TEST REPORT



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1. Report No: DRRFCC2309-0087(2)

2. Customer

· Name : Kyocera Corporation

Address: Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku Yokohama-shi, Kanagawa, Japan

3. Use of Report: FCC Original Grant

4. Product Name / Model Name: Mobile Phone / EB1173

FCC ID: JOYEB1173

5. FCC Regulation(s): CFR 47 Part 2 subpart 2.1093

Test Method Used: IEEE 1528-2013, IEC/IEEE 62209-1528

FCC SAR KDB Publications (Details in test report)

6. Date of Test: 2023.09.11 ~ 2023.09.20

7. Location of Test: Permanent Testing Lab

☐ On Site Testing

8. Testing Environment: Refer to appended test report.

9. Test Result: Refer to attached test report.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test report is not related to KOLAS accreditation.

Affirmation Tested by Name : DuHee Lee

Reviewed by

Name: HakMin Kim

Pages: 1/220

2023.10.17.

Dt&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net



Test Report Version

Test Report No.	Date	Description	Tested by	Reviewed by
DRRFCC2309-0087	Sep. 22, 2023	Initial issue	DuHee Lee	HakMin Kim
DRRFCC2309-0087(1)	Oct. 6, 2023	Revise section 11.4.1 & 12	DuHee Lee	HakMin Kim
DRRFCC2309-0087(2)	Oct. 17, 2023	Revise section 6.5	DuHee Lee	HakMin Kim



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1. DESCRIPTION OF DEVICE

1.1 General Information

EUT type	Mobile Phone										
FCC ID	JOYEB1173										
Equipment model name	EB1173										
Equipment add model name	N/A										
Equipment serial no.	Identical prototype										
FCC & ISED MRA Designation No.	KR0034										
ISED#	5740A										
Mode(s) of Operation		GSM 850, GSM 1900, WCDMA 850, WCDMA 1700, WCDMA 1900, LTE Band 12, 5, 4, 2, 41, 2.4 G W-LAN (802.11b/g/n-HT20), 5 G W-LAN (802.11a/n-HT20/n-HT40/ac-VHT20/ac-VHT40/ac-VHT80), Bluetooth, NFC									
	Band	Mode	Operating Modes	Bandwidth	Frequency						
	GSM 850	GSM/GPRS	Voice/Data	_	824.2 ~ 848.8 MHz						
	GSM 1900	GSM/GPRS	Voice/Data	_	1 850.2 ~ 1 909.8 MHz						
	WCDMA 850	WCDMA	Voice/Data	_	826.4 ~ 846.6 MHz						
	WCDMA 1700	WCDMA	Voice/Data	-	1 712.4 ~ 1 752.6 MHz						
	WCDMA 1900	WCDMA	Voice/Data	_	1 852.4 ~ 1 907.6 MHz						
	LTE Band 12	LTE	Voice/Data	1.4/3/5/10MHz	699.7 ~ 715.3 MHz						
	LTE Band 5	LTE	Voice/Data	1.4/3/5/10MHz	824.7 ~ 848.3 MHz						
	LTE Band 4	LTE	Voice/Data	1.4/3/5/10/15/20MHz	1 710.7 ~ 1 754.3 MHz						
	LTE Band 2	LTE	Voice/Data	1.4/3/5/10/15/20MHz	1 850.7 ~ 1 909.3 MHz						
	LTE Band 41	LTE	Voice/Data	5/10/15/20MHz	2 498.5 ~ 2 687.5 MHz						
	2.4 GHz W-LAN	802.11b/g/n	Voice/Data	HT20	2 412 ~ 2 462 MHz						
	Z.4 GHZ W-LAN	802.11b/g/fi	Voice/Data Voice/Data	HT20/VHT20	5 180 ~ 5 240 MHz						
TX Frequency Range	5.2 GHz W-LAN	802.11n/ac	Voice/Data	HT40/VHT40	5 180 ~ 5 240 MHz						
		802.111/ac	Voice/Data	VHT80	5 210 MHz						
				HT20/VHT20							
	5.3 GHz W-LAN	802.11a/n/ac	Voice/Data		5 260 ~ 5 320 MHz						
		802.11n/ac	Voice/Data Voice/Data	HT40/VHT40 VHT80	5 270 ~ 5 310 MHz						
		802.11ac			5 290 MHz						
	50011 1111 1111	802.11a/n/ac	Voice/Data	HT20/VHT20	5 500 ~ 5 720 MHz						
	5.6 GHz W-LAN	802.11n/ac	Voice/Data	HT40/VHT40	5 510 ~ 5 710 MHz						
		802.11ac	Voice/Data	VHT80	5 530 ~ 5 690 MHz						
		802.11a/n/ac	Voice/Data	HT20/VHT20	5 745 ~ 5 825 MHz						
	5.8 GHz W-LAN	802.11n/ac	Voice/Data	HT40/VHT40	5 755 ~ 5 795 MHz						
		802.11ac	Voice/Data	VHT80	5 775 MHz						
	Bluetooth	-	Data	-	2 402 ~ 2 480 MHz						
	NFC	-	Type A/B/F	-	13.56 MHz						
	GSM 850	GSM/GPRS	Voice/Data	-	869.2 ~ 893.8 MHz						
	GSM 1900	GSM/GPRS	Voice/Data	-	1 930.2 ~ 1 989.8 MHz						
	WCDMA 850	WCDMA	Voice/Data	-	871.4 ~ 891.6 MHz						
	WCDMA 1700	WCDMA	Voice/Data	-	2 112.4 ~ 2 152.6 MHz						
	WCDMA 1900	WCDMA	Voice/Data	-	1 932.4 ~ 1 987.6 MHz						
	LTE Band 12	LTE	Voice/Data	1.4/3/5/10MHz	729.7 ~ 745.3 MHz						
	LTE Band 5	LTE	Voice/Data	1.4/3/5/10MHz	869.7 ~ 893.3 MHz						
	LTE Band 4	LTE	Voice/Data	1.4/3/5/10/15/20MHz	2 110.7 ~ 2 154.3 MHz						
	LTE Band 2	LTE	Voice/Data	1.4/3/5/10/15/20MHz	1 930.7 ~ 1 989.3 MHz						
	LTE Band 41	LTE	Voice/Data	5/10/15/20MHz	2 498.5 ~ 2 687.5 MHz						
	2.4 GHz W-LAN	802.11b/g/n	Voice/Data	HT20	2 412 ~ 2 462 MHz						
		802.11a/n/ac	Voice/Data	HT20/VHT20	5 180 ~ 5 240 MHz						
RX Frequency Range	5.2 GHz W-LAN	802.11n/ac	Voice/Data	HT40/VHT40	5 190 ~ 5 230 MHz						
		802.11ac	Voice/Data	VHT80	5 210 MHz						
		802.11a/n/ac	Voice/Data	HT20/VHT200	5 260 ~ 5 320 MHz						
	5.3 GHz W-LAN	802.11n/ac	Voice/Data	HT40/VHT40	5 270 ~ 5 310 MHz						
		802.11ac	Voice/Data	VHT80	5 290 MHz						
		802.11a/n/ac	Voice/Data	HT20/VHT20	5 500 ~ 5 720 MHz						
	5.6 GHz W-LAN	802.11n/ac	Voice/Data	HT40/VHT40	5 510 ~ 5 710 MHz						
		802.11ac	Voice/Data	VHT80	5 530 ~ 5 690 MHz						
		802.11a/n/ac	Voice/Data	HT20/VHT20	5 745 ~ 5 825 MHz						
	5.8 GHz W-LAN	802.11n/ac	Voice/Data	HT40/VHT40	5 755 ~ 5 795 MHz						
		802.11ac	Voice/Data	VHT80	5 775 MHz						
	Bluetooth	-	Data	-	2 402 ~ 2 480 MHz						
	NFC	_	Type A/B/F	_	13.56 MHz						
			. , , , , , , , , , , , , , , , , , , ,		10.00 WII IZ						

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				Reported SAR				
Equipment Class	Band		1g SAR (W/kg)	10g SAR (W/kg)				
		Head	Body-Worn	Hotspot	Phablet	Extremity		
PCE	GSM 850	0.40	0.48	-	-	-		
PCE	GPRS 850	0.40	0.48	0.48	-	-		
PCE	GSM 1900	0.12	0.74	-	-	-		
PCE	GPRS 1900	0.11	0.73	0.73	-	-		
PCE	WCDMA 850	0.58	0.69	0.69	-	-		
PCE	WCDMA 1700	0.10	0.79	0.79	-	-		
PCE	WCDMA 1900	0.22	1.16	1.16	-	-		
PCE	LTE Band 12	0.15	0.26	0.26	-	-		
PCE	LTE Band 5	0.47	0.60	0.60	-	-		
PCE	LTE Band 4	0.11	0.94	0.94	-	-		
PCE	LTE Band 2	0.18	1.01	1.01	-	-		
PCE	LTE Band 41	0.33	0.39	0.44	-	-		
DTS	2.4 GHz W-LAN	0.20	0.13	0.13	-	-		
U-NII-1	5.2 GHz W-LAN	-	-	-	-	-		
U-NII-2A	5.3 GHz W-LAN	0.39	< 0.1	-	0.20	-		
U-NII-2C	5.6 GHz W-LAN	0.29	0.17	-	0.19	-		
DSS	Bluetooth	< 0.1	< 0.1	< 0.1	-	-		
DXX	NFC	-	-	-	-	< 0.1		
Simultaneous SAR	per KDB 690783 D01v01r03	1.07	1.42	1.29	-	-		
CC Equipment Class	Licensed Portable Transmi Part 15 Spread Spectrum T Digital Transmission Syster Unlicensed National Inform Low Power Communication	ransmitter(DSS) n(DTS) ation Infrastructure	(UNII)					
Date(s) of Tests	2023.09.11 ~ 2023.09.20							
ntenna Type	Internal Antenna							
unctions	Internal Antenna GSM/GPRS (GPRS Class: 12) supported. * DTM not supported. No simultaneous transmission between GSM, WCDMA, WLAN & NFC (13.56 MHz). VolP is supported. W-LAN 2.4GHz is supported Hotspot. W-LAN 5 GHz is not supported Hotspot.							

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1.2 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for WLAN operations during receiver. Detailed descriptions of the power reduction mechanism are included in the operational description.

1.3 Nominal and Maximum Output Power Specifications

The Nominal and Maximum Output Power Specifications are in section 9 of this test report.

1.4 DUT Antenna Locations

The overall dimensions of this device are $> 9 \times 5$ cm. A diagram showing the location of the device of the device antenna can be found in JOYEB1173_Antenna Location. Since the diagonal dimension of this device is > 160 mm and < 200 mm. it is considered a "phablet"

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Mada	Device Sides for SAR Testing								
Mode	Тор	Bottom	Front	Rear	Right	Left			
GSM/GPRS 850	X	0	0	0	X	0			
GSM/GPRS 1900	Х	0	0	0	Х	0			
WCDMA 850	Χ	0	0	0	X	0			
WCDMA 1700	Х	0	0	0	Х	0			
WCDMA 1900	X	0	0	0	X	0			
LTE Band 12	X	0	0	0	X	0			
LTE Band 5	Х	0	0	0	Х	0			
LTE Band 4	X	0	0	0	Х	0			
LTE Band 2	Χ	0	0	0	X	0			
LTE Band 41	Χ	0	0	0	X	0			
2.4G W-LAN	X	Х	0	0	X	0			
5G W-LAN	Х	Х	0	0	Х	0			
Bluetooth	X	X	0	0	X	0			
NFC	0	0	0	0	0	0			

Note 1: Particular DUT edges were not required to be evaluated for Hotspot SAR or Phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 648474 D04v01r03. The antenna document shows the distances between the transmit antennas and the edges of the device.

Note 2: O - Test / X - Not test.

1.5 Simultaneous Transmission Capabilities

The Simultaneous Transmission Capabilities are in section 12 of this test report.

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1.6 Miscellaneous SAR Test Considerations

(A) WIFI

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg, SAR is not required for U-NII-1 band according to FCC KDB publication 248227 D01v02r02.

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Since Wireless Router operations are not allowed by the chipset firmware using 5 GHz WIFI, only 2.4 GHz WIFI Hotspot SAR tests and combinations are considered for SAR with respect to Wireless Router configurations according to FCC KDB 941225 D06v02r01.

(B) Licensed Transmitter(s)

GSM/GPRS DTM is not supported for US bands. Therefore, the GSM Voice modes in this report do not transmit simultaneously with GPRS Data.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r04.

This device supports LTE capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE Band falls completely within an LTE band with a larger transmission frequency range, both LTE bands have the same target power (or the band with the lager transmission frequency range has a higher target power), and both LTE bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

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1.7 Guidance Applied

- IEEE 1528-2013
- IEC/IEEE 62209-1528
- FCC KDB Publication 941225 D01v03r01 (3G SAR Procedures)
- FCC KDB Publication 941225 D05v02r05 (SAR for LTE Devices)
- FCC KDB Publication 941225 D05Av01r02 (LTE Rel.10 KDB Inquiry Sheet)
- FCC KDB Publication 941225 D06v02r01(Hotspot Mode)
- FCC KDB Publication 248227 D01v02r02 (802.11 Wi-Fi SAR)
- FCC KDB Publication 447498 D01v06 (General RF Exposure Guidance)
- FCC KDB Publication 648474 D04v01r03 (Handset SAR)
- FCC KDB Publication 690783 D01v01r03 (SAR Listings on Grants)
- FCC KDB Publication 865664 D01v01r04 (SAR Measurement 100 MHz to 6 GHz)
- FCC KDB Publication 865664 D02v01r02 (RF Exposure Reporting)
- October 2013 TCB Workshop Notes (GPRS testing criteria)
- April 2015 TCB Workshop Notes (Simultaneous transmission summation clarified)
- October 2016 TCB Workshop Notes (Bluetooth Duty Factor)
- April 2019 TCB Workshop Notes (Tissue Simulating Liquids)

1.8 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 11.

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1.9 FCC & ISED MRA test lab designation no. : KR0034



2. LTE INFORMATION

		LTE Information							
FCC ID			JOYEB1173						
Form Factor		Mobile Phone							
Frequency Range of each LTE transmission Band	LTE Band 12 (699.7 ~ 715.3 MHz) LTE Band 5 (Cell) (824.7 ~ 848.3 I LTE Band 4 (AWS) (1 710.7 ~ 1 75 LTE Band 2 (PCS) (1 850.7 ~ 1 90 LTE Band 41 (2 498.5 ~ 2 687.5 M	MHz) 54.3 MHz) 19.3 MHz)							
Channel Bandwidths	LTE Band 5 : 1.4 MHz, 3 MHz, 5 M LTE Band 4 : 1.4 MHz, 3 MHz, 5 M LTE Band 2 : 1.4 MHz, 3 MHz, 5 M	Band 12 : 1.4 MHz, 3 MHz, 5 MHz, 10 MHz Band 5 : 1.4 MHz, 3 MHz, 5 MHz, 10 MHz Band 4 : 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz Band 2 : 1.4 MHz, 3 MHz, 5 MHz, 15 MHz, 15 MHz, 20 MHz Band 2 : 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz							
Channel Number and Frequencies(MHz)	Low	Low-Mid	Mid	Mid-High	High				
LTE Band 12: 1.4 MHz	699.7 (23017)	N/A	707.5 (23095)	N/A	715.3 (23173)				
LTE Band 12: 3 MHz	700.5 (23025)	N/A	707.5 (23095)	N/A	714.5 (23165)				
LTE Band 12: 5 MHz	701.5 (23035)	N/A	707.5 (23095)	N/A	713.5 (23155)				
LTE Band 12: 10 MHz	704.0 (23060)	N/A	707.5 (23095) ^{Note1}	N/A	711.0 (23130)				
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)	N/A	836.5 (20525)	N/A	848.3 (20643)				
LTE Band 5 (Cell): 3 MHz	825.5 (20415)	N/A	836.5 (20525)	N/A	847.5 (20635)				
LTE Band 5 (Cell): 5 MHz	826.5 (20425)	N/A	836.5 (20525)	N/A	846.5 (20625)				
LTE Band 5 (Cell): 10 MHz	829.0 (20450)	N/A	836.5 (20525)Note2	N/A	844.0 (20600)				
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)	N/A	1732.5 (20175)	N/A	1754.3 (20393)				
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	N/A	1732.5 (20175)	N/A	1753.5 (20385)				
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	N/A	1732.5 (20175)	N/A	1752.5 (20375)				
LTE Band 4 (AWS): 10 MHz	1715.0 (20000)	N/A	1732.5 (20175)	N/A	1750.0 (20350)				
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	N/A	1732.5 (20175)	N/A	1747.5 (20325)				
LTE Band 4 (AWS): 20 MHz	1720.0 (20050)	N/A	1732.5 (20175) Note3	N/A	1745.0 (20300)				
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	N/A	1880.0 (18900)	N/A	1909.3 (19193)				
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	N/A	1880.0 (18900)	N/A	1908.5 (19185)				
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	N/A	1880.0 (18900)	N/A	1907.5 (19175)				
LTE Band 2 (PCS): 10 MHz	1855.0 (18650)	N/A	1880.0 (18900)	N/A	1905.0 (19150)				
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	N/A	1880.0 (18900)	N/A	1902.5 (19125)				
LTE Band 2 (PCS): 20 MHz	1860.0 (18700)	N/A	1880.0 (18900)	N/A	1900.0 (19100)				
LTE Band 41: 5 MHz	2498.5 (39675)	2545.8 (40148)	2593.0 (40620)	2640.3 (41093)	2687.5 (41565)				
LTE Band 41: 10 MHz	2501.0 (39700)	2547.0 (40160)	2593.0 (40620)	2639.0 (41080)	2685.0 (41540)				
LTE Band 41: 15 MHz	2503.5 (39725)	2548.3 (40173)	2593.0 (40620)	2637.8 (41068)	2682.5 (41515)				
LTE Band 41: 20 MHz	2506.0 (39750)	2549.5 (40185)	2593.0 (40620)	2636.5 (41055)	2680.0 (41490)				
UE Category		(,	LTE Rel.10, UE Cat 4						
Modulations Supported in UL			QPSK. 16QAM, 64QAM						
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3~6.2.5? (manufacturer attestation to be provided)			Yes						
A-MPR (Additional MPR) disabled for SAR Testing?			Yes						
LTE Carrier Aggregation Possible Combinations		LT	E Carrier Aggregation is not supported.						
LTE Additional Information		oes not support CA features on 3GP The followi	P Release 10. All uplink communication ng LTE Release 10 Features are not su (IFI Offloading, MDH, eMBMS, Cross-C	ns are identical to the Release 8 Sp apported:					

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Note(s)

1. LTE B12 can not contain three non-overlapping channels of 10 MHz bandwidth.
Per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

2. LTE B5(Cell) can not contain three non-overlapping channels of 10 MHz bandwidth.
Per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

3. LTE B4 (AWS) can not contain three non-overlapping channels of 20 MHz bandwidth.
Per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.



3. INTROCUCTION

The FCC and Industry Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices.

The FCC has adopted the guidelines for evaluating the environmental effects of radio frequency radiation in ET Docket 93-62 on Aug. 6, 1996 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave is used for guidance in measuring SAR due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86 NCRP, 1986, Bethesda, MD 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

SAR Definition

Specific Absorption Rate (SAR) is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ) It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Fig. 3.1)

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

Fig. 3.1 SAR Mathematical Equation

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

 σ = conductivity of the tissue-simulating material (S/m) ρ = mass density of the tissue-simulating material (kg/m³)

E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relations to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.

4. DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

- 1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4.1) and IEEE1528-2013.
- 2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.

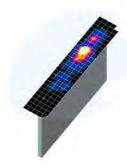


Figure 4.1 Sample SAR Area Scan

- 3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4.1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4.1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- 4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.



			≤ 3 GHz	> 3 GHz		
Maximum distance fro (geometric center of p		measurement point rs) to phantom surface	5 mm ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \text{ mm} \pm 0.5 \text{ mm}$		
Maximum probe angle surface normal at the r			30°±1°	20° ± 1°		
			$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ 2 – 3 GHz: $\leq 12 \text{ mm}$	$3 - 4 \text{ GHz} : \le 12 \text{ mm}$ $4 - 6 \text{ GHz} : \le 10 \text{ mm}$		
Maximum area scan s	patial resol	ution: Δx _{Area} , Δy _{Area}	When the x or y dimension of the test device, in the measurement plane orientation, is smaller 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 res	olution: Δx_{Zoom} , Δy_{Zoom}	\leq 2 GHz: \leq 8 mm 3 - 4 GHz: \leq 5 n 2 - 3 GHz: \leq 5 mm* 4 - 6 GHz: \leq 4 n			
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm		
Maximum zoom scan spatial resolution, normal to phantom surface	graded	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm		
	grid ∆z _{Zoom} (n>1): between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1) \text{ mm}$			
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm		

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.

Table 4.1 Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB Publication 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.

5. DEFINITION OF REFERENCE POINTS

5.1 Ear Reference Point

Figure 5.1 shows the front, back and side views of the SAM Twin Phantom. The point "M" is the reference point for the center of the mouth, "LE" is the left ear reference point (ERP), and "RE" is the right ERP. The ERPs are 15 mm posterior to the entrance to the Ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 5.1. The plane Passing, through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck- Front) is perpendicular to the reference plane and passing through the RE (or LE) is called the Reference Pivoting Line (see Figure 5.1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning.

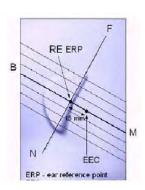


Figure 5.1 Close-up side view of ERP

5.2 Handset Reference Points

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the "test device reference point" located along the "vertical centerline" on the front of the device aligned to the "ear reference point" (See Fig. 5.3). The "test device reference point" was than located at the same level as the center of the ear reference point. The test device was positioned so that the "vertical centerline" was bisecting the front surface of the handset at it's top and bottom edges, positioning the "ear reference point" on the outer surface of the both the left and right head phantoms on the ear reference point.



Figure 5.2 Front, back and side view SAM Twin Phantom

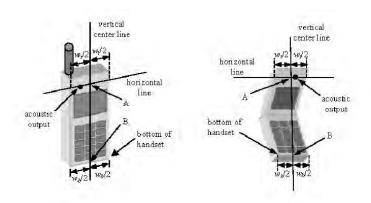


Figure 5.3 Handset Vertical Center & Horizontal Line Reference Points

6. TEST CONFIGURATION POSITIONS FOR HANDSETS

6.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\varepsilon = 3$ and loss tangent $\delta = 0.02$.

6.2 Positioning for Cheek/Touch

1. The test device was positioned with the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 6.1), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.



Figure 6.1 Front, Side and Top View of Cheek/Touch Position

- 2. The handset was translated towards the phantom along the line passing through RE & LE until the handset touches the ear.
- 3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the plane normal to MB-NF including the line MB (reference plane).
- 4. The phone was hen rotated around the vertical centerline until the phone (horizontal line) was symmetrical was respect to the line NF.
- 5. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE, and maintaining the phone contact with the ear, the handset was rotated about the line NF until any point on the handset made contact with a phantom point below the ear (cheek). (See Figure 6.2)

6.3 Positioning for Ear / 15 ° Tilt

With the test device aligned in the "Cheek/Touch Position":

- 1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15 degree.
- 2. The phone was then rotated around the horizontal line by 15 degree.
- 3. While maintaining the orientation of the phone, the phone was moved parallel to the reference plane until any part of the phone touches the head. (In this position, point A was located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact was at any location other than the pinna, the angle of the phone would then be reduced. The tilted position was obtained when any part of the phone was in contact of the ear as well as a second part of the phone was in contact with the head (see Figure 6.3).

