	± 9.6 %
10516	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Wibbs, seperation IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	± 9.6 °
10517	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	± 9.6 °
10518	AAF	IEEE 802.11a/n WiFi 5 GHz (OFDM, 5 WiDs, 55pc dc) IEEE 802.11a/n WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	± 9.6
10519	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mibs, 50pc dc)	WLAN	8.12	± 9.6
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mibs, 55ps do) IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	± 9.6
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbbs, 500 cc)	WLAN	8.45	± 9.6
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 30 Mbps, 50pc dc)	WLAN	8.08	± 9.6
10523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 50 Mbps, 90pc dc)	WLAN	8.27	± 9.6
10524	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.36	± 9.6
10525	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.42	± 9.6
10526	AAF	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.21	± 9.6
10527	AAF	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	± 9.6
10528	AAF	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6
10529	AAF	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6
10531	AAF	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.29	± 9.6
10532	AAF	IEEE 802.11ac WiFi (20MHz, MCS7, 899c dc)	WLAN	8.38	± 9.6
10533	AAE	IEEE 802.11ac WiFi (200Hz, MCS0, 99pc dc)	WLAN	8.45	± 9.6
10534	AAE	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc) IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	± 9.6
10535	AAE	IEEE 802.11ac WiFi (40MHz, MCS1, 990c dc)	WLAN	8.32	± 9.6
10536	AAF	IEEE 802.11ac WiFi (40MHz, MCS2, 95pc dc)	WLAN	8.44	± 9.6
10537	AAF	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.54	± 9.6
10538	AAF	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.39	± 9.6
10540	AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.46	± 9.6
10541	AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.65	± 9.6
10542	AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.65	± 9.6
10543	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8.47	± 9.6
10544 10545	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.55	± 9.6

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10546	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	±9.6%
10546	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)	WLAN	8.49	± 9.6 %
10548	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)	WLAN	8.37	± 9.6 %
10548	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.38	± 9.6 %
	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10551	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	±9.6 %
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 %
10553	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 350c dc)	WLAN	8.50	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 350c dc)	WLAN	8.52	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 590c dc) IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 550 dc)	WLAN	8.73	± 9.6 %
10560	AAC	IEEE 802.11ac WIFI (160MHz, MCS3, 99pc dc)	WLAN	8.56	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8.69	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.77	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.25	± 9.6 %
10564	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10565	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10566	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10567	AAC	IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10568	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10569	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)		8.30	± 9.6 %
10570	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	1.99	± 9.6 %
10571	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN		± 9.6 %
10572	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	
10573	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	±9.6 %
10580	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10588	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10589	-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10590	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	± 9.6 %
10591	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10592	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10593	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10594	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10596	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10597	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10598	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS), 30pc dc)	WLAN	8.79	± 9.6 %
10599	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 50pc dc)	WLAN	8.88	± 9.6 %
10600	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, sope dc)	WLAN	8.82	± 9.6 %
10601	AAA		WLAN	8.94	± 9.6 %
10602	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc) IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	± 9.6 %

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		IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
0604	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
0605	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10606	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
0607	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
0608	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, sope dc)	WLAN	8.57	± 9.6 %
10609	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10610	AAC	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10611	AAC	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10612	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
10613	AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 %
10614	AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10615	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10616	AAC	IEEE 802.11ac WiFI (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10617	AAC	IEEE 802.11ac WiFI (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10618	AAC	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 %
10619	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
10620	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 80pc dc)	WLAN	8.77	± 9.6 %
10621	AAC	IEEE 802.11ac WIFI (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10622	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10623	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 50pc dc)	WLAN	8.96	± 9.6 %
10624	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	± 9.6 %
10625	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10626	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.88	± 9.6 %
10627	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.71	± 9.6 %
10628	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10629	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 %
10630	AAC	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10631	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10632	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 30pc dc)	WLAN	8.83	± 9.6 °
10633	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.80	± 9.6 °
10634	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6
10635	AAC	IEEE 802.11ac WiFi (dolWHz, MCS9, sope dc)	WLAN	8.83	± 9.6
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6
10637	AAC		WLAN	8.86	± 9.6
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.85	± 9.6
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.98	± 9.6
10640	AAC	IEEE 802.11ac WIFI (160MHz, MCS4, 90pc dc)	WLAN	9.06	± 9.6
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc) IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 500c dc)	WLAN	9.05	± 9.6
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6
10645	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6
10646	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6
10647	AAC	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6
10648	AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6
10652	AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6
10653	AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6
10654	AAC	LTE-TDD (OFDMA, 13 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6
10655	AAC	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6
10658	AAC	Pulse Waveform (200Hz, 10%) Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6
10659	AAC	Pulse Waveform (200Hz, 20%) Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6
10660	AAC	Pulse Waveform (200Hz, 40%) Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6
10661	AAC	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6
10662	AAC	Bluetooth Low Energy	Bluetooth	2.19	± 9.6
10670 10671	AAC	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6

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10000		IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
10672	AAD	IEEE 802.11ax (20MHz, MCS1, 30pc dc)	WLAN	8.78	± 9.6 %
10673	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10674	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.90	± 9.6 %
10675	AAD		WLAN	8.77	±9.6 %
10676	AAD	IEEE 802.11ax (20MHz, MCS5, 90pc dc) IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10677	AAD	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.78	± 9.6 %
10678	AAD		WLAN	8.89	± 9.6 %
10679	AAD	IEEE 802.11ax (20MHz, MCS8, 90pc dc) IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
10680	AAD	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.62	± 9.6 %
10681	AAG	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.83	± 9.6 %
10682	AAF	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.42	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.26	± 9.6 %
10684	AAC	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.33	± 9.6 %
10685	AAC	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.28	± 9.6 %
10686	AAC	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.45	± 9.6 %
10687	AAE	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.29	± 9.6 %
10688	AAE	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.55	± 9.6 %
10689	AAD	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.29	± 9.6 %
10690	AAE	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.25	± 9.6 %
10691	AAB	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.29	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.25	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc dc)		8.57	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.78	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.91	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN		± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.73	± 9.6 °
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.86	± 9.6 °
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6
10706	AAC	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6
10707	AAC	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	± 9.6
10708	AAC	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6
10709	AAC	IEEE 802.11ax (40MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6
10710	AAC	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.29	± 9.6
10711	AAC	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.39	± 9.6
10712	AAC	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.67	± 9.6
10713	AAC	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	± 9.6
10714	AAC	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	± 9.6
10715	AAC	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	± 9.6
10716	AAC	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	± 9.6
10717	AAC	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8.48	± 9.6
10718	AAC	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.24	± 9.6
10719	AAC	IEEE 802.11ax (80MHz, MCS0, 90pc dc)	WLAN	8.81	± 9.6
10720	AAC	USES 000 44- (00MUL- MCC1 00cc do)	WLAN	8.87	± 9.6
10721	AAC	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6
10722	AAC	(100 100 100 100 100 100 100 100 100 100	WLAN	8.55	± 9.6
10723	AAC	LIERE GOD 11 (0014) MCC1 (00pg do)	WLAN	8.70	± 9.6
10723	AAC	the second the transfer of the second s	WLAN	8.90	± 9.6
10725	AAC	1000 000 11 (0014) MOCO 0000 do)	WLAN	8.74	± 9.6
10726	AAC	(mmm and 11 (2011) - 11007 (00cc do)	WLAN	8.72	± 9.6
10720	AAC	(Den de)	WLAN	8.66	± 9.6

