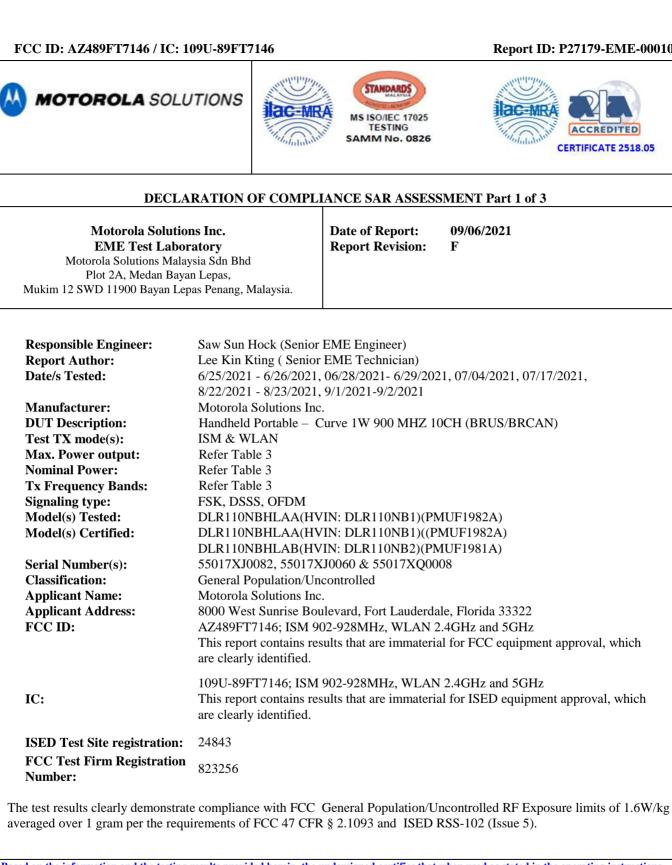
Report ID: P27179-EME-00010



Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 4.0 of this report (no deviation from standard methods). This report shall not be reproduced without written approval from an officially designated representative of the Motorola **Solutions Inc EME Laboratory.**

I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements. This reporting format is consistent with the suggested guidelines of the TIA TSB-150 December 2004. The results and statements contained in this report pertain only to the device(s) evaluated.



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Report Revision History

Date	Revision	Comments	
07/19/2021	А	Initial release	
07/28/2021	В	Updates WLAN antenna gain and IC model number.	
08/13/2021	С	Updates DUT, Body worn description and Antenna model name.	
08/26/2021	D	Updates Body worn part number	
09/02/2021	Е	To add on additional test data, equipment list and calibration certificate.	
09/06/2021	F	Split report into 3 parts to keep each part's file size less than 6MBytes	

1.0 Introduction

This report details the utilization, test setup, test equipment, and test results of the Specific Absorption Rate (SAR) measurements performed at the Motorola Solutions Inc. EME Test Laboratory for handheld portable model number DLR110NBHLAA(HVIN: DLR110NB1) (PMUF1982A). This device is classified as General Population/Uncontrolled.

2.0 FCC SAR Summary

	Table 1					
Equipment Class	Frequency band (MHz)	Max Calc at Body (W/kg)	Max Calc at Face (W/kg)			
	(141112)	1g-SAR	1g-SAR			
TNF	902-918 (ISM)	1.17	1.01			
DSS	2412-2462	0.124	NA			
NII	5725-5850	0.140	NA			

Note: Product software ergo will inhibit simultaneous transmit from ISM and WLAN. Only ISM or WLAN is allowed to transmit at a time, hence no simultaneous allowed to this product.

3.0 Abbreviations / Definitions

CNR: Calibration Not Required CW: Continuous Wave 8FSK: 8 Level, Frequency Shift Keying DUT: Device Under Test EME: Electromagnetic Energy NA: Not Applicable ISM: Industrial, Scientific and Medical PTT: Push to Talk RSM: Remote Speaker Microphone SAR: Specific Absorption Rate RSM: Remote Speaker Microphone DSS: Direct Spread Spectrum

Audio accessories: These accessories allow communication while the DUT is worn on the body.

Body worn accessories: These accessories allow the DUT to be worn on the body of the user.

Maximum Power: Defined as the upper limit of the production line final test station.

4.0 Referenced Standards and Guidelines

This product is designed to comply with the following applicable national and international standards and guidelines.

- IEC62209-1 (2016) Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)
- Federal Communications Commission, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields", OET Bulletin 65, FCC, Washington, D.C.: 1997.
- IEEE 1528 (2013), Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
- American National Standards Institute (ANSI) / Institute of Electrical and Electronics Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronics Engineers (IEEE) C95.1-2005
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998
- Ministry of Health (Canada) Safety Code 6 (2015), Limits of Human Exposure to Radio frequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz
- RSS-102 (Issue 5) Radio Frequency (RF) Exposure Compliance of Radio communication Apparatus (All Frequency Bands)
- Australian Communications Authority Radio communications (Electromagnetic Radiation -Human Exposure) Standard (2014)
- ANATEL, Brazil Regulatory Authority, Resolution No. 303 of July 2, 2002 "Regulation of the limitation of exposure to electrical, magnetic, and electromagnetic fields in the radio frequency range between 9 kHz and 300 GHz." and "Attachment to resolution # 303 from July 2, 2002"
- IEC62209-2 Edition 1.0 2010-03, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Human models, instrumentation, and procedures Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz).
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 RF Exposure Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 648474 D04 Handset SAR v01r03

5.0 SAR Limits

	SAR (W/kg)				
EXPOSURE LIMITS	(General Population /	(Occupational /			
	Uncontrolled Exposure Environment)	Controlled Exposure Environment)			
Spatial Average - ANSI -					
(averaged over the whole body)	0.08	0.4			
Spatial Peak - ANSI -					
(averaged over any 1-g of tissue)	1.6	8.0			
Spatial Peak – ICNIRP/ANSI -					
(hands/wrists/feet/ankles averaged over 10-g)	4.0	20.0			
Spatial Peak - ICNIRP -					
(Head and Trunk 10-g)	2.0	10.0			

Table 2

6.0 Description of Device Under Test (DUT)

This portable device is operating in digital two-way communication architecture. This device operates in the 900MHz Industrial, Scientific and Medical (ISM) band. It is a spread spectrum protocol utilizing 2, 4, and 8FSK (Frequency Shift Keying). Radio protocol duty cycle is 95%. User transmit duty cycle is 50% (50%Talk and 50% listen). It also contains WLAN technologies.

The models represented under this filing utilizes fixed antenna capable of transmitting in the 902-928 MHz band respectively. The nominal output powers are 0.8 W with maximum output powers of 1.0 W as defined by upper limit of the production line final test station.

This device has the capability of operating with voice commands through ViQi over the cloud via Wi-Fi connection for login and logout over the cloud Portal. The voice commands triggers ISM call and send or retrieve voice message from the cloud Portal. Software ergo will inhibit simultaneous transmit from ISM and Wi-Fi. Only ISM or Wi-Fi transmission is allowed to transmit at a time.

The intended operating positions are "at the face" with the DUT at least 2.5cm from the mouth, and "at the body" by means of the offered body worn accessories. Body worn audio and PTT operation is accomplished by means of optional remote accessories that are connected to the radio.

Table 3 below summarizes the technologies, bands, maximum duty cycles and maximum output powers. Maximum output powers are defined as upper limit of the production line final test station.

Table 3							
Radio Type	Band (MHz)	Transmission	Duty Cycle (%)	Max Power (W)			
ISM	902-928	FSK	*50	1.00			
WLAN 802.11b (20MHz)		DSSS	100	0.0631			
WLAN 802.11g (20MHz)	2412 2462	OFDM	100	0.0316			
WLAN 802.11n (20MHz)	- 2412-2462	OFDM	100	0.0251			
WLAN 802.11n (40MHz)		OFDM	100	0.0178			
WLAN 802.11a (20MHz)	5745-5825	OFDM	100	0.0224 (5745-5805MHz) 0.0126 (5825MHz)			
WLAN 802.11n (20MHz)	5745-5825	OFDM	100	0.0170 (5745-5805MHz) 0.0126 (5825MHz)			
WLAN 802.11n (40MHz)	5745-5825	OFDM	100	0.0158 (5755,5795Mhz)			

Note - * includes 50% PTT operation

7.0 Optional Accessories and Test Criteria

This device is offered with optional accessories. All accessories were individually evaluated during the test plan creation to determine if testing was required per the guidelines outlined in section 4.0 to assess compliance of this device. The following sections identify the test criteria and details for each accessory category. Refer to Exhibit 7B for antenna separation distances.

7.1 Antennas

This is only 1 fixed antennas and one internal WLAN antenna offered for this product. The Table below lists their descriptions.

Antenna No.	Antenna Models	Description	Selected for test	Tested			
1	Curve Fixed Antenna	902-928MHz, ¹ /2wave, 4.99 dBi	Yes	Yes			
2	Curve Wi-Fi Antenna	2.4-2.5 GHz, 1/4wave, 0.57dBi ; 5.15-5.35 GHz and 5.825-5.875GHz, 1/4wave, 2.95 dBi	Yes	Yes			

Table 4

7.2 Batteries

There are two batteries offered for this product. The Table below lists their descriptions.

Battery No.	Battery Models	Description	Selected for test	Tested	Comments
1	HKNN4013ASP01	Battery, BT90 1800Mah Li-ion Battery 3.7V Kit	Yes	Yes	
2	PMNN4578A	Battery Pack, Battery Pack, Batt Li-ion 2500T	Yes	Yes	

Table 5

7.3 Body worn Accessory

There is only 1 carry accessory offered to this product. The Table below lists the descriptions.

Table 6					
Models	Description	Comments			
PMLN8392A	Curve Holster Kit				

7.4 Audio Accessory

There is only 1 audio accessory offered to this product. The Table below lists the descriptions.

Table 7					
Models	Comments				
PMLN8311A	Audio Accessory-Earpiece, Over-The-Ear Earpiece With Ear-tip, 2.5mm Single Pin, Angled				

8.0 Description of Test System



8.1 Descriptions of Robotics/Probes/Readout Electronics

Table 8

Dosimetric System type	System version	DAE type	Probe Type
Schmid & Partner Engineering AG SPEAG DASY 5	52.10.4.1527	DAE4	EX3DV4 (E-Field)

The DASY5TM system is operated per the instructions in the DASY5TM Users Manual. The complete manual is available directly from SPEAGTM. All measurement equipment used to assess SAR compliance was calibrated according to ISO/IEC 17025 A2LA guidelines. Section 9.0 presents additional test equipment information. Appendices B and C present the applicable calibration certificates. The E-field probe first scans a coarse grid over a large area inside the phantom in order to locate the interpolated maximum SAR distribution. After the coarse scan measurement, the probe is automatically moved to a position at the interpolated maximum. The subsequent scan can directly use this position as reference for the cube evaluations.

Phantom Type	Phantom(s) Used	Material Parameters	Phantom Dimensions LxWxD (mm)	Material Thickness (mm)	Support Structure Material	Loss Tangent (wood)
Triple Flat	NA	200MHz - 6GHz; Er = 3-5, Loss Tangent = ≤ 0.05	280x175x175			
SAM	NA	300MHz - 6GHz; Er = < 5, Loss Tangent = ≤ 0.05	Human Model	2mm +/- 0.2mm	Wood	< 0.05
Oval Flat	\checkmark	300MHz - 6GHz; Er = 4+/- 1, Loss Tangent = ≤ 0.05	600x400x190			

Table 0

8.2 **Description of Phantom(s)**

8.3 Description of Simulated Tissue

The sugar based simulate tissue is produced by placing the correct measured amount of De-ionized water into a large container. Each of the dried ingredients are weighed and added to the water carefully to avoid clumping. If the solution has a high sugar concentration the water is pre-heated to aid in dissolving the ingredients. For Diacetin and similar type simulates, sugar and HEC ingredients are not needed. The solution is mixed thoroughly, covered, and allowed to sit overnight prior to use.

The simulated tissue mixture was mixed based on the Simulated Tissue Composition indicated in Table 10. During the daily testing of this product, the applicable mixture was used to measure the Di-electric parameters at each of the tested frequencies to verify that the Di-electric parameters were within the tolerance of the tissue specifications.

		Table 10				
Ingredients	835MHz	900MHz	2.4GHz	5.0GHz ⁽¹⁾		
ingreutents		Head				
Sugar	57.0	56.5	NA	NA		
Diacetin	NA	NA	51.0	NA		
De-ionized Water	40.45	40.95	48.75	NA		
Salt	1.45	1.45	0.15	NA		
HEC	1	1.0	NA	NA		
Bact.	0.1	0.1	0.1	NA		

Simulated Tissue Composition (percent by mass) Table 10

Note: (1) SPEAG provides Motorola proprietary stimulant ingredients.

9.0 Additional Test Equipment

The Table below lists additional test equipment used during the SAR assessment.

Table 11							
Equipment Type	Model Number	Serial Number	Calibration Date	Calibration Due Date			
SPEAG PROBE	EX3DV4	7534	04/19/2021	04/19/2022			
SPEAG PROBE	EXDV4	7486	06/18/2021	06/18/2022			
SPEAG PROBE	EX3DV4	7533	04/19/2021	04/19/2022			
SPEAG DAE	DAE3	374	04/08/2021	04/08/2022			
SPEAG DAE	DAE4	1598	04/07/2021	04/07/2022			
SPEAG DAE	DAE4	1488	04/07/2021	04/07/2022			
AMPLIFIER POWER	50W 1000A	14715	CNR	CNR			
AMPLIFIER POWER	5S4G11	312663	CNR	CNR			
POWER AMPLIFIER	5S1G4	312988	CNR	CNR			
POWER AMPLIFIER	5S4G11	312664	CNR	CNR			
POWER METER	E4418B	GB40206480	11/25/2020	11/25/2021			
POWER METER	E4419B	GB42420608	11/27/2020	11/27/2021			
POWER METER	E4419B	MY45103725	06/29/2021	06/29/2022			
POWER METER	E4418B	MY45100739	12/03/2020	12/03/2021			
POWER METER	E4418B	MY45100739	12/03/2020	12/03/2021			
POWER METER*	E4416A	MY50001037	08/30/2019	08/30/2021			
POWER METER	E4417A	GB41292245	11/27/2020	11/27/2021			
POWER SENSOR	E4412A	MY61060015	04/21/2021	04/21/2022			
POWER SENSOR	E9301B	MY50280001	05/07/2021	05/07/2022			
POWER SENSOR	E9301B	MY55210003	05/29/2021	05/29/2022			
POWER SENSOR	E9301B	MY41495733	05/29/2021	05/29/2022			
POWER SENSOR	8481B	MY41091243	11/03/2020	11/03/2021			
POWER SENSOR	E9301B	MY41495594	05/29/2021	05/29/2022			
POWER SUORCE	SE UMS 160 CA	4251	05/14/2021	05/14/2022			
BI-DIRECTIONAL COUPLER	3022	81640	07/08/2021	07/08/2022			
BI-DIRECTIONAL COUPLER	3024	61182	07/08/2021	07/08/2022			
BI-DIRECTIONAL COUPLER*	3020A	41931	07/09/2020	07/09/2021			
BI-DIRECTIONAL COUPLER	3024	61178	11/23/2020	11/23/2021			
VECTOR SIGNAL GENERATOR	E4438C	MY45091270	09/04/2019	09/04/2021			
VECTOR SIGNAL GENERATOR	E4438C	MY47272101	10/29/2019	10/29/2021			
DATA LOGGER*	DSB	16398050	08/03/2020	08/03/2021			
DATA LOGGER	DSB	16398306	11/24/2020	11/24/2021			
TEMPERATURE PROBE	80PK-22	06032017	11/25/2020	11/25/2021			
THERMOMETER	HH806AU	080307	11/25/2020	11/25/2021			
THERMOMETER	HH806AU	080307	11/25/2020	11/25/2021			
TEMPERATURE PROBE	80PK-22	06032017	11/25/2020	11/25/2021			
NETWORK ANALYZER	E5071B	MY42403147	12/01/2020	12/01/2021			
DIELECTRIC ASSESSMENT KIT*	DAK-3.5	1120	08/12/2020	08/12/2021			
DIELECTRIC ASSESSMENT KIT	DAK-3.5	1156	04/07/2021	04/07/2022			
POWER SENSOR	NRP-Z11	120907	08/19/2020	08/19/2022			

Note: "*" Equipment used for test dates prior to equipment calibration due date.

Equipment Type	Model Number	Serial Number	Calibration Date	Calibration Due Date
SPEAG DIPOLE	D835V2	4D030	10/15/2018	10/15/2021
SPEAG DIPOLE	D900V2	085	10/15/2018	10/15/2021
SPEAG DIPOLE	D2450V2	703	10/16/2018	10/16/2021
SPEAG DIPOLE	D5GHzV2	1027	1/31/2020	01/31/2023

Table 11 (Continue)

10.0 SAR Measurement System Validation and Verification

DASY output files of the probe/dipole calibration certificates and system verification test results are included in appendices B, C & D respectively.

10.1 **System Validation**

The SAR measurement system was validated according to procedures in KDB 865664. The validation status summary Table is below.

Dates		Probe Calibration Point		Measured Tissue Parameters		Validation		
	10	mı	SN	σ	€r	Sensitivity	Linearity	Isotropy
	CW							
05/02/2021	Head	835		0.93	39.5	Pass	Pass	Pass
05/04/2021	Head	900	7534	1.01	40.90	Pass	Pass	Pass
05/05/2021	Head	2450	/334	1.78	37.60	Pass	Pass	Pass
05/08/2021	Head	5750		4.80	38.30	Pass	Pass	Pass
07/13/2021	Head	2450	7486	1.81	36.10	Pass	Pass	Pass
05/23/2021	Head	2450	7533	1.89	39.60	Pass	Pass	Pass

TT 1 1 1 1

10.2 **System Verification**

System verification checks were conducted each day during the SAR assessment. The results are normalized to 1W. Appendix D includes DASY plots for each day during the SAR assessment. The Table below summarizes the daily system check results used for the SAR assessment.

	Table 13								
Probe Serial #	Tissue Type	Dipole Kit / Serial #	Ref SAR @ 1W (W/kg)	System Check Results Measured (W/kg)	System Check Test Results when normalized to 1W (W/kg)	Tested Date			
			SPEAG D835V2 / 4D030	9.55 +/- 10%	2.56	10.24	06/25/2021#		
7524	IEEE/IEC	SPEAG D900V2 / 085	10.80 +/- 10%	2.69	10.76	06/28/2021#			
/534	7534 Head	SPEAG D2450V2 / 703	52.90 +/-10%	13.90	55.60	06/28/2021			
		SPEAG D5GHzV2/	7.47	74.74	07/03/2021#				
		1027	79.73+/-10%	8.41	84.1	07/16/2021#			

Note: '#' indicates that system verification check covers next test day

Probe Serial #	Tissue Type	Dipole Kit / Serial #	Ref SAR @ 1W (W/kg)	System Check Results Measured (W/kg)	System Check Test Results when normalized to 1W (W/kg)	Tested Date
7486	IEEE/IEC	SPEAG D2450V2 / 703	52.90 +/	14.00	56.00	08/22/2021#
7533	Head	SPEAG D2450V2 / 703	52.90 +/	14.00	56.00	09/01/2021#

Table 13 (Continue)

Note: '#' indicates that system verification check covers next test day

10.3 Equivalent Tissue Test Results

Simulated tissue prepared for SAR measurements is measured daily and within 24 hours prior to actual SAR testing to verify that the tissue is within +/-5% of target parameters at the center of the transmit band. This measurement is done using the applicable equipment indicated in section 9.0. The Table below summarizes the measured tissue parameters used for the SAR assessment.