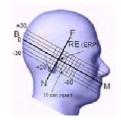






Figure 6.3 Front, Side and Top View of Ear/15° Position

6.4 Body-Worn Accessory Configurations

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6.4). Per FCC KDB Publication 648474 D04v01r03, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when

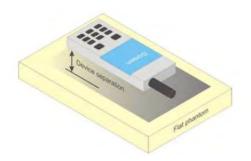


Figure 6.4 Sample Body-Worn Diagram

applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented.

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

6.5 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions; i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1-g body and 10-g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D01v06 should be applied to determine SAR test requirements.

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6.6 Wireless Router Configurations

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06v02r01 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front the front, rear and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative test separation distance configuration may be used to support both SAR conditions.

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When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitter often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each KDB Publication 447498 D01v06 procedures. The "Portable Hotspot" feature on the handset was not activated during SAR assessment, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

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7. RF EXPOSURE LIMITS

Uncontrolled Environment:

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Controlled Environment:

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Table 8.1.SAR Human Expo	sure Specified in	ANSI/IEEE	C95.1-1992
Table 0.1.0All Hullian Expe	Jule Opecilied III		000. I-I00 2

	HUMAN EXPO	SURE LIMITS
	General Public Exposure (W/kg) or (mW/g)	Occupational Exposure (W/kg) or (mW/g)
SPATIAL PEAK SAR * (Brain)	1.60	8.00
SPATIAL AVERAGE SAR ** (Whole Body)	0.08	0.40
SPATIAL PEAK SAR *** (Hands / Feet / Ankle / Wrist)	4.00	20.0

- 1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
- 2. The Spatial Average value of the SAR averaged over the whole body.
- 3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e.as a result of employment or occupation).

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8. FCC MEASUREMENT PROCEDURES

Power measurements were performed using a base station simulator under digital average power.

8.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, When SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as reported SAR. The highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

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8.2 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01.

The device was placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test were evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device was tested throughout the SAR test at maximum output power, the SAR measurement system measures a "point SAR" at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviated by more than 5%, the SAR test and drift measurements were repeated.

8.3 SAR Measurement Conditions for WCDMA (UMTS)

8.3.1 Output Power Verification

Maximum output power is measured on the High, Middle and Low channels for each applicable transmission band according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1s".

Maximum output power is verified on the High, Middle and Low channels according to the general, descriptions in section 5.2 of 3GPP TS 34.121 (release 5), using the appropriate RMC with TPC,(transmit power control) set to all "1s" or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

8.3.2 Head SAR Measurements for Handsets

SAR for head exposure configurations is measured using the 12.2 kbps RMC with TPC bits configured to all "1s". SAR in AMR configurations is not required when the maximum average output of each RF channel for 12.2 kbps AMR is less than 0.25 dB higher than that measured in12.2 kbps RMC. Otherwise, SAR is measured on the maximum output channel in 12.2 AMR with a 3.4 kbps SRB (signaling radio bearer) using the exposure configuration that resulted in the highest SAR for that RF channel in the 12.2 kbps RMC mode.



8.3.3 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all "1s".

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8.3.4 Release 5 HSDPA Data Devices

The following procedures are applicable to HSDPA data devices operating under 3GPP Release 5. SAR is required for devices in body-worn accessory and other body exposure conditions, including handsets and data modems operating in various electronic devices. HSDPA operates in conjunction with WCDMA and requires an active DPCCH. The default test configuration is to measure SAR in WCDMA with HSDPA remain inactive, to establish a radio link between the test device and a communication test set using a 12.2 kbps RMC configured in Test Loop Mode 1. SAR for HSDPA is selectively measured using the highest reported SAR configuration in WCDMA, with an FRC in H-set 1 and a 12.2 kbps RMC. SAR is selectively confirmed for other physical channel configurations (DPCCH & DPDCHn) according to exposure conditions, device operating capabilities and maximum output power specified for production units, including tune-up tolerance by applying the 3G SAR test reduction procedures. Maximum output power is verified according to the applicable versions of 3GPP TS 34.121. SAR must be measured based on these maximum output conditions and requirements in KDB Publication 447498, with respect to the UE Categories, and explained in the SAR report. When Maximum Power Reduction (MPR) applies, the implementations must be clearly identified in the SAR report to support test results according to Cubic Metric (CM) and, as appropriate, Enhanced MPR (E-MPR) requirements.

Sub-test	βς	β_d	β _d (SF)	β_c/β_d	β_{hs} $^{(1)}$	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 *\beta_c$

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.

Note 3: For subtest 2 the β_a/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Figure 9.1 Table 1

8.3.5 Release 6 HSUPA Data Devices

The following procedures are applicable to HSPA (HSUPA/HSDPA) data devices operating under 3GPP Release 6. SAR is required for devices in body-worn accessory and other body exposure conditions, including handsets and data modems operating in various electronic devices. HSUPA operates in conjunction with WCDMA and HSDPA. SAR is initially measured in WCDMA test configurations with HSPA remain inactive. The default test configuration is to establish a radio link between the test device and a communication test set to configure a 12.2 kbps RMC in Test Loop Mode 1. SAR for HSPA is selectively measured with HS-DPCCH, E-DPCCH and E-DPDCH, all enabled, along with a 12.2 kbps RMC using the highest reported SAR configuration in WCDMA with 12.2 kbps RMC only.

An FRC is configured according to HS-DPCCH Sub-test 1 using H-set 1 and QPSK. HSPA is configured according to E-DCH Sub-test 5 requirements. SAR for other HSPA sub-test configurations is confirmed selectively according to exposure conditions, E-DCH UE Category and maximum output power of production units, including tune-up tolerance by applying the 3G SAR test reduction procedure. Maximum output power is verified according to procedures in applicable versions of 3GPP TS 34.121. SAR must be measured based on these maximum output conditions and requirements in KDB Publication 447498, with respect to the UE Categories for HS-DPCCH and HSPA, and explained in the SAR report. When Maximum Power Reduction (MPR) applies, the implementations must be clearly identified in the SAR report to support test results according to Cubic Metric (CM) and, as appropriate, Enhanced MPR (E-MPR)





requirements.

Sub- test	β _c	β_d	β _d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β_{ec}	$\beta_{\rm ed}$	β _{ed} (SF)	β _{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E- TFCI
1	11/15(3)	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β _{ed1} : 47/15 β _{ed2} : 47/15		2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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Figure 9.2 Table 2

Note 1: Δ_{ACK} . Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{lis} = \beta_{lis}/\beta_c = 30/15 \Leftrightarrow \beta_{lis} = 30/15 *\beta_c$. Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{lis}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS- DPCCH and E-DPCCH the MPR is based on the relative CM difference.

So the 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to β_c = 14/15 and β_d = 15/15.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.



LTE modes were tested according to FCC KDB 941225 D05v02r05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR. The call simulator was used for LTE output power measurement and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

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8.4.1 Spectrum Plots for RB Configurations

8.4 SAR Measurement Conditions for LTE

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

8.4.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36. 101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

8.4.3 A-MPR

A-MPR (Addition MPR) has been disable for all SAR tests by setting NS=01 on the base station simulator.

8.4.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r05:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channel is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to 0.5 dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg.

8.4.5 **64QAM** uplink

- (1) Per KDB 941225 D05 V02r05, we'll measure conducted powers per Section 5.1 for all uplink modulations (QPSK, 16QAM, 64QAM) and include in the test report.
- (2) From these power measurements, we will apply the procedures in Section 5.2.4 ("Higher Order Modulations") to determine SAR test reduction for 16QAM and 64QAM test cases.

8.4.6 LTE TDD Consideration setup for SAR measurement

According to KDB 941225 D05 SAR for LTE Devices v02r05 for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33 %) using Uplink-downlink configuration 0 and Special subframe configuration 6.

LTE TDD Band 41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame and Table 4.2-2 for uplink-downlink configuration and Table 4.2-1 for Special subframe configurations.

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe	Norma	ıl cyclic prefix i	n downlink	Exte	nded cyclic prefix	in downlink
configuration	DwPTS	Up	PTS	DwPTS	Up	PTS
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_{\rm s}$			$7680 \cdot T_{\rm s}$		
1	19760 · T _s			20480 · T _s	$2192 \cdot T_s$	2560 · T _s
2	$21952 \cdot T_{\rm s}$	$2192 \cdot T_{\rm s}$	$2560 \cdot T_{\rm s}$	23040 · T _s	2192.1 _s	2300·1 _s
3	$24144 \cdot T_{\rm s}$			$25600 \cdot T_{\rm s}$		
4	$26336 \cdot T_{\rm s}$			$7680 \cdot T_{\rm s}$		
5	$6592 \cdot T_{\rm s}$			$20480 \cdot T_{\rm s}$	$4384 \cdot T_{\rm s}$	$5120 \cdot T_{\rm s}$
6	19760 · T _s	4384·T _s	5120 · T _s	23040 · T _s		
7	$21952 \cdot T_{\rm s}$	4364·1 _s	3120·1 _s	-	-	-
8	24144 · T _s			-	-	-

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink	Downlink-to-Uplink	Subframe number									
configuration	Switch-point periodicity	0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	כ	J	J	Δ	Ø	כ	J	U
1	5 ms	D	S	U	U	D	О	S	U	U	D
2	5 ms	D	S	U	D	D	О	S	U	D	D
3	10 ms	D	S	U	U	U	О	О	D	D	D
4	10 ms	D	S	J	U	D	Δ	Δ	Δ	D	D
5	10 ms	D	S	J	D	D		Δ	D	D	D
6	5 ms	D	S	U	Ū	U	D	S	U	U	D

Calculated Duty Cycle = Extended cyclic prefix in uplink * (Ts) * # of S + # of U

Ts = 1/(15000 * 2048) seconds

Example for calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = 5120 * [1/(15000 * 2048)] * 2 + 6 ms = 63.33 %

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8.5 SAR Testing with 802.11 Transmitters

The normal network operating configurations are not suitable for measuring the SAR of 802.11 b/g/n transmitters. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227D01v02r02 for more details.

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8.5.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the in the transmission, a maximum transmission duty factor of 92-96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

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8.5.2 U-NII and U-NII-2A

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following, with respect to the highest reported SAR and maximum output power specified for production units. The procedures are applied independently to each exposure configuration; for example, head, body, hotspot mode etc.

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

8.5.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements.

When Terminal Doppler Weather Rader (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification.

Unless band gap channels are permanently disabled, SAR must be considered for these channels. When band gap channels are disabled, each band is tested independently according to the normally required OFDM SAR measurements and probe calibration frequency points requirements.

8.5.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all position in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR position until the reported SAR result is ≤ 0.8 W/kg or all test position are measured.

8.5.5 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- 2.4 GHz 802.11 g/n OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed.



8.5.6 OFDM Transmission Mode and SAR Test Channel Selection

For the 2.4 GHz and 5 GHz bands, when the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a and 802.11n or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n or 802.11g then 802.11n is used for SAR measurement. When the maximum output power ware the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

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8.5.7 Initial Test Configuration Procedure

For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, and lowest data rate. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured.

8.5.8 Subsequent Test Configuration Procedures

For OFDM configurations, in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure, when applicable. When the highest reported SAR for the initial test configuration, adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power is ≤ 1.2 W/kg, no additional SAR testing for the subsequent test configurations is required.

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9. RF CONDUCTED POWERS

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v06

9.1 GSM Nominal and Maximum Output Power Spec and Conducted Powers

Band & Mo	ala	Voice[dBm]	Burst Average GMSK [dBm]					
Danu & IVIO	ue	1 TX Slot	1 TX Slot	2 TX Slot	3 TX Slot	4 TX Slot		
GSM/GPRS	Maximum	33.90	33.90	30.90	29.10	27.90		
850	Nominal	32.50	32.50	29.50	27.70	26.50		
GSM/GPRS	Maximum	30.90	30.90	27.90	26.10	24.90		
1900	Nominal	29.50	29.50	26.50	24.70	23.50		

Table 9.1.1 GSM Nominal and Maximum Output Power Spec

			Maxim	um Burst-Averaged Output P	ower(dBm)	
		Voice		GPRS D	ata (GMSK)	
Band	Channel	GSM CS 1 Slot	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot
	128	33.2	33.2	30.9	29.1	27.9
GSM850	190	33.1	33.1	30.7	28.9	27.8
251	251	33.0	33.0	30.6	28.9	27.7
•	512	29.7	29.7	27.4	25.6	24.5
PCS 1900	661	29.7	29.7	27.3	25.5	24.4
	810	29.4	29.4	27.0	25.2	24.2
			Calculated N	Maximum Frame-Averaged Ou	tput Power(dBm)	
		Voice GPRS Data (GMSK)				
Band	Channel	GSM CS 1 Slot	GPRS 1 TX Slot	GPRS 2 TX Slot	GPRS 3 TX Slot	GPRS 4 TX Slot
	128	24.16	24.16	24.84	24.82	24.89
GSM850	190	24.09	24.09	24.65	24.63	24.79
CONIOSO	251	23.99	23.99	24.57	24.59	24.69
	512	20.70	20.70	21.39	21.34	21.49
PCS 1900	661	20.64	20.64	21.32	21.24	21.39
1 00 1900	810	20.34	20.34	20.99	20.94	21.19
GSM850	Frame	23.47	23.47	23.48	23.44	23.49
PCS 1900	Avg. Targets:	20.47	20.47	20.48	20.44	20.49

Table 9.1.2 GSM Conducted Power

Note:

- Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged power was calculated from the measured burst-averaged power by
 converting the slot powers into linear units and calculating the energy over 8 timeslots.
- GPRS (GMSK) output powers were measured with coding scheme setting of 1 (CS1) on the base station simulator. CS1 was configured to measure GPRS output
 power measurements and SAR to ensure GMSK modulation in the signal. Our Investigation has shown that CS1 CS4 settings do not have any impact on the
 output levels or modulation in the GPRS modes.

GPRS Multislot class: 12 (max 4 TX Uplink slots) DTM Multislot Class: N/A



Figure 9.1 Power Measurement Setup

9.2 WCDMA Nominal and Maximum Output Power Spec and Conducted Powers

3GPP Release Version		Mode		Cellular Band (dBm)	AWS Band (dBm)	PCS Band (dBm)	3GPP MPR (dB)
99	WCDMA	Voice	Maximum	24.30	24.30	23.30	
99	WCDIVIA	voice	Nominal	23.00	23.00	22.00	-
5		Subtest	Maximum	23.30	23.30	23.30	0
5]	1	Nominal	22.00	22.00	22.00	U
5		Subtest	Maximum	23.30	23.30	23.30	0
5	HSDPA	2	Nominal	22.00	22.00	22.00	U
5	HODFA	Subtest	Maximum	22.80	22.80	22.80	0.5
,		3	Nominal	21.50	21.50	21.50	0.5
5		Subtest	Maximum	22.80	22.80	22.80	0.5
,		4	Nominal	21.50	21.50	21.50	0.5
6		Subtest	Maximum	23.30	23.30	23.30	0
0		1	Nominal	22.00	22.00	22.00	U
		Subtest	Maximum	21.30	21.30	21.30	0
6		2	Nominal	20.00	20.00	20.00	2
		Subtest	Maximum	22.30	22.30	22.30	
6	HSUPA	3	Nominal	21.00	21.00	21.00	1
_	1	Subtest	Maximum	21.30	21.30	21.30	
6		4	Nominal	20.00	20.00	20.00	2
_	1	Subtest	Maximum	23.30	23.30	23.30	
6	1	5	Nominal	22.00	22.00	22.00	0

Table 9.2.1 WCDMA Nominal and Maximum Output Power Spec

3GPP		3GPP 34.121	Ce	ellular Band (d	Bm)	Α	WS Band (dB	m)	P	CS Band (dBm)	3GPP MPR
Release Version	Mode	Subtest	4132	4183	4233	1312	1412	1513	9262	9400	9538	(dB)
99	WCDMA	12.2 kbps RMC	23.34	23.25	23.26	23.56	23.35	23.36	21.89	22.07	22.12	-
99	WCDIVIA	12.2 kbps AMR	23.34	23.24	23.25	23.56	23.33	23.34	21.89	22.07	22.10	-
5		Subtest 1	22.32	22.11	22.15	22.57	22.39	22.39	21.71	21.88	21.95	0
5	HSDPA	Subtest 2	22.30	22.12	22.12	22.58	22.37	22.38	21.72	21.89	21.96	0
5	HOUPA	Subtest 3	21.81	21.72	21.75	22.07	21.89	21.89	21.23	21.37	21.44	0.5
5		Subtest 4	21.82	21.71	21.78	22.07	21.87	21.88	21.20	21.38	21.43	0.5
6		Subtest 1	22.28	22.14	22.13	22.58	22.37	22.39	21.71	21.88	21.94	0
6		Subtest 2	20.27	20.21	20.22	20.59	20.40	20.41	19.70	19.88	19.94	2
6	HSUPA	Subtest 3	21.29	21.20	21.16	21.57	21.37	21.40	20.73	20.87	20.95	1
6		Subtest 4	20.24	20.20	20.19	20.59	20.40	20.41	19.73	19.91	19.94	2
6		Subtest 5	22.25	22.13	22.10	22.60	22.37	22.40	21.72	21.89	21.95	0

Table 9.2.2 WCDMA Conducted Power

WCDMA SAR was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25 dB higher than the RMC level and SAR was less than 1.2 W/kg.

The manufacturer declares that the HSDPA and HSUPA transmitter's power will not exceed the R99 maximum transmit power in devices based on Qualcomm's HSPA chipset solutions.



Figure 9.2 Power Measurement Setup



9.3 LTE Nominal and Maximum Output Power Spec and Conducted Powers

Ва	nd & Mode	Modulated Average[dBm]
LTE Band 12	Maximum	24.30
LIE Band 12	Nominal	23.00

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Table 9.3.1.1 Nominal and Maximum Output Power Spec

1) LTE Band 12

		LT	E Band 12 Conducted Power– 10 MHz Bandwidth		
			Mid Channel		
Modulation	RB Size	RB Offset	23095 (707.5 MHz) Conducted Power	MPR Allowed Per 3GPP(dB)	MPR (dB)
			(dBm)		
	1	0	23.23		
	1	25	23.32		0
	1	49	23.25		
QPSK	25	0	21.96	≤ 1	
	25	12	22.14		1
	25	25	22.08		
	50	0	22.11		1
	1	0	22.14		
	1	25	22.25	≤ 1	1
	1	49	22.17		
16QAM	25	0	20.88		
	25	12	21.06	≤ 2	2
	25	25	20.97	5 Z	
	50	0	21.03		2
	1	0	21.11		
	1	25	21.18	≤ 2	2
	1	49	21.12		
64QAM	25	0	19.86		
	25	12	20.07	≤ 3	3
	25	25	19.99		
	50	0	20.02		3

Table 9.3.1.2 LTE Conducted Power

Note: LTE B12 can not contain three non-overlapping channels of 10 MHz bandwidth.

Per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

				ducted Power- 5 MHz Bandw	1		
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	23035 (701.5 MHz)	23095 (707.5 MHz)	23155 (713.5 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
	1	0	23.15	23.14	23.19		
	1	12	23.22	23.27	23.30		1
	1	24	23.18	23.24	23.28		
QPSK	12	0	22.09	22.07	22.07	≤ 1	
	12	6	22.11	22.13	22.14		
	12	13	22.10	22.12	22.13		
	25	0	22.06	22.11	22.12		1
	1	0	22.08	22.05	22.10		1
	1	12	22.20	22.20	22.22	≤ 1	
	1	24	22.12	22.18	22.20		
16QAM	12	0	21.06	21.02	21.05		
	12	6	21.10	21.08	21.08	≤ 2	2
	12	13	21.08	21.04	21.05	<u> </u>	
	25	0	21.04	21.06	21.09		2
	1	0	21.00	20.99	21.07		
	1	12	21.12	21.14	21.16	≤ 2	2
	1	24	21.05	21.06	21.11	7	
64QAM	12	0	20.02	19.98	20.03		
	12	6	20.07	20.07	20.08	≤ 3	3
	12	13	20.04	20.02	20.06	≥ 3	
	15	0	19.99	20.04	20.05		3

Table 9.3.1.3 LTE Conducted Power

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			LTE Band 12 Con	ducted Power– 3 MHz Bandwi	idth		
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	23025 (700.5 MHz)	23095 (707.5 MHz)	23165 (714.5 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
				Conducted Power (dBm)	Conducted Power (dBm)		
	1	0	23.16	23.12	23.15		
	1	7	23.23	23.25	23.28		0
	1	14	23.20	23.20	23.22		
QPSK	8	0	22.04	22.06	22.10	≤1	
	8	4	22.12	22.13	22.15		1
	8	7	22.08	22.12	22.11		
	15	0	22.10	22.12	22.13		1
	1	0	22.13	22.16	22.22		
	1	7	22.20	22.21	22.29	≤1	1
	1	14	22.19	22.19	22.17		
16QAM	8	0	21.05	21.03	21.08		
	8	4	21.13	21.15	21.17	≤ 2	2
	8	7	21.10	21.12	21.12	5 Z	
	15	0	21.05	21.06	21.08		2
	1	0	21.09	21.06	21.06		
	1	7	21.14	21.15	21.16	≤2	2
	1	14	21.08	21.11	21.10		
64QAM	8	0	20.02	19.97	19.99		
	8	4	20.06	20.05	20.08	≤ 3	3
	8	7	20.03	20.03	20.01	≥ 3	
	15	0	20.02	20.05	20.06	7	3

Table 9.3.1.4 LTE Conducted Power

			LTE Band 12 Cond	ducted Power- 1.4 MHz Bandw	vidth		
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	23017 (699.7 MHz)	23095 (707.5 MHz)	23173 (715.3 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
	1	0	23.11	23.05	23.14		
	1	2	23.16	23.20	23.21		0
	1	5	23.10	23.12	23.15		
QPSK	3	0	23.09	23.02	23.08	≤1	
	3	2	23.10	23.12	23.13		0
	3	3	23.08	23.06	23.09		
	6	0	22.00	22.01	22.03		1
	1	0	22.20	22.15	22.12		
	1	2	22.23	22.23	22.26	コーニー	1
	1	5	22.20	22.11	22.20		
16QAM	3	0	22.04	21.95	22.02	≤ 1	
	3	2	22.07	22.09	22.11		1
	3	3	22.02	21.99	21.99		
	6	0	21.06	21.02	21.03	≤2	2
	1	0	21.04	20.95	21.00		
	1	2	21.15	21.18	21.19		2
	1	5	20.93	21.03	21.05		
64QAM	3	0	21.08	21.02	21.10	≤ 2	
	3	2	21.12	21.13	21.14		2
	3	3	21.07	21.09	21.09		
	6	0	19.97	19.96	20.03	≤ 3	3

Table 9.3.1.5 LTE Conducted Power



Band a	& Mode	Modulated Average[dBm]
LTC Dand 5	Maximum	24.30
LTE Band 5	Nominal	23.00

Table 9.3.2.1 Nominal and Maximum Output Power Spec

2) LTE Band 5 (Cell)

		LTE B	and 5 (Cell) Conducted Power– 10 MHz Bandwidth		
			Mid Channel		
Modulation	RB Size	RB Offset	20525 (836.5 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
			Conducted Power (dBm)	. ,	, ,
	1	0	22.27		
_	1	25	22.37		0
	1	49	22.26		
QPSK	25	0	20.82	≤ 1	
	25	12	20.92		1
	25	25	20.84		
	50	0	20.97		1
	1	0	21.14		
	1	25	21.23	≤ 1	1
	1	49	21.16		
16QAM	25	0	19.86		
	25	12	19.93		2
	25	25	19.87	≤ 2	
	50	0	20.02		2
	1	0	20.15		
	1	25	20.23	≤ 2	2
	1	49	20.19		
64QAM	25	0	18.89		
	25	12	18.97		3
	25	25	18.90	≤ 3	
•	50	0	19.05		3

Table 9.3.2.2 LTE Conducted Power

Note: LTE B5(Cell) can not contain three non-overlapping channels of 10 MHz bandwidth.