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| 10732         AA           10733         AA           10733         AA           10734         AA           10735         AA           10736         AA           10737         AA           10738         AA           10739         AA           10730         AA           10737         AA           10738         AA           10739         AA           10740         AA           10741         AA           10742         AA           10743         AA           10744         AA           10745         AA           10746         AA           10748         AA           10749         A           10740         AA           10741         AA           10742         AA           10743         AA           10744         AA           10750         A           10751         A           10752         A           10755         A           10756         A           10757         A      <                                                                                                                       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                                                                                                                                                                                                                                                          | IEEE 802.11ax (80MHz, MCS9, 90pc dc)           IEEE 802.11ax (80MHz, MCS10, 90pc dc)           IEEE 802.11ax (80MHz, MCS11, 90pc dc)           IEEE 802.11ax (80MHz, MCS1, 90pc dc)           IEEE 802.11ax (80MHz, MCS1, 90pc dc)           IEEE 802.11ax (80MHz, MCS1, 90pc dc)           IEEE 802.11ax (80MHz, MCS2, 90pc dc)           IEEE 802.11ax (80MHz, MCS3, 90pc dc)           IEEE 802.11ax (80MHz, MCS3, 90pc dc)           IEEE 802.11ax (80MHz, MCS5, 90pc dc)           IEEE 802.11ax (80MHz, MCS5, 90pc dc)           IEEE 802.11ax (80MHz, MCS6, 90pc dc)           IEEE 802.11ax (80MHz, MCS7, 90pc dc)           IEEE 802.11ax (80MHz, MCS9, 90pc dc)           IEEE 802.11ax (80MHz, MCS9, 90pc dc)           IEEE 802.11ax (80MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc) </th <th>WLAN       WLAN       WLAN</th> <th>8.64<br/>8.67<br/>8.42<br/>8.46<br/>8.40<br/>8.25<br/>8.33<br/>8.27<br/>8.36<br/>8.42<br/>8.48<br/>8.40<br/>8.43<br/>8.40<br/>8.43<br/>8.94<br/>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</th> <th>$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \\$</th> | WLAN       WLAN | 8.64<br>8.67<br>8.42<br>8.46<br>8.40<br>8.25<br>8.33<br>8.27<br>8.36<br>8.42<br>8.48<br>8.40<br>8.43<br>8.40<br>8.43<br>8.94<br>9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81                                                                                                                               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| 10731         AA           10732         AA           10732         AA           10733         AA           10734         AA           10735         AA           10736         AA           10737         AA           10738         AA           10739         AA           10738         AA           10739         AA           10739         AA           10739         AA           10740         AA           10741         AA           10742         AA           10743         AA           10744         AA           10745         AA           10746         AA           10747         A           10748         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10758         A           10759         A           10750         A           10755         A                                                                                                                                   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dc)           IEEE 802.11ax (80MHz, MCS7, 99pc dc)           IEEE 802.11ax (80MHz, MCS9, 99pc dc)           IEEE 802.11ax (80MHz, MCS1, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (160MHz, MCS1, 99pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)                                                                                                                                                                                                                                                                                                                                                                                         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| 10732         AA           10732         AA           10733         AA           10733         AA           10734         AA           10735         AA           10736         AA           10737         AA           10738         AA           10739         AA           10739         AA           10739         AA           10739         AA           10740         AA           10741         AA           10742         AA           10743         AA           10744         AA           10745         AA           10746         AA           10747         AA           10748         A           10749         A           10750         A           10751         A           10752         A           10753         A           10756         A           10758         A           10759         A           10750         A           10750         A           10750         A <tr td="" td<=""><td>AC           AC           AAC           AAC           AAC           AAC           AAC           AAC</td><td>IEEE 802.11ax (80MHz, MCS1, 99pc dc)           IEEE 802.11ax (80MHz, MCS2, 99pc dc)           IEEE 802.11ax (80MHz, MCS3, 99pc dc)           IEEE 802.11ax (80MHz, MCS4, 99pc dc)           IEEE 802.11ax (80MHz, MCS5, 99pc dc)           IEEE 802.11ax (80MHz, MCS5, 99pc dc)           IEEE 802.11ax (80MHz, MCS6, 99pc dc)           IEEE 802.11ax (80MHz, MCS7, 99pc dc)           IEEE 802.11ax (80MHz, MCS7, 99pc dc)           IEEE 802.11ax (80MHz, MCS0, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (160MHz, MCS10, 99pc dc)           IEEE 802.11ax (160MHz, MCS10, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc</td><td>WLAN       WLAN       WLAN</td><td>8.40<br/>8.25<br/>8.33<br/>8.27<br/>8.36<br/>8.42<br/>8.48<br/>8.40<br/>8.43<br/>8.44<br/>8.40<br/>8.43<br/>8.94<br/>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>$\begin{array}{c} \pm 9.6 \ \% \\ \pm 9.6 \ \% \\$</td></tr> <tr><td>10733         AA           10733         AA           10734         AA           10735         AA           10736         AA           10737         AA           10738         AA           10739         AA           10739         AA           10739         AA           10740         AV           10741         AA           10742         AA           10743         AA           10744         AA           10745         AV           10746         AA           10747         A           10748         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10758         A           10759         A           10759         A           10758         A           10760         A           10760         A           10761         A           10762         A</td><td>AC           AC           AAC           AAC           AAC           AAC</td><td>IEEE 802.11ax (80MHz, MCS2, 99pc dc)           IEEE 802.11ax (80MHz, MCS3, 99pc dc)           IEEE 802.11ax (80MHz, MCS4, 99pc dc)           IEEE 802.11ax (80MHz, MCS5, 99pc dc)           IEEE 802.11ax (80MHz, MCS5, 99pc dc)           IEEE 802.11ax (80MHz, MCS6, 99pc dc)           IEEE 802.11ax (80MHz, MCS7, 99pc dc)           IEEE 802.11ax (80MHz, MCS9, 99pc dc)           IEEE 802.11ax (80MHz, MCS1, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS11, 99pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc</td><td>WLAN       WLAN       WLAN</td><td>8.25<br/>8.33<br/>8.27<br/>8.36<br/>8.42<br/>8.29<br/>8.40<br/>8.43<br/>8.40<br/>8.43<br/>8.94<br/>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>$\begin{array}{c} \pm 9.6 \ \% \\ \pm 9.6 \ \% \\$</td></tr> <tr><td>10734         AA           10734         AA           10735         AA           10736         AA           10737         AA           10738         AA           10739         AA           10739         AA           10739         AA           10740         AA           10741         AV           10742         AI           10743         AQ           10744         AQ           10745         AQ           10746         AI           10747         A           10748         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10758         A           10759         A           10750         A           10758         A           10760         A           10760         A           10761         A           10762         A</td><td>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>A</td><td>IEEE 802.11ax (80MHz, MCS3, 99pc dc)           IEEE 802.11ax (80MHz, MCS4, 99pc dc)           IEEE 802.11ax (80MHz, MCS5, 99pc dc)           IEEE 802.11ax (80MHz, MCS6, 99pc dc)           IEEE 802.11ax (80MHz, MCS6, 99pc dc)           IEEE 802.11ax (80MHz, MCS7, 99pc dc)           IEEE 802.11ax (80MHz, MCS8, 99pc dc)           IEEE 802.11ax (80MHz, MCS1, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS11, 99pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS8, 90pc dc)           IEEE 802.11ax (160MHz, MCS8, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc)</td><td>WLAN       WLAN       WLAN</td><td>8.25<br/>8.33<br/>8.27<br/>8.36<br/>8.42<br/>8.29<br/>8.40<br/>8.43<br/>8.40<br/>8.43<br/>8.94<br/>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>$\begin{array}{c} \pm 9.6 \ \% \\ \pm 9.6 \ \% \\$</td></tr> <tr><td>10735         AA           10735         AA           10736         AA           10737         AA           10738         AA           10737         AA           10738         AA           10739         AA           10740         AA           10741         AA           10742         AJ           10743         AA           10744         AA           10745         AJ           10746         AI           10747         A           10748         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10758         A           10758         A           10759         A           10750         A           10758         A           10759         A           10758         A           10760         A           10761         A           10762         A</td><td>AC           AC           AAC           AAC           AAC           AAC</td><td>IEEE 802.11ax (80MHz, MCS4, 99pc dc)           IEEE 802.11ax (80MHz, MCS5, 99pc dc)           IEEE 802.11ax (80MHz, MCS7, 99pc dc)           IEEE 802.11ax (80MHz, MCS9, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS8, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN</td><td>8.33<br/>8.27<br/>8.36<br/>8.42<br/>8.29<br/>8.48<br/>8.40<br/>8.43<br/>8.94<br/>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$</td></tr> <tr><td>10736         A           10737         A           10737         A           10738         A           10738         A           10738         A           10738         A           10738         A           10739         A           10740         A           10741         A           10742         A           10743         A           10744         A           10745         A           10746         A           10747         A           10748         A           10750         A           10751         A           10752         A           10753         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10760         A           10761         A           10762         A</td><td>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>A</td><td>IEEE 802.11ax (80MHz, MCS5, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS6, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS7, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS8, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS9, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS10, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS10, 99pc dc)<br/>IEEE