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
835		0.9 (0.86-0.95)	41.5 (39.4-43.6)	0.94	41.20	06/25/2021#
900		0.97 (0.92-1.02)	41.5 (39.4-43.6)	0.99	41.30	06/28/2021#
902		0.97	41.5	1.00	40.40	06/25/2021#
	-	(0.92-1.02)	(39.4-43.6)			06/28/2021#
915		0.98 (0.93-1.03)	41.5 (39.4-43.6)	1.02	40.20	06/25/2021# 06/28/2021#
928		0.99 (0.94-1.03)	41.5 (39.4-43.5)	1.03	40.00	06/28/2021#
	IEEE/			1.89	39.80	06/28/2021
2450	IEC Head	1.8	39.2	1.88	39.2	08/22/2021#
2430		(1.71-1.89)	(35.3-43.1)	1.89	40.6	09/01/2021#
				1.88	39.2	08/22/2021#
2412		1.77	39.3	1.85	36.0	06/28/2021
2412		(1.68-1.86)	(35.3-43.2)	1.85	40.7	09/01/2021#
2437		1.79	39.2	1.88	35.90	06/28/2021
2437		(1.7-1.88)	(35.3-43.1)	1.87	39.3	08/22/2021#
2462		1.81	39.2	1.90	35.80	06/28/2021
2402		(1.72-1.9)	(35.3-43.1)	1.90	40.5	09/01/2021#

Table 14

Note: '#' indicates that tissue test result covers next test day (within 24 hours)

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
5750		5.22 (4.7-5.74)	35.4 (31.8-38.9)	4.84	36.80	
5745		5.22 (4.69-5.74)	35.4 (31.8-38.9)	4.83	36.80	07/03/2021#
5785	IEEE/ IEC Head	5.26 (4.73-5.78)	35.3 (31.8-38.8)	4.87	36.80	
5825		5.3	35.3	4.84	36.80	07/03/2021#
5025		(4.77-5.83)	(31.7-38.8)	4.74	37.40	07/16/2021#

Table 14 (Continue)

Note: '#' indicates that tissue test result covers next test day (within 24 hours)

11.0 Environmental Test Conditions

The EME Laboratory's ambient environment is well controlled resulting in very stable simulated tissue temperature and therefore stable dielectric properties. Simulated tissue temperature is measured prior to each scan to insure it is within $+/-2^{\circ}C$ of the temperature at which the dielectric properties were determined. The liquid depth within the phantom used for measurements was at least 15cm. Additional precautions are routinely taken to ensure the stability of the simulated tissue such as covering the phantoms when scans are not actively in process in order to minimize evaporation. The lab environment is continuously monitored. The Table below presents the range and average environmental conditions during the SAR tests reported herein:

	Table 15	
	Target	Measured
Ambient Temperature	18 – 25 °C	Range: 20.7 – 22.7°C Avg. 22.0 °C
Tissue Temperature	18 – 25 °C	Range: 20.6-21.9°C Avg. 21.5°C

Relative humidity target range is a recommended target

The EME Lab RF environment uses a Spectrum Analyzer to monitor for extraneous large signal RF contaminants that could possibly affect the test results. If such unwanted signals are discovered the SAR scans are repeated.

12.0 **DUT Test Setup and Methodology**

12.1 **Measurements**

SAR measurements were performed using the DASY system described in section 8.0 using zoom scans. Oval flat phantoms filled with applicable simulated tissue were used for body and face testing.

The Table below includes the step sizes and resolution of area and zoom scans per KDB 865664 requirements.

Table 16						
Descr	iption	≤3 GHz	> 3 GHz			
Maximum distance from close (geometric center of probe ser	-	$5\pm1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$			
Maximum probe angle from p normal at the measurement loo	-	$30^{\circ} \pm 1^{\circ}$	$20^\circ\pm1^\circ$			
		\leq 2 GHz: \leq 15 mm	$3-4$ GHz: ≤ 12 mm			
		$2-3$ GHz: ≤ 12 mm	$4-6$ GHz: ≤ 10 mm			
		When the x or y dimension	on of the test device, in			
Maximum area scan spatial	resolution: Δx Area, Δy Area	the measurement plane orientation, is smaller				
Waxiniuni area sean spatiar		than the above, the measurement resolution must				
		be \leq the corresponding x or y dimension of the				
		test device with at least one measurement point				
		on the test device.				
Maximum zoom scan spatial r	esolution: $\Delta xZoom$, $\Delta yZoom$	\leq 2 GHz: \leq 8 mm	$3 - 4 \text{ GHz} \le 5 \text{ mm}^*$			
		$2-3 \text{ GHz} \le 5 \text{ mm}^*$	$4 - 6 \text{ GHz} \le 4 \text{ mm}^*$			
Maximum zoom scan spatial	uniform grid: ΔzZoom(n)		$3 - 4 \text{ GHz}: \le 4 \text{ mm}$			
resolution, normal to		\leq 5 mm	$4-5$ GHz: ≤ 3 mm			
phantom surface			$5-6 \text{ GHz}: \le 2 \text{ mm}$			
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard						
IEEE P1528-2011 for details.						
* When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures						

Table 16

When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures

of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

12.2 **DUT** Configuration(s)

The DUT is a portable device operational at the body and face as described in section 6.0 while using the applicable accessories listed in section 7.0. All accessories listed in section 7.0 of this report were considered when implementing the guidelines specified in KDB 643646.

12.3 DUT Positioning Procedures

The positioning of the device for each body location is described below and illustrated in Appendix G.

12.3.1 Body

The DUT was positioned in normal use configuration against the phantom with the offered body worn accessory as well as with and without the offered audio accessories as applicable.

12.3.2 Head

Not applicable.

12.3.3 Face

The DUT was positioned with its' front and back sides separated 2.5cm from the phantom.

12.4 DUT Test Channels

The number of test channels was determined by using the following IEEE 1528 equation. The use of this equation produces the same or more test channels compared to the FCC KDB 447498 number of test channels formula.

$$N_c = 2 * roundup[10 * (f_{high} - f_{low}) / f_c] + 1$$

Where

 N_c = Number of channels F_{high} = Upper channel F_{low} = Lower channel F_c = Center channel

12.5 SAR Result Scaling Methodology

The calculated 1-gram averaged SAR results indicated as "Max Calc. 1g-SAR in the data Tables is determined by scaling the measured SAR to account for power leveling variations and drift. Appendix F includes a shortened scan to justify SAR scaling for drift. For this device the "Max Calc. 1g-SAR is scaled using the following formula:

$$Max_Calc = SAR_meas \cdot 10^{\frac{-Drift}{10}} \cdot \frac{P_max}{P_int} \cdot DC$$

```
P_max = Maximum Power (W)

P_int = Initial Power (W)

Drift = DASY drift results (dB)

SAR_meas = Measured 1-g. SAR (W/kg)

DC = Transmission mode duty cycle in % where applicable

50% duty cycle is applied for PTT operation
```

```
Note: for conservative results, the following are applied:
If P_int > P_max, then P_max/P_int = 1.
Drift = 1 for positive drift
```

Additional SAR scaling was applied using the methodologies outlined in FCC KDB 865664 using tissue sensitivity values. SAR was scaled for conditions where the tissue permittivity was measured above the nominal target and for tissue conductivity that was measured below the nominal target. Negative or reduced SAR scaling is not permitted.

12.6 DUT Test Plan

The guidelines and requirements outlined in section 4.0 were used to assess compliance of this device. All modes of operation identified in section 6.0 were considered during the development of the test plan. All tests were performed in CW modes and 50% duty cycle was applied to PTT configurations in the final results. WLAN tests were performed in 802.11b & a mode using a duty cycle of 100% with result as per guidelines of KDB 248227.

13.0 DUT Test Data

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13.1 Assessments at the Body for 902-928MHz band

Conducted power measurements for all test channels within FCC allocated frequency range (902-928MHz) which are listed in Table 17. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

Table 17								
Test Freq (MHz)	Power (W)							
902.0125	0.89							
925.0000	0.87							
927.9875	0.86							

Assessments at the Body

Assessment of antenna with batteries, body worn accessory and audio accessory were performed.

	12016-16									
Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Max Calc. 1g- SAR (W/kg)	Run#	
				902.0125	0.89	-0.31	1.39	0.84	BL(AF)-AB-210625-13	
Fixed antenna	HKNN4013ASP01	PMLN8392A	PMLN8311A	915.0000	0.87	-0.34	1.38	0.86	BL(AF)-AB-210625-14	
untennu				927.9875	0.86	-0.31	1.47	0.92	BL(AF)-AB-210625-15	
	Assessment of Additional Battery									
Fixed antenna	PMNN4578A	PMLN8392A	PMLN8311A	927.9875	0.88	-0.34	1.75	1.07	BL(AF)-AB-210625-16	

Table 18

13.2 Assessments at the Face for

Assessment of the offered antenna with batteries with front of the DUT positioned 2.5 cm facing phantom. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

	Table 19										
Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Max Calc. 1g- SAR (W/kg)	Run#		
				902.0125	0.89	-0.49	1.54	0.97	BL(AF)-FACE-210626-03#		
Fixed antenna	HKNN4013ASP01	None	None	915.0000	0.87	-0.36	1.40	0.87	AR(SAN)-FACE-210629-02#		
untennu				927.9875	0.86	-0.36	1.35	0.85	AR(SAN)-FACE-210629-03#		
	Assessment of Additional Battery										
Fixed antenna	PMNN4578A	None	None	902.0125	0.88	-0.40	1.65	1.01	BL(AF)-FACE-210626-07#		

13.3 WLAN assessments at the Body for 2.4GHz (802.11 b/g/n)

The tables below represent the output power measurements for WLAN 2.4GHz 802.11 b/g/n for assessment at the Body. These power measurements were used to determine the necessary modes for SAR testing according to KDB 248227 D01 SAR Measurement Procedures for 802.11 Transmitters. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

	Table 20											
Band	Mode	Ch. BW	Ch.	Freq. (MHz)	Measured conducted power (W)	Antenna max power (W)						
	802.11b		1	2412	0.0437							
	(1Mbps)	20	6	2437	0.0438	0.0631						
			11	2462	0.0442							
	802.11g (6Mbps)	20	1	2412	0.0236							
			6	2437	0.0258	0.0316						
2.4 GHz			11	2462	0.0256							
	902 11m		1	2412	0.0200							
	802.11n (6.5Mbps)	20	6	2437	0.0216	0.0251						
			11	2462	0.0207							
	802.11n (13.5Mbps)	40	3	2422	0.0126	0.0178						

Note: 802.11b was chosen over 802.11 g & n for testing because it has the highest max power.

Assessments at the Body

Table below presents the data of the body assessment.

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Run#		
Fixed antenna	PMNN4578A	PMLN8392A	None	2462.0000	0.0442	-0.31	0.081	0.124	FZ-AB-210902- 01#		
	Assessment of Additional Battery										
Fixed antenna	HKNN4013ASP01	PMLN8392A	None	2462.0000	0.0520	-0.24	0.046	0.059	MA(MFR)-AB- 210628-03		

Table 21

13.4 WLAN assessments at the Face for 2.4GHz (802.11 b/g/n)

Not applicable. Software ergo will inhibit simultaneous transmit from ISM and WLAN. Only ISM or WLAN is allowed to transmit at a time, hence the face configuration test is not required to perform.

13.5 WLAN assessments at the Body for 5GHz (802.11 a/n)

The tables below represent the output power measurements for WLAN 5.0GHz 802.11 a/n for assessment at the Body These power measurements were used to determine the necessary modes for SAR testing according to KDB 248227 D01 SAR Measurement Procedures for 802.11 Transmitters. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

			able 22			
Band	802.11	Ch. BW	Ch.	Freq. (MHz)	Measured conducted power (W)	Max power (W)
			149	5745	0.020	0.0224
U-NII-3 (5.65-5.85 GHz)	а	20	157	5785	0.019	0.0224
			165	5825	0.011	0.0126
		20	149	5745	0.016	0.0170
			157	5785	0.015	0.0170
	n		165	5825	0.010	0.0126
		40	151	5755	0.014	0.0159
		40	159	5795	0.014	0.0158

Γ	al	ble	22

Assessments at the Body

Table below presents the data of the body assessment.

Table	23
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			= ****						
Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Run#
Fixed antenna	PMNN4578A	PMLN8392A	None	5745.0000	0.020	0.06	0.0091	0.102	BL(SAN)- AB-210704- 03#
			Assessment of A	dditional Batt	ery				
Fixed antenna	HKNN4013ASP01	PMLN8392A	None	5745.0000	0.020	-0.42	0.0071	0.088	BL(SAN)- AB-210704- 01#

13.6 WLAN assessments at the Face for 5GHz (802.11 a/n)

Not applicable. Software ergo will inhibit simultaneous transmit from ISM and WLAN. Only ISM or WLAN is allowed to transmit at a time, hence the face configuration test is not required to perform.

13.7 Assessment for ISED, Canada

As per ISED Notice 2016-DRS001, additional tests were required for the low, mid and high frequency channels for the configuration with highest SAR value. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

	Table 24										
Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Run#		
				Body (ISM	band)						
				902.0125	0.90	-0.37	1.93	1.17	BL(AF)-AB-210626-04#		
Fixed antenna	PMNN4578A	PMLN8392A	PMLN8311A	915.0000	0.89	-0.26	1.77	1.06	BL(AF)-AB-210626-05#		
				927.9875	0.88	-0.34	1.75	1.07	BL(AF)-AB-210625-16		
				Body (2.40	GHz)						
				2412.0000	0.0437	-0.11	0.064	0.095	FZ-AB-210901-06		
Fixed antenna	PMNN4578A	PMLN8392A	None	2437.0000	0.0438	-0.12	0.083	0.1235	AR-AB-210823-01#		
				2462.0000	0.0442	-0.31	0.081	0.1240	FZ-AB-210902-01#		
				Body (5.00	GHz)						
				5745.0000	0.020	0.06	0.091	0.102	BL(SAN)-AB-210704-03#		
Fixed antenna PMNN4578A	PMLN8392A	None	5785.0000	0.019	-0.40	0.108	0.140	BL(SAN)-AB-210704-04#			
				5825.0000	0.011	-0.34	0.094	0.116	MFR-AB-210717-05#		

Table 25

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Run#
				Face (ISM ba	und)				
				902.0125	0.90	-0.40	1.65	1.01	BL(AF)-FACE-210626-07#
Fixed antenna	PMNN4578A	None	None	915.0000	0.89	-0.38	1.62	0.99	BL(AF)-FACE-210626-01#
				927.9875	0.88	-0.40	1.53	0.95	BL(AF)-FACE-210626-02#

13.8 Shortened Scan Assessment

A "shortened" scan using the highest SAR configuration overall from above was performed to validate the SAR drift of the full DASY5TM coarse and zoom scans. Note that the shortened scan represents the zoom scan performance result; this is obtained by first running a coarse scan to find the peak area and then, using a newly charged battery, a zoom scan only was performed. The results of the shortened cube scan presented in Appendix D demonstrate that the scaling methodology used to determine the calculated SAR results presented herein are valid. The SAR result from the Table below is provided in Appendix F.

			Ia	ole 20					
								Max	
					Init	SAR	Meas.	Calc.	
		Carry	Cable	Test Freq	Pwr	Drift	1g-SAR	1g-SAR	
Antenna	Battery	Accessory	Accessory	(MHz)	(W)	(dB)	(W/kg)	(W/kg)	Run#
Fixed antenna	PMNN4578A	PMLN8392A	PMLN8311A	902.0125	0.90	-0.23	1.86	1.09	BL(AF)-AB- 210626-08#

Table 26

14.0 Results Summary

Based on the test guidelines from section 4.0 and satisfying frequencies within FCC bands and ISED Canada Frequency bands, the highest Operational Maximum Calculated 1-gram SAR values found for this filing:

	1 ao	ole 27								
Designator	Frequency band (MHz)	Max Calc at Body (W/kg)	Max Calc at Face (W/kg)							
0		1g-SAR	1g-SAR							
	FCC U.S & ISED Canada									
ISM	902-928MHz	1.17	1.01							
WLAN	2.4 GHz	0.124	NA							
WLAN	5 GHz	0.140	NA							

Table 27

All results are scaled to the maximum output power.

The test results clearly demonstrate compliance with FCC General Population/Uncontrolled RF Exposure limits of 1.6 W/kg averaged over 1 gram per the requirements of FCC 47 CFR § 2.1093.

15.0 Variability Assessment

Per the guidelines in KDB 865664 SAR variability assessment is required because SAR results are above 0.8W/kg (General population) Choose applicable condition.

The Table below includes test results of the original measurement(s), the repeated measurement(s), and the ratio (SAR $_{high}/SAR_{low}$) for the applicable test configuration(s).

Run#	Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq. (MHz)	Adj Calc. 1g-SAR (W/kg)	Ratio	Comments		
BL(AF)-AB- 210626-04#	Fixed antenna	PMNN4578A	DMI N8302 A	DMI N8211A	902.0125	1.17	1.07	No additional repeated scans is required due to		
BL(AF)-AB- 210626-08#	Fixed antenna	r winn4378A	FWILN0392A	FWILINOSTIA	902.0125	1.09	1.07	the Ratio (SAR _{high} /SAR _{low}) < 1.20		

Table 28

16.0 System Uncertainty

A system uncertainty analysis is not required for this report per KDB 865664 because the highest report SAR value for General Population exposure is less than 1.5 W/kg.

Per the guidelines of ISO/IEC 17025 a reported system uncertainty is required and therefore measurement uncertainty budget is included in Appendix A.