Per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	20425 (826.5 MHz)	20525 (836.5 MHz)	20625 (846.5 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
				Conducted Power (dBm)			
	1	0	22.21	22.17	22.12		
	1	12	22.30	22.33	22.26		0
	1	24	22.25	22.23	22.15		
QPSK	12	0	20.84	20.83	20.83	≤1	1
	12	6	20.87	20.88	20.85		
	12	13	20.85	20.90	20.86		
	25	0	20.86	20.88	20.84		1
	1	0	21.04	21.03	21.03	≤1	1
	1	12	21.12	21.19	21.14		
	1	24	21.07	21.11	21.05		
16QAM	12	0	19.83	19.89	19.84		
	12	6	19.91	19.98	19.87	≤ 2	2
	12	13	19.85	19.93	19.85	<u> </u>	
	25	0	19.87	19.92	19.85		2
	1	0	20.03	19.98	19.95	≤ 2	
	1	12	20.11	20.15	20.11		2
	1	24	20.09	20.05	19.97		
64QAM	12	0	18.89	18.91	18.89		3
	12	6	18.96	19.03	18.92		
	12	13	18.92	18.95	18.91	≤ 3	
	25	0	18.89	18.90	18.86		3

Table 9.3.2.3 LTE Conducted Power

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			LTE Band 5 (Cell) Co	onducted Power- 3 MHz Band	dwidth		
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	20415 (825.5 MHz)	20525 (836.5 MHz)	20635 (847.5 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
				Conducted Power (dBm)		ì	
	1	0	22.23	22.23	22.19		
	1	7	22.30	22.36	22.26		0
	1	14	22.20	22.30	22.21		
QPSK	8	0	20.83	20.82	20.84	≤ 1	
	8	4	20.87	20.91	20.85		1
	8	7	20.84	20.87	20.85		
	15	0	20.85	20.87	20.82		1
	1	0	21.08	21.08	21.12	≤1	1
	1	7	21.15	21.21	21.14		
	1	14	21.11	21.16	21.12		
16QAM	8	0	19.93	19.91	19.93		
	8	4	19.97	19.98	19.95	≤ 2	2
	8	7	19.95	19.93	19.91	≥ ∠	
	15	0	19.87	19.90	19.84		2
	1	0	20.05	20.06	20.05		
	1	7	20.14	20.27	20.17	≤ 2	2
	1	14	20.05	20.18	20.09		
64QAM	8	0	18.93	18.93	18.90		3
	8	4	18.96	18.99	18.94		
	8	7	18.92	18.94	18.92	≤ 3	
	15	0	18.93	18.95	18.86		3

Table 9.3.2.4 LTE Conducted Power

			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	20407 (824.7 MHz)	20525 (836.5 MHz)	20643 (848.3 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
				Conducted Power (dBm)			
	1	0	22.17	22.12	22.16		
	1	2	22.25	22.26	22.22		0 0 0
	1	5	22.19	22.17	22.18		
QPSK	3	0	22.14	22.11	22.08	≤ 1	
	3	2	22.20	22.21	22.15		
	3	3	22.16	22.15	22.09	<u> </u>	
	6	0	20.82	20.84	20.81		1
	1	0	21.06	21.06	21.07		
	1	2	21.18	21.23	21.16		1
	1	5	21.04	21.05	21.09	≤1	
16QAM	3	0	21.13	21.10	21.08	≥ 1	
	3	2	21.15	21.19	21.15		1
	3	3	21.07	21.12	21.07		
	6	0	19.81	19.82	19.80	≤2	2
	1	0	20.08	19.96	20.01		
	1	2	20.16	20.19	20.15		2
	1	5	20.09	19.99	20.06	10	
64QAM	3	0	19.98	19.94	19.90	≤ 2	2
	3	2	20.03	20.05	19.96		
	3	3	19.99	19.98	19.91		
	6	0	18.83	18.81	18.80	≤ 3	3

Table 9.3.2.5 LTE Conducted Power



Band &	Modulated Average[dBm]	
LTC Danid 4	Maximum	24.30
LTE Band 4	Nominal	23.00

Table 9.3.3.1 Nominal and Maximum Output Power Spec

3) LTE Band 4

<u> </u>	LTE Band 4 (AWS) Conducted Power- 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Mid Channel 20175 (1 732.5 MHz) Conducted Power (dBm)	MPR Allowed Per 3GPP(dB)	MPR (dB)				
	1	0	22.15						
	1	50	22.23		0				
	1	99	22.18						
QPSK	50	0	21.00	≤ 1					
	50	25	21.08		1				
	50	50	21.02						
	100	0	20.96		1				
	1	0	21.10						
	1	50	21.19	≤ 1	1				
	1	99	21.08		ļ				
16QAM	50	0	19.98						
	50	25	20.09	≤ 2	2				
	50	50	20.02	≥ 2					
	100	0	19.96		2				
	1	0	20.04						
	1	50	20.12	≤ 2	2				
	1	99	20.04						
64QAM	50	0	18.90						
	50	25	19.14	≤ 3	3				
	50	50	18.92] ≥3					
	100	0	18.88	1	3				

Table 9.3.3.2 LTE Conducted Power

Note: LTE B4 (AWS) can not contain three non-overlapping channels of 20 MHz bandwidth.

Per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

				Conducted Power- 15 MHz Bandwid			
			Low Channel	Mid Channel	High Channel	MPR Allowed	MPR
Modulation	RB Size	RB Offset	20025 (1 717.5 MHz)	20175 (1 732.5 MHz)	20325 (1 747.5 MHz)	Per 3GPP(dB)	(dB)
				Conducted Power (dBm)		rei sorr(ub)	(ub)
	1	0	21.90	21.88	21.88		
	1	36	22.07	22.02	22.06		0
	1	74	21.87	21.87	21.91	≤1	
QPSK	36	0	21.10	21.02	20.99		1
	36	18	21.14	21.06	21.08		
	36	37	21.04	21.05	21.01		
	75	0	21.07	20.98	20.99		1
	1	0	20.93	20.90	20.92	≤1	
	1	36	21.03	21.05	21.04		1
	1	74	20.89	20.91	20.93		
16QAM	36	0	20.10	20.02	20.01		2
	36	18	20.12	20.07	20.05	- 2	
	36	37	20.08	20.01	20.04	≤ 2	
	75	0	20.09	19.99	20.00	ì	2
	1	0	19.93	19.81	19.95		
	1	36	19.94	20.03	19.96	≤ 2	2
	1	74	19.89	19.88	19.88	1	
64QAM	36	0	19.02	19.01	19.08	≤ 3	
	36	18	19.12	19.08	19.09		3
	36	37	19.05	19.07	19.05		
	75	0	19.05	18.95	18.95	1	3

Table 9.3.3.3 LTE Conducted Power

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			LTE Band 4 (AWS)	Conducted Power- 10 MHz Bandwid	lth		
			Low Channel	Mid Channel	High Channel	MDD Allered	MDD
Modulation	RB Size	RB Offset	20000 (1 715.0 MHz)	20175 (1 732.5 MHz)	20350 (1 750.0 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
				Conducted Power (dBm)		rei sorr(ub)	(ub)
	1	0	21.87	21.82	21.85		
	1	25	22.10	22.05	22.09		0
	1	49	21.81	21.79	21.82		
QPSK	25	0	21.16	21.06	21.04	≤1 —	
	25	12	21.22	21.07	21.12		1
	25	25	21.05	21.04	21.04		
	50	0	21.08	21.00	21.03		1
-	1	0	20.90	20.89	20.87	≤1	1
	1	25	21.15	21.09	21.17		
	1	49	20.84	20.87	20.87		
16QAM	25	0	20.14	20.03	20.04		
	25	12	20.22	20.08	20.10		2
	25	25	20.07	20.05	20.07	≤2	
	50	0	20.10	20.01	19.99		2
	1	0	19.83	19.93	19.87		
	1	25	20.12	20.06	20.07	≤ 2	2
	1	49	19.80	19.82	19.84	7	
64QAM	25	0	19.13	19.06	19.03		
	25	12	19.22	19.12	19.14	7 .,	3
	25	25	19.09	19.07	19.05	≤ 3	
	50	0	19.11	19.03	19.02		3

Table 9.3.3.4 LTE Conducted Power

			LTE Band 4 (AWS)	Conducted Power- 5 MHz Bandwidt	h		
			Low Channel	Mid Channel	High Channel	MDD Allers	MPR
Modulation	RB Size	RB Offset	19975 (1 712.5 MHz)	20175 (1 732.5 MHz)	20375 (1 752.5 MHz)	MPR Allowed Per 3GPP(dB)	(dB)
				Conducted Power (dBm)		Per 3GPP(dB)	(ub)
	1	0	22.16	22.04	22.11		0
	1	12	22.18	22.15	22.17		
	1	24	22.01	22.03	21.98		
QPSK	12	0	20.90	20.82	20.90	≤ 1	
	12	6	20.93	20.88	20.92		1
	12	13	20.86	20.80	20.84		
	25	0	20.91	20.84	20.88		1
	1	0	21.20	21.18	21.09	≤1	
	1	12	21.23	21.20	21.20		1
	1	24	21.03	21.15	20.98		
16QAM	12	0	19.88	19.92	19.92		
	12	6	20.08	20.00	19.97	≤2	2
	12	13	19.91	19.90	19.83	≥ ∠	
	25	0	19.92	19.88	19.93		2
	1	0	20.08	20.00	20.05		
	1	12	20.14	20.13	20.15	≤ 2	2
	1	24	19.98	19.94	19.97		
64QAM	12	0	18.95	18.88	18.97	≤3	
	12	6	18.98	18.96	18.98		3
	12	13	18.91	18.88	18.90		
	25	0	18.87	18.84	18.90		3

Table 9.3.3.5 LTE Conducted Power

			LTE Band 4 (AWS)	Conducted Power- 3 MHz Bandwid	th		
			Low Channel	Mid Channel	High Channel	MDD Allowed	MDD
Modulation	RB Size	RB Offset	19965 (1 711.5 MHz)	20175 (1 732.5 MHz)	20385 (1 753.5 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
				Conducted Power (dBm)		Fel 3GFF(dB)	(ub)
	1	0	21.85	21.82	21.83		
	1	7	22.05	22.00	22.01		0
	1	14	21.83	21.80	21.82		
QPSK	8	0	20.90	20.85	20.90	≤ 1	
	8	4	20.94	20.86	20.91		1
	8	7	20.87	20.83	20.81		
	15	0	20.96	20.87	20.89		1
	1	0	20.83	20.85	20.87		1
	1	7	21.01	21.03	21.09	≤ 1	
	1	14	20.81	20.81	20.82		
16QAM	8	0	19.95	19.92	19.94		
	8	4	19.99	19.94	19.96	≤ 2	2
	8	7	19.91	19.88	19.90	<u> </u>	
	15	0	19.95	19.83	19.91		2
	1	0	19.82	19.85	19.84		
	1	7	19.87	19.87	19.87	≤ 2	2
	1	14	19.80	19.81	19.83		
64QAM	8	0	18.94	18.87	18.93	≤ 3	
	8	4	18.98	18.97	18.95		3
	8	7	18.91	18.88	18.87		
	15	0	18.91	18.84	18.87	7	3

Table 9.3.3.6 LTE Conducted Power



			TE Band 4 (AWS) C	onducted Power- 1.4 MHz Bandwid	th		
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	19957 (1 710.7 MHz)	20175 (1 732.5 MHz)	20393 (1 754.3 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
				Conducted Power (dBm)		Fel SGFF(GB)	(ub)
	1	0	22.05	22.00	22.04		
	1	2	22.10	22.04	22.07		0
	1	5	22.02	21.98	22.00	≤ 1	
QPSK	3	0	22.03	21.98	22.01		
	3	2	22.06	22.03	22.04		0
	3	3	22.00	21.98	22.00		
	6	0	20.84	20.80	20.81		1
	1	0	21.13	21.08	21.07	≤1	1
	1	2	21.16	21.09	21.11		
	1	5	21.07	21.05	21.07		
16QAM	3	0	20.84	20.85	20.86		
	3	2	20.87	20.88	20.88		1
	3	3	20.83	20.83	20.81		
	6	0	19.90	19.83	19.86	≤ 2	2
	1	0	20.11	20.08	20.13		
	1	2	20.29	20.21	20.22		2
	1	5	20.15	20.05	20.05	≤ 2	
64QAM	3	0	20.06	20.10	20.01		
	3	2	20.08	20.18	20.11		2
	3	3	19.99	20.01	20.02		
	6	0	19.01	18.79	18.85	≤3	3

Table 9.3.3.7 LTE Conducted Power

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E	Modulated Average[dBm]	
LTE B 1 0/D00)	Maximum	23.30
LTE Band 2(PCS)	Nominal	22.00

Table 9.3.4.1 Nominal and Maximum Output Power Spec

4) LTE Band 2 (PCS)

			LTE Band 2 (PCS)	Conducted Power- 20 MHz Bandwidt	th		
			Low Channel	Mid Channel	High Channel	MDD Allewed	MDD
Modulation	RB Size	RB Offset	18700 (1 860.0 MHz)	18900 (1 880.0 MHz)	19100 (1 900.0 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
			Conducted Power (dBm)			Fel 3GFF(ub)	(ub)
	1	0	21.70	21.69	21.50	≤1	
	1	50	21.93	21.89	21.63		0
	1	99	21.72	21.70	21.61		
QPSK	50	0	20.48	20.36	20.33		
	50	25	20.69	20.49	20.42		1
	50	50	20.49	20.45	20.36		
	100	0	20.60	20.38	20.32		1
	1	0	20.78	20.52	20.36	≤1	1
	1	50	20.96	20.74	20.44		
	1	99	20.80	20.59	20.42		
16QAM	50	0	19.50	19.38	19.32	≤2	
	50	25	19.59	19.51	19.48		2
	50	50	19.52	19.47	19.41		
	100	0	19.56	19.40	19.35		2
	1	0	19.54	19.61	19.36	≤ 2	2
64QAM	1	50	19.89	19.79	19.57		
	1	99	19.57	19.68	19.44		
	50	0	18.65	18.48	18.37	≤3	
	50	25	18.71	18.65	18.54		3
	50	50	18.63	18.62	18.53		
	100	0	18.61	18.40	18.45		3

Table 9.3.4.2 LTE Conducted Power

LTE Band 2 (PCS) Conducted Power– 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 18675 (1 857.5 MHz)	Mid Channel 18900 (1 880.0 MHz)	High Channel 19125 (1 902.5 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)	
	QPSK	1	0	21.66	21.69	21.62	≤1	0
1		36	21.85	21.81	21.67			
1		74	21.69	21.75	21.64			
36		0	20.49	20.46	20.31	1		
36		18	20.61	20.52	20.45			
36		37	20.54	20.44	20.44			
75		0	20.49	20.40	20.34	1		
	1	0	20.49	20.52	20.43	≤1	1	
	1	36	20.66	20.64	20.48			
	1	74	20.60	20.61	20.45			
16QAM	36	0	19.52	19.38	19.31	≤2	2	
	36	18	19.57	19.52	19.44			
	36	37	19.54	19.47	19.43			
	75	0	19.53	19.44	19.33		2	
64QAM	1	0	19.60	19.61	19.51	≤2	2	
	1	36	19.78	19.69	19.60			
	1	74	19.52	19.66	19.56			
	36	0	18.63	18.54	18.37			
	36	18	18.67	18.64	18.59	≤3	3	
	36	37	18.65	18.62	18.51			
	75	0	18.73	18.49	18.42		3	

Table 9.3.4.3 LTE Conducted Power

				onducted Power- 10 MHz Bandwid			
Modulation			Low Channel 18650 (1 855.0 MHz)	Mid Channel 18900 (1 880.0 MHz)	High Channel 19150 (1 905.0 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
	RB Size	RB Offset					
			Conducted Power (dBm)			1 c. 5511 (ab)	(45)
QPSK	1	0	21.55	21.45	21.66	≤1	0
	1	25	21.81	21.78	21.74		
	1	49	21.57	21.55	21.71		
	25	0	20.58	20.45	20.44		
	25	12	20.68	20.56	20.54		
	25	25	20.54	20.50	20.41		
	50	0	20.56	20.43	20.40		1
	1	0	20.43	20.34	20.57	≤1	1
	1	25	20.66	20.66	20.58		
	1	49	20.44	20.36	20.53		
16QAM	25	0	19.60	19.50	19.46	≤ 2	2
	25	12	19.70	19.58	19.55		
	25	25	19.55	19.55	19.44		
	50	0	19.57	19.47	19.43		2
64QAM	1	0	19.60	19.34	19.61	≤2	2
	1	25	19.77	19.78	19.73		
	1	49	19.59	19.57	19.68		
	25	0	18.69	18.55	18.54	≤3	3
	25	12	18.81	18.66	18.69		
	25	25	18.63	18.64	18.53		
	50	0	18.69	18.53	18.56		3

Table 9.3.4.4 LTE Conducted Power

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			LTE Band 2 (PCS)	Conducted Power- 5 MHz Bandwidt	h		
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	18625 (1 852.5 MHz)	18900 (1 880.0 MHz)	19175 (1 907.5 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
				Conducted Power (dBm)		rei sgrr(ub)	
	1	0	21.85	21.74	21.68		
	1	12	21.92	21.91	21.79		0
	1	24	21.74	21.71	21.60		
QPSK	12	0	20.55	20.47	20.41	≤ 1	
	12	6	20.56	20.55	20.43		1
	12	13	20.45	20.43	20.36		
	25	0	20.56	20.46	20.41		1
	1	0	20.68	20.58	20.54		1
	1	12	20.87	20.81	20.61	≤ 1	
	1	24	20.64	20.56	20.49		
16QAM	12	0	19.61	19.53	19.49		
	12	6	19.62	19.64	19.51	≤ 2	2
	12	13	19.56	19.51	19.40	<u>≥</u> ∠	
	25	0	19.56	19.45	19.42	1	2
	1	0	19.79	19.72	19.57		
	1	12	19.88	19.89	19.78	≤ 2	2
	1	24	19.76	19.73	19.77		
64QAM	12	0	18.63	18.66	18.56		
	12	6	18.73	18.70	18.62	≤ 3	3
	12	13	18.64	18.62	18.54	3	
	25	0	18.68	18.55	18.51	7	3

Table 9.3.4.5 LTE Conducted Power

			Low Channel	Mid Channel	High Channel	MDD Allerend	MDD
Modulation	RB Size	RB Offset	18615 (1 851.5 MHz)	18900 (1 880.0 MHz)	19185 (1 908.5 MHz)	MPR Allowed Per 3GPP(dB)	MPR (dB)
			Conducted Power (dBm)			Fel 3GFF(ub)	(GD)
	1	0	21.80	21.61	21.56		
	1	7	21.89	21.88	21.86		0
QPSK	1	14	21.86	21.73	21.75		
	8	0	20.56	20.54	20.39	≤ 1	
	8	4	20.58	20.56	20.44		1
-	8	7	20.46	20.43	20.32		
	15	0	20.54	20.52	20.39		1
	1	0	20.66	20.56	20.47		
	1	7	20.71	20.69	20.67	≤ 1	1
	1	14	20.69	20.62	20.60		
16QAM	8	0	19.65	19.62	19.50		
	8	4	19.67	19.64	19.52	≤ 2	2
	8	7	19.62	19.54	19.44	≥ ∠	
	15	0	19.58	19.55	19.46		2
•	1	0	19.66	19.51	19.47		
	1	7	19.72	19.70	19.67	≤ 2	2
	1	14	19.68	19.59	19.56		
64QAM	8	0	18.65	18.60	18.52		
	8	4	18.69	18.62	18.53	- 2	3
	8	7	18.62	18.56	18.44	≤ 3	
	15	0	18.64	18.60	18.47		3

Table 9.3.4.6 LTE Conducted Power

				onducted Power- 1.4 MHz Bandwid			
			Low Channel	Mid Channel	High Channel	MPR Allowed	MPR
Modulation	RB Size	RB Offset	18607 (1 850.7 MHz)	18900 (1 880.0 MHz)	19193 (1 909.3 MHz)	Per 3GPP(dB)	(dB)
			Conducted Power (dBm)			1 61 001 1 (d.b)	(42)
	1	0	21.66	21.72	21.52		
	1	2	21.80	21.76	21.66		0
QPSK	1	5	21.71	21.66	21.56		
	3	0	21.77	21.72	21.59	≤ 1	
	3	2	21.79	21.75	21.62		0
	3	3	21.73	21.68	21.56		
	6	0	20.38	20.34	20.31		1
	1	0	20.52	20.54	20.38		1
	1	2	20.63	20.61	20.50	≤1	
	1	5	20.61	20.58	20.40		
16QAM	3	0	20.60	20.56	20.42		
	3	2	20.61	20.58	20.48		1
	3	3	20.56	20.52	20.40		
	6	0	19.34	19.33	19.32	≤ 2	2
	1	0	19.58	19.64	19.47		
	1	2	19.83	19.67	19.60	1	2
	1	5	19.63	19.66	19.48	10	
64QAM	3	0	19.61	19.55	19.42	≤ 2	
	3	2	19.68	19.62	19.43	7 !	2
	3	3	19.57	19.56	19.41	1	
	6	0	18.49	18.46	18.42	≤ 3	3