802.11ax (80MHz, MCS10, 99pc dc)<br/>IEEE 802.11ax (160MHz, MCS1, 99pc dc)<br/>IEEE 802.11ax (160MHz, MCS1, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS3, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS3, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS4, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS6, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS9, 90pc dc)</td><td>WLAN       WLAN       WLAN</td><td>8.27<br/>8.36<br/>8.42<br/>8.29<br/>8.48<br/>8.40<br/>8.43<br/>8.94<br/>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$</td></tr> <tr><td>10737         AA           10737         AA           10738         AA           10738         AA           10738         AA           10739         AA           10739         AA           10740         AA           10741         AA           10742         AA           10743         AA           10744         AA           10745         AA           10746         AA           10747         A           10748         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10750         A           10755         A           10756         A           10757         A           10758         A           10761         A           10762         A</td><td>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>A</td><td>IEEE 802.11ax (80MHz, MCS6, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS7, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS8, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS9, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS10, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS10, 99pc dc)<br/>IEEE 802.11ax (160MHz, MCS1, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS1, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS3, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS4, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS6, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS9, 90pc dc)</td><td>WLAN       WLAN       WLAN</td><td>8.42<br/>8.29<br/>8.48<br/>8.40<br/>8.43<br/>8.94<br/>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>$\begin{array}{c} \pm 9.6 \ \% \\ \pm 9.6 \ \% \end{array}$</td></tr> <tr><td>10738         AA           10738         AA           10739         AA           10739         AA           10740         AA           10741         AA           10742         AA           10743         AA           10744         AA           10745         AA           10746         AA           10747         AA           10748         AA           10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10758         A           10759         A           10759         A           10759         A           10760         A           10761         A           10762         A</td><td>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>A</td><td>IEEE 802.11ax (80MHz, MCS7, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS8, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS9, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS10, 99pc dc)<br/>IEEE 802.11ax (80MHz, MCS10, 99pc dc)<br/>IEEE 802.11ax (160MHz, MCS1, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS1, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS2, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS3, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS4, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS6, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS9, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN</td><td>8.42<br/>8.29<br/>8.48<br/>8.40<br/>8.43<br/>8.94<br/>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>$\begin{array}{c} \pm 9.6 \ \% \\ \pm 9.6 \ \% \end{array}$</td></tr> <tr><td>10739         AA           10739         AA           10740         AA           10741         AA           10742         AA           10743         AA           10744         AA           10745         AA           10746         AA           10747         AA           10748         AA           10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10759         A           10759         A           10759         A           10759         A           10758         A           10760         A           10760         A           10761         A           10762         A</td><td>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>A</td><td>IEEE 802.11ax (80MHz, MCS8, 99pc dc)           IEEE 802.11ax (80MHz, MCS9, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN</td><td>8.29<br/>8.48<br/>8.40<br/>8.43<br/>8.94<br/>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>$\begin{array}{c} \pm 9.6 \ \% \\ \pm 9.6 \ \% \end{array}$</td></tr> <tr><td>10740         A/           10741         A/           10741         A/           10742         A/           10743         A/           10744         A/           10745         A/           10746         A           10747         A           10748         A           10749         A           10748         A           10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10759         A           10758         A           10759         A           10750         A           10758         A           10760         A           10761         A           10762         A</td><td>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>A</td><td>IEEE 802.11ax (80MHz, MCS9, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS11, 99pc dc)           IEEE 802.11ax (160MHz, MCS0, 90pc dc)           IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN</td><td>8.48<br/>8.40<br/>8.43<br/>8.94<br/>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$</td></tr> <tr><td>10741         AJ           10742         AJ           10742         AJ           10743         AJ           10744         AJ           10745         AJ           10746         AJ           10747         A           10748         AJ           10749         AJ           10749         AJ           10749         AJ           10749         AJ           10749         AJ           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10758         A           10759         A           10759         A           10758         A           10760         A           10761         A           10762         A           10763         A</td><td>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>A</td><td>IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS11, 99pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN</td><td>8.40<br/>8.43<br/>8.94<br/>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \%
\end{array}$</td></tr> <tr><td>10742         A           10742         A           10743         A           10744         A           10745         A           10746         A           10747         A           10748         A           10749         A           10749         A           10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10758         A           10759         A           10759         A           10759         A           10750         A           10750         A           10758         A           10759         A           10760         A           10761         A           10762         A           10763         A</td><td>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC<br/>AC</td><td>IEEE 802.11ax (80MHz, MCS11, 99pc dc)           IEEE 802.11ax (160MHz, MCS0, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN</td><td>8.43<br/>8.94<br/>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>± 9.6 %<br/>± 9.6 %</td></tr> <tr><td>10743         Au           10743         Au           10744         Au           10745         Au           10746         Au           10747         Au           10748         Au           10749         Au           10749         Au           10750         Au           10751         Au           10752         Au           10753         Au           10754         Au           10755         Au           10758         Au           10759         Au           10759         Au           10758         Au           10759         Au           10759         Au           10750         Au           10750         Au           10750         Au           10760         Au           10761         Au           10762         Au           10763         Au</td><td></td><td>IEEE 802.11ax (160MHz, MCS0, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN</td><td>8.94<br/>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %</td></tr> <tr><td>10744         A           10744         A           10745         A           10746         A           10747         A           10748         A           10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10758         A           10758         A           10759         A           10750         A           10758         A           10758         A           10759         A           10760         A           10761         A           10762         A           10763         A</td><td></td><td>IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS8, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN</td><td>9.16<br/>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>$\begin{array}{c} \pm \ 9.6\ \% \\ \pm \ 9.6\ \% \end{array}$</td></tr> <tr><td>10745         A           10745         A           10746         A           10747         A           10748         A           10749         A           10750         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10759         A           10750         A           10754         A           10755         A           10756         A           10758         A           10759         A           10761         A           10762         A           10763         A</td><td></td><td>IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS8, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN</td><td>8.93<br/>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %</td></tr> <tr><td>10746         A.           10747         A.           10747         A.           10748         A.           10749         A.           10750         A.           10751         A.           10752         A.           10753         A.           10754         A.           10755         A.           10756         A.           10758         A.           10759         A.           10759         A.           10760         A.           10761         A.           10762         A.