Appendix A Measurement Uncertainty Budget

Uncertainty Budget for System Validation (dipole & flat phantom) for 800 MHz to 3 GHz

GIIZ									
а	b	С	d	e = f(d,k)	f	g	h = c x f / e	i = c x g / e	k
Uncertainty Component	IEEE 1528 section	Tol. (± %)	Prob. Dist.	Div.	<i>c</i> _i (1 g)	c _i (10 g)	$\frac{1 \text{ g}}{u_i}$	$\frac{10 \text{ g}}{u_i}$	v _i
Measurement System							(±%)	(±%)	
Probe Calibration	E.2.1	6.0	N	1.00	1	1	6.0	6.0	∞
Axial Isotropy	E.2.2	4.7	R	1.73	1	1	2.7	2.7	~ ~
Spherical Isotropy	E.2.2	9.6	R	1.73	0	0	0.0	0.0	×
Boundary Effect	E.2.3	1.0	R	1.73	1	1	0.6	0.6	×
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	00
System Detection Limits	E.2.5	1.0	R	1.73	1	1	0.6	0.6	×
Readout Electronics	E.2.6	0.3	N	1.00	1	1	0.3	0.3	×
Response Time	E.2.7	1.1	R	1.73	1	1	0.6	0.6	×
Integration Time	E.2.8	0.0	R	1.73	1	1	0.0	0.0	×
RF Ambient Conditions - Noise	E.6.1	3.0	R	1.73	1	1	1.7	1.7	×
RF Ambient Conditions - Reflections	E.6.1	0.0	R	1.73	1	1	0.0	0.0	×
Probe Positioner Mechanical Tolerance	E.6.2	0.4	R	1.73	1	1	0.2	0.2	×
Probe Positioning w.r.t. Phantom	E.6.3	1.4	R	1.73	1	1	0.8	0.8	×
Max. SAR Evaluation (ext., int., avg.)	E.5	3.4	R	1.73	1	1	2.0	2.0	∞
Dipole									
Dipole Axis to Liquid Distance	8, E.4.2	2.0	R	1.73	1	1	1.2	1.2	×
Input Power and SAR Drift Measurement	8, 6.6.2	5.0	R	1.73	1	1	2.9	2.9	×
Phantom and Tissue Parameters									
Phantom Uncertainty	E.3.1	4.0	R	1.73	1	1	2.3	2.3	œ
Liquid Conductivity (target)	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	×
Liquid Conductivity (measurement)	E.3.3	3.3	R	1.73	0.64	0.43	1.2	0.8	×
Liquid Permittivity (target)	E.3.2	5.0	R	1.73	0.6	0.49	1.7	1.4	×
Liquid Permittivity (measurement)	E.3.3	1.9	R	1.73	0.6	0.49	0.6	0.5	×
Combined Standard Uncertainty			RSS				9	9	9999 9
Expanded Uncertainty (95% CONFIDENCE LEVEL)			<i>k</i> =2				18	17	

Notes for uncertainty budget Tables:

a) Column headings *a*-*k* are given for reference.

b) Tol. - Tolerance in influence quantity.

c) Prob. Dist. - Probability distribution

d) N, R - normal, rectangular probability distributions

e) Div. - divisor used to translate tolerance into normally distributed standard uncertainty f) ci - sensitivity coefficient that should be applied to convert the variability of the

uncertainty component into a variability of SAR.

g) ui - SAR uncertainty

Uncertainty Budget for Device Under Test, for 800 MHZ to 5 GHZ									
а	b	С	d	e = f(d,k)	f	g	h = cxf/e	<i>i</i> = <i>c x g / e</i>	k
	IEEE	Tol.	Prob		c_i	<i>c</i> _i	1 g	10 g	
Uncertainty Component	1528 section	(± %)	Dist	Div.	(1 g)	(10 g)	\boldsymbol{u}_i	\boldsymbol{u}_i	<i>v</i> _i
							(±%)	(±%)	
Measurement System	E 0 1	6.0	N	1.00	1	1	6.0	()	
Probe Calibration	E.2.1	6.0	N	1.00	1	1	6.0	6.0	8 S
Axial Isotropy	E.2.2	4.7	R	1.73	0.707	0.707	1.9	1.9	8
Hemispherical Isotropy	E.2.2	9.6	R	1.73	0.707	0.707	3.9	3.9	00
Boundary Effect	E.2.3	1.0	R	1.73	1	1	0.6	0.6	00
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	8
System Detection Limits	E.2.5	1.0	R	1.73	1	1	0.6	0.6	∞
Readout Electronics	E.2.6	0.3	Ν	1.00	1	1	0.3	0.3	∞
Response Time	E.2.7	1.1	R	1.73	1	1	0.6	0.6	∞
Integration Time	E.2.8	1.1	R	1.73	1	1	0.6	0.6	∞
RF Ambient Conditions - Noise	E.6.1	3.0	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	0.0	R	1.73	1	1	0.0	0.0	∞
Probe Positioner Mech. Tolerance	E.6.2	0.4	R	1.73	1	1	0.2	0.2	8
Probe Positioning w.r.t Phantom	E.6.3	1.4	R	1.73	1	1	0.8	0.8	8 S
Max. SAR Evaluation (ext., int., avg.)	E.5	3.4	R	1.73	1	1	2.0	2.0	8
Test sample Related									
Test Sample Positioning	E.4.2	3.2	N	1.00	1	1	3.2	3.2	29
Device Holder Uncertainty	E.4.1	4.0	Ν	1.00	1	1	4.0	4.0	8
SAR drift	6.6.2	5.0	R	1.73	1	1	2.9	2.9	∞
Phantom and Tissue Parameters									
Phantom Uncertainty	E.3.1	4.0	R	1.73	1	1	2.3	2.3	∞
Liquid Conductivity (target)	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	8
Liquid Conductivity (measurement)	E.3.3	3.3	N	1.00	0.64	0.43	2.1	1.4	8
Liquid Permittivity (target)	E.3.2	5.0	R	1.73	0.6	0.49	1.7	1.4	8
Liquid Permittivity (measurement)	E.3.3	1.9	Ν	1.00	0.6	0.49	1.1	0.9	∞
Combined Standard Uncertainty			RSS				11	11	419
Expanded Uncertainty (95% CONFIDENCE LEVEL)			k=2				22	22	

Uncertainty Budget for Device Under Test, for 800 MHz to 3 GHz

Notes for uncertainty budget Tables:

a) Column headings *a*-*k* are given for reference.

b) Tol. - Tolerance in influence quantity.

c) Prob. Dist. – Probability distribution

d) N, R - normal, rectangular probability distributions

e) Div. - divisor used to translate tolerance into normally distributed standard uncertainty f) ci - sensitivity coefficient that should be applied to convert the variability of the

uncertainty component into a variability of SAR.

g) ui - SAR uncertainty

Oncertainty Dauger for bys	••• •			_		I			
а	b	с	đ	e = f(d,k)	f	g	h = c x f / e	i = c x g / e	k
	IEEE	Tol.	Prob.		c_i	c _i	1 g	10 g	
Uncertainty Component	1528 section	(± %)	Dist.	Div.	(1 g)	(10 g)	u _i	u _i	<i>v</i> _i
							(±%)	(±%)	
Measurement System									
Probe Calibration	E.2.1	7.0	N	1.00	1	1	7.0	7.0	×
Axial Isotropy	E.2.2	4.7	R	1.73	1	1	2.7	2.7	∞
Spherical Isotropy	E.2.2	9.6	R	1.73	0	0	0.0	0.0	×
Boundary Effect	E.2.3	2.0	R	1.73	1	1	1.2	1.2	∞
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	×
System Detection Limits	E.2.5	1.0	R	1.73	1	1	0.6	0.6	×
Readout Electronics	E.2.6	0.3	N	1.00	1	1	0.3	0.3	×
Response Time	E.2.7	1.1	R	1.73	1	1	0.6	0.6	×
Integration Time	E.2.8	0.0	R	1.73	1	1	0.0	0.0	×
RF Ambient Conditions - Noise	E.6.1	3.0	R	1.73	1	1	1.7	1.7	×
RF Ambient Conditions - Reflections	E.6.1	0.0	R	1.73	1	1	0.0	0.0	×
Probe Positioner Mechanical Tolerance	E.6.2	1.0	R	1.73	1	1	0.6	0.6	00
Probe Positioning w.r.t. Phantom	E.6.3	4.0	R	1.73	1	1	2.3	2.3	×
Max. SAR Evaluation (ext., int., avg.)	E.5	2.1	R	1.73	1	1	1.2	1.2	00
Dipole									
Dipole Axis to Liquid Distance	8, E.4.2	2.0	R	1.73	1	1	1.2	1.2	8
Input Power and SAR Drift Measurement	8, 6.6.2	5.0	R	1.73	1	1	2.9	2.9	×
Phantom and Tissue Parameters									
Phantom Uncertainty	E.3.1	4.0	R	1.73	1	1	2.3	2.3	×
Dielectric Parameter Correction		1.4	N	1.00	1	0.79	1.4	1.1	œ
Liquid Conductivity (measurement)	E.3.3	3.3	R	1.73	0.64	0.43	1.2	0.8	8
Liquid Permittivity (measurement)	E.3.3	1.9	R	1.73	0.6	0.49	0.6	0.5	8
Combined Standard Uncertainty			RSS				10	10	9999 9
Expanded Uncertainty (95% CONFIDENCE LEVEL)			<i>k</i> =2				19	19	

Uncertainty Budget for System Validation (dipole & flat phantom) for 3 to 6 GHz

Notes for uncertainty budget Tables:

a) Column headings *a*-*k* are given for reference.

b) Tol. - tolerance in influence quantity.

c) Prob. Dist. - Probability distribution

d) N, R - normal, rectangular probability distributions

e) Div. - divisor used to translate tolerance into normally distributed standard uncertainty f) ci - sensitivity coefficient that should be applied to convert the variability of the

uncertainty component into a variability of SAR.

g) ui - SAR uncertainty

Uncertainty Dudget for	DUI								
а	b	С	d	e = f(d,k)	f	g	h = c x f / e	i = c x g / e	k
	IEEE	Tol.	Prob		c_i	c_i	1 g	10 g	
Uncertainty Component	1528 section	(± %)	Dist	Div.	(1 g)	(10 g)	<i>u_i</i> (±%)	<i>u_i</i> (±%)	v _i
Measurement System								(_, *)	
Probe Calibration	E.2.1	7.0	N	1.00	1	1	7.0	7.0	œ
Axial Isotropy	E.2.2	4.7	R	1.73	0.707	0.707	1.9	1.9	×
Hemispherical Isotropy	E.2.2	9.6	R	1.73	0.707	0.707	3.9	3.9	8
Boundary Effect	E.2.3	2.0	R	1.73	1	1	1.2	1.2	8
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	×
System Detection Limits	E.2.5	1.0	R	1.73	1	1	0.6	0.6	8
Readout Electronics	E.2.6	0.3	N	1.00	1	1	0.3	0.3	8
Response Time	E.2.7	1.1	R	1.73	1	1	0.6	0.6	8
Integration Time	E.2.8	1.1	R	1.73	1	1	0.6	0.6	8
RF Ambient Conditions - Noise	E.6.1	3.0	R	1.73	1	1	1.7	1.7	8
RF Ambient Conditions - Reflections	E.6.1	0.0	R	1.73	1	1	0.0	0.0	×
Probe Positioner Mech. Tolerance	E.6.2	1.0	R	1.73	1	1	0.6	0.6	8
Probe Positioning w.r.t Phantom	E.6.3	4.0	R	1.73	1	1	2.3	2.3	8
Max. SAR Evaluation (ext., int., avg.)	E.5	2.1	R	1.73	1	1	1.2	1.2	8
Test sample Related									
Test Sample Positioning	E.4.2	3.2	N	1.00	1	1	3.2	3.2	29
Device Holder Uncertainty	E.4.1	4.0	N	1.00	1	1	4.0	4.0	8
SAR drift	6.6.2	5.0	R	1.73	1	1	2.9	2.9	8
Phantom and Tissue Parameters									
Phantom Uncertainty	E.3.1	4.0	R	1.73	1	1	2.3	2.3	8
Dielectric Parameter Correction		1.4	N	1.00	1	0.79	1.4	1.1	8
Liquid Conductivity (measurement)	E.3.3	3.3	Ν	1.00	0.64	0.43	2.1	1.4	×
Liquid Permittivity (measurement)	E.3.3	1.9	N	1.00	0.6	0.49	1.1	0.9	×
Combined Standard Uncertainty			RSS				12	12	504
Expanded Uncertainty (95% CONFIDENCE LEVEL)			k=2				23	23	

Uncertainty Budget for Device Under Test for 3 to 6 GHz

Notes for uncertainty budget Tables:

a) Column headings *a*-*k* are given for reference.

b) Tol. - tolerance in influence quantity.

c) Prob. Dist. – Probability distribution

d) N, R - normal, rectangular probability distributions

e) Div. - divisor used to translate tolerance into normally distributed standard uncertainty f) *ci* - sensitivity coefficient that should be applied to convert the variability of the

uncertainty component into a variability of SAR.

g) ui - SAR uncertainty

Appendix B Probe Calibration Certificates

Report ID: P27179-EME-00010

Engineering AG rughausstrasse 43, 8004 Zuri	ory Of	S S S S S S S S S S S S S S S S S S S	Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service
ccredited by the Swiss Accredit he Swiss Accreditation Servic fulfilateral Agreement for the	ce is one of the signatories	to the EA	reditation No.: SCS 0108
Motorola Solu	and defined of		EX3-7533_Apr21
Object	EX3DV4 - SN:753		
Calibration procedure(s)	QA CAL-25.v7	A CAL-12.v9, QA CAL-14.v6, QA Jure for dosimetric E-field probes	CAL-23.v5,
Calibration date:	April 19, 2021		
All calibrations have been condu	ucted in the closed laboratory	facility: environment temperature (22 ± 3)°C a	and humidity < 70%.
Calibration Equipment used (M8	STE critical for calibration)		
Calibration Equipment used (Mi Primary Standards	STE critical for calibration)	Gal Date (Certificate No.)	Scheduled Calibration
Calibration Equipment used (Mi Primary Standards Power meter NRP	TE critical for calibration)	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292)	Scheduled Calibration Apr-22
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91	TE critical for calibration)	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291)	Scheduled Calibration Apr-22 Apr-22
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291	TE critical for calibration)	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292)	Scheduled Calibration Apr-22 Apr-22 Apr-22
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator	TE critical for calibration) 1D SN: 104778 SN: 103244 SN: 103245	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291)	Scheduled Calibration Apr-22 Apr-22
Calibration Equipment used (Mi Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4	TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: CC2552 (20x)	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Apr-22
Calibration Equipment used (Mi Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2	TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: CC2552 (20x) SN: 660	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 00-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Apr-22 Dec-21
Calibration Equipment used (Mi Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards	TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: CC2552 (20x) SN: 660 SN: 3013	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Apr-22 Dec-21 Dec-21
Calibration Equipment used (MM Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B	TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: CC2552 (20x) SN: 660 SN: 3013 ID	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20) Check: Date (In house)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Scheduled Check
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A	ATE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: CC2552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: 900110210	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660, Dec-20) 30-Dec-20 (No. ES3-3013, Dec-20) Check: Date (In house) 06-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Scheduled Check In house check: Jun-22
Calibration Equipment used (Mi Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A RF generator HP 8648C	ATE critical for calibration) ID SN: 104778 SN: 103244 SN: 0022552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: WY41498087 SN: 000110210 SN: US3642U01700	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec-20) 30-Dec-20 (No. ES3-3013_Dec-20) Check: Date (In house) Check: Date (In house) 06-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20) 04-Aug-99 (In house check Jun-20)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 In house check: Jun-22
Calibration Equipment used (Mi Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A RF generator HP 8648C	ATE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: CC2552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: 900110210	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660, Dec-20) 30-Dec-20 (No. ES3-3013, Dec-20) Check: Date (In house) 06-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22
Calibration Equipment used (MM Primary Standards Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power sensor E4412A RF generator HP 8648C Network Analyzer E8358A	ATE critical for calibration) ID SN: 104778 SN: 104778 SN: 103244 SN: 003245 SN: CC2552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: 000110210 SN: US3642U01700 SN: US3642U01700 SN: US41080477 Name	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20) Check Date (In house) 06-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20) 04-Aug-99 (In house check Jun-20) 31-Mar-14 (In house check Oct-20) Function	Scheduled Calibration Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 Signature
Calibration Equipment used (M8	ATE critical for calibration) ID SN: 104778 SN: 104778 SN: 103244 SN: 00245 SN: 660 SN: 860 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: 000110210 SN: US3642U01700 SN: US3642U01700 SN: US41080477	Cal Date (Certificate No.) 08-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20) Check Date (In house) 06-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20) 04-Aug-99 (In house check Jun-20) 31-Mar-14 (In house check Oct-20)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 Signature
Calibration Equipment used (Mi Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power meter E44198 Power sensor E4412A RF generator HP 8648C Network Analyzer E8358A	ATE critical for calibration) ID SN: 104778 SN: 104778 SN: 103244 SN: 003245 SN: CC2552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: 000110210 SN: US3642U01700 SN: US3642U01700 SN: US41080477 Name	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20) Check Date (In house) 06-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20) 08-Apr-16 (In house check Jun-20) 04-Aug-99 (In house check Jun-20) 31-Mar-14 (In house check Oct-20) Function	Scheduled Calibration Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22

Report ID: P27179-EME-00010

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



S Schweizerischer Kallbrierdienst C Service suisse d'étalonnage

S Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization ϕ	φ rotation around probe axis
Polarization 9	9 rotation around an axis that is in the plane normal to probe axis (at measurement center),
	i.e., 9 = 0 is normal to probe axis

Connector Angle

Calibration is Performed According to the Following Standards:

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

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

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

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is
 implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included
 in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No: EX3-7533_Apr21

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EX3DV4 - SN:7533

April 19, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7533

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.42	0.45	0.41	± 10.1 %
DCP (mV) ⁰	98.1	99.3	103.4	

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	141.2	±3.5%	± 4.7 %
	1. Sec. 1.	Y	0.00	0.00	1.00		141.1	1	
		Z	0.00	0.00	1.00		141.9	Eman	
10352-	Pulse Waveform (200Hz, 10%)	X	2.40	65.60	10.01	10.00	60.0	±2.8%	± 9.6 %
AAA		Y	1.75	62.29	7.82		60.0		120403048
		Z	3.80	70.37	12.36		60.0	1	
10353-	Pulse Waveform (200Hz, 20%)	X	1.37	64.59	8.68	6.99	80.0	±2.2%	± 9.6 %
AAA	0.11.15.15.10.10.10.15.15.15.15.75.10.15.15.15.15.15.15.15.15.15.15.15.15.15.	Y	0.87	60.46	5.99	1010000	80.0		100.000
		Z	6.72	78.25	14.06		80.0	1	
10354-	Pulse Waveform (200Hz, 40%)	X	1.64	69.97	10.02	3.98	95.0	±1.2%	±9.6%
AAA			0.43	60.00	5.14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	95.0		1000000000
10.000		Z	20.00	91.39	17.04		95.0		
10355- Pulse Waveform (20 AAA	Pulse Waveform (200Hz, 60%)	X	20.00	93.50	16.70	2.22	120.0	±1.0 %	± 9.6 %
		Y	0.32	61.69	6.08	STORES -	120.0		
	0	Z	20.00	101.20	20.43		120.0		
10387-	QPSK Waveform, 1 MHz	X	1.63	66.38	14.99	1.00	150.0	± 1.8 %	±9.6%
AAA	2012/2012/2012/2012/2012/2012/2012/2012	Y	1.62	66.57	14.96		150.0		
		Z	1.56	65.84	14.60		150.0	1	
10388-	QPSK Waveform, 10 MHz	X	2.14	67.39	15.59	0.00	150.0	±1.1%	±9.6 %
AAA		Y	2.11	67.25	15.49	111,022,2	150.0	0.0250201025	
		Z	2.06	66.85	15.23		150.0	1	
10396-	64-QAM Waveform, 100 kHz	X	2.34	67.98	17.70	3.01	150.0	±0.8%	± 9.6 %
AAA		Y	2.24	67.31	17.29	0.0000	150.0	1000000	10121200
		Z	2.30	67.65	17.41		150.0		
10399-	64-QAM Waveform, 40 MHz	X	3.50	66.97	15.77	0.00	150.0	± 0.7 %	± 9.6 %
AAA		Y	3.47	66.93	15,71	5000	150.0		20333
	*	Z	3.42	66.71	15.55		150.0	11 1	
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.83	65.71	15.61	0.00	150.0	±1.3%	± 9.6 %
AAA	. W 20	Y	4.59	65.02	15.21	5.00	150.0	(1909-05),	
	Versecour	Z	4.74	65.53	15.43		150.0	1	

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%.