Table 9.3.4.7 LTE Conducted Power



Ва	Modulated Average[dBm]	
LTE Band 41	Maximum	24.3
LIE Band 41	Nominal	23.0

Table 9.3.5.1 Nominal and Maximum Output Power Spec

5) LTE Band 41

				LTE Band 41 Cor	nducted Power- 20 MHz	Bandwidth			
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR	
Modulation	RB Size	RB Offset	39750 (2 506.0 MHz)	40185 (2 549.5 MHz)	40620 (2 593.0 MHz)	41055 (2 636.5 MHz)	41490 (2 680.0 MHz)	Allowed Per 3GPP(dB)	MPR (dB)
			Conducted Power (dBm)						
	1	0	22.28	22.22	22.16	22.20	22.16		
	1	50	22.45	22.44	22.41	22.39	22.35		0
	1	99	22.38	22.38	22.17	22.25	22.24		
QPSK	50	0	21.03	21.08	21.12	21.12	21.14	≤ 1	1
	50	25	21.35	21.32	21.29	21.26	21.23		
	50	50	21.19	21.23	21.21	21.20	21.22		
	100	0	21.32	21.26	21.22	21.19	21.17		
	1	0	21.20	21.19	21.18	21.21	21.04	≤1	
	1	50	21.43	21.42	21.34	21.34	21.28		1
	1	99	21.36	21.34	21.07	21.14	21.11		
16QAM	50	0	20.04	20.01	20.14	20.12	20.13		2
	50	25	20.44	20.30	20.29	20.27	20.24	≤2	
	50	50	20.23	20.21	20.21	20.21	20.21	≤ Z	
	100	0	20.38	20.26	20.19	20.19	20.14		2
	1	0	20.29	20.15	20.07	20.09	20.01		
	1	50	20.40	20.32	20.27	20.23	20.25	≤ 2	2
	1	99	20.37	20.29	20.10	20.13	20.13	≤3	
64QAM	50	0	19.02	19.00	19.14	19.14	19.09		3
	50	25	19.32	19.31	19.27	19.27	19.23		
	50	50	19.19	19.19	19.18	19.19	19.17		
	100	0	19.25	19.25	19.22	19.18	19.11		3

Table 9.3.5.2 LTE Conducted Power

				LTE Band 41 Cond	ducted Power- 15 MHz E	Bandwidth			
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR	
Modulation	RB Size	RB Offset	39725 (2 503.5 MHz)	40173 (2 548.3 MHz)	40620 (2 593.0 MHz)	41068 (2 637.8 MHz)	41515 (2 682.5 MHz)	Allowed Per	MPR (dB)
				3GPP(dB)					
	1	0	22.33	22.30	22.26	22.22	22.25		
	1	36	22.44	22.40	22.38	22.32	22.30		0
	1	74	22.33	22.29	22.30	22.25	22.27	7	
QPSK	36	0	21.08	21.03	21.12	21.15	21.15	≤ 1	
	36	18	21.34	21.31	21.29	21.25	21.21		1
	36	37	21.02	21.20	21.23	21.20	21.19		
	75	0	21.28	21.22	21.21	21.20	21.12		1
	1	0	21.27	21.27	21.21	21.18	21.19		
	1	36	21.45	21.40	21.40	21.29	21.23	≤ 1	1
	1	74	21.24	21.24	21.19	21.21	21.18		
16QAM	36	0	20.11	20.12	20.17	20.12	20.15		
	36	18	20.34	20.33	20.27	20.26	20.24	≤2	2
	36	37	20.05	20.20	20.19	20.22	20.20	<u> </u>	
	75	0	20.34	20.31	20.28	20.21	20.18		2
	1	0	20.20	20.17	20.12	20.09	20.11		
	1	36	20.37	20.31	20.31	20.26	20.18	≤ 2	2
	1	74	20.24	20.28	20.23	20.19	20.11		
64QAM	36	0	19.04	19.06	19.12	19.14	19.10		
	36	18	19.35	19.32	19.23	19.23	19.23	≤ 3	3
	36	37	19.04	19.17	19.19	19.16	19.14		
	75	0	19.32	19.27	19.25	19.17	19.11		3

Table 9.3.5.3 LTE Conducted Power



				LTE Band 41 Con	ducted Power- 10 MHz B	andwidth			
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR	
Modulation	RB Size	RB Offset	39700 (2 501.0 MHz)	40160 (2 547.0 MHz)	40620 (2 593.0 MHz)	41080 (2 639.0 MHz)	41540 (2 685.0 MHz)	Allowed Per	MPR (dB)
					Conducted Power (dBr	m)		3GPP(dB)	
	1	0	22.36	22.33	22.32	22.32	22.29		
	1	25	22.41	22.40	22.38	22.37	22.35		0
	1	49	22.33	22.32	22.31	22.25	22.25		
QPSK	25	0	21.12	21.03	21.10	21.06	21.06	≤ 1	
	25	12	21.34	21.22	21.12	21.14	21.11		1
	25	25	21.09	21.02	21.11	21.09	21.08		
	50	0	21.32	21.21	21.19	21.12	21.06		1
	1	0	21.30	21.30	21.26	21.26	21.25	≤1	
	1	25	21.43	21.38	21.40	21.37	21.31		1
	1	49	21.28	21.24	21.22	21.14	21.08		
16QAM	25	0	20.10	20.19	20.18	20.20	20.16		2
	25	12	20.32	20.28	20.26	20.24	20.21	≤ 2	
	25	25	20.13	20.16	20.21	20.19	20.19	≥ ∠	
	50	0	20.26	20.26	20.25	20.14	20.13		2
	1	0	20.29	20.27	20.20	20.19	20.15		
	1	25	20.38	20.38	20.35	20.32	20.30	≤ 2	2
	1	49	20.26	20.21	20.17	20.15	20.08	7	
64QAM	25	0	19.03	19.13	19.16	19.13	19.15		
	25	12	19.35	19.27	19.23	19.20	19.17	≤ 3	3
	25	25	19.08	19.15	19.22	19.20	19.14		
	50	0	19.18	19.15	19.17	19.15	19.01		3

Table 9.3.5.4 LTE Conducted Power

			Low Channel	Low-Mid Channel	nducted Power– 5 MHz Ba	Mid-High Channel	High Channel	MDD	
Modulation RB Size		RB Offset	39675 (2 498.5 MHz)	40148 (2 545.8 MHz)	40620 (2 593.0 MHz)	41093 (2 640.3 MHz)	41565 (2 687.5 MHz)	MPR Allowed Per	MPR (dB)
				3GPP(dB)					
	1	0	22.29	22.29	22.28	22.26	22.14		
	1	12	22.41	22.38	22.36	22.31	22.26		0
	1	24	22.31	22.34	22.32	22.30	22.20		
QPSK	12	0	21.12	21.08	21.07	21.09	21.08	≤ 1	
	12	6	21.24	21.20	21.18	21.16	21.11	-	1
	12	13	21.16	21.16	21.16	21.12	21.08		
	25	0	21.20	21.18	21.16	21.12	21.07		1
1	1	0	21.28	21.27	21.23	21.23	21.12	≤1	
	1	12	21.33	21.32	21.33	21.31	21.24		1
	1	24	21.31	21.29	21.29	21.26	21.14		
16QAM	12	0	20.21	20.26	20.24	20.12	20.14		
	12	6	20.35	20.29	20.27	20.23	20.20	≤2	2
	12	13	20.34	20.28	20.21	20.17	20.18	≥ 2	
	25	0	20.29	20.24	20.19	20.13	20.14		2
	1	0	20.18	20.17	20.13	20.12	20.14		
	1	12	20.26	20.24	20.17	20.15	20.16	≤ 2	2
	1	24	20.24	20.21	20.14	20.13	20.14		
64QAM	12	0	19.11	19.12	19.05	19.15	19.16	≤ 3	3
	12	6	19.34	19.25	19.23	19.22	19.18		
	12	13	19.16	19.15	19.15	19.11	19.10		
	25	0	19.18	19.16	19.12	19.14	19.07		3

Table 9.3.5.5 LTE Conducted Power

9.4 WLAN Nominal and Maximum Output Power Spec and Conducted Powers

Band	Mode	Ch	Modulated Av	Modulated Average[dBm]		
(GHz)	Wode	OII	Maximum	Nominal		
		1	16.00	13.00		
	802.11b	6	16.00	13.00		
		11	16.00	13.00		
		1	15.00	12.00		
2.4	802.11g	6	15.00	12.00		
		11	15.00	12.00		
	000 11m	1	15.00	12.00		
	802.11n (HT20)	6	15.00	12.00		
	(1120)	11	15 00	12 00		

Table 9.4.1 Nominal and Maximum Output Power Spec

Mode	Freq.	Channel	IEEE 902 44 /2 4 CN-) Conducted Dougs Id Day
Wode	(MHz)	Channel	IEEE 802.11 (2.4 GHz) Conducted Power[dBm]
	2 412	1	13.47
802.11b	2 437	6	13.01
	2 462	11	13.44
	2 412	1	11.93
802.11g	2 437	6	11.81
	2 462	11	11.58
000 115	2 412	1	11.84
802.11n (HT-20)	2 437	6	11.80
(11-20)	2 462	11	11.88

Table 9.4.2 IEEE 802.11 Average RF Power

Band	Mode	Ch	Modulated Ave	Modulated Average[dBm]			
(GHz)	(GHz)		Maximum	Nominal			
	802.11a	36-144	14.0	11.0			
	802.11n (20MHz)	36-144	14.0	11.0			
	802.11ac (20MHz)	36-144	14.0	11.0			
5 (UNII)	802.11n (40MHz)	38-142	14.0	11.0			
	802.11ac (40MHz)	38-142	14.0	11.0			
	802.11ac (80MHz)	42-138	14.0	11.0			

Table 9.4.3 Nominal and Maximum Output Power Spec

Mode	Freq.	Channel	IEEE 802.11a (5 GHz) Conducted Power[dBm]
Wode	(MHz)	Channel	IEEE 802.118 (5 GHZ) Conducted Power[dbm]
	5 180	36	11.83
	5 200	40	11.63
	5 220	44	11.66
	5 240	48	11.70
	5 260	52	11.20
	5 280	56	11.30
802.11a	5 300	60	11.29
	5 320	64	11.47
	5 500	100	11.57
	5 580	116	11.40
	5 660	132	11.35
	5 700	140	11.36
	5 720	144	11.13

Table 9.4.4 IEEE 802.11a Average RF Power

Mode	Freq.	Channel	IEEE 802.11n HT20 (5 GHz) Conducted Power[dBm]
Wode	(MHz)	Chamilei	iece ouz. i ili in izu (5 Gnz.) Collucted Power[ushin]
	5 180	36	11.38
	5 200	40	11.21
	5 220	44	11.21
	5 240	48	11.13
	5 260	52	11.22
000.44=	5 280	56	11.25
802.11n (HT-20)	5 300	60	11.11
(111-20)	5 320	64	11.23
	5 500	100	11.36
	5 580	116	11.16
	5 660	132	11.13
	5 700	140	11.20
	5 720	144	11.08

Table 9.4.5 IEEE 802.11n HT20 Average RF Power

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Mode	Freq.	Channel	IEEE 802.11ac VHT20 (5 GHz) Conducted Power[dBm]						
wode	(MHz)	Channel	IEEE 802.11ac VH120 (5 GHZ) Conducted Power[dBin]						
	5 180	36	11.42						
	5 200	40	11.14						
	5 220	44	11.19						
	5 240	48	11.12						
	5 260	52	11.22						
000 44	5 280	56	11.31						
802.11ac (VHT-20)	5 300	60	11.21						
(VIII-20)	5 320	64	11.40						
	5 500	100	11.42						
	5 580	116	11.25						
	5 660	132	11.17						
	5 700	140	11.24						
	5 720	144	11.12						

Table 9.4.6 IEEE 802.11ac VHT20 Average RF Power

Mode	Freq.	Channel	IEEE 802.11n HT40 (5 GHz) Conducted Power[dBm]
Wode	(MHz)	Channel	iEEE 802.1 III H140 (5 GH2) Conducted Power[ubin]
	5 190	38	11.71
	5 230	46	11.53
	5 270	54	11.46
802.11n	5 310	62	11.43
(HT-40)	5 510	102	11.55
	5 550	110	11.40
	5 670	134	11.50
	5 710	142	11.29

Table 9.4.7 IEEE 802.11n HT40 Average RF Power

Mode	Freq.	Channel	IEEE 202 44 to VIII 40 /E CUt Conducted Downsid Pro
Wode	(MHz)	Channel	IEEE 802.11ac VHT40 (5 GHz) Conducted Power[dBm]
	5 190	38	11.79
	5 230	46	11.69
	5 270	54	11.52
802.11ac	5 310	62	11.46
(VHT-40)	5 510	102	11.48
	5 550	110	11.35
	5 670	134	11.41
	5 710	142	11.32

Table 9.4.8 IEEE 802.11ac VHT40 Average RF Power

Mode	Freq.	Channel	IEEE 902 44aa VIIT90 /E CHal Conducted Dawarid Day
Wode	(MHz)	Channel	IEEE 802.11ac VHT80 (5 GHz) Conducted Power[dBm]
	5 210	42	11.70
802.11ac	5 290	58	11.39
(VHT-80)	5 530	106	11.85
(111-00)	5 610	122	11.46
	5 690	138	11.34

Table 9.4.9 IEEE 802.11ac VHT80 Average RF Power

Justification for reduced test configurations for WIFI channels per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, duo to an even number of channels, both channels were measured.
- Output Power and SAR is not required for 802.11 g/n HT20/ac VHT20 channels when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjust SAR is ≤ 1.2 W/kα.
- The underlined data rate and channel above were tested for SAR.

The average output powers of this device were tested by below configuration.



Figure 9.4 Power Measurement Setup

9.5 Bluetooth Conducted Powers

	Frame Modulated Average[dBm]											
Bluetooth	Maximum	12.56										
1 Mbps	Nominal	8.86										
Bluetooth	Maximum	9.36										
2 Mbps	Nominal	5.66										
Bluetooth	Maximum	9.36										
3 Mbps	Nominal	5.66										
Bluetooth	Maximum	8.26										
LE	Nominal	4.56										

Table 9.5.1 Nominal and Maximum Output Power Spec (Frame)

Channel	Frequency	Frame AVG Output Power (1Mbps)	Frame AVG Output Power (2Mbps)	Frame AVG Output Power (3Mbps)
	(MHz)	(dBm)	(dBm)	(dBm)
Low	2 402	8.75	5.63	5.65
Mid	2 441	8.78	5.69	5.70
Hiah	2 480	8.74	5.56	5.62

Table 9.5.2 Bluetooth Frame Average RF Power

Channel	Frequency	Frame AVG Output Power(LE / 1Mbps)	Frame AVG Output Power(LE / 2Mbps)				
Chamilei	(MHz)	(dBm)	(dBm)				
Low	2 402	3.47	0.61				
Mid	2 440	3.52	0.67				
High	2 480	3.44	0.55				

Table 9.5.2 Bluetooth LE Frame Average RF Power

Bluetooth Conducted Powers procedures

- 1. Bluetooth (BDR, EDR)
 - 1) Enter DUT mode in EUT and operate it.
 - When it operating, The EUT is transmitting at maximum power level and duty cycle fixed.
 - 2) Instruments and EUT were connected like Figure 9.5.1.
 - 3) The maximum output powers of BDR(1 Mbps), EDR(2, 3 Mbps) and each frequency were set by a Bluetooth Tester.
 - 4) Power levels were measured by a Power Meter.

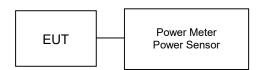


Figure 9.5.1 Average Power Measurement Setup



Bluetooth Transmission Plot

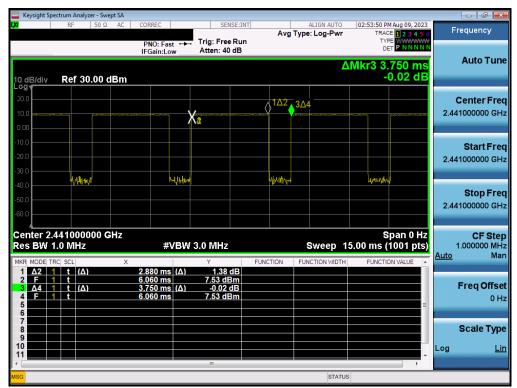


Figure 9.5.2 Bluetooth Transmission Plot

Bluetooth Duty Cycle Calculation

Duty Cycle = Pulse/Period * 100% = (2.880/3.750) * 100 = 76.8%



10. SYSTEM VERIFICATION

10.1 Tissue Verification

		1	1		MEASURED TISSUE PARA		Managed	M		1
Date(s)	Tissue Type	Ambient Temp.[°C]	Liquid Temp.[°C]	Measured Frequency	Target Dielectric	Target Conductivity,	Measured Dielectric	Measured Conductivity,	Er Deviation	σ Deviation [%]
	.,,,,	iompi[o]	:0p.[0]	[MHz] 12.0	Constant, εr 55.000	σ (S/m) 0.750	Constant, εr 55.970	σ (S/m) 0.762	[%] 1.76	1.60
Sep. 14. 2023	13	20.8	21.2	13.0	55.000	0.750	55.918	0.764	1.67	1.87
З е р. 14. 2023	Head	20.0	21.2	13.6	55.000	0.750	55.835	0.765	1.52	2.00
		+		14.0 707.5	55.000 42.129	0.750 0.887	55.833 41.361	0.765 0.861	1.51 -1.82	2.00 -2.95
Can 14 2022	750	20.2	20.7	710.0	42.113	0.887	41.328	0.863	-1.86	-2.74
Sep. 14. 2023	Head	20.3	20.7	750.0	41.900	0.890	40.773	0.897	-2.69	0.79
				782.0 821.5	41.749 41.566	0.894 0.898	40.343 41.825	0.927 0.872	-3.37 0.62	3.72 -2.90
				824.2	41.552	0.899	41.793	0.874	0.58	-2.78
				826.4	41.542	0.899	41.764	0.876	0.53	-2.56
				829.0	41.528	0.899	41.735	0.878	0.50	-2.34
	835			831.5 835.0	41.519 41.500	0.900 0.900	41.709 41.670	0.881 0.884	0.46 0.41	-2.11 -1.78
Sep. 11. 2023	Head	20.8	21.0	836.5	41.500	0.901	41.656	0.885	0.38	-1.78
				836.6	41.500	0.901	41.656	0.885	0.38	-1.78
				841.5	41.500	0.906	41.604	0.890	0.25	-1.77
				844.0 846.6	41.500 41.500	0.910 0.912	41.575 41.549	0.892 0.894	0.18 0.12	-1.98 -1.97
				848.8	41.500	0.914	41.523	0.896	0.06	-1.97
				821.5	41.566	0.898	40.739	0.918	-1.99	2.19
				824.2 826.4	41.552 41.542	0.899 0.899	40.706 40.673	0.920 0.922	-2.04 -2.09	2.37 2.57
				829.0	41.528	0.899	40.649	0.924	-2.12	2.75
	835			831.5 835.0	41.519 41.500	0.900 0.900	40.615 40.572	0.926 0.930	-2.18 -2.24	2.94 3.33
Sep. 13. 2023	Head	20.6	20.9	836.5	41.500	0.901	40.553	0.931	-2.28	3.32
				836.6 841.5	41.500 41.500	0.901 0.906	40.552 40.496	0.931 0.935	-2.28 -2.42	3.32 3.15
		1		844.0	41.500	0.910	40.461	0.937	-2.50	3.00
				846.6 848.8	41.500 41.500	0.912 0.914	40.429 40.400	0.939 0.941	-2.58 -2.65	2.98 2.95
				1 712.4	40.126	1.350	39.919	1.315	-0.52	-2.59
				1 720.0	40.114	1.354	39.896	1.322	-0.54	-2.36
	1 800			1 732.4 1 732.5	40.097 40.097	1.361 1.361	39.849 39.848	1.332 1.333	-0.62 -0.62	-2.13 -2.06
Sep. 13. 2023	Head	20.7	20.9	1 745.0	40.079	1.369	39.796	1.343	-0.71	-1.90
				1 752.6 1 770.0	40.069 40.043	1.373 1.383	39.761 39.690	1.350 1.365	-0.77 -0.88	-1.68 -1.30
				1 800.0	40.000	1.400	39.590	1.392	-1.02	-0.57
				1 712.4	40.126	1.350	41.610	1.320	3.70	-2.20
				1 720.0 1 732.4	40.114 40.097	1.354 1.361	41.576 41.509	1.326 1.336	3.64 3.52	-2.09 -1.85
Sep. 12. 2023	1 800	21.2	20.6	1 732.5	40.097	1.361	41.509	1.337	3.52	-1.77
оер. 12. 2020	Head	21.2		1 745.0 1 752.6	40.079 40.069	1.369 1.373	41.423 41.335	1.347 1.352	3.35 3.16	-1.58 -1.50
				1 770.0	40.043	1.383	41.220	1.367	2.94	-1.15
				1 800.0	40.000	1.400	41.083	1.398	2.71	-0.14
		21.0	20.9	1 850.2 1 852.4	40.000 40.000	1.400 1.400	39.768 39.761	1.366 1.367	-0.58 -0.60	-2.43 -2.36
	1 900			1 860.0	40.000	1.400	39.740	1.374	-0.65	-1.86
Sep. 12. 2023	Head			1 880.0 1 900.0	40.000 40.000	1.400 1.400	39.670 39.589	1.392 1.410	-0.82 -1.03	-0.57 0.71
				1 907.6	40.000	1.400	39.561	1.417	-1.10	1.21
				1 909.8 1 850.2	40.000 40.000	1.400 1.400	39.551 41.572	1.419 1.374	-1.12 3.93	1.36 -1.86
				1 852.4	40.000	1.400	41.570	1.376	3.93	-1.71
Sep. 11. 2023	1 900	21.1	20.4	1 860.0 1 880.0	40.000 40.000	1.400 1.400	41.569 41.504	1.385 1.403	3.92 3.76	-1.07 0.21
оер. 11. 2020	Head	21.1	20.4	1 900.0	40.000	1.400	41.393	1.419	3.48	1.36
				1 907.6 1 909.8	40.000 40.000	1.400 1.400	41.346 41.332	1.425 1.427	3.36 3.33	1.79 1.93
		1		2402.0	39.282	1.757	37.919	1.750	-3.47	-0.43
				2412.0	39.265	1.766	37.878	1.760	-3.53	-0.36
0 45 0000	2 450	00.4	00.5	2437.0 2441.0	39.222 39.215	1.788 1.792	37.785 37.767	1.788 1.793	-3.66 -3.69	-0.03 0.05
Sep. 15. 2023	Head	20.1	20.5	2450.0	39.200	1.800	37.731	1.803	-3.75	0.17
				2462.0 2472.0	39.184 39.171	1.813 1.823	37.694 37.659	1.816 1.827	-3.80 -3.86	0.18 0.19
				2480.0	39.160	1.832	37.629	1.835	-3.91	0.16
				2 506.0 2 510.0	39.130 39.120	1.860 1.864	38.466 38.451	1.897 1.900	-1.69 -1.71	2.00 1.93
				2 535.0	39.087	1.891	38.362	1.925	-1.85	1.82
Son 20 2022	2 600	20.2	20 F	2 549.5	39.068	1.906	38.308	1.940	-1.95	1.81
Sep. 20. 2023	Head	20.2	20.5	2 560.0 2 593.0	39.053 39.010	1.917 1.953	38.271 38.159	1.952 1.986	-2.00 -2.18	1.81 1.71
				2 600.0	39.000	1.960	38.134	1.994	-2.22	1.73
				2 636.5 2 680.0	38.960 38.900	2.000 2.048	38.081 37.853	2.035 2.086	-2.24 -2.69	1.77 1.86
				5 260.0	35.940	4.720	34.776	4.815	-3.24	2.01
				5 270.0 5 280.0	35.930 35.920	4.730 4.740	34.744 34.723	4.827 4.838	-3.30 -3.33	2.05 2.07
Sep. 18. 2023	5 300 Head	20.2	20.6	5 290.0	35.910	4.750	34.705	4.846	-3.36	2.02
'	i icau			5 300.0	35.900	4.760	34.674	4.852	-3.42 -3.50	1.93
				5 310.0 5 320.0	35.890 35.880	4.770 4.780	34.635 34.606	4.864 4.877	-3.55 -3.55	1.97 2.03
				5 500.0	35.650	4.965	36.443	4.850	2.22	-2.32
				5 510.0 5 530.0	35.635 35.605	4.976 4.997	36.417 36.348	4.857 4.883	2.19 2.09	-2.38 -2.27
				5 550.0	35.575	5.018	36.331	4.915	2.13	-2.04
	5 600			5 580.0 5 600.0	35.530 35.500	5.049 5.070	36.305 36.287	4.956 4.978	2.18 2.22	-1.84 -1.81
Sep. 19. 2023	5 600 Head	20.7	20.2	5 660.0	35.440	5.130	36.143	5.028	1.98	-1.99
				5 670.0	35.430	5.140	36.128	5.041	1.97	-1.93
				5 690.0 5 710.0	35.410 35.390	5.160 5.180	36.106 36.108	5.072 5.098	1.97 2.03	-1.71 -1.58
				5 720.0 5 800.0	35.380 35.300	5.190 5.270	36.107 35.911	5.102 5.182	2.05 1.73	-1.70 -1.67