</td><td></td><td>IEEE 802.11ax (160MHz, MCS3, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS4, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS9, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN</td><td>9.11<br/>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %</td></tr> <tr><td>10747         A           10748         A           10748         A           10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10759         A           10760         A           10761         A           10762         A</td><td></td><td>IEEE 802.11ax (160MHz, MCS4, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS6, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS10, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN</td><td>9.04<br/>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %</td></tr> <tr><td>10748         A           10749         A           10750         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10760         A           10761         A           10762         A</td><td></td><td>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS6, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS10, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN<br/>WLAN<br/>WLAN</td><td>8.93<br/>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>± 9.6 %<br/>± 9.6 %<br/>± 9.6 %</td></tr> <tr><td>10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10759         A           10760         A           10761         A           10762         A</td><td></td><td>IEEE 802.11ax (160MHz, MCS6, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS10, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN<br/>WLAN</td><td>8.90<br/>8.79<br/>8.82<br/>8.81</td><td>± 9.6 %<br/>± 9.6 %</td></tr> <tr><td>10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10758         A           10759         A           10759         A           10750         A           10750         A           10760         A           10761         A           10762         A           10763         A</td><td></td><td>IEEE 802.11ax (160MHz,
MCS7, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS10, 90pc dc)</td><td>WLAN<br/>WLAN<br/>WLAN</td><td>8.79<br/>8.82<br/>8.81</td><td>± 9.6 %</td></tr> <tr><td>10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10759         A           10759         A           10760         A           10761         A           10762         A           10763         A</td><td></td><td>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS10, 90pc dc)</td><td>WLAN<br/>WLAN</td><td>8.82<br/>8.81</td><td></td></tr> <tr><td>10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10758         A           10758         A           10759         A           10759         A           10750         A           10760         A           10761         A           10762         A           10763         A</td><td></td><td>IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br/>IEEE 802.11ax (160MHz, MCS10, 90pc dc)</td><td>WLAN</td><td>8.81</td><td></td></tr> <tr><td>10753         A           10754         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10760         A           10761         A           10762         A           10763         A</td><td>AAC<br/>AAC</td><td>IEEE 802.11ax (160MHz, MCS10, 90pc dc)</td><td></td><td></td><td>± 9.6 %</td></tr> <tr><td>10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10760         A           10761         A           10762         A           10763         A</td><td>AAC</td><td></td><td></td><td>9.00</td><td>± 9.6 %</td></tr> <tr><td>10755         Α           10756         Α           10757         Α           10758         Α           10759         Α           10759         Α           10760         Α           10761         Α           10762         Α           10763         Α</td><td></td><td></td><td>WLAN</td><td>8.94</td><td>± 9.6 %</td></tr> <tr><td>10756         A           10757         A           10758         A           10759         A           10760         A           10761         A           10762         A           10763         A</td><td>AAC</td><td></td><td>WLAN</td><td>8.64</td><td>± 9.6 %</td></tr> <tr><td>10757         A           10758         A           10759         A           10759         A           10760         A           10761         A           10762         A           10763         A</td><td>~~</td><td>IEEE 802.11ax (160MHz, MCS0, 99pc dc)</td><td>WLAN</td><td>8.77</td><td>± 9.6 %</td></tr> <tr><td>10758         A           10759         A           10760         A           10761         A           10762         A           10763         A</td><td>AAC</td><td>IEEE 802.11ax (160MHz, MCS1, 99pc dc)</td><td>WLAN</td><td>8.77</td><td>± 9.6 %</td></tr> <tr><td>10759         A           10760         A           10761         A           10762         A           10763         A</td><td>AAC</td><td>IEEE 802.11ax (160MHz, MCS2, 99pc dc)</td><td>WLAN</td><td>8.69</td><td>± 9.6 %</td></tr> <tr><td>10760 A<br/>10761 A<br/>10762 A<br/>10763 A</td><td>AAC</td><td>IEEE 802.11ax (160MHz, MCS3, 99pc dc)</td><td>WLAN</td><td>8.58</td><td>± 9.6 %</td></tr> <tr><td>10761 A<br/>10762 A<br/>10763 A</td><td>AAC</td><td>IEEE 802.11ax (160MHz, MCS4, 99pc dc)</td><td>WLAN</td><td>8.49</td><td>± 9.6 %</td></tr> <tr><td>10762 A<br/>10763 A</td><td>AAC</td><td>IEEE 802.11ax (160MHz, MCS5, 99pc dc)</td><td>WLAN</td><td>8.58</td><td>± 9.6 %</td></tr> <tr><td>10763 A</td><td>AAC</td><td>IEEE 802.11ax (160MHz, MCS6, 99pc dc)</td><td>WLAN</td><td>8.49</td><td>± 9.6 %</td></tr> <tr><td></td><td>AAC</td><td>IEEE 802.11ax (160MHz, MCS7, 99pc dc)</td><td>WLAN</td><td>8.53</td><td>± 9.6 %</td></tr> <tr><td>10764 A</td><td>AAC</td><td>IEEE 802.11ax (160MHz, MCS8, 99pc dc)</td><td>WLAN</td><td>8.54</td><td>± 9.6 %</td></tr> <tr><td></td><td>AAC</td><td>IEEE 802.11ax (160MHz, MCS9, 99pc dc)</td><td>WLAN</td><td>8.54</td><td>± 9.6 %</td></tr> <tr><td>10765 #</td><td>AAC</td><td>IEEE 802.11ax (160MHz, MCS10, 99pc dc)</td><td>WLAN</td><td>8.51</td><td>± 9.6 %</td></tr> <tr><td></td><td>AAC</td><td>IEEE 802.11ax (160MHz, MCS11, 99pc dc)</td><td>5G NR FR1 TDD</td><td>7.99</td><td>± 9.6 %</td></tr> <tr><td>10767</td><td>AAC</td><td>5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD</td><td>8.01</td><td>± 9.6 %</td></tr> <tr><td>10768</td><td>AAC</td><td>5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)</td><td></td><td>8.01</td><td>± 9.6 %</td></tr> <tr><td>10769</td><td>AAC</td><td>5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD<br/>5G NR FR1 TDD</td><td>8.02</td><td>± 9.6 °</td></tr> <tr><td>10770</td><td>AAC</td><td>5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)</td><td></td><td>8.02</td><td>± 9.6 °</td></tr> <tr><td></td><td>AAC</td><td>5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD</td><td>8.23</td><td>± 9.6 °</td></tr> <tr><td>10772</td><td>AAC</td><td>5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD</td><td>8.03</td><td>± 9.6 °</td></tr> <tr><td>10773</td><td>AAC</td><td>5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD</td><td></td><td>-</td></tr> <tr><td></td><td>AAC</td><td>5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD</td><td>8.02</td><td>± 9.6 °</td></tr> <tr><td></td><td>AAC</td><td>5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD</td><td>8.31</td><td>± 9.6</td></tr> <tr><td></td><td>AAC</td><td>5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD</td><td>8.30</td><td></td></tr> <tr><td></td><td>AAC</td><td>5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD</td><td>8.30</td><td>± 9.6</td></tr> <tr><td></td><td>AAC</td><td>5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD</td><td>8.34</td><td>± 9.6</td></tr> <tr><td>10779</td><td>AAC</td><td>5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD</td><td>8.42</td><td>± 9.6</td></tr> <tr><td>10780</td><td>AAC</td><td>5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD</td><td>8.38</td><td>± 9.6</td></tr> <tr><td>10781</td><td>AAC</td><td>5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD</td><td>8.38</td><td>± 9.6</td></tr> <tr><td>10782</td><td>AAC</td><td>5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)<br/>5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD<br/>5G NR FR1 TDD</td><td>8.43</td><td>± 9.6</td></tr> | AC           AAC           AAC           AAC           AAC           AAC           AAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | IEEE 802.11ax (80MHz, MCS1, 99pc dc)           IEEE 802.11ax (80MHz, MCS2, 99pc dc)           IEEE 802.11ax (80MHz, MCS3, 99pc dc)           IEEE 802.11ax (80MHz, MCS4, 99pc dc)           IEEE 802.11ax (80MHz, MCS5, 99pc dc)           IEEE 802.11ax (80MHz, MCS5, 99pc dc)           IEEE 802.11ax (80MHz, MCS6, 99pc dc)           IEEE 802.11ax (80MHz, MCS7, 99pc dc)           IEEE 802.11ax (80MHz, MCS7, 99pc dc)           IEEE 802.11ax (80MHz, MCS0, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (160MHz, MCS10, 99pc dc)           IEEE 802.11ax (160MHz, MCS10, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | WLAN                                                                   | 8.40<br>8.25<br>8.33<br>8.27<br>8.36<br>8.42<br>8.48<br>8.40<br>8.43<br>8.44<br>8.40<br>8.43<br>8.94<br>9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | $\begin{array}{c} \pm 9.6 \ \% \\ \pm 9.6 \ \% \\$                                                                                                                                         | 10733         AA           10733         AA           10734         AA           10735         AA           10736         AA           10737         AA           10738         AA           10739         AA           10739         AA           10739         AA           10740         AV           10741         AA           10742         AA           10743         AA           10744         AA           10745         AV           10746         AA           10747         A           10748         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10758         A           10759         A           10759         A           10758         A           10760         A           10760         A           10761         A           10762         A | AC           AAC           AAC           AAC           AAC | IEEE 802.11ax (80MHz, MCS2, 99pc dc)           IEEE 802.11ax (80MHz, MCS3, 99pc dc)           IEEE 802.11ax (80MHz, MCS4, 99pc dc)           IEEE 802.11ax (80MHz, MCS5, 99pc dc)           IEEE 802.11ax (80MHz, MCS5, 99pc dc)           IEEE 802.11ax (80MHz, MCS6, 99pc dc)           IEEE 802.11ax (80MHz, MCS7, 99pc dc)           IEEE 802.11ax (80MHz, MCS9, 99pc dc)           IEEE 802.11ax (80MHz, MCS1, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS11, 99pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc | WLAN       WLAN | 8.25<br>8.33<br>8.27<br>8.36<br>8.42<br>8.29<br>8.40<br>8.43<br>8.40<br>8.43<br>8.94<br>9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | $\begin{array}{c} \pm 9.6 \ \% \\ \pm 9.6 \ \% \\$ | 10734         AA           10734         AA           10735         AA           10736         AA           10737         AA           10738         AA           10739         AA           10739         AA           10739         AA           10740         AA           10741         AV           10742         AI           10743         AQ           10744         AQ           10745         AQ           10746         AI           10747         A           10748         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10758         A           10759         A           10750         A           10758         A           10760         A           10760         A           10761         A           10762         A | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>A | IEEE 802.11ax (80MHz, MCS3, 99pc dc)           IEEE 802.11ax (80MHz, MCS4, 99pc dc)           IEEE 802.11ax (80MHz, MCS5, 99pc dc)           IEEE 802.11ax (80MHz, MCS6, 99pc dc)           IEEE 802.11ax (80MHz, MCS6, 99pc dc)           IEEE 802.11ax (80MHz, MCS7, 99pc dc)           IEEE 802.11ax (80MHz, MCS8, 99pc dc)           IEEE 802.11ax (80MHz, MCS1, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS11, 99pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS8, 90pc dc)           IEEE 802.11ax (160MHz, MCS8, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN       WLAN | 8.25<br>8.33<br>8.27<br>8.36<br>8.42<br>8.29<br>8.40<br>8.43<br>8.40<br>8.43<br>8.94<br>9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | $\begin{array}{c} \pm 9.6 \ \% \\ \pm 9.6 \ \% \\$ | 10735         AA           10735         AA           10736         AA           10737         AA           10738         AA           10737         AA           10738         AA           10739         AA           10740        