^A The uncertainties of Norm X,Y,Z do not affect the E¹-field uncertainty inside TSL (see Pages 5 and 6).
^{*} Numerical linearization parameter: uncertainty not required.
^{*} Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field uncertainty is determined using the max. field value.

Certificate No: EX3-7533_Apr21

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EX3DV4-- SN:7533

April 19, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7533

Sensor Model Parameters

	C1 fF	C2 fF	α V-1	T1 ms.V ⁻²	T2 ms.V ⁻⁺	T3 ms	T4 V-2	T5 V-1	T6
Х	37.3	278.85	35.60	3.32	0.00	4.96	1.49	0.00	1.00
Y	34.5	254.64	34.79	4.92	0.00	4.90	1.32	0.00	1.00
Z	36.5	267.86	34.51	4.09	0.00	4.98	1.50	0.00	1.00

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (*)	-86.8
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm
	Ref. Mar.

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

Certificate No: EX3-7533_Apr21

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EX3DV4- SN:7533

April 19, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7533

f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ⁶	Depth ^G (mm)	Unc (k=2)
150	52.3	0.76	14.08	14.08	14.08	0.00	1.00	± 13.3 %
300	45.3	0.87	13.10	13.10	13.10	0.09	1.25	± 13.3 %
450	43.5	0.87	11.86	11.86	11.86	0.16	1.30	± 13.3 %
750	41.9	0.89	10.83	10.83	10.83	0.46	0.83	± 12.0 %
835	41.5	0.90	10.50	10.50	10.50	0.53	0.83	± 12.0 %
900	41.5	0.97	10.32	10.32	10.32	0.50	0.80	± 12.0 %
1450	40.5	1.20	9.04	9.04	9.04	0.41	0.80	± 12.0 %
1810	40.0	1.40	8.50	8.50	8.50	0.34	0.86	± 12.0 %
1900	40.0	1.40	8.39	8.39	8.39	0.30	0.86	± 12.0 %
2100	39.8	1.49	8.20	8.20	8.20	0.33	0.86	± 12.0 %
2300	39.5	1.67	8.08	8.08	8.08	0.32	0.90	± 12.0 %
2450	39.2	1.80	7.83	7.83	7.83	0.32	0.90	± 12.0 %
2600	39.0	1.96	7.74	7.74	7.74	0.29	0.90	± 12.0 %
3500	37.9	2.91	7.26	7.26	7.26	0.30	1.35	± 14.0 %
3700	37.7	3.12	7.01	7.01	7.01	0.30	1.35	± 14.0 %
5250	35.9	4.71	5.40	5.40	5.40	0.40	1.80	± 14.0 %
5500	35.6	4.96	4.92	4.92	4.92	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.82	4.82	4.82	0.40	1.80	± 14.0 %
5750	35.4	5.22	4.89	4.89	4.89	0.40	1.80	± 14.0 %

Calibration Paramete	Determined in Head	Tissue Simulating Media
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⁶ Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is ± 90 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz. ⁶ Alther the validity of tissue parameters (s and e) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. ⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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EX3DV4- SN:7533

April 19, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7533

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
150	61.9	0.80	13.77	13,77	13.77	0.00	1.00	± 13.3 %
300	58.2	0.92	12.74	12.74	12.74	0.02	1.35	± 13.3 %
450	56.7	0.94	12.07	12.07	12.07	0.11	1.30	± 13.3 %
750	55.5	0.96	10.68	10.68	10.68	0.49	0.80	± 12.0 %
835	55.2	0.97	10.30	10.30	10.30	0.47	0.80	± 12.0 %
900	55.0	1.05	10.10	10.10	10.10	0.50	0.80	± 12.0 %
1450	54.0	1.30	9.34	9.34	9.34	0.40	0.80	± 12.0 %
1810	53.3	1.52	8.44	8.44	8.44	0.44	0.86	± 12.0 %
1900	53.3	1.52	8.23	8.23	8.23	0.32	0.86	± 12.0 %
2100	53.2	1.62	8.04	8.04	8.04	0.41	0.86	± 12.0 %
2300	52.9	1.81	7.91	7.91	7.91	0,40	0.90	± 12.0 %
2450	52.7	1.95	7.82	7.82	7.82	0.36	0.90	± 12.0 %
2600	52.5	2.16	7.71	7.71	7.71	0.35	0.90	± 12.0 %
3500	51.3	3.31	6.59	6.59	6.59	0.40	1.35	± 14.0 %
3700	51.0	3.55	6.51	8.51	6.51	0.40	1.35	± 14.0 %
5250	48.9	5.36	4.86	4.86	4.86	0.50	1.90	± 14.0 %
5500	48.6	5.65	4.24	4.24	4.24	0.50	1.90	± 14.0 %
5600	48.5	5.77	4.17	4.17	4.17	0.50	1.90	± 14.0 %
5750	48.3	5.94	4.26	4.26	4.26	0.50	1.90	± 14.0 %

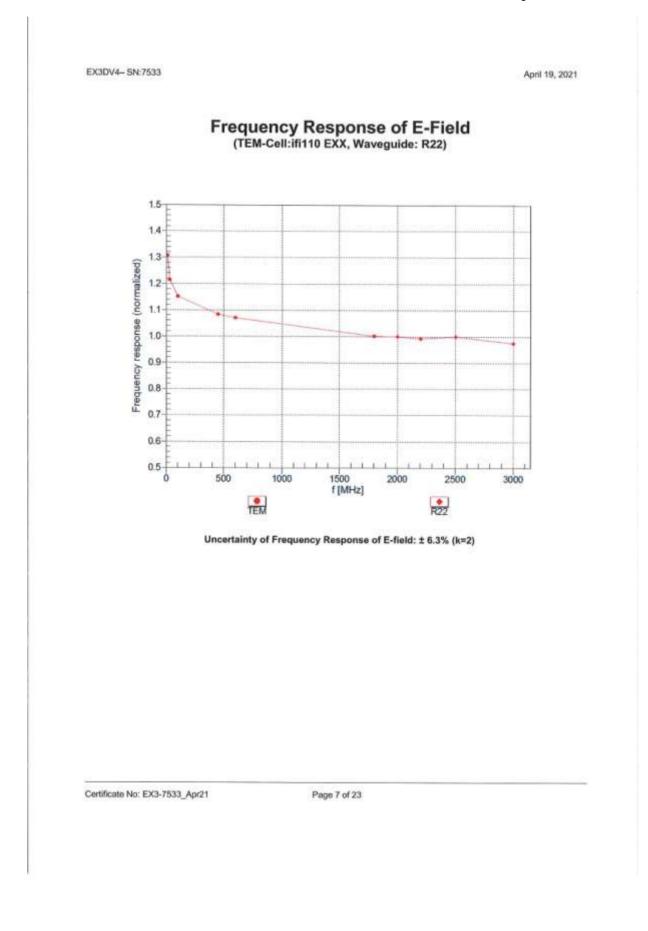
Calibration Parameter	Determined in Body	y Tissue Simulating Media
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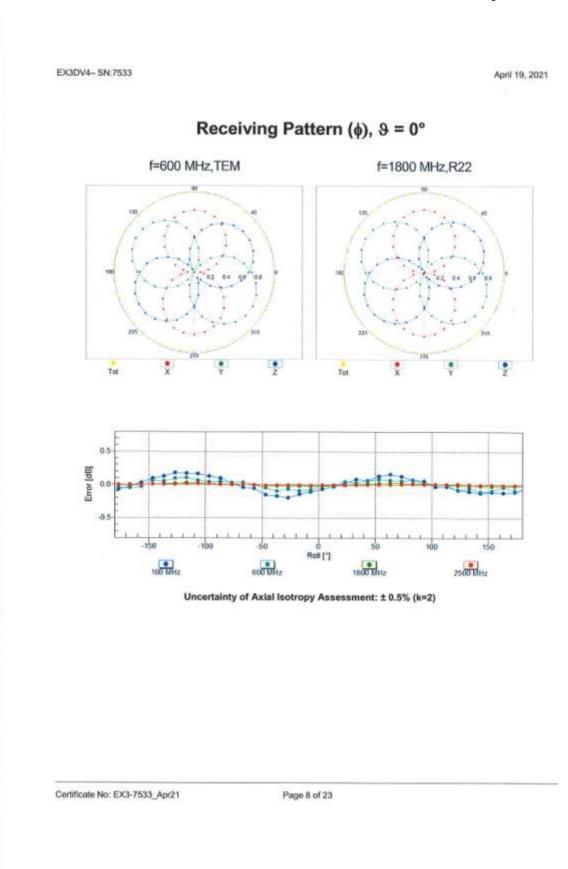
⁶ Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the CorvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for CorvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of CorvF assessed at 6 MHz is 4-9 MHz, and CorvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz. ⁶ Althrauceles up to 10 GHz, the validity of lissue parameters (c and a) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the CorvF uncertainty for indicated larget lissue parameters. ⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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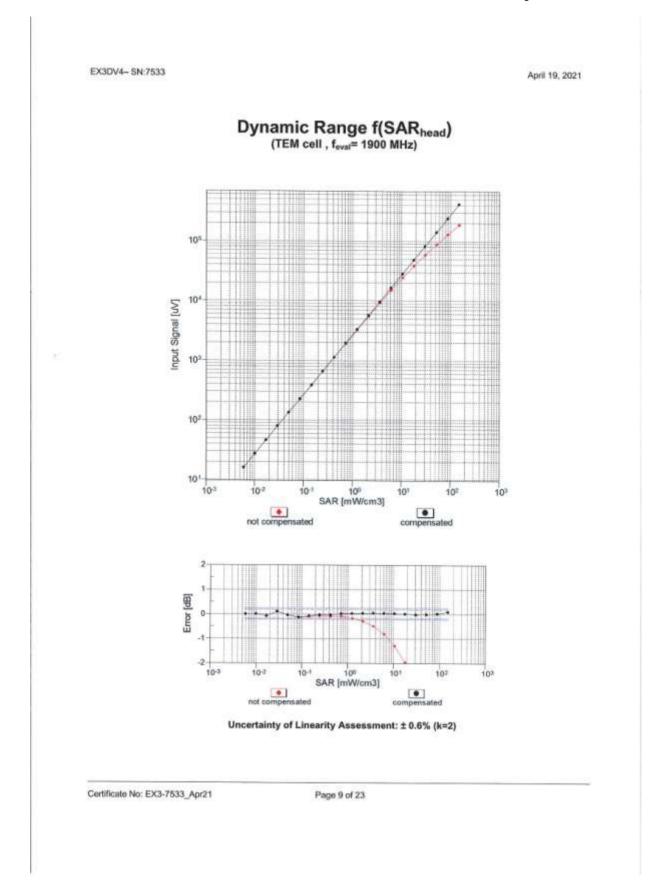
Report ID: P27179-EME-00010

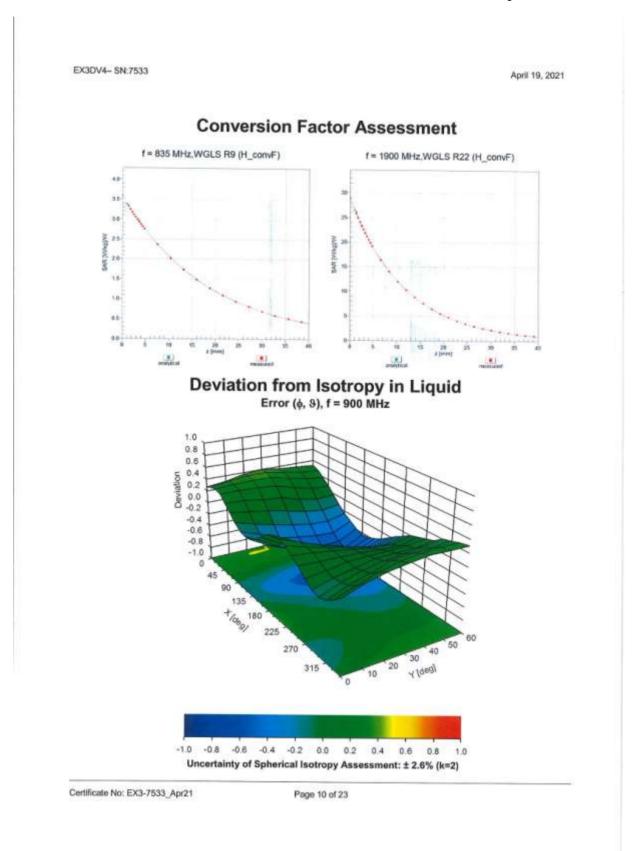




FCC ID: AZ489FT7146 / IC: 109U-89FT7146

Report ID: P27179-EME-00010





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Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0	1	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 9
10013	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 9
0021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
0023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 9
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 5
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 9
0026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 9
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	19.65
0028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 9
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 9
0031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 9
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluelooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 9
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)	Bluetcoth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetcoth	4.77	± 9.63
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 9
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	19.69
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6 %
10056	CAA	UMTS-TDO (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDO (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	19.6%
10059	CAB	IEEE 802.11b WIFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.69
10060	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.69
10061	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAD	IEEE 802.11a/h WiFI 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps)	WLAN	9.09	
10066	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 16 Mbps)	WLAN	9.00	± 9.6 %
0067	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	10.12	± 9.6 %
0069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.24	± 9.6 %
0071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN		± 9.6 %
0072	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.83	± 9.6 %
0073	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6 %
0074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 16 Mbps)	WLAN	9.94	± 9.6 %
0075	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 24 Mops)	WLAN	10.30	± 9.6 %
0076	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
0077		IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps)		10.94	± 9.6 %
00/1	CAB	CDMA2000 (1xRTT, RC3)	WLAN	11.00	± 9.6 %
0082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fulirate)	CDMA2000	3.97	± 9.6 %
0090	CAB	GPRS-FDD (TDMA, GMSK, TN 0-4)	AMPS	4.77	± 9.6 %
0090	DAC		GSM	6.56	± 9.6 %
0097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
0098	DAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %

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10099	CAC	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	CAB	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 %
10103	DAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TOD	9.29	± 9.6 %
10104	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TOD	9.97	± 9.6 %
10105	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TOD	10.01	± 9.6 %
10108	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %
10109	CAG	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	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% R8, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	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 %
10116	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 %
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6%
10140	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6%
10142	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5,73	±9.6%
10143	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	19.6%
10144	CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	19.6 %
10145	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	1 2 9.6 %
10146	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	
10147	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FOD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD		
10151	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TOD	6.60	± 9.6 %
10152	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 18-QAM)	LTE-TDD	9.28	± 9.6 %
10153	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TOD	9.92	± 9.6 %
10154	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	10.05	± 9.6 %
10155	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 18-QAM)	LTE-FOD		± 9.6 %
10156	CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	6.43	± 9.6 %
10157	CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	5.79	± 9.6 %
10158	CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10160	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	6.56	± 9.6 %
10161	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	5.82	± 9.6 %
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)		6.43	± 9.6 %
10166	CAG	LTE-FOD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	6.58	± 9.6 %
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 18-QAM)	LTE-FOD	5.46	± 9.6 %
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD LTE-FDD	6.21	± 9.6 %
10169		LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)		6.79	± 9.6 %
10170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	5.73	± 9.6 %
10171		LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.52	± 9.6 %
10172	CAE	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 04-QAM)	LTE-FDD	6.49	± 9.6 %
10173		The second se	LTE-TOD	9.21	± 9.6 %
10174	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TOD	9.48	± 9.6 %
10175	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TOD	10.25	± 9.6 %
10175	CAF		LTE-FDD	5.72	±9.6 %
	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 18-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
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	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %

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10181	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FOD	5.72	± 9.6 %
10182	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 9
0183	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	1 19.6 9
0184	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 9
0185	CAI	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 9
0186	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 9
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	± 9.6 9
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 9
10189	CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	19.6 9
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	± 9.6 9
10194	AAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	± 9.6 9
10195	CAE	IEEE 802.11n (HT Greenfield, 85 Mbps, 64-QAM)	WLAN	8.21	± 9.6 9
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 9
0197	AAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 9
0198	CAF	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
0219	CAF	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %
0220	AAF	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 5
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 9
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 9
10223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 5
10224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 9
10225	CAD	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
0226	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TOD	9.49	± 9.6 %
0227	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
0228	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	DAC	LTE-TDD (SC-FDMA, 1 R8, 3 MHz, 16-QAM)	L'TE-TOO	9,48	± 9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
0231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
0232	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TOD	9.48	± 9.6 9
0233	CAD	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
0234	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TOD	9.21	± 9.6 %
0235	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TOD	9.48	±9.6 %
10236	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TOD	10.25	± 9.6 %
0237	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDO	9.21	± 9.6 %
0238	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TOD	9.48	± 9.6 9
0239	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
0240	CAB	LTE-TOD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TOD	9.21	± 9.6 %
0241	CAB	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAD	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 9
0243	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
0244	CAD	LTE-TOD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAG	LTE-TDD (SC-FDMA, 60% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6 %
0246	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
0247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	± 9.6 %
0248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TOD	10.09	± 9.6 %
0249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
0250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
0251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
0252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
0253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TOD	9.90	± 9.6 %
0254	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TOD	10.14	± 9.6 %
0255	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
0256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6 %
0257	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TOD	10.08	± 9.6 %
0258	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
0250	0.00	TTE TOO /SC EDAMA 1/0/ DD 2 MHz 16 OAMD	LTC TOD	and the second s	

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CAD LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)