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The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB 865664 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- The probe was immersed in the sample which was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight
- The complex admittance with respect to the probe aperture was measured The complex relative permittivity , for example from the below equation (Pournaropoulos and Misra):

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$$Y = \frac{j2\omega\varepsilon_{r}\varepsilon_{0}}{\left[\ln(b/a)\right]^{2}} \int_{a}^{b} \int_{a}^{b} \int_{0}^{a} \cos\phi' \frac{\exp\left[-j\omega r(\mu_{0}\varepsilon_{r}\varepsilon_{0})^{1/2}\right]}{r} d\phi' d\rho' d\rho'$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

10.2 Test System Verification

Prior to assessment, the system is verified to the ± 10 % of the specifications at using the SAR Dipole kit(s). (Graphic Plots Attached)

Table 10.2.1 System Verification Results (1g)

				SYSTEM	DIPOLE VERIF	ICATION TARG	ET & MEASU	IRED				
SAR System #	Freq. [MHz]	SAR Dipole kits Date(s)		Tissue Type	Ambient Temp. [°C]	Liquid Temp. [°C]	Probe S/N	Input Power (mW)	1 W Target SAR _{1g} (W/kg)	Measured SAR _{1g} (W/kg)	1 W Normalized SAR _{1g} (W/kg)	Deviation [%]
F	750	D750V3, SN:1049	Sep. 14. 2023	Head	20.3	20.7	3866	250	8.48	2.15	8.60	1.42
В	835	D835V2, SN:464	Sep. 11. 2023	Head	20.8	21.0	7337	250	9.81	2.32	9.28	-5.40
F	835	D835V2, SN:464	Sep. 13. 2023	Head	20.6	20.9	3866	250	9.81	2.55	10.20	3.98
В	1 800	D1800V2, SN:2d047	Sep. 13. 2023	Head	20.7	20.9	7337	100	38.0	3.87	38.70	1.84
F	1 800	D1800V2, SN:2d047	Sep. 12. 2023	Head	21.2	20.6	3866	100	38.0	3.94	39.40	3.68
В	1 900	D1900V2, SN:5d029	Sep. 12. 2023	Head	21.0	20.9	7337	100	39.7	4.16	41.60	4.79
F	1 900	D1900V2, SN:5d029	Sep. 11. 2023	Head	21.1	20.4	3866	100	39.7	3.84	38.40	-3.27
F	2 450	D2450V2, SN: 726	Sep. 15. 2023	Head	20.1	20.5	3866	100	52.7	5.31	53.10	0.76
F	2 600	D2600V2, SN: 1016	Sep. 20. 2023	Head	20.2	20.5	3866	100	55.3	5.68	56.80	2.71
F	5 300	D5GHzV2, SN:1103	Sep. 18. 2023	Head	20.2	20.6	3866	100	83.8	8.03	80.30	-4.18
F	5 500	D5GHzV2, SN:1103	Sep. 19. 2023	Head	20.7	20.2	3866	100	86.8	8.32	83.20	-4.15

Table 10.2.2 System Verification Results (10g)

 rusio roiziz ojotom roimouno (rog)												
SYSTEM DIPOLE VERIFICATION TARGET & MEASURED												
SAR System #	Freq. [MHz]	SAR Dipole kits	Date(s)	Tissue Type	Ambient Temp. [°C]	Liquid Temp. [°C]	Probe S/N	Input Power (mW)	1 W Target SAR _{10g} (W/kg)	Measured SAR _{10g} (W/kg)	1 W Normalized SAR _{10g} (W/kg)	Deviation [%]
В	13	CLA13, SN:1030	Sep. 14. 2023	Head	20.8	21.2	3916	250	0.337	0.079	0.316	-6.23

Note(s):

1. System Verification was measured with input 250 mW, 100 mW and normalized to 1W.

2. Full system validation status and results can be found in Appendix D.



Figure 10.1 Dipole Verification Test Setup Diagram & Photo



11. SAR TEST RESULTS

11.1 Head SAR Results

Table 11.1.1 GSM/GPRS 850 Head SAR

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						ASUREMENT RESULT	S							
FREQU	ENCY Ch	Mode/ Band	Service	Maximum Allowed Power	Conducted Power [dBm]	Drift Power [dB]	Phantom Position	Device Serial Number	# of Time Slots	Duty Cycle	1g SAR (W/kg)	Scaling Factor	1g Scaled SAR	Plots #
				[dBm]	[11					(5)		(W/kg)	
836.6	190	GSM850	GSM	33.90	33.12	0.060	Left Touch	FCC #1	1	1:8.3	0.330	1.197	0.395	A1
836.6	190	GSM850	GSM	33.90	33.12	-0.040	Right Touch	FCC #1	1	1:8.3	0.328	1.197	0.393	
836.6	190	GSM850	GSM	33.90	33.12	0.010	Left Tilt	FCC #1	1	1:8.3	0.184	1.197	0.220	T
836.6	190	GSM850	GSM	33.90	33.12	0.060	Right Tilt	FCC #1	1	1:8.3	0.177	1.197	0.212	
836.6	190	GSM850	GPRS	27.90	27.80	0.030	Left Touch	FCC #1	4	1:2.075	0.389	1.023	0.398	A2
836.6	190	GSM850	GPRS	27.90	27.80	-0.120	Right Touch	FCC #1	4	1:2.075	0.385	1.023	0.394	1
836.6	190	GSM850	GPRS	27.90	27.80	-0.020	Left Tilt	FCC #1	4	1:2.075	0.201	1.023	0.206	T
836.6	190	GSM850	GPRS	27.90	27.80	-0.040	Right Tilt	FCC #1	4	1:2.075	0.182	1.023	0.186	
	ANSI / IEEE C95.1-1992- SAFETY LIMIT								Head					
	Spatial Peak								1.6 W/kg (mW/g)					
			Uncontrolled Exp	osure/General Pop	ulation Exposure			averaged over 1 gram						

Table 11.1.2 PCS/GPRS 1900 Head SAR

						MEAS	SUREMENT RESULTS							
FREQUE	ENCY			Maximum	Conducted	Drift		Device			1g		1g	
MHz	Ch	Mode/ Band	Service	Allowed Power [dBm]	Power [dBm]	Power [dB]	Phantom Position	Serial Number	# of Time Slots	Duty Cycle	SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plots #
1 880.0	661	PCS1900	PCS	30.90	29.67	0.000	Left Touch	FCC #1	1	1:8.3	0.038	1.327	0.050	
1 880.0	661	PCS1900	PCS	30.90	29.67	0.000	Right Touch	FCC #1	1	1:8.3	0.087	1.327	0.115	A3
1 880.0	661	PCS1900	PCS	30.90	29.67	0.000	Left Tilt	FCC #1	1	1:8.3	0.014	1.327	0.019	
1 880.0	661	PCS1900	PCS	30.90	29.67	0.000	Right Tilt	FCC #1	1	1:8.3	0.015	1.327	0.020	
1 880.0	661	PCS1900	GPRS	24.90	24.40	0.000	Left Touch	FCC #1	4	1:2.075	0.047	1.122	0.053	
1 880.0	661	PCS1900	GPRS	24.90	24.40	0.000	Right Touch	FCC #1	4	1:2.075	0.102	1.122	0.114	A4
1 880.0	661	PCS1900	GPRS	24.90	24.40	0.000	Left Tilt	FCC #1	4	1:2.075	0.016	1.122	0.018	T
1 880.0	661	PCS1900	GPRS	24.90	24.40	0.000	Right Tilt	FCC #1	4	1:2.075	0.018	1.122	0.020	
_	-			E C95.1-1992- SAF Spatial Peak		-	<u> </u>				Head 1.6 W/kg (mW/g		-	_

Table 11.1.3 WCDMA 850 Head SAR

						MEASURE	MENT RESULTS						
FREQU	JENCY	Model		Maximum	Conducted	Drift	Discussions	Device	Bt.	1g	0	1g	Block
MHz	Ch	Mode/ Band	Service	Allowed Power [dBm]	Power [dBm]	Power [dB]	Phantom Position	Serial Number	Duty Cycle	SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plots #
836.6	4183	WCDMA 850	RMC	24.30	23.25	-0.040	Left Touch	FCC #1	1:1	0.413	1.274	0.526	
836.6	4183	WCDMA 850	RMC	24.30	23.25	0.030	Right Touch	FCC #1	1:1	0.453	1.274	0.577	A5
836.6	4183	WCDMA 850	RMC	24.30	23.25	0.030	Left Tilt	FCC #1	1:1	0.256	1.274	0.326	
836.6	4183	WCDMA 850	RMC	24.30	23.25	0.070	Right Tilt	FCC #1	1:1	0.180	1.274	0.229	
	_	Uı		C95.1-1992- SAFET Spatial Peak sure/General Popul							Head 6 W/kg (mW/g) aged over 1 gram		

Table 11.1.4 WCDMA 1700 Head SAR

						MEASUREME	NT RESULTS						
FREQU MHz	Ch	Mode/ Band	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Drift Power [dB]	Phantom Position	Device Serial Number	Duty Cycle	1g SAR (W/kg)	Scaling Factor	1g Scaled SAR (W/kg)	Plots #
1 732.4	1412	WCDMA 1700	RMC	24.30	23.35	0.000	Left Touch	FCC #1	1:1	0.065	1.245	0.081	
1 732.4	1412	WCDMA 1700	RMC	24.30	23.35	0.000	Right Touch	FCC #1	1:1	0.080	1.245	0.100	A6
1 732.4	1412	WCDMA 1700	RMC	24.30	23.35	0.060	Left Tilt	FCC #1	1:1	0.014	1.245	0.017	
1 732.4	1412	WCDMA 1700	RMC	24.30	23.35	0.000	Right Tilt	FCC #1	1:1	0.020	1.245	0.025	
	-	Unc		95.1-2005– SAFETY Spatial Peak ure/General Populati		-					Head V/kg (mW/g) ed over 1 gram		_

Table 11.1.5 WCDMA 1900 Head SAR

						MEASUREME	NT RESULTS						
FREQU	Ch	Mode/ Band	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Drift Power [dB]	Phantom Position	Device Serial Number	Duty Cycle	1g SAR (W/kg)	Scaling Factor	1g Scaled SAR (W/kg)	Plots #
1 880.0	9400	WCDMA 1900	RMC	23.30	22.07	Left Touch	FCC #1	1:1	0.081	1.327	0.107		
1 880.0	9400	WCDMA 1900	RMC	23.30	22.07	-0.010	Right Touch	FCC #1	1:1	0.162	1.327	0.215	A7
1 880.0	9400	WCDMA 1900	RMC	23.30	22.07	0.000	Left Tilt	FCC #1	1:1	0.011	1.327	0.015	
1 880.0	9400	WCDMA 1900	RMC	23.30	22.07	0.000	Right Tilt	FCC #1	1:1	0.021	1.327	0.028	
	-	Unce		95.1-1992- SAFETY Spatial Peak ure/General Populat						Head V/kg (mW/g)	=	=	

Table 11.1.6 LTE Band 12 Head SAR

						I UDI	<u>C 1 1. 1. v</u>	O LIL Da	114 12 110	cuu OA	1.						
							N	MEASUREMENT	RESULTS								
FREQ	UENCY			Max	Cond.	Drift			Device					10		1g	
MHz	MHz Ch Band Band Band [MHz] Allowed Power [dBm] PWR [dBm] Power [dBm] Power [dBm] 707.5 23095 LTE B12 10 24.30 23.32 0.070 0								Serial Number	Mod.	RB Size	RB Offs.	Duty Cycle	1g SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plots #
707.5	23095	LTE B12	10	24.30	23.32	0.070	0	Left Touch	FCC #1	QPSK	1	25	1:1	0.121	1.253	0.152	A8
707.5	23095	LTE B12	10	23.30	22.14	0.000	1	Left Touch	FCC #1	QPSK	25	12	1:1	0.114	1.306	0.149	
707.5	23095	LTE B12	10	24.30	23.32	0.050	0	Right Touch	FCC #1	QPSK	1	25	1:1	0.120	1.253	0.150	
707.5	23095	LTE B12	10	23.30	22.14	0.040	1	Right Touch	FCC #1	QPSK	25	12	1:1	0.114	1.306	0.149	
707.5	23095	LTE B12	10	24.30	23.32	0.060	0	Left Tilt	FCC #1	QPSK	1	25	1:1	0.075	1.253	0.094	
707.5	23095	LTE B12	10	23.30	22.14	0.060	1	Left Tilt	FCC #1	QPSK	25	12	1:1	0.066	1.306	0.086	
707.5	23095	LTE B12	10	24.30	23.32	-0.140	0	Right Tilt	FCC #1	QPSK	1	25	1:1	0.079	1.253	0.099	
707.5	23095	LTE B12	10	23.30	22.14	0.010	1	Right Tilt	FCC #1	QPSK	25	12	1:1	0.075	1.306	0.098	
	-			Spatial Peak						-	_		Head 1.6 W/kg (r	nW/g)	_		

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Table 11.1.7 LTE Band 5 (Cell) Head SAR

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							N	IEASUREMENT	RESULTS								
FREQ	UENCY			Max	Cond.	Drift			Device					1 g		1g	
MHz	Ch	Mode/ Band	BW [MHz]	Allowed Power [dBm]	PWR [dBm]	Power [dB]	MPR	Position	Serial Number	Mod.	RB Size	RB Offs.	Duty Cycle	SAR (W/kg)	Scaling Factor	Sca led SAR (W/kg)	Plots #
836.5 20525 LTEB5 10 24.30 22.37 0.020 0								Left Touch	FCC #1	QPSK	1	25	1:1	0.302	1.560	0.471	A9
836.5 20525 LTE B5 10 23.30 20.92 0.010 1									FCC #1	QPSK	25	12	1:1	0.264	1.730	0.457	
836.5	836.5 20525 LTE B5 10 24.30 22.37 0.110 0								FCC #1	QPSK	1	25	1:1	0.269	1.560	0.420	
836.5	20525	LTE B5	10	23.30	20.92	0.050	1	Right Touch	FCC #1	QPSK	25	12	1:1	0.226	1.730	0.391	T
836.5	20525	LTE B5	10	24.30	22.37	0.010	0	Left Tilt	FCC #1	QPSK	1	25	1:1	0.156	1.560	0.243	
836.5	20525	LTE B5	10	23.30	20.92	0.070	1	Left Tilt	FCC #1	QPSK	25	12	1:1	0.137	1.730	0.237	
836.5	20525	LTE B5	10	24.30	22.37	0.030	0	Right Tilt	FCC #1	QPSK	1	25	1:1	0.145	1.560	0.226	T
836.5	20525	LTE B5	10	23.30	20.92	0.160	1	Right Tilt	FCC #1	QPSK	25	12	1:1	0.126	1.730	0.218	
		ANSI / IEE	Spatial			- 1	_			_	_	- -	Head 1.6 W/kg (r overaged over	nW/g)	_		_

Table 11.1.8 LTE Band 4 (AWS) Head SAR

							N	MEASUREMENT	RESULTS								
FREQU	UENCY	Mode/	BW	Max Allowed	Cond.	Drift			Device		RB	RB	D. t.	1 g	Ozalina	1 g Scaled	Plots
MHz	Ch	Mode/ Band	[MHz]	Power [dBm]	PWR [dBm]	Power [dB]	MPR	Position	Serial Number	Mod.	Size	Offs.	Duty Cycle	SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	#
1 732.5 20175 LTE B4 20 24.30 22.23 0.000 0							Left Touch	FCC #1	QPSK	1	50	1:1	0.071	1.611	0.114	A10	
1 732.5	20175	LTE B4	20	23.30	21.08	0.000	1	Left Touch	FCC #1	QPSK	50	25	1:1	0.064	1.667	0.107	
1 732.5	20175	LTE B4	20	24.30	22.23	-0.090	0	Right Touch	FCC #1	QPSK	1	50	1:1	0.030	1.611	0.048	T I
1 732.5	20175	LTE B4	20	23.30	21.08	0.000	1	Right Touch	FCC #1	QPSK	50	25	1:1	0.028	1.667	0.047	
1 732.5	20175	LTE B4	20	24.30	22.23	0.000	0	Left Tilt	FCC #1	QPSK	1	50	1:1	0.018	1.611	0.029	
1 732.5	20175	LTE B4	20	23.30	21.08	0.090	1	Left Tilt	FCC #1	QPSK	50	25	1:1	0.016	1.667	0.027	T I
1 732.5	20175	LTE B4	20	24.30	22.23	0.000	0	Right Tilt	FCC #1	QPSK	1	50	1:1	0.003	1.611	0.005	
1 732.5	20175	LTE B4	20	23.30	21.08	0.000	1	Right Tilt	FCC #1	QPSK	50	25	1:1	0.002	1.667	0.003	
	-		Spatial F	2- SAFETY LIMI Peak eral Population E									Head 1.6 W/kg (m averaged over				

Table 11.1.9 LTE Band 2 (PCS) Head SAR

							N	MEASUREMENT	RESULTS								
FREQ	UENCY	Mode/	BW	Max Allowed	Cond.	Drift Power			Device					1 g		1 g	
MHz	PWR I I MPR I							Position	Serial Number	Mod.	RB Size	RB Offs.	Duty Cycle	SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plots #
1 860.0	18700	LTE B2	20	23.30	21.93	0.010	0	Left Touch	FCC #1	QPSK	1	50	1:1	0.114	1.371	0.156	
1 860.0	18700	LTE B2	20	22.30	20.69	0.020	1	Left Touch	FCC #1	QPSK	50	25	1:1	0.105	1.449	0.152	1
1 860.0	18700	LTE B2	20	23.30	21.93	-0.060	0	Right Touch	FCC #2	QPSK	1	50	1:1	0.129	1.371	0.177	A11
1 860.0	18700	LTE B2	20	22.30	20.69	0.040	1	Right Touch	FCC #1	QPSK	50	25	1:1	0.056	1.449	0.081	
1 860.0	18700	LTE B2	20	23.30	21.93	-0.070	0	Left Tilt	FCC #1	QPSK	1	50	1:1	0.023	1.371	0.032	
1 860.0	18700	LTE B2	20	22.30	20.69	0.030	1	Left Tilt	FCC #1	QPSK	50	25	1:1	0.015	1.449	0.022	
1 860.0	18700	LTE B2	20	23.30	21.93	0.040	0	Right Tilt	FCC #1	QPSK	1	50	1:1	0.023	1.371	0.032	1
1 860.0	18700	LTE B2	20	22.30	20.69	0.090	1	Right Tilt	FCC #1	QPSK	50	25	1:1	0.020	1.449	0.029	
			ANSI / IEEE	C95.1-1992- S Spatial Peak									Head 1.6 W/kg (r				

Table 11.1.10 LTE Band 41 Head SAR

							N	MEASUREMENT	RESULTS								
FREQ	UENCY			Max	Cond.	Drift			Device					1g		1g	
MHz	Ch	Mode/ Band	BW [MHz]	Allowed Power [dBm]	PWR [dBm]	Power [dB]	MPR	Position	Serial Number	Mod.	RB Size	RB Offs.	Duty Cycle	SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plots #
2 506.0	39750	LTE B41	20	24.30	22.45	0.050	0	Left Touch	FCC #1	QPSK	1	50	1:1.58	0.212	1.531	0.325	A12
2 506.0	39750	LTE B41	20	23.30	21.35	0.000	1	Left Touch	FCC #1	QPSK	50	25	1:1.58	0.181	1.567	0.284	
2 506.0	39750	LTE B41	20	24.30	22.45	0.070	0	Right Touch	FCC #1	QPSK	1	50	1:1.58	0.101	1.531	0.155	
2 506.0	39750	LTE B41	20	23.30	21.35	0.000	1	Right Touch	FCC #1	QPSK	50	25	1:1.58	0.081	1.567	0.127	
2 506.0	39750	LTE B41	20	24.30	22.45	0.000	0	Left Tilt	FCC #1	QPSK	1	50	1:1.58	0.036	1.531	0.055	
2 506.0	39750	LTE B41	20	23.30	21.35	0.010	1	Left Tilt	FCC #1	QPSK	50	25	1:1.58	0.028	1.567	0.044	
2 506.0	39750	LTE B41	20	24.30	22.45	0.010	0	Right Tilt	FCC #1	QPSK	1	50	1:1.58	0.060	1.531	0.092	
2 506.0	39750	LTE B41	20	23.30	21.35	0.060	1	Right Tilt	FCC #1	QPSK	50	25	1:1.58	0.052	1.567	0.081	
	-	Unco		C95.1-1992- S Spatial Peak		ocuro					_		Head 1.6 W/kg (r	nW/g)	<u>- </u>	<u>-</u>	

Table 11.1.11 DTS Head SAR

					ı a	DIE II.I.I	гото пеа	u SAN							
						MEASURE	MENT RESULTS								
FREQUE	NCY	Mode	Maximum Allowed	Conducted	Drift	Phantom	Device	Peak SAR of	Data	Duty	1g	Scaling	Scaling Factor	1g Scaled	Plots
MHz	Ch (Antenna) Power Power [dBm] [dB] Position Senal Area Scan [Mbps] Cycle SAR (W/kg) Factor (Duty SAR #														
2 412.0	1	802.11b	16.00	13.47	0.080	Left Touch	FCC #2	0.049	1	99.8	0.055	1.791	1.002	0.099	
2 412.0	1	802.11b	16.00	13.47	-0.060	Right Touch	FCC #2	0.128	1	99.8	0.112	1.791	1.002	0.201	A13
2 412.0	1	802.11b	16.00	13.47	-0.010	Left Tilt	FCC #2	0.067	1	99.8	0.052	1.791	1.002	0.093	
2 412.0	1	802.11b	16.00	13.47	0.090	Right Tilt	FCC #2	0.089	1	99.8	0.089	1.791	1.002	0.160	
				1992- SAFETY LIMIT	-		_					ead			

						Adjusted SAR result	s for OFDM SAR					
FREQUE	NCY			Maximum	_ 1g				Maximum		1g	
MHz	Ch	Mode/ Antenna	Service	Allowed Power [dBm]	Scaled SAR (W/kg)	FREQUENCY [MHz]	Mode	Service	Allowed Power [dBm	Ratio of OFDM to DSSS	Adjusted SAR (W/kg)	Determine OFDM SAR
2 412.0	1	802.11b	DSSS	16.0	0.201	2 412.0	802.11g	OFDM	15.0	0.794	0.160	X
2 412.0	1	802.11b	DSSS	16.0	0.201	2 412.0	802.11n	OFDM	15.0	0.794	0.160	X
		ANSI / IEEE C95.1-19 Spatial	Peak						Head 1.6 W/kg (mW/g)			

Uncontrolled Exposure (September 1 of the following 2.4 GHz OFDM conditions. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

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Table 11.1.12 UNII Head SAR

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						MEASURI	MENT RESULTS								
FREQUE	[dBm] [dBm] [dB] Nu							Peak SAR of Area Scan	Data Rate [Mbps]	Duty Cycle	1g SAR (W/kg)	Scaling Factor	Scaling Factor (Duty Cycle)	1g Scaled SAR (W/kg)	Plots #
5 290.0	58	802.11ac	FCC #2	0.054	MCS0	86.7	0.027	1.824	1.153	0.057					
5 290.0	58	802.11ac	14.00	11.39	0.050	Right Touch	FCC #2	0.282	MCS0	86.7	0.187	1.824	1.153	0.393	A14
5 290.0	58	802.11ac	14.00	11.39	0.000	Left Tilt	FCC #2	0.055	MCS0	86.7	0.039	1.824	1.153	0.082	
5 290.0	58	802.11ac	14.00	11.39	0.000	Right Tilt	FCC #2	0.092	MCS0	86.7	0.055	1.824	1.153	0.116	
	-			C95.1-1992– SAFETY L Spatial Peak osure/General Populatio		<u>-</u>	-		-	_	1.6 W/k	ead g (mW/g) over 1 gram	-		_

					Adjusted SA	R results for UNII-1 a	nd UNII-2A SAR					
FREQUE	NCY			Maximum	1g	EDECHENOV			Maximum	Adligated	1g	SAR for the band with
MHz	Ch	Mode/ Antenna	Service	Allowed Power [dBm]	Scaled SAR (W/kg)	FREQUENCY [MHz]	Mode	Service	Allowed Power [dBm	Adjusted Factor	Adjusted SAR (W/kg)	lower maximum output power
5 290.0	58	802.11ac	OFDM	14.00	0.393	5 210.0	802.11ac	OFDM	14.00	1.000	0.393	X
_	ι	ANSI / IEEE C95.1- Spati Incontrolled Exposure/G	al Peak				-		Head 1.6 W/kg (mW/g averaged over 1 g			-

Note: U-NII-1 and U-NII-2A Bands: When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration.