AA           10741         AA           10742         AJ           10743         AA           10744         AA           10745         AJ           10746         AI           10747         A           10748         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10758         A           10758         A           10759         A           10750         A           10758         A           10759         A           10758         A           10760         A           10761         A           10762         A | AC           AAC           AAC           AAC           AAC | IEEE 802.11ax (80MHz, MCS4, 99pc dc)           IEEE 802.11ax (80MHz, MCS5, 99pc dc)           IEEE 802.11ax (80MHz, MCS7, 99pc dc)           IEEE 802.11ax (80MHz, MCS9, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS8, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN | 8.33<br>8.27<br>8.36<br>8.42<br>8.29<br>8.48<br>8.40<br>8.43<br>8.94<br>9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | $\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$ | 10736         A           10737         A           10737         A           10738         A           10738         A           10738         A           10738         A           10738         A           10739         A           10740         A           10741         A           10742         A           10743         A           10744         A           10745         A           10746         A           10747         A           10748         A           10750         A           10751         A           10752         A           10753         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10760         A           10761         A           10762         A | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>A | IEEE 802.11ax (80MHz, MCS5, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS6, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS7, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS8, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS9, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS10, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS10, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS10, 99pc dc)<br>IEEE 802.11ax (160MHz, MCS1, 99pc dc)<br>IEEE 802.11ax (160MHz, MCS1, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS3, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS3, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS4, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS6, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN       WLAN | 8.27<br>8.36<br>8.42<br>8.29<br>8.48<br>8.40<br>8.43<br>8.94<br>9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | $\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$ | 10737         AA           10737         AA           10738         AA           10738         AA           10738         AA           10739         AA           10739         AA           10740         AA           10741         AA           10742         AA           10743         AA           10744         AA           10745         AA           10746         AA           10747         A           10748         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10750         A           10755         A           10756         A           10757         A           10758         A           10761         A           10762         A | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>A | IEEE 802.11ax (80MHz, MCS6, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS7, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS8, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS9, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS10, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS10, 99pc dc)<br>IEEE 802.11ax (160MHz, MCS1, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS1, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS3, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS4, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS6, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN       WLAN | 8.42<br>8.29<br>8.48<br>8.40<br>8.43<br>8.94<br>9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | $\begin{array}{c} \pm 9.6 \ \% \\ \pm 9.6 \ \% \end{array}$ | 10738         AA           10738         AA           10739         AA           10739         AA           10740         AA           10741         AA           10742         AA           10743         AA           10744         AA           10745         AA           10746         AA           10747         AA           10748         AA           10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10758         A           10759         A           10759         A           10759         A           10760         A           10761         A           10762         A | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>A | IEEE 802.11ax (80MHz, MCS7, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS8, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS9, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS10, 99pc dc)<br>IEEE 802.11ax (80MHz, MCS10, 99pc dc)<br>IEEE 802.11ax (160MHz, MCS1, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS1, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS2, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS3, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS4, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS6, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN | 8.42<br>8.29<br>8.48<br>8.40<br>8.43<br>8.94<br>9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | $\begin{array}{c} \pm 9.6 \ \% \\ \pm 9.6 \ \% \end{array}$ | 10739         AA           10739         AA           10740         AA           10741         AA           10742         AA           10743         AA           10744         AA           10745         AA           10746         AA           10747         AA           10748         AA           10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10759         A           10759         A           10759         A           10759         A           10758         A           10760         A           10760         A           10761         A           10762         A | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>A | IEEE 802.11ax (80MHz, MCS8, 99pc dc)           IEEE 802.11ax (80MHz, MCS9, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN | 8.29<br>8.48<br>8.40<br>8.43<br>8.94<br>9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | $\begin{array}{c} \pm 9.6 \ \% \\ \pm 9.6 \ \% \end{array}$ | 10740         A/           10741         A/           10741         A/           10742         A/           10743         A/           10744         A/           10745         A/           10746         A           10747         A           10748         A           10749         A           10748         A           10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10759         A           10758         A           10759         A           10750         A           10758         A           10760         A           10761         A           10762         A | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>A | IEEE 802.11ax (80MHz, MCS9, 99pc dc)        
  IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS11, 99pc dc)           IEEE 802.11ax (160MHz, MCS0, 90pc dc)           IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN | 8.48<br>8.40<br>8.43<br>8.94<br>9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | $\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$ | 10741         AJ           10742         AJ           10742         AJ           10743         AJ           10744         AJ           10745         AJ           10746         AJ           10747         A           10748         AJ           10749         AJ           10749         AJ           10749         AJ           10749         AJ           10749         AJ           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10758         A           10759         A           10759         A           10758         A           10760         A           10761         A           10762         A           10763         A | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>A | IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS11, 99pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc) | WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN | 8.40<br>8.43<br>8.94<br>9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | $\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$ | 10742         A           10742         A           10743         A           10744         A           10745         A           10746         A           10747         A           10748         A           10749         A           10749         A           10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10758         A           10759         A           10759         A           10759         A           10750         A           10750         A           10758         A           10759         A           10760         A           10761         A           10762         A           10763         A | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC | IEEE 802.11ax (80MHz, MCS11, 99pc dc)           IEEE 802.11ax (160MHz, MCS0, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN | 8.43<br>8.94<br>9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | ± 9.6 %<br>± 9.6 % | 10743         Au           10743         Au           10744         Au           10745         Au           10746         Au           10747         Au           10748         Au           10749         Au           10749         Au           10750         Au           10751         Au           10752         Au           10753         Au           10754         Au           10755         Au           10758         Au           10759         Au           10759         Au           10758         Au           