10259

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± 9.6 %

9.98

LTE-TDD

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10260	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	\$ 9.6 5
10261	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TOO	9.83	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TOD	10.16	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TOD	9.92	± 9.6 3
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TOD	10.07	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TOD	9.30	± 9.6 3
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	19.6 9
10269	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAB	LTE-TOD (SC-FDMA, 100% R8, 15 MHz, QPSK)	LTE-TDD	9,58	± 9.6 9
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAD	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3,96	± 9.6 %
10277	CAD	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAD	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAG	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	19.6 9
10290	CAG	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9,6 %
10291	CAG	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9,6 %
10292	CAG	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 9
10293	CAG	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	CAG	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 9
10298	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6 %
10299	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6 9
10300	CAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 9
10301	CAC	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	12.03	19.69
10302	CAB	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WIMAX	12.57	± 9.6 9
10303	CAB	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	12.52	± 9.6 9
10304	CAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	11.86	±9.6 9
10305	CAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)	WIMAX	15.24	±9.6 9
10306	CAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 84QAM, PUSC)	WIMAX	14.67	± 9.6 5
10307	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WIMAX	14.49	± 9.6 5
10308	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WIMAX	14.46	± 9.6 %
10309	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3)	WIMAX	14.58	±9.63
10310	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3	WIMAX	14.57	19.65
10311	AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	19.6 5
10313	AAD	IDEN 1:3	IDEN	10.51	19.65
10314	AAD	IDEN 1:8	IDEN	13.48	± 9.6 %
10315	AAD	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 98pc dc)	WLAN	1.71	± 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, 98pc dc)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 9
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 9
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 9
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	19.69
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.37	19.69
10401	AAA	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	19.69
10402	AAA	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.69
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.76	
10406	AAD	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %

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6.8.17.5.5	AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	AAA	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAE	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAE	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAE	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9,6 %
10431	AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAG	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10447	AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 3
10448	AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAC	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 9
10456	AAC	IEEE 802.11ac WiFI (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAC	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAC	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAC	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAC	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	±9.6 %
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 9
10463	AAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDO	8.56	± 9.6 9
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 9
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.69
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10467	AAA	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TOD	7.82	± 9.6 9
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TOD	8.32	± 9.6 9
10469	AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 9
10470	AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 9
10471	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TOD	8.32	± 9.6 9
10472	AAC	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TOD	8.57	± 9.6 9
10473	AAA	LTE-TDD (SC-FDMA, 1 R8, 15 MHz, QPSK, UL Sub)	LTE-TOD	7.82	± 9.6 %
10474	AAC	LTE-TOD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 9
10475	AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10477	AAC	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 9
10478	AAC	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	19.69
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TOD	7.74	± 9.6 %
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TOD	8.18	
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10482	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	± 9.6 %
10483	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	and the second s
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD		±9.6%
10485		LTE-TOD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	8.47	± 9.6 %
10486	AAB	LTE-TOD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	7.59	± 9.6 %
		and the feet smith out into a mile, to dram, of out)	NIE-IDD	8.38	± 9.6 %

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C LTE-TDD (SC-FDMA, 50% RB, 10 M F LTE-TDD (SC-FDMA, 50% RB, 10 M F LTE-TDD (SC-FDMA, 50% RB, 15 M F LTE-TDD (SC-FDMA, 50% RB, 15 M F LTE-TDD (SC-FDMA, 50% RB, 15 M F LTE-TDD (SC-FDMA, 50% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 14 I C LTE-TDD (SC-FDMA, 100% RB, 14 I C LTE-TDD (SC-FDMA, 100% RB, 14 I F LTE-TDD (SC-FDMA, 100% RB, 3 M B LTE-TDD (SC-FDMA, 100% RB, 5 M C LTE-TDD (SC-FDMA, 100% RB, 10 M C LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 15 M C LTE-TDD (SC-FDMA, 100% RB, 20 M F LTE-TDD (SC-FDMA, 100% RB, 20 M C LTE-TDD (SC-FDMA, 100% RB, 20 M	Hz, 64-QAM, UL Sub) Hz, QPSK, UL Sub) Hz, 16-QAM, UL Sub) Hz, 64-QAM, UL Sub) Hz, 64-QAM, UL Sub) Hz, 16-QAM, UL Sub) Hz, 64-QAM, UL Sub) MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) Hz, 64-QAM, UL Sub) MHz, 16-QAM, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Su	LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDO LTE-TDO LTE-TOO LTE-TOO LTE-TOD LTE-TOD LTE-TOD LTE-TDD	8.31 8.54 7.74 8.41 8.55 7.74 8.37 8.54 7.67 8.40 8.68 7.67 8.44 8.52 7.72 8.31 8.54 7.74 8.36 8.55 7.99 8.51 7.74 8.51 7.74 8.42	+969 +969 +969 +969 +969 +969 +969 +969
F LTE-TDD (SC-FDMA, 50% RB, 15 M F LTE-TDD (SC-FDMA, 50% RB, 15 M F LTE-TDD (SC-FDMA, 50% RB, 15 M F LTE-TDD (SC-FDMA, 50% RB, 20 M F LTE-TDD (SC-FDMA, 50% RB, 20 M F LTE-TDD (SC-FDMA, 50% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 14 H E LTE-TDD (SC-FDMA, 100% RB, 14 H C LTE-TDD (SC-FDMA, 100% RB, 3 M B LTE-TDD (SC-FDMA, 100% RB, 3 M B LTE-TDD (SC-FDMA, 100% RB, 5 M B LTE-TDD (SC-FDMA, 100% RB, 5 M C LTE-TDD (SC-FDMA, 100% RB, 5 M C LTE-TDD (SC-FDMA, 100% RB, 10 M C LTE-TDD (SC-FDMA, 100% RB, 10 M C LTE-TDD (SC-FDMA, 100% RB, 15 N C LTE-TDD (SC-FDMA, 100% RB, 15 N F LTE-TDD (SC-FDMA, 100% RB, 15 N F LTE-TDD (SC-FDMA, 100% RB, 15 N F LTE-TDD (SC-FDMA, 100% RB, 20 N F LTE-TDD (SC-FDMA,	Hz, QPSK, UL Sub) Hz, CASK, UL Sub) MHz, CASK, UL Sub) MHz, CASK, UL Sub) Hz, CASK, UL Sub) MHz, CASK, UL Sub)	LTE-TDD	7.74 8.41 8.55 7.74 8.37 8.54 7.67 8.40 8.68 7.67 8.44 8.52 7.72 8.31 8.54 7.74 8.36 8.55 7.99 8.49 8.51 7.74	1969 1969 1969 1969 1969 1969 1969 1969
F LTE-TDD (SC-FDMA, 50% RB, 15 M F LTE-TDD (SC-FDMA, 50% RB, 20 M F LTE-TDD (SC-FDMA, 50% RB, 20 M F LTE-TDD (SC-FDMA, 50% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 14 H C LTE-TDD (SC-FDMA, 100% RB, 14 H C LTE-TDD (SC-FDMA, 100% RB, 14 H C LTE-TDD (SC-FDMA, 100% RB, 3 M B LTE-TDD (SC-FDMA, 100% RB, 3 M B LTE-TDD (SC-FDMA, 100% RB, 5 M C LTE-TDD (SC-FDMA, 100% RB, 10 N C LTE-TDD (SC-FDMA, 100% RB, 10 N C LTE-TDD (SC-FDMA, 100% RB, 10 N F LTE-TDD (SC-FDMA, 100% RB, 15 N F LTE-TDD (SC-FDMA, 100% RB, 15 N F LTE-TDD (SC-FDMA, 100% RB, 15 N F LTE-TDD (SC-FDMA, 100% RB, 20 N F LTE-TDD (SC-FDMA	Hz, 16-QAM, UL Sub) Hz, 64-QAM, UL Sub) Hz, 0PSK, UL Sub) Hz, 16-QAM, UL Sub) Hz, 16-QAM, UL Sub) MHz, 16-QAM, UL Sub) MHz, 04-QAM, UL Sub) Hz, 16-QAM, UL Sub) MHz, 07SK, UL Sub) MHz, 08-QAM, UL Sub) MHz, 08-QAM, UL Sub) MHz, 09SK, UL Sub) MHz, 09SK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 09SK, UL Sub) MHz, 09SK, UL Sub) MHz, 08-QAM, UL Sub) MHz, 09SK, UL Sub) MHz, 08-QAM, UL Sub)	LTE-TDD	7.74 8.41 8.55 7.74 8.37 8.54 7.67 8.40 8.68 7.67 8.44 8.52 7.72 8.31 8.54 7.74 8.36 8.55 7.99 8.49 8.51 7.74	±9.63 ±9.63 ±9.63 ±9.63 ±9.63 ±9.63 ±9.63 ±9.63 ±9.63 ±9.65 ±9.65 ±9.65 ±9.65 ±9.65 ±9.65 ±9.65 ±9.65 ±9.65 ±9.65 ±9.65 ±9.65 ±9.65 ±9.65
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E LTE-TDD (SC-FDMA, 30% RB, 20 M) E LTE-TDD (SC-FDMA, 100% RB, 1.41 C LTE-TDD (SC-FDMA, 100% RB, 1.41 C LTE-TDD (SC-FDMA, 100% RB, 1.41 F LTE-TDD (SC-FDMA, 100% RB, 3 M) B LTE-TDD (SC-FDMA, 100% RB, 3 M) B LTE-TDD (SC-FDMA, 100% RB, 3 M) B LTE-TDD (SC-FDMA, 100% RB, 3 M) C LTE-TDD (SC-FDMA, 100% RB, 5 M) C LTE-TDD (SC-FDMA, 100% RB, 5 M) C LTE-TDD (SC-FDMA, 100% RB, 5 M) C LTE-TDD (SC-FDMA, 100% RB, 10 M) F LTE-TDD (SC-FDMA, 100% RB, 15 M) F LTE-TDD (SC-FDMA, 100% RB, 20 M) F LTE-TDD (SC-FDMA, 100% RB, 20 M) E LTE	Hz, 64-QAM, UL Sub) MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) Hz, 16-QAM, UL Sub) Hz, 16-QAM, UL Sub) Hz, 16-QAM, UL Sub) Hz, 84-QAM, UL Sub) Hz, 64-QAM, UL Sub) Hz, 64-QAM, UL Sub) MHz, 16-QAM, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub)	LTE-TDD LTE-TDD	8.37 8.54 7.67 8.40 8.68 7.67 8.44 8.52 7.72 8.31 8.54 7.74 8.36 8.55 7.99 8.49 8.51 7.74	±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69
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F LTE-TDD (SC-FDMA, 100% RB, 3 M B LTE-TDD (SC-FDMA, 100% RB, 3 M B LTE-TDD (SC-FDMA, 100% RB, 5 M B LTE-TDD (SC-FDMA, 100% RB, 5 M C LTE-TDD (SC-FDMA, 100% RB, 5 M C LTE-TDD (SC-FDMA, 100% RB, 5 M C LTE-TDD (SC-FDMA, 100% RB, 10 M C LTE-TDD (SC-FDMA, 100% RB, 10 M C LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 20 M	Hz, 16-QAM, UL Sub) Hz, 84-QAM, UL Sub) Hz, QPSK, UL Sub) Hz, 16-QAM, UL Sub) Hz, 64-QAM, UL Sub) MHz, 0PSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, 16-QAM, UL Sub) MHz, 0PSK, UL Sub) MHz, 04-QAM, UL Sub) MHz, 04-QAM, UL Sub)	LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	7.67 8.44 8.52 7.72 8.31 8.54 7.74 8.36 8.55 7.99 8.49 8.51 7.74	±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69
F LTE-TDD (SC-FDMA, 100% RB, 3 M B LTE-TDD (SC-FDMA, 100% RB, 3 M B LTE-TDD (SC-FDMA, 100% RB, 5 M B LTE-TDD (SC-FDMA, 100% RB, 5 M C LTE-TDD (SC-FDMA, 100% RB, 5 M C LTE-TDD (SC-FDMA, 100% RB, 5 M C LTE-TDD (SC-FDMA, 100% RB, 10 M C LTE-TDD (SC-FDMA, 100% RB, 10 M C LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 20 M	Hz, 16-QAM, UL Sub) Hz, 84-QAM, UL Sub) Hz, QPSK, UL Sub) Hz, 16-QAM, UL Sub) Hz, 64-QAM, UL Sub) MHz, 0PSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, 16-QAM, UL Sub) MHz, 0PSK, UL Sub) MHz, 04-QAM, UL Sub) MHz, 04-QAM, UL Sub)	LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	8.44 8.52 7.72 8.31 8.54 8.36 8.55 7.99 8.49 8.51 7.74	±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.65 ±9.65 ±9.65 ±9.65 ±9.65 ±9.65
B LTE-TDD (SC-FDMA, 100% RB, 3 MI B LTE-TDD (SC-FDMA, 100% RB, 5 MI B LTE-TDD (SC-FDMA, 100% RB, 5 MI C LTE-TDD (SC-FDMA, 100% RB, 5 MI C LTE-TDD (SC-FDMA, 100% RB, 10 MI C LTE-TDD (SC-FDMA, 100% RB, 10 MI C LTE-TDD (SC-FDMA, 100% RB, 10 MI F LTE-TDD (SC-FDMA, 100% RB, 10 MI F LTE-TDD (SC-FDMA, 100% RB, 15 MI F LTE-TDD (SC-FDMA, 100% RB, 15 MI F LTE-TDD (SC-FDMA, 100% RB, 15 MI F LTE-TDD (SC-FDMA, 100% RB, 20 MI E LTE-TDD (SC-FDMA, 100% RB, 20 MI E LTE-TDD (SC-FDMA, 100% RB, 20 MI E LTE-TDD (SC-FDMA, 100% RB, 20 MI	Hz, 84-QAM, UL Sub) Hz, QPSK, UL Sub) Hz, 16-QAM, UL Sub) Hz, 64-QAM, UL Sub) MHz, 0PSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub)	LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDD LTE-TDD LTE-TDD	8.52 7.72 8.31 8.54 7.74 8.36 8.55 7.99 8.49 8.51 7.74	±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69
B LTE-TDD (SC-FDMA, 100% RB, 5 M B LTE-TDD (SC-FDMA, 100% RB, 5 M C LTE-TDD (SC-FDMA, 100% RB, 5 M C LTE-TDD (SC-FDMA, 100% RB, 10 N C LTE-TDD (SC-FDMA, 100% RB, 10 N C LTE-TDD (SC-FDMA, 100% RB, 10 N F LTE-TDD (SC-FDMA, 100% RB, 10 N F LTE-TDD (SC-FDMA, 100% RB, 15 N F LTE-TDD (SC-FDMA, 100% RB, 15 N F LTE-TDD (SC-FDMA, 100% RB, 15 N F LTE-TDD (SC-FDMA, 100% RB, 20 N E LTE-TDD (SC-FDMA, 100% RB, 20 N E LTE-TDD (SC-FDMA, 100% RB, 20 N	Hz, QPSK, UL Sub) Hz, 16-QAM, UL Sub) Hz, 64-QAM, UL Sub) MHz, 0PSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, 16-QAM, UL Sub) MHz, 16-QAM, UL Sub) MHz, 04-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, 64-QAM, UL Sub)	LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDD LTE-TDD LTE-TDD	7.72 8.31 8.54 7.74 8.36 8.55 7.99 8.49 8.51 7.74	±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69
C LTE-TDD (SC-FDMA, 100% RB, 5 MI C LTE-TDD (SC-FDMA, 100% RB, 10 M C LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 20 M F LTE-TDD (SC-FDMA, 100% RB, 20 M F LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 20 M	Hz, 64-QAM, UL Sub) MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, 04-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, 64-QAM, UL Sub)	LTE-TOO LTE-TOO LTE-TOO LTE-TOO LTE-TOO LTE-TOO LTE-TOO LTE-TOO LTE-TOO LTE-TOO LTE-TOD	8.31 8.54 7.74 8.36 8.55 7.99 8.49 8.51 7.74	±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69 ±9.69
C LTE-TDD (SC-FDMA, 100% RB, 10 M C LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 20 M F LTE-TDD (SC-FDMA, 100% RB, 20 M F LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 20 M	MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, 02SK, UL Sub) MHz, 04-QAM, UL Sub) MHz, 64-QAM, UL Sub)	LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	8.54 7.74 8.36 8.55 7.99 8.49 8.51 7.74	± 9.6 1 ± 9.6 1 ± 9.6 1 ± 9.6 1 ± 9.6 1 ± 9.6 1 ± 9.6 1
C LTE-TDD (SC-FDMA, 100% RB, 10 M C LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 20 M F LTE-TDD (SC-FDMA, 100% RB, 20 M F LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 20 M	MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, 02SK, UL Sub) MHz, 04-QAM, UL Sub) MHz, 64-QAM, UL Sub)	LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD	7.74 8.36 8.55 7.99 8.49 8.51 7.74	± 9.6 9 ± 9.6 9 ± 9.6 9 ± 9.6 9 ± 9.6 9 ± 9.6 9
C LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 20 M F LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 10 M E LTE-	MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub) MHz, 02PSK, UL Sub) MHz, 04-QAM, UL Sub) MHz, 64-QAM, UL Sub)	LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD	8.36 8.55 7.99 8.49 8.51 7.74	± 9.6 9 ± 9.6 9 ± 9.6 9 ± 9.6 9
F LTE-TDD (SC-FDMA, 100% RB, 10 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 20 M F LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 10 M E LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 10 M E LTE-	MHz, 64-QAM, UL Sub) MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 84-QAM, UL Sub) MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub)	LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	8.55 7.99 8.49 8.51 7.74	± 9.6 % ± 9.6 % ± 9.6 %
F LTE-TDD (SC-FDMA, 100% RB, 15 N F LTE-TDD (SC-FDMA, 100% RB, 15 N F LTE-TDD (SC-FDMA, 100% RB, 15 N F LTE-TDD (SC-FDMA, 100% RB, 20 N F LTE-TDD (SC-FDMA, 100% RB, 20 N E LTE-TDD (SC-FDMA, 100% RB, 20 N E LTE-TDD (SC-FDMA, 100% RB, 20 N E LTE-TDD (SC-FDMA, 100% RB, 20 N	MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 84-QAM, UL Sub) MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub)	LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	7.99 8.49 8.51 7.74	± 9.6 9 ± 9.6 9 ± 9.6 9
F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 15 M F LTE-TDD (SC-FDMA, 100% RB, 20 M F LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 20 M E IEEE 802, 11b WIFI 2.4 GHz (DSSS, 2	MHz, 16-QAM, UL Sub) MHz, 84-QAM, UL Sub) MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub)	LTE-TDD LTE-TDD LTE-TDD LTE-TDD	8.49 8.51 7.74	± 9.6 %
F LTE-TDD (SC-FDMA, 100% RB, 15 N F LTE-TDD (SC-FDMA, 100% RB, 20 N F LTE-TDD (SC-FDMA, 100% RB, 20 N E LTE-TDD (SC-FDMA, 100% RB, 20 N E LTE-TDD (SC-FDMA, 100% RB, 20 N E IEEE 802.11b WIFI 2.4 GHz (DSSS, 2	MHz, 64-QAM, UL Sub) MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub)	LTE-TOD LTE-TOD LTE-TOD	8.51 7.74	± 9.6 %
F LTE-TDD (SC-FDMA, 100% RB, 20 M F LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 20 M E IEEE 802.11b WIFI 2.4 GHz (DSSS, 2	MHz, QPSK, UL Sub) MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub)	LTE-TOD LTE-TOD	7.74	
F LTE-TDD (SC-FDMA, 100% RB, 20 M E LTE-TDD (SC-FDMA, 100% RB, 20 M E IEEE 802.11b WIFI 2.4 GHz (DSSS, 2	MHz, 16-QAM, UL Sub) MHz, 64-QAM, UL Sub)	LTE-TDD		
E LTE-TDD (SC-FDMA, 100% RB, 20 M E IEEE 802.11b WIFI 2.4 GHz (DSSS, 2	WHz, 64-QAM, UL Sub)		0.42	± 9.6 %
E IEEE 802.11b WiFI 2.4 GHz (DSSS, 2	2 Mbps, 99nc dc)		8.45	19.6 9
		WLAN	1.58	± 9.6 9
		WLAN	1.50	± 9.6 9
F IEEE 802.11b WiFi 2.4 GHz (DSSS, 1		WLAN	1.58	± 9.6 9
F IEEE 802.11a/h WIFI 5 GHz (OFDM,		WLAN	8.23	± 9.6 9
F IEEE 802.11a/h WiFi 5 GHz (OFDM,		WLAN	8.39	± 9.6 9
B IEEE 802.11a/h WIFI 5 GHz (OFDM,		WLAN	8.12	± 9.6 9
B IEEE 802.11a/h WIFI 5 GHz (OFDM, 2		WLAN	7.97	± 9.6 5
B IEEE 802.11a/h WIFI 5 GHz (OFDM, :		WLAN	8.45	19.65
C IEEE 802.11a/h WIFI 5 GHz (OFDM, 4		WLAN		
		0.0279.000	100000	± 9.6 %
		- AA72228		19.6 7
			10.00	± 9.6 %
				± 9.6 %
		and the second se	100000	± 9.6 %
		and a second	Contraction of the local division of the loc	± 9.6 %
		- 0153.52	and the second sec	±9.69
			and the second second second	± 9.6 9
and the second se		1000 B 1000	and the second s	±9.6%
and the second se	- 14 - E-4	- A Contractor		±9.6 %
		1.1.2.1715.0.0.		19.69
		1010000	and the second sec	19.6%
and the second		1.4.1.5.0.1.		
		and the second sec		± 9.6 %
IEEE 802.11ac WiFi (40MHz MCS6	99pc.dc)	and the second se		± 9.6 %
			and the statement of th	± 9.6 %
		and the second se	the second se	± 9.6 %
			the second se	± 9.6 %
IEEE 802 11ac WIEI (804/Hz 44050 /	99nc do)		and the second sec	± 9.6 %
		and south a set of the	the second se	± 9.6 %
N N N N N N N N N N N N N N N N N N N	C IEEE 802.11a/h WIFI 5 GHz (OFDM, C IEEE 802.11a/k WIFI (20MHz, MCS0, F IEEE 802.11a/k WIFI (20MHz, MCS1, F IEEE 802.11a/k WIFI (20MHz, MCS3, F IEEE 802.11a/k WIFI (20MHz, MCS3, F IEEE 802.11a/k WIFI (20MHz, MCS4, F IEEE 802.11a/k WIFI (20MHz, MCS6, F IEEE 802.11a/k WIFI (20MHz, MCS7, E IEEE 802.11a/k WIFI (20MHz, MCS6, E IEEE 802.11a/k WIFI (40MHz, MCS1, F IEEE 802.11a/k WIFI (40MHz, MCS3, F IEEE 802.11a/k WIFI (40MHz, MCS4, A IEEE 802.11a/k WIFI (40MHz, MCS6, A IEEE 802.11a/k WIFI (40MHz, MCS6, A IEEE 802.11a/k WIFI (40MHz, MCS6, C IEEE 802.1	C IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 99pc dc) C IEEE 802.11ac WIFI (20MHz, MCS0, 99pc dc) F IEEE 802.11ac WIFI (20MHz, MCS1, 99pc dc) F IEEE 802.11ac WIFI (20MHz, MCS2, 99pc dc) F IEEE 802.11ac WIFI (20MHz, MCS3, 99pc dc) F IEEE 802.11ac WIFI (20MHz, MCS4, 99pc dc) F IEEE 802.11ac WIFI (20MHz, MCS4, 99pc dc) F IEEE 802.11ac WIFI (20MHz, MCS3, 99pc dc) F IEEE 802.11ac WIFI (20MHz, MCS3, 99pc dc) E IEEE 802.11ac WIFI (20MHz, MCS3, 99pc dc) E IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) E IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) F IEEE 802.11ac WIFI (40MHz, MCS4, 99pc dc) A IEEE 802.11ac WIFI (40MHz, MCS4, 99pc dc) A IEEE 802.11ac WIFI (40MHz, MCS5, 99pc dc) A IEEE 802.11ac WIFI (40MHz, MCS5, 99pc dc) A IEEE 802.11ac WIFI (40MHz, MCS6, 99pc dc) C IEEE 802.11ac WIFI (40MHz, MCS6, 99pc dc) <td>C IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 99pc dc) WLAN C IEEE 802.11ac WIFI (20MHz, MCS0, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS1, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS3, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS3, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS3, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS4, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS6, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS6, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS8, 99pc dc) WLAN E IEEE 802.11ac WIFI (20MHz, MCS8, 99pc dc) WLAN E IEEE 802.11ac WIFI (40MHz, MCS8, 99pc dc) WLAN E IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) WLAN F IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) WLAN F IEEE 802.11ac WIFI (40MHz, MCS4, 99pc dc) WLAN F IEEE 802.11ac WIFI (40MHz, MCS4, 99pc dc) WLAN A IEEE 802.11ac WIFI (40MHz, MCS6, 99pc dc) WLAN</td> <td>C IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 99pc dc) WLAN 8.27 C IEEE 802.11ac WIFI (20MHz, MCS0, 99pc dc) WLAN 8.36 F IEEE 802.11ac WIFI (20MHz, MCS1, 99pc dc) WLAN 8.42 F IEEE 802.11ac WIFI (20MHz, MCS1, 99pc dc) WLAN 8.42 F IEEE 802.11ac WIFI (20MHz, MCS2, 99pc dc) WLAN 8.36 F IEEE 802.11ac WIFI (20MHz, MCS3, 99pc dc) WLAN 8.36 F IEEE 802.11ac WIFI (20MHz, MCS4, 99pc dc) WLAN 8.36 F IEEE 802.11ac WIFI (20MHz, MCS6, 99pc dc) WLAN 8.36 F IEEE 802.11ac WIFI (20MHz, MCS7, 99pc dc) WLAN 8.43 F IEEE 802.11ac WIFI (20MHz, MCS7, 99pc dc) WLAN 8.45 E IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) WLAN 8.45 E IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) WLAN 8.45 F IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) WLAN 8.45 F IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) WLAN 8.44 F IEEE 802.11ac WIFI (4</td>	C IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 99pc dc) WLAN C IEEE 802.11ac WIFI (20MHz, MCS0, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS1, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS3, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS3, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS3, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS4, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS6, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS6, 99pc dc) WLAN F IEEE 802.11ac WIFI (20MHz, MCS8, 99pc dc) WLAN E IEEE 802.11ac WIFI (20MHz, MCS8, 99pc dc) WLAN E IEEE 802.11ac WIFI (40MHz, MCS8, 99pc dc) WLAN E IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) WLAN F IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) WLAN F IEEE 802.11ac WIFI (40MHz, MCS4, 99pc dc) WLAN F IEEE 802.11ac WIFI (40MHz, MCS4, 99pc dc) WLAN A IEEE 802.11ac WIFI (40MHz, MCS6, 99pc dc) WLAN	C IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 99pc dc) WLAN 8.27 C IEEE 802.11ac WIFI (20MHz, MCS0, 99pc dc) WLAN 8.36 F IEEE 802.11ac WIFI (20MHz, MCS1, 99pc dc) WLAN 8.42 F IEEE 802.11ac WIFI (20MHz, MCS1, 99pc dc) WLAN 8.42 F IEEE 802.11ac WIFI (20MHz, MCS2, 99pc dc) WLAN 8.36 F IEEE 802.11ac WIFI (20MHz, MCS3, 99pc dc) WLAN 8.36 F IEEE 802.11ac WIFI (20MHz, MCS4, 99pc dc) WLAN 8.36 F IEEE 802.11ac WIFI (20MHz, MCS6, 99pc dc) WLAN 8.36 F IEEE 802.11ac WIFI (20MHz, MCS7, 99pc dc) WLAN 8.43 F IEEE 802.11ac WIFI (20MHz, MCS7, 99pc dc) WLAN 8.45 E IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) WLAN 8.45 E IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) WLAN 8.45 F IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) WLAN 8.45 F IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc) WLAN 8.44 F IEEE 802.11ac WIFI (4