Table 11.1.13 UNII Head SAR

						MEASURE	MENT RESULTS								
FREQUE	Ch	Mode (Antenna)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Drift Power [dB]	Phantom Position	Device Serial Number	Peak SAR of Area Scan	Data Rate [Mbps]	Duty Cycle	1g SAR (W/kg)	Scaling Factor	Scaling Factor (Duty Cycle)	1g Scaled SAR (W/kg)	Plots #
5 530.0 106 802.11ac 14.00 11.85 -0.080 Left Touch								0.077	MCS0	86.7	0.032	1.641	1.153	0.061	
5 530.0 106 802.11ac 14.00 11.85 -0.010 Right Touch								0.169	MCS0	86.7	0.151	1.641	1.153	0.286	A15
5 530.0	106	802.11ac	14.00	11.85	0.000	Left Tilt	FCC #2	0.064	MCS0	86.7	0.054	1.641	1.153	0.102	
5 530.0	106	802.11ac	14.00	11.85	0.020	Right Tilt	FCC #2	0.071	MCS0	86.7	0.057	1.641	1.153	0.108	
	-		ANSI / IEEE	-		<u>-</u>		1.6 W/k	ead g (mW/g) over 1 gram			-			

Table 11.1.14 Bluetooth Head SAR

						MEASUR	EMENT RESULT	S						
MHz	Ch	Mode	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Drift Power [dB]	Phantom Position	Device Serial Number	Rate [Mbps]	Duty Cycle (%)	1g SAR (W/kg)	Scaling Factor	Scaling Factor (Duty Cycle)	1g Scaled SAR (W/kg)	Plots #
2 441.0	39	Bluetooth	12.56	8.78	0.000	Left Touch	FCC #2	1	76.8	0.014	2.386	1.302	0.043	
2 441.0	39	Bluetooth	12.56	8.78	0.050	Right Touch	FCC #2	1	76.8	0.031	2.386	1.302	0.096	A16
2 441.0	39	Bluetooth	12.56	8.78	0.000	Left Tilt	FCC #2	1	76.8	0.011	2.386	1.302	0.034	
2 441.0	39	Bluetooth	12.56	8.78	0.000	Right Tilt	FCC #2	1	76.8	0.025	2.386	1.302	0.078	
	-	•		C95.1-1992– SAFETY LIF Spatial Peak sure/General Population					•		Head 1.6 W/kg (mW/g) eraged over 1 gram	1		

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11.2 Standalone Body-Worn SAR Worn SAR Results

Table 11.2.1 GSM/PCS/GPRS/WCDMA Body-Worn SAR

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						MEASUREM	IENT RESULTS							
FREQUE	NCY	Mode/		Maximum Allowed	Conducted	Drift Power	Spacing	Device	# of Time	Duty	1g	Scaling	1g Scaled	Plots
MHz	Ch	Band	Service	Power [dBm]	Power [dBm]	[dB]	[Side]	Serial Number	Slots	Cycle	SAR (W/kg)	Factor	SAR (W/kg)	#
836.6	190	GSM850	GSM	33.90	33.12	0.000	10 mm [Front]	FCC #1	1	1:8.3	0.306	1.197	0.366	
836.6	190	GSM850	GSM	33.90	33.12	-0.010	10 mm [Rear]	FCC #1	1	1:8.3	0.400	1.197	0.479	A17
836.6	190	GSM850	GPRS	27.90	27.80	-0.070	10 mm [Front]	FCC #1	4	1:2.075	0.368	1.023	0.376	
836.6	190	GSM850	GPRS	27.90	27.80	-0.050	10 mm [Rear]	FCC #1	4	1:2.075	0.472	1.023	0.483	A18
1 880.0	661	PCS1900	PCS	30.90	29.67	0.050	10 mm [Front]	FCC #1	1	1:8.3	0.300	1.327	0.398	
1 880.0	661	PCS1900	PCS	30.90	29.67	-0.100	10 mm [Rear]	FCC #1	1	1:8.3	0.556	1.327	0.738	A19
1 880.0	661	PCS1900	GPRS	24.90	24.40	0.000	10 mm [Front]	FCC #1	4	1:2.075	0.333	1.122	0.374	
1 880.0	661	PCS1900	GPRS	24.90	24.40	-0.090	10 mm [Rear]	FCC #1	4	1:2.075	0.654	1.122	0.734	A20
836.6	4183	WCDMA 850	RMC	24.30	23.25	-0.010	10 mm [Front]	FCC #1	N/A	1:1	0.344	1.274	0.438	
836.6	4183	WCDMA 850	RMC	24.30	23.25	0.000	10 mm [Rear]	FCC #1	N/A	1:1	0.538	1.274	0.685	A21
1 732.4	1412	WCDMA 1700	RMC	24.30	23.35	-0.120	10 mm [Front]	FCC #1	N/A	1:1	0.338	1.245	0.421	
1 732.4	1412	WCDMA 1700	RMC	24.30	23.35	0.020	10 mm [Rear]	FCC #1	N/A	1:1	0.638	1.245	0.794	A22
1 880.0	9400	WCDMA 1900	RMC	23.30	22.07	0.120	10 mm [Front]	FCC #1	N/A	1:1	0.408	1.327	0.541	
1 852.4	9262	WCDMA 1900	RMC	23.30	21.89	-0.010	10 mm [Rear]	FCC #1	N/A	1:1	0.826	1.384	1.143	
1 880.0	9400	WCDMA 1900	RMC	23.30	22.07	0.000	10 mm [Rear]	FCC #1	N/A	1:1	0.848	1.327	1.125	
1 907.6	9538	WCDMA 1900	RMC	23.30	22.12	0.000	10 mm [Rear]	FCC #1	N/A	1:1	0.885	1.312	1.161	A23
1 907.6	9538	WCDMA 1900	RMC	23.30	22.12	0.000	10 mm [Rear]	FCC #1	N/A	1:1	0.882	1.312	1.157	
			Spa	5.1-1992– SAFETY LIN patial Peak e/General Population						Body I.6 W/kg (mW/g) eraged over 1 gra				

Table 11.2.2 LTE B12, B5, B4, B2 Body-Worn SAR

							N	MEASUREMENT	-									
FREQ	UENCY Ch	Mode/ Band	BW [MHz]	Max Allowed Power [dBm]	Cond. PWR [dBm]	Drift Power [dB]	MPR	Position	Device Serial Number	Mod.	RB Size	RB Offs.	Duty Cycle	1 g SAR (W/kg)	Scaling Factor	1 g Scaled SAR (W/kg)	Plots #	
707.5	23095	LTE B12	10	24.30	23.32	-0.010	0	10 mm (Front)	FCC #1	QPSK	1	25	1:1	0.209	1.253	0.262	A24	
707.5	23095	LTE B12	10	23.30	22.14	0.030	1	10 mm [Front]	FCC #1	QPSK	25	12	1:1	0.196	1.306	0.256	,	
707.5	23095	LTE B12	10	24.30	23.32	-0.060	0	10 mm [Rear]	FCC #1	QPSK	1	25	1:1	0.185	1.253	0.232		
707.5	23095	LTE B12	10	23.30	22.14	-0.040	1	10 mm [Rear]	FCC #1	QPSK	25	12	1:1	0.155	1.306	0.202		
836.5	20525	LTE B5	10	24.30	22.37	-0.020	0	10 mm [Front]	FCC #1	QPSK	1	25	1:1	0.248	1.560	0.387		
836.5	20525	LTE B5	10	23.30	20.92	-0.000	1	10 mm [Front]	FCC #1	QPSK	25	12	1:1	0.210	1.730	0.363		
836.5	20525	LTE B5	10	24.30	22.37	-0.050	0	10 mm [Rear]	FCC #1	QPSK	1	25	1:1	0.382	1.560	0.596	A25	
836.5	20525	LTE B5	10	23.30	20.92	-0.030	1	10 mm [Rear]	. 1 100									
1 732.5	20175	LTE B4	20	24.30	22.23	-0.110	0	10 mm [Front]	1 [Front] FCC #1 QPSK 1 50 1:1 0.416 1.611 0.670									
1 732.5	20175	LTE B4	20	23.30	21.08	-0.110	1	10 mm [Front]	n [Front] FCC #1 QPSK 50 25 1:1 0.390 1.667 0.650									
1 732.5	20175	LTE B4	20	24.30	22.23	-0.010	0	10 mm [Rear]										
1 732.5	20175	LTE B4	20	23.30	21.08	-0.040	1	10 mm [Rear]	FCC #1	QPSK	50	25	1:1	0.560	1.667	0.934		
1 860.0	18700	LTE B2	20	23.30	21.93	-0.020	0	10 mm [Front]	FCC #1	QPSK	1	50	1:1	0.513	1.371	0.703		
1 860.0	18700	LTE B2	20	22.30	20.69	-0.050	1	10 mm [Front]	FCC #1	QPSK	50	25	1:1	0.473	1.449	0.685		
1 860.0	18700	LTE B2	20	23.30	21.93	-0.010	0	10 mm [Rear]	FCC #1	QPSK	1	50	1:1	0.737	1.371	1.010	A27	
1 860.0	18700	LTE B2	20	22.30	20.69	-0.000	1	10 mm [Rear]	FCC #1	QPSK	50	25	1:1	0.685	1.449	0.993		
1 860.0	18700	LTE B2	20	22.30	20.60	0.010	1	10 mm [Rear]	FCC #1	QPSK	100	0	1:1	0.508	1.479	0.751		
1 880.0	18900	LTE B2	20	23.30	21.89	-0.020	0	10 mm [Rear]										
1 880.0	18900	LTE B2	20	22.30 23.30	20.49 21.63	-0.040	1	10 mm [Rear]										
1 900.0	19100	LTE B2	20	0	10 mm [Rear]	FCC #1	QPSK	1	50	1:1	0.656	1.469	0.964					
1 900.0	19100	LTE B2	20	22.30	20.42	-0.010	1	10 mm [Rear]	FCC #1	QPSK	50	25	1:1	0.516	1.542	0.796		
	_		ANSI / IEEE C95.1- Spati crolled Exposure/G	ial Peak			-	-	_	_		-	Body 1.6 W/kg (r	nW/g)	•	_		

Table 11.2.3 LTE B41 Body-Worn SAR

								MEASUREMENT	T RESULTS								
FREQ	UENCY			Max	Cond.				Device					1a		1g	
MHz	Ch	Mode/ Band	BW [MHz]	Allowed Power [dBm]	PWR [dBm]	Drift Power [dB]	MPR	Position	Serial Number	Mod.	RB Size	RB Offs.	Duty Cycle	SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plots #
2 506.0										QPSK	1	50	1:1.58	0.065	1.531	0.100	
2 506.0										QPSK	50	25	1:1.58	0.037	1.567	0.058	
2 506.0	39750	LTE B41	20	24.30	22.45	0.010	0	10 mm [Rear]	FCC #1	QPSK	1	50	1:1.58	0.252	1.531	0.386	A28
2 506.0	39750	LTE B41	20	23.30	21.35	-0.020	1	10 mm [Rear]	FCC #1	QPSK	50	25	1:1.58	0.200	1.567	0.313	
			ANSI / IEEI	E C95.1-1992- S									Body				
				Spatial Peak									1.6 W/kg (r	nW/g)			
ll		Uncor	ntrolled Exp	osure/General I	Population Exp	osure							everaged over	r 1 gram			

Table 11.2.4 DTS Body-Worn SAR

							<u> </u>		•						
						MEASURE	MENT RESULT	rs							
FREQUEN	ICY		Maximum Allowed	Conducted	Drift Power	Phantom	Device	Peak SAR of	Data	Duty	1g	Scaling	Scaling Factor	SAR	Plots
MHz	Ch	Mode	Power [dBm]	Power [dBm]	[dB]	Position	Serial Number	Area Scan	Rate [Mbps]	Cycle	SAR (W/kg)	Factor	(Duty Cycle)	(W/kg)	#
2 412.0	1	802.11b	16.00	13.47	0.020	10 mm [Front]	FCC #2	0.028	1	99.8	0.026	1.791	1.002	0.047	Ī
2 412.0	1	802.11b	16.00	13.47	-0.080	10 mm [Rear]	FCC #2	0.077	1	99.8	0.071	1.791	1.002	0.127	A29
			ANSI / IEE	E C95.1-1992 – SAFETY LIMIT Spatial Peak	-	-	-		_	_	Bod 1.6 W/kg (

						Adjusted SAR result	s for OFDM SAR					
FREQUE	NCY	Made/Antonna	Camilaa	Maximum Allowed	1g Scaled	FREQUENCY	Mada	Comico	Maximum Allowed	Ratio of	1g Adjusted	Determine OFDM SAR
MHz	Ch	Mode/ Antenna	Service	Power [dBm]	SAR (W/kg)	[MHz]	Mode	Service	Power [dBm	OFDM to DSSS	SAR (W/kg)	Determine OFDM SAR
2 412.0	1	802.11b	DSSS	16.0	0.127	2 412.0	802.11g	OFDM	15.0	0.794	0.101	X
2 412.0	1	802.11b	DSSS	16.0	0.127	2 412.0	802.11n	OFDM	15.0	0.794	0.101	X
	Unc	ANSI / IEEE C95.1-19 Spatial	Peak		-		-	<u>-</u>	Body 1.6 W/kg (mW/g) averaged over 1 gra	m		

Note: SAR is not required for the following 2.4 GHz OFDM conditions. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.





Table 11.2.5 UNII Body-Worn SAR

						MEASURE	MENT RESULTS								
FREQUE	ICY		Maximum	Conducted	Drift Power	Dhantan	Device	Peak SAR of	Data	Duti	1g	Scaling	Scaling	1g Scaled	Plots
MHz	Ch	Mode	Allowed Power [dBm]	Phantom Position	Serial Number	Area Scan	Rate [Mbps]	Duty Cycle	SAR (W/kg)	Factor	Factor (Duty Cycle)	Scaled SAR (W/kg)	#		
5 290.0	58	802.11ac	14.00	10 mm [Front]	FCC #2	0.043	MCS0	86.7	0.021	1.824	1.153	0.044			
5 290.0 58 802.11ac 14.00 11.39 -0.090 10 mm [Fron 5 290.0 58 802.11ac 14.00 11.39 -0.010 10 mm [Real							FCC #2	0.042	MCS0	86.7	0.029	1.824	1.153	0.061	A30
				EE C95.1-2005- SAFETY LIMIT Spatial Peak (posure/General Population E)						1.6 W/I	ody kg (mW/g) over 1 gram				

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					Adjusted SA	R results for UNII-1 a	ind UNII-2A SAR					
FREQUE	NCY			Maximum	1g				Maximum		1g	SAR for the band with
MHz	Ch	Mode/ Antenna	Service	Allowed Power [dBm]	Scaled SAR (W/kg)	FREQUENCY [MHz]	Mode	Service	Allowed Power [dBm	Adjusted Factor	Adjusted SAR (W/kg)	lower maximum output power
5 290.0	58	802.11ac	OFDM	14.00	0.061	5 210.0	802.11ac	OFDM	14.00	1.000	0.061	X
	U	ANSI / IEEE C95.1- Spati Incontrolled Exposure/G	al Peak		-		-	_	Head 1.6 W/kg (mW/g averaged over 1 g			-

Note: U-INI-1 and U-INI-2A Bands: When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration.

Table 11.2.6 UNII Body-Worn SAR

						MEASURE	MENT RESULTS								
FREQUE	NCY		Maximum	Conducted			Device		Data		1a		Scaling	1g	
MHz							Serial Number	Peak SAR of Area Scan	Rate [Mbps]	Duty Cycle	SAR (W/kg)	Scaling Factor	Factor (Duty Cycle)	Scaled SAR (W/kg)	Plots #
5 530.0 106 802.11ac 14.00 11.85 -0.050 10 mm [Front]								0.033	6	86.7	0.021	1.641	1.153	0.040	
							FCC #2	0.109	6	86.7	0.091	1.641	1.153	0.172	A31
				EE C95.1-1992- SAFETY LIMIT Spatial Peak cposure/General Population Ex		_		-		1.6 W/k	ody sg (mW/g) over 1 gram	-		-	

Table 11.2.7 Bluetooth Body-Worn SAR

						MEASURE	MENT RESULT	S						
FREQUEN	ICY		Maximum	Conducted	Drift Power	Dhantan	Device	Rate	Duty	1g	0	Scaling Factor	1g Scaled	Plots
MHz	MHz Ch Mode Power [dBm] Position						Serial Number	[Mbps]	Cycle (%)	SAR (W/kg)	Scaling Factor	(Duty Cycle)	Scaled SAR (W/kg)	#
2 441.0	39	Bluetooth	12.56	8.78	-0.100	10 mm [Front]	FCC #2	1	76.8	0.017	2.386	1.302	0.053	
2 441.0	39	Bluetooth	12.56	8.78	-0.070	10 mm [Rear]	FCC #2	1	76.8	0.028	2.386	1.302	0.087	A32
				E C95.1-1992– SAFETY LIMIT Spatial Peak osure/General Population Exp	osure	- · · ·			-	Body 1.6 W/kg (mW/g) averaged over 1 gram	-		· · · · · · · · · · · · · · · · · · ·	

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11.3 Standalone Hotspot SAR Results

Table 11.3.1 GPRS/WCDMA Hotspot SAR

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					14510 111011			otopot o						
						MEASUREN	ENT RESULTS							
FREQU MHz	Ch	Mode/ Band	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Drift Power [dB]	Spacing [Side]	Device Serial Number	# of Time Slots	Duty Cycle	1g SAR (W/kg)	Scaling Factor	1g Scaled SAR (W/kg)	Plots #
836.6	190	GSM850	GPRS	27.90	27.80	-0.120	10 mm [Bottom]	FCC #1	4	1:2.075	0.298	1.023	0.305	
836.6	190	GSM850	GPRS	27.90	27.80	-0.070	10 mm [Front]	FCC #1	4	1:2.075	0.368	1.023	0.376	
836.6	190	GSM850	GPRS	27.90	27.80	-0.050	10 mm [Rear]	FCC #1	4	1:2.075	0.472	1.023	0.483	A18
836.6	190	GSM850	GPRS	27.90	27.80	-0.040	10 mm [Left]	FCC #1	4	1:2.075	0.241	1.023	0.247	
1 880.0	661	PCS1900	GPRS	24.90	24.40	-0.010	10 mm [Bottom]	FCC #1	4	1:2.075	0.316	1.122	0.355	
1 880.0	661	PCS1900	GPRS	24.90	24.40	0.000	10 mm [Front]	FCC #1	4	1:2.075	0.333	1.122	0.374	
1 880.0	661	PCS1900	GPRS	24.90	24.40	-0.090	10 mm [Rear]	FCC #1	4	1:2.075	0.654	1.122	0.734	A20
1 880.0	661	PCS1900	GPRS	24.90	24.40	-0.170	10 mm [Left]	FCC #1	4	1:2.075	0.391	1.122	0.439	
836.6	4183	WCDMA 850	RMC	24.30	23.25	-0.110	10 mm [Bottom]	FCC #1	N/A	1:1	0.339	1.274	0.432	Ī
836.6	4183	WCDMA 850	RMC	24.30	23.25	-0.010	10 mm [Front]	FCC #1	N/A	1:1	0.344	1.274	0.438	
836.6	4183	WCDMA 850	RMC	24.30	23.25	0.000	10 mm [Rear]	FCC #1	N/A	1:1	0.538	1.274	0.685	A21
836.6	4183	WCDMA 850	RMC	24.30	23.25	-0.040	10 mm [Left]	FCC #1	N/A	1:1	0.208	1.274	0.265	
1 732.4	1412	WCDMA 1700	RMC	24.30	23.35	0.050	10 mm [Bottom]	FCC #1	N/A	1:1	0.309	1.245	0.385	
1 732.4	1412	WCDMA 1700	RMC	24.30	23.35	-0.120	10 mm [Front]	FCC #1	N/A	1:1	0.338	1.245	0.421	
1 732.4	1412	WCDMA 1700	RMC	24.30	23.35	0.020	10 mm [Rear]	FCC #1	N/A	1:1	0.638	1.245	0.794	A22
1 732.4	1412	WCDMA 1700	RMC	24.30	23.35	0.030	10 mm [Left]	FCC #1	N/A	1:1	0.459	1.245	0.571	
1 880.0	9400	WCDMA 1900	RMC	23.30	22.07	-0.030	10 mm [Bottom]	FCC #1	N/A	1:1	0.295	1.327	0.391	
1 880.0	9400	WCDMA 1900	RMC	23.30	22.07	0.120	10 mm [Front]	FCC #1	N/A	1:1	0.408	1.327	0.541	
1 852.4	9262	WCDMA 1900	RMC	23.30	21.89	-0.010	10 mm [Rear]	FCC #1	N/A	1:1	0.826	1.384	1.143	
1 880.0	9400	WCDMA 1900	RMC	23.30	22.07	0.000	10 mm [Rear]	FCC #1	N/A	1:1	0.848	1.327	1.125	
1 907.6	9538	WCDMA 1900	RMC	23.30	22.12	0.000	10 mm [Rear]	FCC #1	N/A	1:1	0.885	1.312	1.161	A23
1 880.0	9400	WCDMA 1900	RMC	23.30	22.07	0.050	10 mm [Left]	FCC #1	N/A	1:1	0.542	1.327	0.719	
1 907.6	9538	WCDMA 1900	RMC	23.30	22.12	0.000	10 mm [Rear]	FCC #1	N/A	1:1	0.882	1.312	1.157	
			Spa	I-1992– SAFETY LIN tial Peak General Population						Body I.6 W/kg (mW/g) eraged over 1 gra	m			

Note: Yellow entries represent variability measurements.