10759         Au           10759         Au           10750         Au           10750         Au           10750         Au           10760         Au           10761         Au           10762         Au           10763         Au |  | IEEE 802.11ax (160MHz, MCS0, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN | 8.94<br>9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | ± 9.6 %<br>± 9.6 %<br>± 9.6 %<br>± 9.6 %<br>± 9.6 %<br>± 9.6 %<br>± 9.6 % | 10744         A           10744         A           10745         A           10746         A           10747         A           10748         A           10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10758         A           10758         A           10759         A           10750         A           10758         A           10758         A           10759         A           10760         A           10761         A           10762         A           10763         A |  | IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS8, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN | 9.16<br>8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | $\begin{array}{c} \pm \ 9.6\ \% \\ \pm \ 9.6\ \% \end{array}$ | 10745         A           10745         A           10746         A           10747         A           10748         A           10749         A           10750         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10759         A           10750         A           10754         A           10755         A           10756         A           10758         A           10759         A           10761         A           10762         A           10763         A |  | IEEE 802.11ax (160MHz, MCS2, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS6, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS8, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN | 8.93<br>9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | ± 9.6 %<br>± 9.6 %<br>± 9.6 %<br>± 9.6 %<br>± 9.6 %<br>± 9.6 % | 10746         A.           10747         A.           10747         A.           10748         A.           10749         A.           10750         A.           10751         A.           10752         A.           10753         A.           10754         A.           10755         A.           10756         A.           10758         A.           10759         A.           10759         A.           10760         A.           10761         A.           10762         A. |  | IEEE 802.11ax (160MHz, MCS3, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS4, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS9, 90pc dc) | WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN | 9.11<br>9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | ± 9.6 %<br>± 9.6 %<br>± 9.6 %<br>± 9.6 %<br>± 9.6 % | 10747         A           10748         A           10748         A           10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10759         A           10760         A           10761         A           10762         A |  | IEEE 802.11ax (160MHz, MCS4, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS6, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS10, 90pc dc) | WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN | 9.04<br>8.93<br>8.90<br>8.79<br>8.82<br>8.81 | ± 9.6 %<br>± 9.6 %<br>± 9.6 %<br>± 9.6 % | 10748         A           10749         A           10750         A           10750         A    
      10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10760         A           10761         A           10762         A |  | IEEE 802.11ax (160MHz, MCS5, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS6, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS10, 90pc dc) | WLAN<br>WLAN<br>WLAN<br>WLAN<br>WLAN | 8.93<br>8.90<br>8.79<br>8.82<br>8.81 | ± 9.6 %<br>± 9.6 %<br>± 9.6 % | 10749         A           10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10759         A           10760         A           10761         A           10762         A |  | IEEE 802.11ax (160MHz, MCS6, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS10, 90pc dc) | WLAN<br>WLAN<br>WLAN<br>WLAN | 8.90<br>8.79<br>8.82<br>8.81 | ± 9.6 %<br>± 9.6 % | 10750         A           10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10758         A           10759         A           10759         A           10750         A           10750         A           10760         A           10761         A           10762         A           10763         A |  | IEEE 802.11ax (160MHz, MCS7, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS10, 90pc dc) | WLAN<br>WLAN<br>WLAN | 8.79<br>8.82<br>8.81 | ± 9.6 % | 10751         A           10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10759         A           10759         A           10760         A           10761         A           10762         A           10763         A |  | IEEE 802.11ax (160MHz, MCS8, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS10, 90pc dc) | WLAN<br>WLAN | 8.82<br>8.81 |  | 10752         A           10753         A           10754         A           10755         A           10756         A           10757         A           10758         A           10758         A           10758         A           10759         A           10759         A           10750         A           10760         A           10761         A           10762         A           10763         A |  | IEEE 802.11ax (160MHz, MCS9, 90pc dc)<br>IEEE 802.11ax (160MHz, MCS10, 90pc dc) | WLAN | 8.81 |  | 10753         A           10754         A           10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10760         A           10761         A           10762         A           10763         A | AAC<br>AAC | IEEE 802.11ax (160MHz, MCS10, 90pc dc) |  |  | ± 9.6 % | 10754         A           10755         A           10756         A           10757         A           10758         A           10759         A           10760         A           10761         A           10762         A           10763         A | AAC |  |  | 9.00 | ± 9.6 % | 10755         Α           10756         Α           10757         Α           10758         Α           10759         Α           10759         Α           10760         Α           10761         Α           10762         Α           10763         Α |  |  | WLAN | 8.94 | ± 9.6 % | 10756         A           10757         A           10758         A           10759         A           10760         A           10761         A           10762         A           10763         A | AAC |  | WLAN | 8.64 | ± 9.6 % | 10757         A           10758         A           10759         A           10759         A           10760         A           10761         A           10762         A           10763         A | ~~ | IEEE 802.11ax (160MHz, MCS0, 99pc dc) | WLAN | 8.77 | ± 9.6 % | 10758         A           10759         A           10760         A           10761         A           10762         A           10763         A | AAC | IEEE 802.11ax (160MHz, MCS1, 99pc dc) | WLAN | 8.77 | ± 9.6 % | 10759         A           10760         A           10761         A           10762         A           10763         A | AAC | IEEE 802.11ax (160MHz, MCS2, 99pc dc) | WLAN | 8.69 | ± 9.6 % | 10760 A<br>10761 A<br>10762 A<br>10763 A | AAC | IEEE 802.11ax (160MHz, MCS3, 99pc dc) | WLAN | 8.58 | ± 9.6 % | 10761 A<br>10762 A<br>10763 A | AAC | IEEE 802.11ax (160MHz, MCS4, 99pc dc) | WLAN | 8.49 | ± 9.6 % | 10762 A<br>10763 A | AAC | IEEE 802.11ax (160MHz, MCS5, 99pc dc) | WLAN | 8.58 | ± 9.6 % | 10763 A | AAC | IEEE 802.11ax (160MHz, MCS6, 99pc dc) | WLAN | 8.49 | ± 9.6 % |  | AAC | IEEE 802.11ax (160MHz, MCS7, 99pc dc) | WLAN | 8.53 | ± 9.6 % | 10764 A | AAC | IEEE 802.11ax (160MHz, MCS8, 99pc dc) | WLAN | 8.54 | ± 9.6 % |  | AAC | IEEE 802.11ax (160MHz, MCS9, 99pc dc) | WLAN | 8.54 | ± 9.6 % | 10765 # | AAC | IEEE 802.11ax (160MHz, MCS10, 99pc dc) | WLAN | 8.51 | ± 9.6 % |  | AAC | IEEE 802.11ax (160MHz, MCS11, 99pc dc) | 5G NR FR1 TDD | 7.99 | ± 9.6 % | 10767 | AAC | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.01 | ± 9.6 % | 10768 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) |  | 8.01 | ± 9.6 % | 10769 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD<br>5G NR FR1 TDD | 8.02 | ± 9.6 ° | 10770 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) |  | 8.02 | ± 9.6 ° |  | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.23 | ± 9.6 ° | 10772 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.03 | ± 9.6 ° | 10773 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD |  | - |  | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ± 9.6 ° |  | AAC | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.31 | ± 9.6 |  | AAC | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 |  |  | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 | ± 9.6 |  | AAC | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.34 | ± 9.6 | 10779 | AAC | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.42 | ± 9.6 | 10780 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | ± 9.6 | 10781 | AAC | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | ± 9.6 | 10782 | AAC | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)<br>5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD<br>5G NR FR1 TDD | 8.43 | ± 9.6 |
| AC           AAC           AAC           AAC           AAC           AAC           AAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (80MHz, MCS10, 99pc dc)           IEEE 802.11ax (160MHz, MCS10, 99pc dc)           IEEE 802.11ax (160MHz, MCS10, 90pc dc)           IEEE 802.11ax (160MHz, MCS1, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS3, 90pc dc)           IEEE 802.11ax (160MHz, MCS4, 90pc dc)           IEEE 802.11ax (160MHz, MCS5, 90pc dc)           IEEE 802.11ax (160MHz, MCS7, 90pc dc)           IEEE 802.11ax (160MHz, MCS9, 90pc | WLAN                                                                                                                                                                                                                                                                                                                                                                                                                                               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                    |               |  |   |  |     |                                             |               |      |         |  |     |                                              |               |      |       |  |     |                                               |               |      |  |  |     |                                               |               |      |       |  |     |                                               |               |      |       |       |     |                                               |               |      |       |       |     |                                               |               |      |       |       |     |                                               |               |      |       |       |     |                                                                                                |                                |      |       |