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10546	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	± 9.6 %
10547	AAC	IEEE 802.11ac WIFI (80MHz, MCS3, 99pc dc)	WLAN	8.49	19.6%
0548	AAC	IEEE 802.11ac WIFI (80MHz, MCS4, 99pc dc)	WLAN	8.37	19.6%
0550	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.38	±9.69
0551	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
0652	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	± 9.6 9
10553	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 9
10654	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	19.6 9
10555	AAC	IEEE 802,11ac WIFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	19.6 9
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 9
10557	AAC	IEEE 802.11ac WIFI (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 9
10560	AAC	IEEE 802.11ac WIFI (160MHz, MCS6, 99pc dc)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WIFI (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WIFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8,77	± 9.6 %
10564	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10566	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	19.6%
10567	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	1 9.6 %
10568	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 98pc dc)	WLAN	8.30	± 9.6 %
10571	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1,99	± 9.6 %
10572	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
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	19.6%
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)	WEAN	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	19.6%
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	19.6%
10587	AAA	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	19.6 %
10588	AAA	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10589	AAA	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 %
10591	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	± 9.6 %
10592	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
0594	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN		
0595	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
0596		IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.74	±9.6 %
0597	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCSS, 90pc dc)	and the second second second	8.71	± 9.6 %
0598		IEEE 802.11n (HT Mixed, 20MHz, WCS6, 90pc dc)	WLAN	8.72	± 9.6 %
0599	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
0600	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	1.000 0.000	8.79	± 9.6 %
0601	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	88.6	± 9.6 %
10602	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	± 9.6 %
0603	AAA		WLAN	8.94	±9.6%
4002	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	±9.6%

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AAA	IEEE 802,11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
AAC	IEEE 802.11ac WiFI (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
AAC	IEEE 802.11ac WIFI (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
AAC	IEEE 802,11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
AAC	IEEE 802 11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.78	± 9.6 %
AAC	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
AAC	IEEE 802 11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 %
AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	19.6%
AAC	IEEE 802.11ac WiFI (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
AAC	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	19.6%
AAC	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
AAC	IEEE 802.11ac WiFI (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 %
AAC	IEEE 802.11ac WiFI (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
AAC	IEEE 802.11ac WIFI (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	± 9.6 %
AAC	IEEE 802.11ac WiFI (40MHz, MCS9, 90pc dc)	WLAN	8.96	± 9.6 %
AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9.6 %
AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
AAC	IEEE 802.11ac WiFi (80MHz; MCS4, 90pc dc)	WLAN	8,72	± 9.6 %
AAC	IEEE 802.11ac WIFI (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
AAC	IEEE 802.11ac WIFI (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
AAC	IEEE 802.11ac WIFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
AAC	IEEE 802.11ac WIFI (80MHz, MCS8, 90pc dc)	WLAN	8,80	± 9.6 %
AAC	IEEE 802.11ac WIFI (80MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
AAC	IEEE 802.11ac WIFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
AAC	IEEE 802.11ac WIFI (160MHz, MCS1, 90pc dc)	WLAN	8,79	± 9.6 %
AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.86	± 9.6 %
AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)	WLAN	8.98	± 9.6 %
AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6 %
AAC	IEEE 802.11ac WiFI (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
AAC	IEEE 802.11ac WIFI (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
AAC	IEEE 802.11ac WIFI (160MHz, MCS8, 90pc dc)	WLAN	9.05	± 9.6 %
AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6 %
AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	±9.6%
AAC	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6%
AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6 %
AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
140	TTE-TOD (OEDMA 45 MHz E TH 2.1 Clipping 44%)	LTC TOD	0.00	10.0.0

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AAC

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LTE-TDD

LTE-TDD

Test

Test

Test

Test

Test

Bluetooth

WLAN

6.96

7.21

10.00

6.99

3.98

2.22

0.97

2.19

± 9.6 %

± 9.6 %

± 9.6 %

± 9.6 %

± 9.6 %

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± 9.6 %

9.09 ± 9.6 %

AAC LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) AAC LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)

AAC Pulse Waveform (200Hz, 10%)

AAC Pulse Waveform (200Hz, 20%) AAC Pulse Waveform (200Hz, 40%)

AAC Pulse Waveform (200Hz, 60%)

Bluetooth Low Energy

Pulse Waveform (200Hz, 80%)

IEEE 802.11ax (20MHz, MCS0, 90pc dc)

10672	AAD	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
0673	AAD	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
0674	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
0675	AAD	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
0676	AAD	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
0677	AAD	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
0678	AAD	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 9
10679	AAD	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
0680	AAD	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
0681	AAG	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAF	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
0683	AAA	IEEE 802.11ax (20MHz, MCS0, 98pc dc)	WLAN	8.42	± 9.6 3
0684	AAC	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	± 9.6 %
10685	AAC	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 3
0686	AAC	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	± 9.6 3
0687	AAE	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
0688	AAE	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
0689	AAD	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	± 9.6 %
10690	AAE	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10691	AAB	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	± 9.6 %
0692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8,29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.57	19.6 9
0695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.78	± 9.6 %
0696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	± 9.6 %
0697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
0698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 9
0699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8.82	± 9.6 9
0700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.73	±9.6 %
0701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.86	±9.6 %
0702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	±9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	19.6 9
0704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	± 9.6 %
0705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6 9
0706	AAC	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6 9
0707	AAC	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	± 9.6 9
0708	AAC	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 9
0709	AAC	IEEE 802.11ax (40MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 9
0710	AAC	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.29	± 9.6 9
0711	AAC	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.39	± 9.6 9
0712	AAC	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.67	± 9.6 %
0713	AAC	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	± 9.6 9
0714	AAC	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	19.6 9
0715	AAC	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	1 9.6 %
0716	AAC	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	19.6%
0717	AAC	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8.48	± 9.6 %
0718	AAC	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.24	± 9.6 %
0719	AAC	IEEE 802.11ax (80MHz, MCS0, 90pc dc)	WLAN	8.81	± 9.6 %
0720	AAC	IEEE 802.11ax (60MHz, MCS1, 90pc dc)	WLAN	8.87	± 9.6 %
0721	AAC	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6 %
0722	AAC	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8.55	± 9.6 %
0723	AAC	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
0724	AAC	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.90	± 9.6 %
0725	AAC	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
0726	AAC	IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	± 9.6 %
0727	AAC	IEEE 802.11ax (80MHz, MCS8, 90pc dc)	WLAN	8.66	± 9.6 %

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10728	AAC	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	WLAN	8.65	± 9.6 %
0729	AAC	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.64	± 9.6 %
0730	AAC	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	± 9.6 %
0731	AAC	IEEE 802.11ax (80MHz, MCS0, 99pc do)	WLAN	8.42	± 9.6 %
0732	AAC	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	± 9.6 %
0733	AAC	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	± 9.6 %
0734	AAC	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	19.6 %
0735	AAC	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	±9.6 %
0736	AAC	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	8.27	± 9.6 9
0737	AAC	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8.36	± 9.6 %
0738	AAC	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	WLAN	8.42	± 9.6 %
0739	AAC	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8.29	± 9.6 %
0740	AAC	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8.48	± 9.6 %
0741	AAC	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	± 9.6 %
0742	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	± 9.6 9
0743	AAC	IEEE 802.11ax (160MHz, MCS0, 90pc dc)	WLAN	8.94	± 9.6 9
0744	AAC	IEEE 802.11ax (160MHz, MCS1, 90pc dc)	WLAN	9.16	± 9.6 9
0745	AAC	IEEE 802.11ax (160MHz, MCS2, 90pc dc)	WLAN	8.93	± 9.6 9
0746	AAC	IEEE 802.11ax (160MHz, MCS3, 90pc dc)	WLAN	9,11	± 9.6 %
0747	AAC	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WLAN	9.04	± 9.6 9
0748	AAC	IEEE 802.11ax (160MHz, MCS5, 90pc dc)	WLAN	8.93	± 9.6 9
0749	AAC	IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WLAN	8.90	± 9.6 9
0750	AAC	IEEE 802.11ax (160MHz, MCS7, 90pc dc)	WLAN	8.79	±9.69
0751	AAC	IEEE 802.11ax (160MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 9
0752	AAC	IEEE 802.11ax (160MHz, MCS9, 90pc dc)	WLAN	8.81	±9.6 9
0753	AAC	IEEE 802,11ax (160MHz, MCS10, 90pc dc)	WLAN	9.00	±9.6 %
10754	AAC	IEEE 802.11ax (160MHz, MCS11, 90pc dc)	WLAN	8.94	± 9.6 9
0755	AAC	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	±9.6 %
0756	AAC	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	±9.6 %
0757	AAC	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8,77	±9.6 %
0758	AAC	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.69	±9.6 %
0759	AAC	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	19.6 %
10760	AAC	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	19.69
10761	AAC	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	19.6 9
10762	AAC	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	±9.69
10763	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.53	±9.6 %
10764	AAC	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	± 9.6 %
10765	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	±9.69
0766	AAC	IEEE 802.11ax (180MHz, MCS11, 99pc dc)	WLAN	8.51	19.6%
0767	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6%
0768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	1 9.6 %
0770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	19.6 %
0771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 9
0772	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	19.6 9
0773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
0774	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 9
0775	The sector of the local division of the	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
0776	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	state place in the second	100 A 100 A
0777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6 %
0778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
0779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
0780	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,42	± 9.6 %
0780	AAC			8.38	± 9.6 %
0781	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
0783	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.43	± 9.6 %

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10784	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10785	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6%
10791	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	19.6%
10796	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6 %
10801	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	1 9.6 %
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 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	8.34	± 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	8.35	±9.6%
10818	AAD	5G NR (CP-OFDM, 100% R8, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAD	5G NR (CP-OFDM, 100% R8, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 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	8.41	± 9.6 %
10823	AAC	5G NR (CP-OFDM, 100% R8, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAD	5G NR (CP-OFDM, 100% R8, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7,73	± 9.6 %
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10643	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% R8, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
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	± 9.6 %
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %

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10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	1 9.6 %
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 9
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 9
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 9
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 18QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 9
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 9
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 9
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	50 NR FR2 TDD	5.75	19.6 9
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	19.6 9
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	19.65
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 9
10885	AAD	5G NR (DFT-8-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 5
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 9
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 5
10858	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 5
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	50 NR FR2 TDD	8.13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	19.6 3
10897	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	19.6 9
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	± 9.6 %
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	±9.69
10904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 9
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 9
10907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 9
10908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.69
10909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 9
10910	AAD	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.69
10911	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.69
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 9
10914	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
0915	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 %
0917	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 %
0919	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		± 9.6 %
0920	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
	100	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	JOHN PRI TOD	5.87	T 30 %

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10922	AAD	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 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 (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	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	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 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)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAB	5G NR (DFT-s-OFDM, 100% R8, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 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-8-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
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	± 9.6 %
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, 84-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 %
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %