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Table 11.3.2 LTE Hotspot SAR

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								MEASUREMENT									
EPEO	UENCY			Max	Г	T		ILAGOREMEN		T			T .		T	10	_
MHz	Ch	Mode/ Band	BW [MHz]	Allowed Power [dBm]	Cond. PWR [dBm]	Drift Power [dB]	MPR	Position	Device Serial Number	Mod.	RB Size	RB Offs.	Duty Cycle	1 g SAR (W/kg)	Scaling Factor	1 g Scaled SAR (W/kg)	Plots #
707.5	23095	LTE B12	10	24.30	23.32	-0.050	0	10 mm [Bottom]	FCC #1	QPSK	1	25	1:1	0.160	1.253	0.200	Ī
707.5	23095	LTE B12	10	23.30	22.14	-0.040	1	10 mm [Bottom]	FCC #1	QPSK	25	12	1:1	0.146	1.306	0.191	
707.5	23095	LTE B12	10	24.30	23.32	-0.010	0	10 mm [Front]	FCC #1	QPSK	1	25	1:1	0.209	1.253	0.262	A24
707.5	23095	LTE B12	10	23.30	22.14	0.030	1	10 mm [Front]	FCC #1	QPSK	25	12	1:1	0.196	1.306	0.256	
707.5	23095	LTE B12	10	24.30	23.32	-0.060	0	10 mm [Rear]	FCC #1	QPSK	1	25	1:1	0.185	1.253	0.232	
707.5	23095	LTE B12	10	23.30	22.14	-0.040	1	10 mm [Rear]	FCC #1	QPSK	25	12	1:1	0.155	1.306	0.202	
707.5	23095	LTE B12	10	24.30	23.32	0.020	0	10 mm [Left]	FCC #1	QPSK	1	25	1:1	0.051	1.253	0.064	
707.5	23095	LTE B12	10	23.30	22.14	-0.020	1	10 mm [Left]	FCC #1	QPSK	25	12	1:1	0.021	1.306	0.027	
836.5	20525	LTE B5	10	24.30	22.37	-0.090	0	10 mm [Bottom]	FCC #1	QPSK	1	25	1:1	0.305	1.560	0.476	
836.5	20525	LTE B5	10	23.30	20.92	-0.070	1	10 mm [Bottom]	FCC #1	QPSK	25	12	1:1	0.268	1.730	0.464	
836.5	20525	LTE B5	10	24.30	22.37	-0.020	0	10 mm [Front]	FCC #1	QPSK	1	25	1:1	0.248	1.560	0.387	
836.5	20525	LTE B5	10	23.30	20.92	-0.000	1	10 mm [Front]	FCC #1	QPSK	25	12	1:1	0.210	1.730	0.363	
836.5	20525	LTE B5	10	24.30	22.37	-0.050	0	10 mm [Rear]	FCC #1	QPSK	1	25	1:1	0.382	1.560	0.596	A25
836.5	20525	LTE B5	10	23.30	20.92	-0.030	1	10 mm [Rear]	FCC #1	QPSK	25	12	1:1	0.342	1.730	0.592	
836.5	20525	LTE B5	10	24.30	22.37	-0.030	0	10 mm [Left]	FCC #1	QPSK	1	25	1:1	0.151	1.560	0.236	
836.5	20525	LTE B5	10	23.30	20.92	-0.010	1	10 mm [Left]	FCC #1	QPSK	25	12	1:1	0.151	1.730	0.261	
1 732.5	20175	LTE B4	20	24.30	22.23	-0.040	0	10 mm [Bottom]	FCC #1	QPSK	1	50	1:1	0.334	1.611	0.538	
1 732.5	20175	LTE B4	20	23.30	21.08	-0.000	1	10 mm [Bottom]	FCC #1	QPSK	50	25	1:1	0.310	1.667	0.517	_
1 732.5	20175	LTE B4	20	24.30	22.23	-0.110	0	10 mm [Front]	FCC #1	QPSK	1	50	1:1	0.416	1.611	0.670	_
1 732.5	20175	LTE B4	20	23.30	21.08	-0.110	1	10 mm [Front]	FCC #1	QPSK	50	25	1:1	0.390	1.667	0.650	1
1 732.5	20175	LTE B4	20	24.30	22.23	-0.010	0	10 mm [Rear]	FCC #1	QPSK	1	50	1:1	0.583	1.611	0.939	A26
1 732.5	20175	LTE B4	20	23.30	21.08	-0.040	1	10 mm [Rear]	FCC #1	QPSK	50	25	1:1	0.560	1.667	0.934	1
1 732.5	20175	LTE B4	20	24.30	22.23	0.030	0	10 mm [Left]	FCC #1	QPSK	1	50	1:1	0.493	1.611	0.794	1
1 732.5	20175	LTE B4	20	23.30	21.08	0.030	1	10 mm [Left]	FCC #1	QPSK	50	25	1:1	0.475	1.667	0.792	1
1 860.0	18700	LTE B2	20	23.30	21.93	-0.030	0	10 mm [Bottom]	FCC #1	QPSK	1	50	1:1	0.395	1.371	0.542	+
1 860.0	18700	LTE B2	20	22.30	20.69	-0.050	1	10 mm [Bottom]	FCC #1	QPSK	50	25	1:1	0.364	1.449	0.527	+
1 860.0	18700	LTE B2	20	23.30	21.93	-0.020	0	10 mm [Front]	FCC #1	QPSK	1	50	1:1	0.513	1.371	0.703	+
1 860.0	18700	LTE B2	20	22.30	20.69	-0.050	1	10 mm [Front]	FCC #1	QPSK	50	25	1:1	0.473	1.449	0.685	+ -
1 860.0	18700	LTE B2	20	23.30	21.93	-0.010	0	10 mm [Rear]	FCC #1	QPSK	1	50	1:1	0.737	1.371	1.010	A27
1 860.0	18700	LTE B2	20	22.30	20.69	-0.000	1	10 mm [Rear]	FCC #1	QPSK	50	25	1:1	0.685	1.449	0.993	
1 860.0	18700	LTE B2	20	22.30	20.60	0.010	1	10 mm [Rear]	FCC #1	QPSK	100	0	1:1	0.508	1.479	0.751	_
1 880.0	18900	LTE B2	20	23.30	21.89	-0.020	0	10 mm [Rear]	FCC #1	QPSK	1	50	1:1	0.644	1.384	0.891	_
1 880.0	18900	LTE B2	20	22.30	20.49	-0.040	1	10 mm [Rear]	FCC #1	QPSK	50	25	1:1	0.506	1.517	0.768	_
1 900.0	19100	LTE B2	20	23.30	21.63	-0.010	0	10 mm [Rear]	FCC #1	QPSK	1	50	1:1	0.656	1.469	0.964	1
1 900.0	19100	LTE B2	20	22.30	20.42	-0.010	1	10 mm [Rear]	FCC #1	QPSK	50	25	1:1	0.516	1.542	0.796	1
1 860.0	18700	LTE B2	20	23.30	21.93	-0.050	0	10 mm [Left]	FCC #1	QPSK	1	50	1:1	0.401	1.371	0.550	+
1 860.0	18700	LTE B2	20	22.30	20.69	0.010	1	10 mm [Left]	FCC #1	QPSK	50	25	1:1	0.342	1.449	0.496	1
2 506.0	39750	LTE B41	20	24.30	22.45	-0.110	0	10 mm [Bottom]	FCC #1	QPSK	1	50	1:1.58	0.115	1.531	0.176	1
2 506.0	39750	LTE B41	20	23.30	21.35	-0.090	1	10 mm [Bottom]	FCC #1	QPSK	50	25	1:1.58	0.094	1.567	0.147	1
2 506.0	39750	LTE B41	20	24.30	22.45	-0.160	0	10 mm [Front]	FCC #1	QPSK	1	50	1:1.58	0.065	1.531	0.100	1
2 506.0	39750	LTE B41	20	23.30	21.35	-0.040	Ť	10 mm [Front]	FCC #1	QPSK	50	25	1:1.58	0.037	1.567	0.058	+
2 506.0	39750	LTE B41	20	24.30	22.45	0.010	0	10 mm [Rear]	FCC #1	QPSK	1	50	1:1.58	0.252	1.531	0.386	1
2 506.0	39750	LTE B41	20	23.30	21.35	-0.020	1	10 mm [Rear]	FCC #1	QPSK	50	25	1:1.58	0.200	1.567	0.313	1
2 506.0	39750	LTE B41	20	24.30	22.45	0.040	0	10 mm [Left]	FCC #1	QPSK	1	50	1:1.58	0.288	1.531	0.441	A33
2 506.0	39750	LTE B41	20	23.30	21.35	0.030	1	10 mm [Left]	FCC #1	QPSK	50	25	1:1.58	0.226	1.567	0.354	7.00
				E C95.1-1992-		-	-	<u> </u>					Body				
l				Spatial Peak									1.6 W/kg (r				
		Uncor	trolled Exp	osure/General		osure							averaged ove				

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Table 11.3.3 DTS Hotspot SAR

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						MEASUR	EMENT RESULTS								
FREQUE	NCY		Maximum	Conducted	- 10 -		Device		Data		1a		Scaling		
MHz	Ch	Mode	Allowed Power [dBm]	Power [dBm]	Drift Power [dB]	Phantom Position	Serial Number	Peak SAR of Area Scan	Rate [Mbps]	Duty Cycle	SAR (W/kg)	Scaling Factor	Factor (Duty Cycle)	SAR (W/kg)	Plots #
2 412.0	1	802.11b	16.00	13.47	0.020	10 mm [Front]	FCC #2	0.028	1	99.8	0.026	1.791	1.002	0.047	
2 412.0	1	802.11b	16.00	13.47	-0.080	10 mm [Rear]	FCC #2	0.077	1	99.8	0.071	1.791	1.002	0.127	A29
2 412.0	1	802.11b	16.00	13.47	-0.040	10 mm [Left]	FCC #2	0.061	1	99.8	0.059	1.791	1.002	0.106	
	_	-		C95.1-1992– SAFETY LIMIT Spatial Peak osure/General Population Exp	osure	=	=				Bod 1.6 W/kg (averaged ov	(mW/g)	_	=	

						Adjusted SAR result	s for OFDM SAR					
FREQUE	ENCY			Maximum Allowed	1g Scaled	FREQUENCY			Maximum Allowed	Ratio of	1g Adjusted	
MHz	Ch	Mode/ Antenna	Service	Power [dBm]	SAR (W/kg)	[MHz]	Mode	Service	Power [dBm	OFDM to DSSS	SAR (W/kg)	Determine OFDM SAR
2 412.0	1	802.11b	DSSS	16.0	0.127	2 412.0	802.11g	OFDM	15.0	0.794	0.101	X
2 412.0	1	802.11b	DSSS	16.0	0.127	2 412.0	802.11n	OFDM	15.0	0.794	0.101	X
	Unc	ANSI / IEEE C95.1-19 Spatial controlled Exposure/Ger	Peak						Body 1.6 W/kg (mW/g) averaged over 1 gra	m		

Note: SAR is not required for the following 2.4 GHz OFDM conditions. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

Table 11.3.4 Bluetooth Hotspot SAR

						MEASUR	EMENT RESULTS							
FREQUEN	CY		Maximum	Conducted			Device		Duty	1a		Scaling	1g	
MHz	Ch	Mode	Allowed Power [dBm]	Power [dBm]	Drift Power [dB]	Phantom Position	Serial Number	Rate [Mbps]	Cycle (%)	SAR (W/kg)	Scaling Factor	Factor (Duty Cycle)	Scaled SAR (W/kg)	Plots #
2 441.0	39	Bluetooth	12.56	8.78	-0.100	10 mm [Front]	FCC #2	1	76.8	0.017	2.386	1.302	0.053	
2 441.0	39	Bluetooth	12.56	8.78	-0.070	10 mm [Rear]	FCC #2	1	76.8	0.028	2.386	1.302	0.087	A32
2 441.0	39	Bluetooth	12.56	8.78	0.130	10 mm [Left]	FCC #2	1	76.8	0.020	2.386	1.302	0.062	
				C95.1-1992– SAFETY LIMIT Spatial Peak osure/General Population Exp	osure					=	Body 1.6 W/kg (mW/g) averaged over 1 gram			





11.4 Standalone Phablet SAR Results

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required when Hotspot 1g SAR (scaled to maximum output power including tolerance) < 1.2 W/kg.

Table 11.4.1 UNII Phablet SAR

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						MEASUR	EMENT RESULTS								
FREQUE	ICY		Maximum Allowed	Conducted	Drift Power	Phantom	Device	Peak SAR of	Data	Duty	10g	Scaling	Scaling Factor	10g Scaled	Plots
MHz	Ch	Mode	Power [dBm]	Power [dBm]	[dB]	Position	Serial Number	Area Scan	Rate [Mbps]	Cycle	SAR (W/kg)	Factor	(Duty Cycle)	SAR (W/kg)	
5 290.0	58	802.11ac	14.00	11.39	-0.060	0 mm [Front]	FCC #2	0.069	MCS0	86.7	0.069	1.824	1.153	0.145	
5 290.0	58	802.11ac	14.00	11.39	-0.020	0 mm [Rear]	FCC #2	0.051	MCS0	86.7	0.056	1.824	1.153	0.118	
5 290.0	58	802.11ac	14.00	11.39	-0.060	0 mm [Left]	FCC #2	0.082	MCS0	86.7	0.096	1.824	1.153	0.202	A34
		-		I IEEE C95.1-1992- SAFETY LIMIT Spatial Peak d Exposure/General Population Exposur	re	-	-				4.0 W/F	ablet og (mW/g) over 10 gram			

					Adjusted SA	R results for UNII-1 a	nd UNII-2A SAR						
FREQUEN	CY			Maximum Allowed	10g Scaled	FREQUENCY			Maximum Allowed	Adlicated	10g Adjusted	SAR for the band with lower	
MHz	Ch	Mode/ Antenna	Service	Power [dBm]	Scaled SAR (W/kg)	[MHz]	Mode	Service	Power [dBm	Adjusted Factor	SAR (W/kg)	maximum output power	
5 290.0	58	802.11ac	OFDM	14.00	0.202	5 210.0	802.11ac	OFDM	14.00	1.000	0.202	X	
	_	Spa	-1992- SAFETY LIMIT tial Peak Seneral Population Exposure	-	-	Phablet 4.4 Witg (in/Wig) averaged over 10 com							

Uncontrolled Exposured Togustation Exposure

were production of the Children of the Sands: When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 3.0 W/kg, SAR is not required for the band with lower maximum output power in that test configuration.

Table 11.4.2 UNII Phablet SAR

PRECUENCY Mode Maximum Maximum Mode Missing	
MHz Ch Roce Power (d8) Position Syrina Area Scan (Labe) Cycle SMr. Factor (Duty SAR (Mile) (d8) (Mile) (Mil	Plots
5 530.0 106 802.11ac 14.00 11.85 -0.050 0 mm (Front) FCC #2 0.066 MCS0 86.7 0.056 1.641 1.019 0.094	
	T
5 5 3 0.0 106 802.11ac 14.00 11.85 -0.100 0 mm [Rear] FCC #2 0.077 MCS0 86.7 0.100 1.641 1.019 0.167	
5 5 3 0.0 106 802.11ac 14.00 11.85 -0.090 0 mm [Left] FCC #2 0.111 MCSO 86.7 0.111 1.641 1.019 0.186	A35
ANSI IEEE C95. 1992-3 AFETY LIMIT Phablet Spotal Peak 4.0 Wing (mWg) Uncontrolled Exposure Central Population Exposure annual central Population Exposure	

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11.5 Standalone Extremity SAR Results

Table 11.5.1 NFC Extremity SAR

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				MEASUREMENT RESULTS				
FREQUI	ENCY		Drift Power	Phantom	Device	Duty	10 g	Plots
MHz	Ch	Mode	[dB]	Position	Serial Number	Cycle (%)	SAR (W/kg)	#
13.6	13600	NFC	-0.060	0 mm [Top]	FCC #1	100	0.004	
13.6	13600	NFC	0.000	0 mm [Bottom]	FCC #1	100	0.001	
13.6	13600	NFC	-0.010	0 mm [Front]	FCC #1	100	0.002	
13.6	13600	NFC	0.010	0 mm [Rear]	FCC #1	100	0.087	A36
13.6	13600	NFC	-0.030	0 mm [Right]	FCC #1	100	0.001	
13.6	13600	NFC	-0.060	0 mm [Left]	FCC #1	100	0.002	
			C95.1-1992– SAFETY LIMIT Spatial Peak sure/General Population Exposur	е		4.0	Extremity W/kg (mW/g) ged over 10 gram	

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11.6 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.

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- 2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
- 3. Liquid tissue depth was at least 15.0 cm for all frequencies.
- 4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units
- 5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- 6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
- 7. Per FCC KDB Publication 648474 D04v01r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported boy-worn SAR was not > 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were performed.
- 8. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated.
- 9. SAR measurements were performed using the DASY5 automated system. The procedure for spatial peak SAR evaluation has been implemented according to the IEEE 1528 standard. During a maximum search, global and local maxima searches are automatically performed in 2-D after each area scan measurement. The algorithm will find the global maximum and all local maxima within 2 dB of the global maximum for all SAR distributions. All local maxima within 2 dB of the global maximum were searched and passed for the Zoom Scan measurement.

GSM Notes:

- 1. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
- 2. This device supports GSM VOIP in the head and body-worn configurations; therefore GPRS was additionally evaluated for head and body-worn compliance.
- 3. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR.
- 4. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). Since the maximum output power variation across the required test channels is not > ½ dB, the middle channel was used for testing.



WCDMA (UMTS) Notes:

1. WCDMA (UMTS) mode in was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25 dB higher than the RMC level and SAR was less than 1.2 W/kg.

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2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel was used.

LTE Notes:

- 1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r05. The general test procedures used for testing can be found in Section 8.4.4.
- 2. According to FCC KDB 941225 D05v02r05, when the reported SAR is ≤ 0.8 W/kg, testing of the 100% RB allocation and required test channels is not required.
 - Otherwise, SAR is required for the remaining required test channels using the 1 RB, 50% RB and 100% RB allocation with highest output power for that channel.
 - Only one channel, and as reported SAR values for 1 RB allocation and 50% RB allocation were less than 1.45 W/kg only the highest power RB offset for each allocation was required.
- 3. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36. 101 Section 6.2.3 6.2.5 under Table 6.2.3-1.
- 4. A-MPR was disabled for all SAR tests by setting NS=1 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
- 5. Per FCC KDB Publication 447498 D01v06, when the reported (scaled) for LTE Band 41 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
- 6. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r05. Testing was performed using UL-DL configuration 0 with 6 UL sub frames and 2S sub frames using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Sec. 4, the duty factor using extended cyclic prefix is 0.633 (cf=1.58).
- 7. SAR test reduction is applied using the following criteria:
 - Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is > 0.8 W/kg, testing for other channels is performed at the highest output power level for 1 RB, and 50% RB configuration for that channel. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg, Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg. Testing for 16QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/kg and its output power is not more than 0.5 dB higher than that a QPSK. Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is < 1.45 W/kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.

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WLAN Notes:

The initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.

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- 2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n) was not required duo to the maximum allowed powers and the highest reported DSSS SAR when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output and the adjust SAR is ≤ 1.2 W/kg.
- 3. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg.
- 4. When the maximum reported 1g averaged SAR ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg or all test channels were measured.
- 5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor to determine compliance.

Bluetooth Notes:

- 1. Bluetooth SAR was measured with the device connected to a call with hopping disabled with DH5 operation and Tx test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 100% transmission duty factor to determine compliance. Refer to section 9.5 for the time-domain plot and calculation for the duty factor of the device.
- 2. Head and hotspot Bluetooth SAR were evaluated for BT tethering applications.



12. FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

12.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to handsets with built-in unlicensed transmitters such as 802.11b/g/n and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

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12.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the sum 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is $\leq 1.6 \, \text{W/kg}$. The different test positon in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1-g or 10-g SAR.

12.3 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06.

Table 12.3.1 Simultaneous SAR Cases

No.	Capable Transmit Configuration	Head SAR	Body-Worn SAR	Hotspot SAR	Phablet SAR	Note
1	GSM Voice + Wi-Fi 2.4 GHz	Yes	Yes	N/A	Yes	
2	GSM Voice + Wi-Fi 5 GHz	Yes	Yes	N/A	Yes	
3	GSM Voice + Bluetooth 2.4 GHz	Yes^	Yes	N/A	Yes	^Bluetooth Tethering is considered.
4	GSM Voice + Wi-Fi 5 GHz + Bluetooth 2.4 GHz	Yes^	Yes	N/A	Yes	^Bluetooth Tethering is considered.
5	WCDMA + Wi-Fi 2.4 GHz	Yes	Yes	Yes	Yes	
6	WCDMA + Wi-Fi 5 GHz	Yes	Yes	N/A	Yes	
7	WCDMA + Bluetooth 2.4 GHz	Yes^	Yes	Yes	Yes	^Bluetooth Tethering is considered.
8	WCDMA + Wi-Fi 5 GHz + Bluetooth 2.4 GHz	Yes^	Yes	Yes	Yes	^Bluetooth Tethering is considered.
9	LTE + Wi-Fi 2.4 GHz	Yes	Yes	Yes	Yes	
10	LTE + Wi-Fi 5 GHz	Yes	Yes	N/A	Yes	
11	LTE + Bluetooth 2.4 GHz	Yes^	Yes	Yes	Yes	^Bluetooth Tethering is considered.
12	LTE + Wi-Fi 5 GHz + Bluetooth 2.4 GHz	Yes^	Yes	Yes	Yes	^Bluetooth Tethering is considered.
13	GPRS + Wi-Fi 2.4 GHz	Yes*	Yes*	Yes	Yes	*Pre-installed VOIP applications are considered.
14	GPRS + Wi-Fi 5 GHz	Yes*	Yes*	N/A	Yes	*Pre-installed VOIP applications are considered.
15	GPRS + Bluetooth 2.4 GHz	Yes*^	Yes*	Yes	Yes	*Pre-installed VOIP applications are considered. ^Bluetooth Tethering is considered.
16	GPRS + Wi-Fi 5 GHz + Bluetooth 2.4 GHz	Yes*^	Yes*	Yes	Yes	*Pre-installed VOIP applications are considered. ^Bluetooth Tethering is considered.