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		5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10784	7010	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 KHz)	5G NR FR1 TDD	8.40	± 9.6 %
10785	7010	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10786	1010	5G NR (CP-OFDM, 100% RB, 25 MHz, QP SK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10787	10.0	5G NR (CP-OFDM, 100% RB, 23 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10788	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QF 5K 15 KHz)	5G NR FR1 TDD	8.37	± 9.6 %
10789	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6 %
10790	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10791	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6 %
10792	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10793	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10794	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 KHz) 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10795	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 HHz) 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10796	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	8.01	± 9.6 %
10797	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 KHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10798	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10799	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QF5K, 30 KHz)	5G NR FR1 TDD	7.89	± 9.6 %
10801	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10802	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10803	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAD	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 °
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 °
10821	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 °
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 °
10823	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6
10828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.63	± 9.6
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)		7.70	± 9.6
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	7.66	± 9.6
10836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)		7.68	± 9.6
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	7.00	± 9.6
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)			± 9.6
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.36	± 9.6

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		5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
0860	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
0861	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6%
0863	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
0864	AAE	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10865	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10868	AAD	5G NR (DFT-s-OFDM, 100/8 KB, 100/8H2, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 HHz)	5G NR FR2 TDD	6.52	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 100 MHz, 100 MHz) 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 KHz)	5G NR FR2 TDD	6.61	±9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 KHz) 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10874	AAD	5G NR (DF1-s-OFDM, 100% RB, 100 MHz, 040 MHz, 120 KHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 KHz)	5G NR FR2 TDD	8.39	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM. 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)		8.13	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD		± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10897	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	
10900	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6 %
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6 °
10907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 °
10908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 °
10909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 °
10910	AAD	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 °
10911	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6
10912	AAD	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6
10914	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6
10918	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6
10919	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6
10920	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6
10921	AAD	20 ND (DET - OFDM 400% PD 20 MHz OPSK 30 KHz)	5G NR FR1 TDD	5.84	± 9.6