⁶ 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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Report ID: P27179-EME-00010

chmid & Partner Engineering AG rughausstrasse 43, 8004 Zu	ory of rich, Switzerland	RA CO S	Schweizerlischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service
ccrediled by the Swiss Accred he Swiss Accreditation Serv fulfilateral Agreement for the	ice is one of the signatories	to the EA	reditation No.: SCS 0108
Motorola Sol	utions MY	Certificate No:	EX3-7534_Apr21
CALIBRATION	CERTIFICATE		
Object	EX3DV4 - SN:753	34	
Calibration procedure(s)	QA CAL-25.v7	A CAL-12.v9, QA CAL-14.v6, QA fure for dosimetric E-field probes	CAL-23.v5,
Calibration date:	April 19, 2021		
The measurements and the un	certainties with confidence pro	neil standards, which realize the physical units sbability are given on the following pages and facility: environment temperature (22 ± 3)°C a	are part of the certificate.
The measurements and the un All calibrations have been cond	certainties with confidence pro ducted in the closed laboratory	abability are given on the following pages and	are part of the certificate.
The measurements and the un All calibrations have been cont Calibration Equipment used (M Primary Standards	certainties with confidence pro flucted in the closed laboratory I&TE critical for calibration)	abability are given on the following pages and	are part of the certificate.
The measurements and the un All calibrations have been conc Calibration Equipment used (M Primary Standards Power meter NRP	ID SN: 104778	bability are given on the following pages and facility: environment temperature (22 ± 3)°C a Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292)	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-22
The measurements and the un All calibrations have been conc Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291	ID ID SN: 104778 SN: 103244	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291)	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-22 Apr-22
The measurements and the un All calibrations have been cond Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291	ID ID SN: 104778 SN: 103245	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292)	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-22 Apr-22 Apr-22
The measurements and the un All calibrations have been cond Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator	ID ID SN: 104778 SN: 103244	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03293) 09-Apr-21 (No. 217-03293)	are part of the certificate. and humidity < 70%. Scheduled Calibration Apr-22 Apr-22 Apr-22 Apr-22
The measurements and the un All calibrations have been cont Calibration Equipment used (M	ID ID SN: 104778 SN: 103244 SN: 103245 SN: CC2552 (20x)	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292)	are part of the certificate. and humidity < 70%. Scheduled Colloration Apr-22 Apr-22 Apr-22
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Report ID: P27179-EME-00010

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



S Schweizerischer Kalibrierdienst C Service suisse d'étaionnage

- Servizio svizzero di taratura
- S Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	dide compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization ϕ	orbation around probe axis
Polarization 8	9 rotation around an axis that is in the plane normal to probe axis (at measurement center),
	i.e., 3 = 0 is normal to probe axis

Connector Angle

Calibration is Performed According to the Following Standards:

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

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

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

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz; R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is
 implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included
 in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): In a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:7534

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.46	0.40	0.50	± 10.1 %
DCP (mV) ^B	98.4	99.0	98.6	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc [±] (k=2)
0	CW	X	0.00	0.00	1.00	0.00	180.7	± 3.5 %	± 4.7 %
		Y	0.00	0.00	1.00		173.5		1001011-00
		Z	0.00	0.00	1.00		190.0		
10352-	Pulse Waveform (200Hz, 10%)	X	2.83	67.26	10.80	10.00	60.0	± 3.1 %	± 9.6 %
AAA	1010-012-012-012-012-012-012-012-012-012	Y	1.76	62.38	7.83	1000000	60.0		
		Z	3.15	68.47	11.46		60.0	i	
10353-	Pulse Waveform (200Hz, 20%)	X	1.56	65.61	9.33	6.99	80.0	±2.3 %	± 9.6 %
AAA		Y	0.92	60.81	6.13		80.0		1001012-0012
		Z	2.10	68.22	10.53		80.0	l	
10354-	Pulse Waveform (200Hz, 40%)	X	4,64	77,37	12.61	3.98		\$ 1.4 %	± 9.6 %
AAA	0.024M 05249 02.0250 2303 05205	Y	12.00	78.00	11.00	100712	95.0		
		Z	3.63	76.30	12.59		95.0		
10355-	Pulse Waveform (200Hz, 60%)	X	20.00	94.23	17.31	2.22	120.0	± 0.8 %	± 9.6 %
AAA		Y	0.50	64.23	7.14		120.0		
		Z	5.60	85.07	15.38		120.0		
10387-	QPSK Waveform, 1 MHz	X	1.68	66.42	15.02	1.00	150.0	± 1.8 %	± 9.6 %
AAA		Y	1.70	68.00	15.73		150.0		
		Z	1.52	64.88	14.01		150.0		
10388-	QPSK Waveform, 10 MHz	X	2.21	67.72	15.67	0.00	150.0	± 1.0 %	± 9.6 %
AAA	120 CO X 220 194 (4C) 7:450 1018D	Y	2.18	68.13	16.06	1 2222	150.0	12-12-22	
		Z	2.01	66.08	14.73		150.0	1	
10396-	64-QAM Waveform, 100 kHz	X	2,49	68.87	18.21	3.01	150.0	±0.9%	± 9.6 %
AAA		Y	2.16	67.08	17.29	10000	150.0	1.2.2.2.2	12220206
		Z	2.36	67.73	17.48		150.0	1	
10399-	64-QAM Waveform, 40 MHz	X	3.39	66.42	15.47	0.00	150.0	± 0.7 %	± 9.6 %
AAA	5001910.04200030000000093	Y	3.51	67.30	15.98	- 6465	150.0	10000	122256
		Z	3.41	66.37	15.33		150.0	1	
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.71	65.23	15.33	0.00	150.0	± 1.1 %	± 9.6 %
AAA	ACC 121 AL	Y	4.62	65.33	15.43	2055	150.0	STAR ST	120000
		Z	4.77	65.42	15.36		150.0	1	

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%.

^A The uncertainties of Norm X,Y,Z do not affect the E¹-field uncertainty inside TSL (see Pages 5 and 6).
⁸ Numerical linearization parameter: uncertainty not required.
⁴ Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field uncertainty. field value.

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:7534

Sensor Model Parameters

	C1 fF	C2 fF	α V~1	T1 ms.V ^{-z}	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V⁻1	T6
X	39.2	290.68	35.12	4.79	0.00	4.96	1.27	0.05	1.01
Y	32.6	240.06	34.78	5.15	0.00	4.90	1.15	0.00	1.00
Z	37.3	278.36	35.32	4.46	0.00	4.97	1.58	0.00	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (*)	-96.3
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:7534

f (MHz) ^c	Relative Permittivity	Conductivity (S/m) [*]	ConvF X	ConvF Y	ConvF Z	Alpha ⁶	Depth ^G (mm)	Unc (k=2)
150	52.3	0.76	13.84	13.84	13.84	0.00	1.00	± 13.3 %
300	45.3	0.87	12.83	12.83	12.83	0.08	1.20	± 13.3 %
450	43.5	0.87	11.65	11.65	11.65	0.16	1.30	± 13.3 %
750	41.9	0.89	10.25	10.25	10.25	0.54	0.81	± 12.0 %
835	41.5	0.90	9.98	9.98	9.98	0.47	0.84	± 12.0 %
900	41.5	0.97	9.86	9.86	9.86	0.48	0.82	± 12.0 %
1450	40.5	1.20	8.63	8.63	8.63	0.54	0.80	± 12.0 %
1810	40.0	1.40	8.15	8.15	8.15	0.38	0.86	± 12.0 %
1900	40.0	1.40	8.07	8.07	8.07	0.34	0.86	± 12.0 %
2100	39.8	1.49	8.02	8.02	8.02	0.33	0.86	± 12.0 %
2300	39.5	1.67	7.85	7.85	7.85	0.35	0.90	± 12.0 %
2450	39.2	1.80	7.63	7.63	7.63	0.38	0.90	± 12.0 %
2600	39.0	1.96	7.39	7.39	7.39	0.39	0.90	± 12.0 %
3500	37.9	2.91	6.63	6.63	6.63	0.30	1.35	± 14.0 %
3700	37.7	3.12	6.54	6.54	6.54	0.30	1.35	± 14.0 %
5250	35.9	4.71	5.38	5.38	5.38	0.40	1.80	± 14.0 %
5500	35.6	4.96	5.03	5.03	5.03	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.86	4.86	4.86	0.40	1.80	± 14.0 %
5750	35.4	5.22	4.88	4.88	4.88	0.40	1.80	± 14.0 %

Calibration Parameter	Determined in Head	Tissue Simulating Media
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⁶ Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.
⁶ At frequencies up to 10 GHz, the validity of tissue parameters (*s* and *s*) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target fissue parameters.
⁹ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:7534

f (MHz) ^c	Relative Permittivity	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ⁰	Depth ^G (mm)	Unc (k=2)
150	61.9	0.80	13.51	13.51	13.51	0.00	1.00	± 13.3 %
300	58.2	0.92	12.50	12.50	12.50	0.02	1.35	± 13.3 %
450	56.7	0.94	11.86	11.86	11.86	0.11	1.30	± 13.3 %
750	55.5	0.96	10.29	10.29	10.29	0.47	0.80	± 12.0 %
835	55.2	0.97	10.08	10.08	10.08	0.43	0.80	± 12.0 %
900	55.0	1.05	9.85	9.85	9.85	0.50	0.80	± 12.0 %
1450	54.0	1.30	8.75	8.75	8.75	0.34	0.80	± 12.0 %
1810	53.3	1.52	8.38	8.38	8.38	0.37	0.86	± 12.0 %
1900	53.3	1.52	8.16	8.16	8.16	0.42	0.86	± 12.0 %
2100	53.2	1.62	8.14	8.14	8.14	0.29	0.86	± 12.0 %
2300	52.9	1.81	7.82	7.82	7.82	0.37	0.90	± 12.0 %
2450	52.7	1.95	7.76	7.76	7.76	0.36	0.90	± 12.0 %
2600	52.5	2.16	7.47	7.47	7.47	0.37	0.90	± 12.0 %
3500	51.3	3.31	6.35	6.35	6.35	0.40	1.35	± 14.0 %
3700	51.0	3.55	6.17	6.17	6.17	0.40	1.35	± 14.0 %
5250	48.9	5.36	4.86	4.86	4.86	0.50	1.90	± 14.0 %
5500	48.6	5.65	4.41	4.41	4.41	0.50	1.90	± 14.0 %
5600	48.5	5.77	4.32	4.32	4.32	0.50	1.90	± 14.0 %
5750	48.3	5.94	4.43	4.43	4.43	0.50	1.90	± 14.0 %

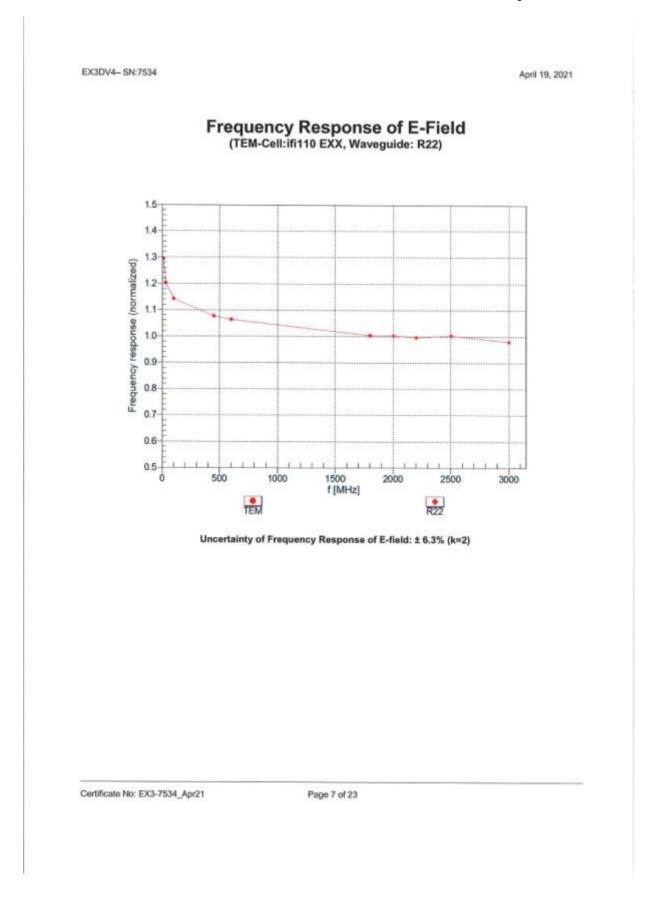
Calibration Par	ameter Determined	in Body Tissue	Simulating Media
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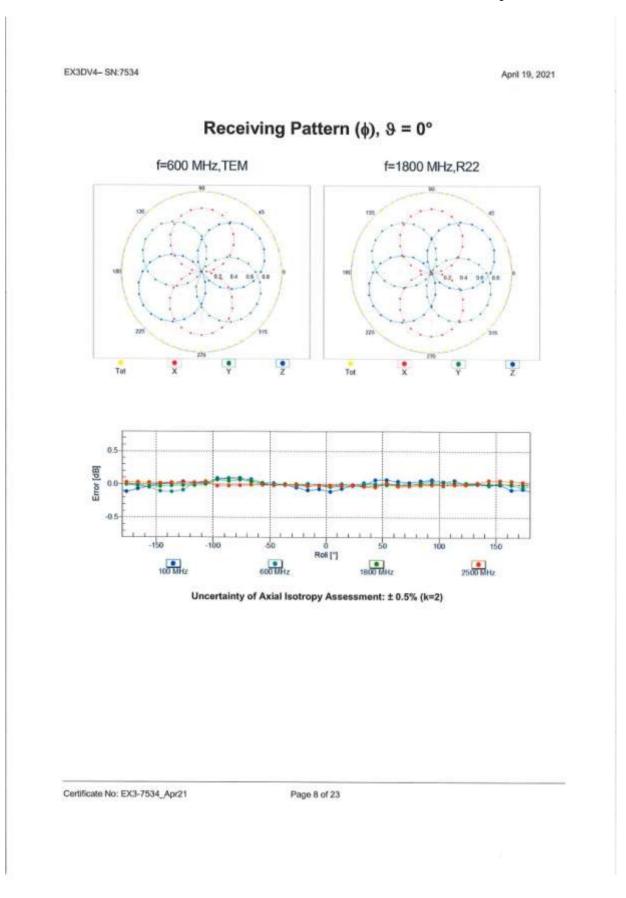
⁶ Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else il is restricted to ± 50 MHz. The uncertainty is the RSS of the CorwF uncortainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for CorwF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of CorwF assessed at 6 MHz is ± 90 MHz, and CorwF assessed at 13 MHz is 9-10 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.
⁶ All frequencies up to 10 GHz, the validity of tissue parameters (*x* and *a*) can be relaxed target tissue parameters.
⁶ All pha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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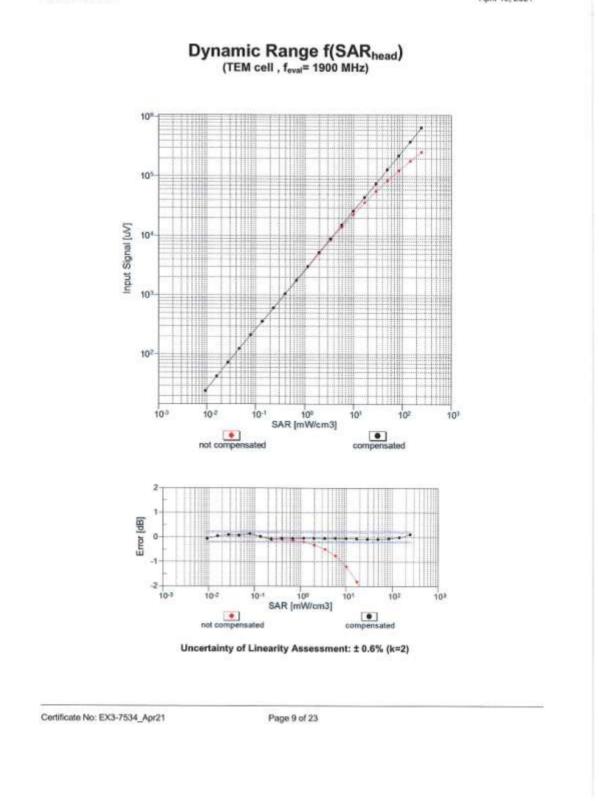


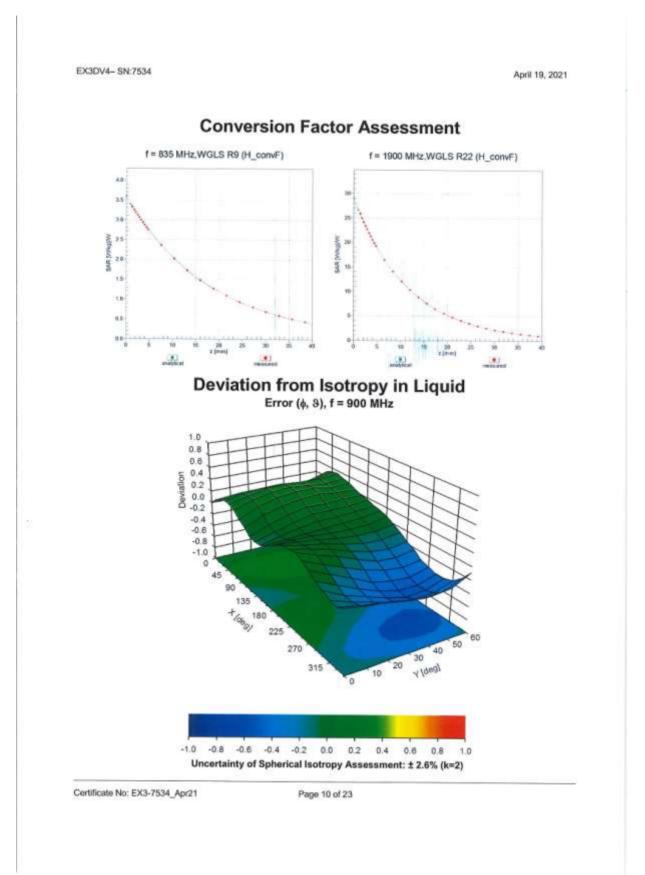


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Appendix: Modulation Calibration Parameters

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	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6 9
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot. 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mops)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	19.6%
10061	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbos)	WLAN	9.09	± 9.6 %
10065	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbos)	WLAN	9.00	± 9.6 %
10066	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbos)	WLAN	10.12	±9.6 %
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbos)	WLAN	10.24	±9.6%
10069	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6 %
10072	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 12 Mbns)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802 11g WIFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 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	10.30	19.6 %
10076	CAB	IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDO (TDMA/FDM, PI/4-DOPSK, Fultrate)	AMPS	4.77	and the state of t
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM		± 9.6 %
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	6,56	± 9.6 %
10098		UMTS-FDD (HSUPA) UMTS-FDD (HSUPA, Sublest 2)	NU0000000	3.98	± 9.6 %
-9030	DAC	viento-i du (nour A, dublest 2)	WCDMA	3.98	±9.6 %

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10099	CAC	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	CAB	LTE-FDD (SC-FDMA, 100% R8, 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 %
10103	DAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAE	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 %
10108	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %
10109	CAG	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	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	1 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6%
10114	CAG	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	19.6%
10115	CAG	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAG	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAG	IEEE 802.11n (HT Mixed, 13.5 Mops, BPSK)	WLAN	8.07	± 9.6 %
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	19.6%
10140	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	19.6%
10141	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	19.6%
10142	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	19.6%
10143	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDO	6.65	± 9.6 %
10145	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDO	5.76	± 9.6 %
10146	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDO	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FOD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FOD	6.60	± 9.6 %
10151	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.20	± 9.6 %
10153	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	
10157	CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	
10161	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 18-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	and a subscription of the local
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	and the second s	± 9.6 %
10171	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.52	± 9.6 %
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	and the second se	± 9.6 %
10174	CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDO	9.48	±9.6 %
10175	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	10.25	± 9.6 %
10176	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDO	5.72	± 9.6 %
10177	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	6.52	± 9.6 %
10178	CAE	LTE-FOD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	and a second sec	5.73	±9.6%
10179	AAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.52	± 9.6 %
1.0.1.0.00	/MAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %

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10181	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FOD	5.72	± 9.6 %
10182	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10185	CAI	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FOD	6.50	± 9.6 %
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 18-QAM)	LTE-FDD	6.52	± 9.6 9
10189	CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	± 9.6 %
10194	AAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	± 9.6 %
10195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	± 9.6 9
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	19.69
10197	AAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10198	CAF	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 9
10219	CAF	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 9
10220	AAF	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 9
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 9
10223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	19.6 9
10224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	29.65
10225	CAD	UMTS-FDD (HSPA+)	WCDMA	5.97	19.6 9
10226	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 9
10227	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	DAC	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TOD	9.48	± 9.6 3
10230	CAG	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAC	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TOD	9,19	± 9.6 %
10232	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TOD	9,48	± 9.6 1
10233	CAD	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10234	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	19.6 9
10235	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 9
10236	CAD	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	19.63
10237	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9,48	± 9.6 9
10239	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDO	9.21	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TOD	9.82	± 9.6 %
10242	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TOD	9.86	± 9.6 %
10243	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TOD	9.46	± 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	10.06	19.6 9
10246	CAG	LTE-TOD (SC-FDMA, 50% RB, 3 MHz, OPSK)	LTE-TDD	9.30	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TOD	9.91	19.69
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TOD	10.09	± 9.6 9
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TOD	9.29	± 9.6 9
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 18-QAM)	LTE-TOD	9.81	± 9.6 9
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 9
10252		LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 9
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 9
10254	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 9
10255	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 18-QAM)	LTE-TDD	9.20	
10257	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TOD	9.34	± 9.6 %
	L MAN	and the second restriction to the second second	LIL-IDD	8.34	± 9.6 %

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10260	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6 %
0263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 9
0265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 9
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 9
0267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 9
0268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 9
0269	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 9
10270	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.6 9
10274	CAB	UMTS-FDD (HSUPA, Sublest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.69
10275	CAD	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 9
10277	CAD	PHS (QPSK)	PHS	11.81	± 9.6 9
10278	CAD	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	19.6 9
10279	CAG	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	19.6 9
10290	CAG	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 9
10291	CAG	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 9
10292	CAG	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 9
10293	CAG	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 9
10295	CAG	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 9
10297	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 9
10298	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	
10299	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 18-QAM)	LTE-FDD	6.39	± 9.6 9
10300	CAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD		±9.6 %
10301	CAC	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	6.60	±9.6 9
10302	CAB	IEEE 802.16e WIMAX (29.18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	and the second second second	± 9.6.9
10303	CAB	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	12.57	± 9.6 9
10304		IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	and the second se	12,52	± 9.6 9
10305	CAA	IEEE 802.16e WIMAX (23.16, 3hs, 10MHz, 64QAM, POSC)	WIMAX	11.86	± 9.6 %
10306	CAA	IEEE 802.166 WIMAX (31.15, 10ms, 10MHz, 64QAM, PUSC)	WIMAX	15.24	± 9.6 9
10307	CAA		WIMAX	14.67	± 9.6 5
10308	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WIMAX	14.49	19.6 °
10309	AAB	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,AMC 2x3)	WIMAX	14.58	± 9.6 %
0.020.00	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3	WIMAX	14.57	± 9.61
10311	AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAD	IDEN 1:3	IDEN	10.51	± 9.6 1
10314	AAD	IDEN 1:6	IDEN	13.48	± 9.6 %
10315	AAD	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	1,71	± 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)	WEAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.37	± 9.6 %
10401	AAA	IEEE 802.11ac WIFI (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	± 9.6 %
10402	AAA	IEEE 802.11ac WiFI (80MHz, 64-QAM, 99pc dc)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAD	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %

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10410	AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 9
0419	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
0423	AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 9
10424	AAE	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 9
10425	AAE	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAE	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 9
10431	AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6.9
10432	AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 9
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FOD	8.34	± 9.6 9
10434	AAG	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TOD	7.82	±9.6 %
10447	AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FOD	7.51	± 9.6 9
10450	AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FOD	7.48	± 9.6.9
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAC	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 9
10456	AAC	IEEE 802.11ac WIFI (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAC	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAC	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 9
10459	AAC	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAC	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 9
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 %
10463	AAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TOD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDO	8.57	± 9.6 %
10467	AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL, Sub)	LTE-TOD	8.32	± 9.6 9
10469	AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 9
10470	AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10471	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10472	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TOD	8.57	± 9.6 %
10473	AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TOD	7.82	± 9.6 %
10474	AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10475	AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TOD	8.57	± 9.6 9
10477	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 9
10478	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TOD	8.57	± 9.6 9
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TOD	7.74	± 9.6 9
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	±9.69
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 9
10482	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	± 9.6 9
10483	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	± 9.6 9
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 54-QAM, UL Sub)	LTE-TOD	8.47	± 9.6 9
10485	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.59	± 9.6 9
10486	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	± 9.6 9
10487	AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	± 9.6 9

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10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TOD	7.70	± 9.6 %
10489	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TOD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TOD	8.54	± 9.6 %
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TOD	7.74	± 9.6 %
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	± 9.6 %
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	± 9.6 %
10496	AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10497	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10498	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	± 9.6 %
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	± 9.6 %
10500	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 9
10501	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	19.6%
10503	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	19.6%
10504	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10505	AAC	LTE-TDD (SC-FDMA, 100% R8, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 9
10506	AAC	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7,74	± 9.6 9
10507	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	± 9.6 9
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 9
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7,99	± 9.6 %
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	±9.6 %
10511	AAF	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, 64-OAM, UL Sub)	LTE-TDD	8.51	± 9.6 9
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 9
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.42	
10514	AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TOD	-	± 9.6.9
10515	AAE	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	8.45	± 9.6 9
10516	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10517	AAF	IEEE 802.11b WIFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.57	± 9.6 %
10518	AAF	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 99bc dc)	WLAN	1.58	± 9.6 %
10519	AAF	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10520	AAB	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	± 9.6 %
10521	AAB	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	8.12	± 9.6 %
10522	AAB	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	± 9.6 %
10523	AAC	IEEE 802.11a/h WiFI 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.45	* 9.6 9
10524	AAC	IEEE 802.11a/h WiFI 5 GHz (OFDM, 46 Mbps, 99pc dc)	WLAN	8.08	± 9.6 %
10525	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.27	± 9.6 %
10526	and the local division of the local division	IEEE 802.11ac WiFi (20MHz, MCS0, 990c dc)	1007022	8.36	± 9.6 %
10527	AAF	IEEE 802.11ac WIFI (20MHz, MCS1, 990c dc)	WLAN	8.42	± 9.6 %
10528	AAF	IEEE 802.11ac WiFi (20MHz, MCS2, 980c dc)	WLAN	8.21	± 9.6 %
10529	AAF	IEEE 802.11ac WIFI (20MHz, MCS3, 980c dc)	WLAN	8.36	± 9.6 %
10531	AAF	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6 %
10532	AAF	IEEE 802.11ac WIFI (20MHz, MCS8, 99pc dc)	WLAN	8.43	± 9.6 %
10532	AAF		WLAN	8.29	± 9.6 %
10534	AAE	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	± 9.6 %
10535	AAE	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	± 9.6 %
10536	AAE	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	± 9.6 %
	AAF	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	± 9.6 %
10537	AAF	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.44	± 9.6 %
10538	AAF	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	± 9.6 %
10540	AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	±9.6 %
10541	AAA	IEEE 802.11ac WiFI (40MHz, MCS7, 99pc dc)	WLAN	8.46	± 9.6 %
10542	AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.65	± 9.6 %
10543	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8.65	± 9,6 %
10544	AAC	IEEE 802.11ac WiFI (80MHz, MCS0, 99pc dc)	WLAN	8.47	± 9.6 %
10545	AAC	IEEE 802.11ac WIFI (80MHz, MCS1, 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 %
10547	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 %
10550	AAC	IEEE 802.11ac WIFI (80MHz, MCS6, 99pc dc)	WLAN	8.38	± 9.6 %
10551	AAC	IEEE 802.11ac WIFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	± 9.6 %
10553	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFI (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WIFI (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10564	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10586	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	1 9.6 %
10567	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	1 9.6 %
10568	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	±9.6%
10569	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAC	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAC	IEEE 802.11b WIFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
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	19.6%
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	19.6%
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8,49	19.6%
10587	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	19.6 %
10588	AAA	IEEE 802.11a/h WiFI 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	\$ 9.6 %
10589	AAA	IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	19.6 %
10590	AAA	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10591	AAA	IEEE 802 11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	±9.6%
10592	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8,79	± 9.6 %
10593	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10595	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
10596	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10598	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10599	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6 %
10600	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10601	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	± 9.6 %
10602	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.94	± 9.6 %
	1 mm	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)		0.04	1 2 9 0 3

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10604	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
10605	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
10606	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10607	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAC	IEEE 802.11ac WIFI (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAC	IEEE 802.11ac WIFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
10610	AAC	IEEE 802.11ac WIFi (20MHz, MCS3, 90pc do)	WLAN	8.78	± 9.6 %
10611	AAC	IEEE 802.11ac WIFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAC	IEEE 802.11ac WIFI (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10613	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
10614	AAC	IEEE 802.11ac WIFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 9
0615	AAC	IEEE 802.11ac WIFI (20MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 9
10616	AAC	IEEE 802.11ac WIFI (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10617	AAC	IEEE 802.11ac WIFI (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAC	IEEE 802.11ac WIFI (40MHz, MCS2, 90pc dc)	WLAN	8.58	19.6 9
10619	AAC	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 9
10620	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6.3
10621	AAC	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10623	AAC	IEEE 802.11ac WiFI (40MHz, MCS7, 90pc dc)	WLAN	8,82	± 9.6 %
10624	AAC	IEEE 802,11ac WIFi (40MHz, MCS8, 90pc dc)	WLAN	8,96	± 9.6 %
10625	AAC	IEEE 802.11ac WIFI (40MHz, MCS9, 90pc dc)	WLAN	8,96	± 9.6 %
10626	AAC	IEEE 802.11ac WIFI (80MHz, MCS0, 90pc dc)	WLAN	8,83	± 9.6 9
10627	AAC	IEEE 802.11ac WIFI (80MHz, MCS1, 90pc dc)	WLAN	8.88	19.6 9
10628	AAC	IEEE 802.11ac WIFI (80MHz, MCS2, 90pc dc)	WLAN	8,71	± 9.6 %
10629	AAC	IEEE 802.11ac WIFI (80MHz, MCS3, 90pc dc)	WLAN	8.85	19.6 9
10630	AAC	(EEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 °
10631	AAC	IEEE 802.11ac WiFI (80MHz, MCS5, 90pc dc)	WLAN	8.81	and the second s
10632	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8,74	± 9.6 %
10633	AAC	IEEE 802.11ac WIFI (80MHz, MCS7, 90pc dc)	WLAN		± 9.6 %
10634	AAC	IEEE 802.11ac WIFI (80MHz, MCS8, 90pc dc)	WLAN	8.83	±9.6 %
10635	AAC	IEEE 802.11ac WIFI (80MHz, MCS9, 90pc dc)	WLAN	8.80	±9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.81	
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.83	± 9.6 %
10638	and the second s	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.79	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 30pc dc)		8.86	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 80pc dc)	WLAN	8.85	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	8.98	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCSB, 90pc dc)	WLAN	9.06	± 9.6 9
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.06	± 9.6 %
10644	AAC	IEEE 802.11ac WiFI (160MHz, MCS2, 80pc dc)	WLAN	8.89	± 9.6 %
10645	AAC	A	WEAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	WLAN	9.11	± 9.6 %
10647	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, 0L Sub=2,7)	LTE-TDD	11.96	± 9.6 %
	AAC		LTE-TDD	11.96	± 9.6 %
10648 10652	AAC	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
	AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAC	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Cipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAC	Pulse Waveform (200Hz, 10%)	Test	10,00	± 9.6 %
10659	AAC	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAC	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9,6 %
10661	AAC	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 9
10662	AAC	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 9
10670	AAC	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAD	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6 %

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10672	AAD	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
0673	AAD	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
0874	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
0675	AAD	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
0676	AAD	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	19.6%
0677	AAD	IEEE 802.11ex (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
0678	AAD	IEEE 802 11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
0679	AAD	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 9
0680	AAD	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
0681	AAG	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
0682	AAF	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
0683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
0684	AAC	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	± 9.6 %
0685	AAC	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
0686	AAC	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	± 9.6 %
0687	AAE	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
0688	AAE	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
0689	AAD	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	± 9.6 %
0690	AAE	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
0691	AAB	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	± 9.6 %
0692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
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 %
0702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	± 9.6 %
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	± 9.6 %
0705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6 %
0706	AAC	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6 %
0707	AAC	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	± 9.6 %
0708	AAC	IEEE 802.11ax (40MHz, MCS1, 9Bpc 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	19.6 9
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	±969
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 9
0716	AAC	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	± 9.6 %
0717	AAC	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8.48	± 9.6 9
0718	AAC	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.24	± 9.6 9
0719	AAC	IEEE 802.11ax (80MHz, MCS0, 90pc dc)	WLAN	8.81	± 9.6 9
0720	AAC	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN	8.87	± 9.6 %
0721	AAC	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6 %
0722	AAC	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8.55	± 9.6 9
10723	AAC	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 9
0724	AAC	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.90	1 9.6 %
0725	AAC	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8,74	\$ 9.6 %
10726	AAC	IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	± 9.6 %
0727	AAC	IEEE 802.11ax (80MHz, MCSB, 90pc dc)	WLAN	8.66	± 9.6 %

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10728	AAC	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	WLAN	0.00	1 + 0.0 **
10729	AAC	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.65	± 9.6 %
0730	AAC	IEEE 802.11ax (80MHz, MCS10, 80pc dc)	WLAN	8.64	± 9.6 %
0731	AAC	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	1007501	8.67	± 9.6 %
0732	AAC	IEEE 802,11ax (80MHz, MCS1, 99pc dc)	WLAN	8.42	± 9.6 %
10733	AAC	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.46	± 9.6 %
0734	AAC	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.40	± 9.6 %
10735	AAC	IEEE 802.11ax (BOMHz, MCS4, 99pc dc)	WLAN	8.25	± 9.6 %
10736	AAC	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	± 9.6 %
10737	AAC	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN WLAN	8.27	± 9.6 %
10738	AAC	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	the second se	8.36	± 9.6 %
10739	AAC	IEEE 802.11ax (80MHz, MCS7, 89pc dc)	WLAN	8.42	± 9.6 %
10740	AAC	IEEE 802.11ax (80MHz, MCSB, 99pc dc)	WLAN	8.29	± 9.6 %
10741		IEEE 802.11ax (80MHz, MCS9, 89pc 6c)	WLAN	8.48	± 9.6 %
10742	AAC	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	± 9.6 %
10743	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	± 9.6 %
10744	AAC		WLAN	8.94	± 9.6 %
10745	AAG	IEEE 802.11ax (160MHz, MCS1, 90pc dc)	WLAN	9.16	± 9.6 %
10746	AAC	IEEE 802.11ax (160MHz, MCS2, 90pc dc)	WLAN	8.93	± 9.6 %
10740	AAC	IEEE 802.11ax (160MHz, MCS3, 90pc dc)	WLAN	9.11	± 9.6 %
10748	AAC	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WLAN	9.04	± 9.6 %
1000.020	AAC	IEEE 802.11ax (160MHz, MCS5, 90pc dc)	WLAN	8.93	± 9.6 %
10749	AAC	IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WLAN	8.90	± 9.6 %
10750	AAC	IEEE 802.11ax (160MHz, MCS7, 90pc dc)	WLAN	8.79	± 9.6 %
10751	AAC	IEEE 802.11ax (160MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10752	AAC	IEEE 802.11ax (160MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10753	AAC	IEEE 802.11ax (160MHz, MCS10, 90pc dc)	WLAN	9.00	± 9.6 %
10754	AAC	IEEE 802.11ax (160MHz, MCS11, 90pc dc)	WLAN	8.94	± 9.6 %
10755	AAC	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	± 9.6 %
10756	AAC	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	± 9.6 %
10757	AAC	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.77	± 9.6 %
10758	AAC	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.69	± 9.6 %
10759	AAC	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	± 9.6 %
10760	AAC	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	± 9.6 %
10761	AAC	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	± 9.6 %
10762	AAC	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	± 9.6 %
10763	AAC	IEEE 802.11ax (160MHz, MCS8, 98pc dc)	WLAN	8.53	± 9.6 %
10764	AAC	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	± 9.6 %
10765	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	± 9.6 %
10766	AAC	IEEE 802.11ax (160MHz, MCS11, 99pc dc)	WLAN	8.51	± 9.6 %
10767	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TOD	8.01	± 9.6 %
10770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10775	AAC	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10776	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
0777	AAC	5G NR (CP-OFDM, 50% R8, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	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	6.38	± 9.6 %
10782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %

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10784	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10785	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDO	8.39	± 9.6 %
10789	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDO	7.92	± 9.6 %
10793	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 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	8.34	± 9.6 %
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10617	AAD	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAD	5G NR (CP-OFDM, 100% R8, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAO	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAC	5G NR (CP-OFDM, 100% R8, 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	8.41	± 9.6 %
10823	AAC	5G NR (CP-OFDM, 100% R8, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	1 9.6 %
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 9
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 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	6.49	± 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	± 9.6 %
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8,36	± 9.6 9
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	± 9.6 %
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %

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10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6 %
10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TOD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10976	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8,39	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8,40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 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	± 9.6 %
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, OPSK, 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	5.6B	± 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-8-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 (0FT-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	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %

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10922	AAD	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 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 (DFT-s-OFDM, 1 R8, 40 MHz, QPSK, 15 kHz)	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	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5,90	± 9.6 %
10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 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)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAB	5G NR (DFT-8-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	± 9.6 %
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	± 9.6 %
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, 84-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 TOD	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 %
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %

* 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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