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10922	1.10	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10922	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10925	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10927	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 KHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAA		5G NR FR1 FDD	5.51	± 9.6 %
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10938	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10941	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10943	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAB	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)		5.85	± 9.6 %
10945	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		± 9.6 %
10947	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	
10949	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	
10951	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10954	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 °
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 °
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 °
10964	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 °
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 °
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6
10972	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 °
10973	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6

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

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## ANNEX E DIPOLE CALIBRATION CERTIFICATE

#### Dipole 835 MHz

CERTIFICATI		CD835V3-1023_Aug21
QA CAL-20.v7 Calibration Procedure for Validation Sources in air		
August 24, 2021		
	y facility: environment temperature (22 $\pm$ 3)°C	C and humidity < 70%.
ID #	Cal Date (Certificate No.)	Scheduled Calibration
		Apr-22 Apr-22
SN: 103245	09-Apr-21 (No. 217-03292)	Apr-22
SN: BH9394 (20k)	09-Apr-21 (No. 217-03343)	Apr-22
SN: 310982 / 06327	09-Apr-21 (No. 217-03344)	Apr-22
SN: 4013 SN: 781	28-Dec-20 (No. DAE4-781_Dec20) 23-Dec-20 (No. DAE4-781_Dec20)	Dec-21 Dec-21
ID #	Check Date (in house)	Scheduled Check
SN: GB42420191	09-Oct-09 (in house check Oct-20)	In house check: Oct-23
A CONTRACTOR OF A CONTRACTOR O		In house check: Oct-23 In house check: Oct-23
SN: 837633/005	10-Jan-19 (in house check Oct-20)	In house check: Oct-23
	31-Mar-14 (in house check Oct-20)	In house check: Oct-21
Name	Function	Signature
Leif Klysner	Laboratory Technician	Sel Mar
Katja Pokovic	Technical Manager	V.KC
	CD835V3 - SN: 1 QA CAL-20.v7 Calibration Proces August 24, 2021 ents the traceability to nati- ent the closed laborator tert in the closed laborator ID # SN: 104778 SN: 103244 SN: 103244 SN: 103244 SN: 103245 SN: 103244 SN: 103245 SN: 103245	CD835V3 - SN: 1023         OA CAL-20.v7         Calibration Procedure for Validation Sources in air         August 24, 2021         Territical for calibration         Interview of the colspan="2">Calibration Procedure for Validation Sources in air         August 24, 2021         Territical for calibration         Cal Date (Certificate No.)         Territical for calibration         ID # Cal Date (Certificate No.)         SN: 104778 09-Apr-21 (No. 217-03291/03292)         SN: 103244 09-Apr-21 (No. 217-03291/03292)         SN: 103245 09-Apr-21 (No. 217-03343)         SN: 310982 / 06327 09-Apr-21 (No. 217-03344)         SN: 6B42420191 09-Oct-09 (In house check Oct-20)         SN: 05B42420191 09-Oct-09 (In house check Oct-20)





#### Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



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

Accreditation No.: SCS 0108

S

C

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Accredited by the Swiss Accreditation Service (SAS)

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

#### References

[1] ANSI-C63.19-2019 (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 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 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 dipole connector
  is set with a calibrated power meter connected and monitored with an auxiliary power meter connected to a
  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 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 positioner 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 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 phantom 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 is essential for the accuracy.
- Feed Point Impedance and Return Loss: These parameters are measured using a 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 obstacles.
- E-field distribution: E field is measured in the x-y-plane with an isotropic E-field probe with 100 mW forward power to the antenna 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 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%.

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### **Measurement Conditions**

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

DASY Version		
Phantom	DASY5	V52.10.4
	HAC Test Arch	
Distance Dipole Top - Probe Center	15 mm	
Scan resolution		
Frequency	dx, dy = 5 mm	
	835 MHz ± 1 MHz	
Input power drift		
	< 0.05 dB	

## Maximum Field values at 835 MHz

E-field 15 mm above dipole surface	condition		
Maximum measured above high end		Interpolated maximum	
Maximum masses la i	100 mW input power	112.2 V/m = 41.00 dBV/m	
Maximum measured above low end	100 mW input power		
Averaged maximum above arm		108.3 V/m = 40.69 dBV/m	
	100 mW input power	110.3 V/m ± 12.8 % (k=2)	

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

### Antenna Parameters

Frequency		
800 MHz	Return Loss	Impedance
835 MHz	17.2 dB	41.3 Ω - 9.3 jΩ
	24.6 dB	
880 MHz	16.0 dB	53.0 Ω + 5.2 jΩ
900 MHz		62.4 Ω - 13.0 jΩ
945 MHz	16.6 dB	52.4 Ω - 15.1 jΩ
	25.6 dB	46.0 Ω + 3.0 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

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

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

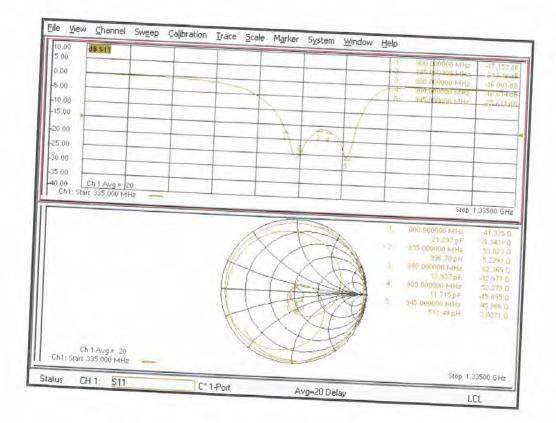
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## Impedance Measurement Plot



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Date: 24.08.2021

#### **DASY5 E-field Result**

Test Laboratory: SPEAG Lab2

## DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: CD835V3 - SN: 1023

Communication System: UID 0 - CW : Frequency: 835 MHz Medium parameters used:  $\sigma = 0$  S/m,  $\varepsilon_r = 1$ ;  $\rho = 0$  kg/m³ Phantom section: RF Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EF3DV3 SN4013; ConvF(1, 1, 1) @ 835 MHz; Calibrated: 28.12.2020 . .
- Sensor-Surface: (Fix Surface) .
- Electronics: DAE4 Sn781; Calibrated: 23.12.2020 •
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070 DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501) .

Dipole E-Field measurement @ 835MHz/E-Scan - 835MHz d=15mm/Hearing Aid Compatibility Test (41x361x1): Device Reference Point: 0, 0, -6.3 mm Reference Value = 133.6 V/m; Power Drift = -0.03 dB Applied MIF = 0.00 dB RF audio interference level = 41.00 dBV/mEmission category: M3

#### MIF scaled E-field

Grid 1 M3 40.62 dBV/m	Grid 2 M3 40.69 dBV/m	Grid 3 M3 40.38 dBV/m
Grid 4 M4		Grid 6 M4
a	Grid 8 M3	Grid 9 M3 40.67 dBV/m