Notes

- 1. WiFi 2.4GHz is supported Hotspot and WiFi-Direct(GO/GC).
- WiFi 5GHz is not supported Hotspot and WiFi-Direct(GO/GC)
- LTE, WCDMA, GPRS is supported Hotspot
 VoIP is supported in LTE, WCDMA, GSM.
- GSM, WCDMA and LTE can not transmit simultaneously since they share the same chip.

12.4 Head SAR Simultaneous Transmission Analysis

Table 12.2 Simultaneous Transmission Scenario: 2G/3G/4G + 2.4 GHz W-LAN + 5 GHz W-LAN + BT + BT LE (Held to Ear)

Exp.	Mode	Configuration	2G/3G/4G SAR (W/kg)	2.4G W-LAN SAR (W/kg)	5G W-LAN SAR (W/kg)	BT SAR (W/kg)		ΣSAR (W	//kg)	
Con.	111		1	2	3	4	1+2	1+3	1+4	1+3+4
		Left Touch	0.395	0.099	0.061	0.043	0.494	0.456	0.439	0.499
	GSM 850	Right Touch	0.393	0.201	0.393	0.096	0.594	0.786	0.489	0.882
	G3W 630	Left Tilt	0.220	0.093	0.102	0.034	0.314	0.322	0.254	0.357
		Right Tilt	0.212	0.160	0.116	0.078	0.372	0.328	0.290	0.405
		Left Touch	0.398	0.099	0.061	0.043	0.497	0.459	0.441	0.502
	GPRS 850	Right Touch	0.394	0.201	0.393	0.096	0.595	0.787	0.490	0.884
	GFK3 630	Left Tilt	0.206	0.093	0.102	0.034	0.299	0.308	0.240	0.342
		Right Tilt	0.186	0.160	0.116	0.078	0.346	0.302	0.264	0.380
		Left Touch	0.050	0.099	0.061	0.043	0.149	0.111	0.094	0.154
	GSM 1900	Right Touch	0.115	0.201	0.393	0.096	0.316	0.509	0.212	0.605
	G3W 1900	Left Tilt	0.019	0.093	0.102	0.034	0.112	0.121	0.053	0.155
		Right Tilt	0.020	0.160	0.116	0.078	0.180	0.136	0.098	0.213
		Left Touch	0.053	0.099	0.061	0.043	0.151	0.113	0.096	0.157
	GPRS 1900	Right Touch	0.114	0.201	0.393	0.096	0.315	0.508	0.211	0.604
	GFK3 1900	Left Tilt	0.018	0.093	0.102	0.034	0.111	0.120	0.052	0.154
		Right Tilt	0.020	0.160	0.116	0.078	0.180	0.136	0.098	0.214
		Left Touch	0.526	0.099	0.061	0.043	0.625	0.587	0.570	0.630
	WCDMA 850	Right Touch	0.577	0.201	0.393	0.096	0.778	0.971	0.673	1.067
	WCDINA 630	Left Tilt	0.326	0.093	0.102	0.034	0.419	0.428	0.360	0.463
		Right Tilt	0.229	0.160	0.116	0.078	0.389	0.345	0.307	0.423
		Left Touch	0.081	0.099	0.061	0.043	0.180	0.141	0.124	0.185
	WCDMA 1700	Right Touch	0.100	0.201	0.393	0.096	0.301	0.493	0.196	0.589
	WCDMA 1700	Left Tilt	0.017	0.093	0.102	0.034	0.111	0.120	0.052	0.154
Head		Right Tilt	0.025	0.160	0.116	0.078	0.185	0.141	0.103	0.218
SAR		Left Touch	0.107	0.099	0.061	0.043	0.206	0.168	0.151	0.212
	WCDMA 1900	Right Touch	0.215	0.201	0.393	0.096	0.416	0.608	0.311	0.705
	WCDMA 1900	Left Tilt	0.015	0.093	0.102	0.034	0.108	0.117	0.049	0.151
		Right Tilt	0.028	0.160	0.116	0.078	0.188	0.144	0.106	0.221
		Left Touch	0.152	0.099	0.061	0.043	0.250	0.212	0.195	0.256
	LTE Band 12	Right Touch	0.150	0.201	0.393	0.096	0.351	0.544	0.247	0.640
	LIE Band 12	Left Tilt	0.094	0.093	0.102	0.034	0.187	0.196	0.128	0.230
		Right Tilt	0.099	0.160	0.116	0.078	0.259	0.215	0.177	0.292
		Left Touch	0.471	0.099	0.061	0.043	0.570	0.532	0.515	0.575
	LTE Band 5	Right Touch	0.420	0.201	0.393	0.096	0.621	0.813	0.516	0.909
	LIE Band 5	Left Tilt	0.243	0.093	0.102	0.034	0.337	0.346	0.278	0.380
		Right Tilt	0.226	0.160	0.116	0.078	0.386	0.342	0.304	0.420
		Left Touch	0.114	0.099	0.061	0.043	0.213	0.175	0.158	0.218
	LTE Band 4	Right Touch	0.048	0.201	0.393	0.096	0.249	0.442	0.145	0.538
	LIE Band 4	Left Tilt	0.029	0.093	0.102	0.034	0.122	0.131	0.063	0.165
		Right Tilt	0.005	0.160	0.116	0.078	0.165	0.121	0.083	0.198
		Left Touch	0.156	0.099	0.061	0.043	0.255	0.217	0.200	0.260
	LTE Band 2	Right Touch	0.177	0.201	0.393	0.096	0.378	0.570	0.273	0.667
	LIE Band 2	Left Tilt	0.032	0.093	0.102	0.034	0.125	0.134	0.066	0.168
		Right Tilt	0.032	0.160	0.116	0.078	0.191	0.147	0.109	0.225
		Left Touch	0.325	0.099	0.061	0.043	0.423	0.385	0.368	0.429
		Right Touch	0.155	0.201	0.393	0.096	0.356	0.548	0.251	0.644
	LTE Band 41	Left Tilt	0.055	0.093	0.102	0.034	0.148	0.157	0.089	0.191
		Right Tilt	0.092	0.160	0.116	0.078	0.252	0.208	0.170	0.285

12.5 Body-Worn Simultaneous Transmission Analysis

Table 12.3 Simultaneous Transmission Scenario: 2G/3G/4G + 2.4 GHz W-LAN + 5 GHz W-LAN + BT + BT LE (Body-Worn at 10 mm)

Exp. Con.	Mode	Configuration	2G/3G/4G SAR (W/kg)	2.4G W-LAN SAR (W/kg)	5G W-LAN SAR (W/kg)	BT SAR (W/kg)		ΣSAR (W	//kg)	
Con.			1	2	3	4	1+2	1+3	1+4	1+3+4
	GSM 850	Front	0.366	0.047	0.044	0.053	0.413	0.410	0.419	0.463
	G3M 630	Rear	0.479	0.127	0.172	0.087	0.606	0.651	0.566	0.738
	GPRS 850	Front	0.376	0.047	0.044	0.053	0.423	0.421	0.429	0.473
	GFK3 630	Rear	0.483	0.127	0.172	0.087	0.610	0.655	0.570	0.742
	GSM 1900	Front	0.398	0.047	0.044	0.053	0.445	0.442	0.451	0.495
	G3W 1900	Rear	0.738	0.127	0.172	0.087	0.865	0.910	0.825	0.997
	GPRS 1900	Front	0.374	0.047	0.044	0.053	0.420	0.418	0.426	0.471
	GFK3 1900	Rear	0.734	0.127	0.172	0.087	0.861	0.906	0.821	0.993
	WCDMA 850	Front	0.438	0.047	0.044	0.053	0.485	0.482	0.491	0.535
	WCDINA 830	Rear	0.685	0.127	0.172	0.087	0.813	0.858	0.772	0.945
	WCDMA 1700	Front	0.421	0.047	0.044	0.053	0.467	0.465	0.474	0.518
Body-Worn	WCDINA 1700	Rear	0.794	0.127	0.172	0.087	0.922	0.967	0.881	1.054
SAR	WCDMA 1900	Front	0.541	0.047	0.044	0.053	0.588	0.586	0.594	0.638
	WCDINA 1900	Rear	1.161	0.127	0.172	0.087	1.289	1.333	1.248	1.420
	LTE Band 12	Front	0.262	0.047	0.044	0.053	0.309	0.306	0.315	0.359
	LIE Ballu 12	Rear	0.232	0.127	0.172	0.087	0.359	0.404	0.319	0.491
	LTE Band 5	Front	0.387	0.047	0.044	0.053	0.434	0.431	0.440	0.484
	LIE Ballu 5	Rear	0.596	0.127	0.172	0.087	0.723	0.768	0.683	0.855
	LTE Band 4	Front	0.670	0.047	0.044	0.053	0.717	0.714	0.723	0.767
	LIE Band 4	Rear	0.939	0.127	0.172	0.087	1.067	1.111	1.026	1.198
	LTE Band 2	Front	0.703	0.047	0.044	0.053	0.750	0.748	0.756	0.800
	LIE Band 2	Rear	1.010	0.127	0.172	0.087	1.138	1.183	1.097	1.270
	LTE Band 41	Front	0.100	0.047	0.044	0.053	0.146	0.144	0.152	0.197
	LIE Band 41	Rear	0.386	0.127	0.172	0.087	0.513	0.558	0.473	0.645

12.6 Hotspot SAR Simultaneous Transmission Analysis

Per FCC KDB Publication 941225 D06v02r01, the device edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR ("-").

Table 12.4 Simultaneous Transmission Scenario: 2G/3G/4G + 2.4 GHz W-LAN + 5 GHz W-LAN + BT + BT LE (Hotspot at 10 mm) 2.4G W-LAN SAR (W/kg) GSM 850 GPRS 850 GSM 1900 0.047 0.634 WCDMA 850 WCDMA 1700 Hotspot SAR 0.476 WCDMA 1900 LTE Band 5 LTE Band 4 0.44 LTE Band 2 0.040 0.35 LTE Band 41

12.7 Phablet SAR Simultaneous Transmission Analysis

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required of Hotspot 1g SAR (scaled to maximum output power, including tolerance) < 1.2 W/kg. Therefore no further analysis was required to for Phablet Simultaneous Transmission Analysis.

12.8 Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013 Section 6.3.4.1.2.

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13. SAR MEASUREMENT VARIABILITY

13.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

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SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1. When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2. A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 3. A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
- 4. Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
- The same procedures should be adapted for measurements according to extremity exposure limits by applying a factor of 2.5 for extremity exposure to the corresponding SAR thresholds.

Table 13.1 Body SAR Measurement Variability Results

									-				
Frequency		Mode	Service	# of Time Slots	Spacing [Side]	Measured SAR (1g)	1st Repeated SAR(1g)	Ratio	2nd Repeated SAR(1g)	Ratio	3rd Repeated SAR(1g)	Ratio	
MHz	Ch.					(W/kg)	(W/kg)		(W/kg)		(W/kg)		
1 907.6	9538	WCDMA 1900	RMC	-	10 mm [Rear]	0.885	0.882	1.00	÷	-	•	-	
ANSI / IEEE C95.1-1992- SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population Exposure Uncontrolled Exposure/General Population Exposure							Body 1.6 W/kg (mWg) averaced over 1 gram						

13.2 Measurement Uncertainty

The measured SAR was < 1.5 W/kg for 1g and < 3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.



14. EQUIPMENT LIST

Туре	Manufacturer	Model	Cal.Date	Next.Cal.Date	S/N
SEMITEC Engineering	SEMITEC	N/A	N/A	N/A	Shield Room
SEMITEC Engineering	SEMITEC	N/A	N/A	N/A	Shield Room
Robot	SPEAG	TX60L	N/A	N/A	F14/5VR2A1/A/01
Robot	SPEAG	TX90XL	N/A	N/A	F14/5WV5D1/A/01
Robot Controller	SPEAG	CS8C	N/A	N/A	F14/5VR2A1/C/01
Robot Controller	SPEAG	CS8C	N/A	N/A	F14/5WV5D1/C/01
Joystick	SPEAG	N/A	N/A	N/A	D21142605A
Joystick	SPEAG	P21142605A	N/A	N/A	005695
Intel Xeon W-2 255 3.70 GHz Windows 11 Pro	N/A	N/A	N/A	N/A	N/A
Intel Xeon W-2 255 3.70 GHz Windows 11 Pro	N/A	N/A	N/A	N/A	N/A
Probe Alignment Unit LB	N/A	N/A	N/A	N/A	SE UKS 030 AA
Probe Alignment Unit LB	N/A	N/A	N/A	N/A	SE UKS 030 AA
Device Holder	SPEAG	SD000H01HA	N/A	N/A	N/A
Device Holder	SPEAG	SD000H01HA	N/A	N/A	N/A
Twin SAM Phantom	SPEAG	QD000P40CD	N/A	N/A	1220
2mm Oval Phantom ELI5	SPEAG	QDOVA002AA	N/A	N/A	1166
Twin SAM Phantom	SPEAG	QD000P40CD	N/A	N/A	1837
Data Acquisition Electronics	SPEAG	DAE4V1	2023-07-17	2024-07-17	1335
Data Acquisition Electronics Data Acquisition Electronics	SPEAG	DAE4V1	2022-08-19	2023-08-19	1396
Dosimetric E-Field Probe	SPEAG	EX3DV4	2023-03-22	2024-03-22	3916
Dosimetric E-Field Probe	SPEAG	EX3DV4	2023-05-22	2024-03-22	3866
Dosimetric E-Field Probe	SPEAG	EX3DV4	2023-03-04	2024-03-04	7337
Confined Loop Antenna (13 MHz)	SPEAG	CLA13		2023-11-07	1030
750 MHz SAR Dipole	SPEAG	D750V3	2022-11-07 2023-01-21	2025-01-21	1030
835 MHz SAR Dipole	SPEAG	D835V2	2023-01-21	2025-01-21	464
1 800MHz SAR Dipole	SPEAG	D1800V2	2023-04-20	2025-03-01	2d047
1 900 MHz SAR Dipole	SPEAG	D1900V2	2023-04-18	2025-04-18	5d029
2 450 MHz SAR Dipole	SPEAG	D2450V2	2023-07-19	2025-07-19	726
2 600MHz SAR Dipole	SPEAG	D2600V2	2023-01-20	2025-01-20	1016
5 GHz SAR Dipole	SPEAG	D5GHzV2	2023-01-25	2025-01-25	1103
Signal Generator	Agilent	E4438C	2023-06-24	2024-06-24	US41461520
Amplifier	RFBAY.Inc	MPA-40-40	2022-12-16	2023-12-16	21151801
Amplifier	EMPOWER	BBS3Q7ELU	2023-06-24	2024-06-24	1020
High Power RF Amplifier	EMPOWER	BBS3Q8CCJ	2023-06-24	2024-06-24	1005
Power Meter	HP	EPM-442A	2022-12-16	2023-12-16	GB37170267
Power Meter	Anritsu	ML2488B	2022-12-16	2023-12-16	0846003
Power Sensor	Anritsu	MA2472D	2022-12-16	2023-12-16	0845419
Power Sensor	HP	8481A	2022-12-16	2023-12-16	2702A65976
Power Sensor	HP	8481A	2022-12-16	2023-12-16	2702A61707
Dual Directional Coupler	Agilent	778D-012	2022-12-16	2023-12-16	50399
Directional Coupler	HP	772D	2022-12-16	2023-12-16	2839A00902
Low Pass Filter 1 GHz	Wainwright Instruments	WLK6-1000-1400-9000-60SS	2023-06-24	2024-06-24	165
Low Pass Filter 1.5 GHz	Micro LAB	LA-15N	2023-06-24	2024-06-24	2
Low Pass Filter 3.0 GHz	MICROLAB	LA-30N	2023-06-24	2024-06-24	2
Low Pass Filter 6.0 GHz	MICROLAB	LA-60N	2022-12-16	2023-12-16	03942
Attenuators(10 dB)	WEINSCHEL	23-10-34	2022-12-16	2023-12-16	BP4387
Attenuators	Saluki	3.5TS2-3dB-26.5G	2023-06-23	2024-06-23	21090703
Dielectric Probe kit	SPEAG	DAKS-12	2022-11-08	2023-11-08	1040
	SPEAG SPEAG	R60	2022-11-28	2023-11-28 2024-07-17	22323001
Dielectric Probe kit	SPEAG SPEAG	DAK-3.5 R140	2023-07-17 2023-07-31	2024-07-17	1046 0101213
8960 Series 10 Wireless Comms. Test Set	Agilent	E5515C	2023-06-24	2024-06-24	GB41321164
Wideband Radio Communication Tester	Rohde Schwarz	CMW500	2022-12-16	2023-12-16	101414
Wideband Radio Communication Tester Bluetooth Tester	Rohde Schwarz TESCOM	CMW500 TC-3000C	2022-12-16 2023-06-23	2023-12-16 2024-06-23	166448 3000C000563

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NOTE(S):

1. The E-field probe was calibrated by SPEAG, by temperature measurement procedure. Dipole Verification measurement is performed by DI&C before each test. The brain and muscle simulating material are calibrated by Dt&C using the dielectric probe system and network analyzer to determine the conductivity and permittivity (dielectric constant) of the brain and muscle-equivalent material. Each equipment item was used solely within its respective calibration period.

2. CBT(Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.



15. MEASUREMENT UNCERTAINTIES

750 ~ 2 450 MHz Head (SN: 7337)

	Uncertainty	Probability		(Ci)	(Ci)	Standard	Standard	Ci x <i>Ui</i>	Ci x <i>U_i</i>	vi 2 or
Error Description	value %	Distribution	Divisor	1 g	10 g	1 g (%)	10 g (%)	1 g	10 g	Veff
Measurement System							3 ()	.		
Probe calibration	6.0	Normal	1	1	1	6.0	6.0	6.0	6.0	∞
Axial isotropy	4.7	Rectangular	√3	1	1	2.7	2.7	2.7	2.7	∞
Hemispherical isotropy	9.6	Rectangular	√3	1	1	5.5	5.5	5.5	5.5	∞
Boundary Effects	0.8	Rectangular	√3	1	1	0.46	0.46	0.46	0.46	∞
Probe Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	2.7	2.7	∞
Probe modulation response	2.4	Rectangular	√3	1	1	1.4	1.4	1.4	1.4	∞
Detection limits	0.25	Rectangular	√3	1	1	0.14	0.14	0.14	0.14	∞
Readout Electronics	1.0	Normal	1	1	1	1.0	1.0	1.0	1.0	∞
Response time	0.8	Rectangular	√3	1	1	0.46	0.46	0.46	0.46	∞
Integration time	2.6	Rectangular	√3	1	1	1.5	1.5	1.5	1.5	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.8	1.8	1.8	1.8	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.8	1.8	1.8	1.8	∞
Probe Positioner	0.4	Rectangular	√3	1	1	0.23	0.23	0.23	0.23	∞
Probe Positioning	2.9	Rectangular	√3	1	1	1.7	1.7	1.7	1.7	∞
Spatial x-y-Resolution	10.0	Rectangular	√3	1	1	5.8	5.8	5.8	5.8	∞
Fast SAR z-Approximation	7.0	Rectangular	√3	1	1	4.0	4.0	4.0	4.0	∞
Test Sample Related				•	•		•			
Device Positioning	2.9	Normal	1	1	1	2.9	2.9	2.9	2.9	145
Device Holder	3.6	Normal	1	1	1	3.6	3.6	3.6	3.6	5
Power Drift	5.0	Rectangular	√3	1	1	2.9	2.9	2.9	2.9	∞
SAR Scaling	2.0	Rectangular	√3	1	1	1.2	1.2	1.2	1.2	∞
Physical Parameters										
Phantom Shell	7.6	Rectangular	√3	1	1	4.4	4.4	4.4	4.4	∞
Liquid conductivity (Target)	5.0	Rectangular	√3	0.64	0.43	1.8	1.2	1.2	0.5	∞
Liquid conductivity (Meas.)	3.9	Normal	1	0.78	0.71	3.0	2.8	2.4	2.0	10
Liquid permittivity (Target)	5.0	Rectangular	√3	0.60	0.49	1.7	1.4	1.0	0.7	∞
Liquid permittivity (Meas.)	3.7	Normal	1	0.23	0.26	0.85	1.0	0.21	0.27	10
Temp. unc Conductivity	1.8	Rectangular	√3	0.78	0.71	0.81	0.74	0.63	0.52	∞
Temp. unc Permittivity	1.9	Rectangular	√3	0.23	0.26	0.25	0.29	0.06	0.07	8
Combined Standard Uncertainty						13	13			330
Expanded Uncertainty (k=2)						26	26			

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 $U(1 g) = k \cdot u_c$ = 2 · 13 %

= 26 % (The confidence level is about 95 % k = 2)

 $U(10 g) = k \cdot u_c$

= 2 · 13 %

= 26 % (The confidence level is about 95 % k = 2)



750 ~ 2 600 MHz Head (SN: 3866)

	Uncertainty	Probability		(Ci)	(Ci)	Standard	Standard	Ci x <i>Ui</i>	Ci x U _i	vi 2 or
Error Description	value %	Distribution	Divisor	1 g	10 g	1 g (%)	10 g (%)	1 g	10 g	Veff
Measurement System										
Probe calibration	6.0	Normal	1	1	1	6.0	6.0	6.0	6.0	∞
Axial isotropy	4.7	Rectangular	√3	1	1	2.7	2.7	2.7	2.7	∞
Hemispherical isotropy	9.6	Rectangular	√3	1	1	5.5	5.5	5.5	5.5	∞
Boundary Effects	0.8	Rectangular	√3	1	1	0.46	0.46	0.46	0.46	8
Probe Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	2.7	2.7	8
Probe modulation response	2.4	Rectangular	√3	1	1	1.4	1.4	1.4	1.4	∞
Detection limits	0.25	Rectangular	√3	1	1	0.14	0.14	0.14	0.14	∞
Readout Electronics	1.0	Normal	1	1	1	1.0	1.0	1.0	1.0	8
Response time	0.8	Rectangular	√3	1	1	0.46	0.46	0.46	0.46	∞
Integration time	2.6	Rectangular	√3	1	1	1.5	1.5	1.5	1.5	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.8	1.8	1.8	1.8	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.8	1.8	1.8	1.8	8
Probe Positioner	0.4	Rectangular	√3	1	1	0.23	0.23	0.23	0.23	∞
Probe Positioning	2.9	Rectangular	√3	1	1	1.7	1.7	1.7	1.7	∞
Spatial x-y-Resolution	10.0	Rectangular	√3	1	1	5.8	5.8	5.8	5.8	∞
Fast SAR z-Approximation	7.0	Rectangular	√3	1	1	4.0	4.0	4.0	4.0	8
Test Sample Related		•		•	•					•
Device Positioning	2.9	Normal	1	1	1	2.9	2.9	2.9	2.9	145
Device Holder	3.6	Normal	1	1	1	3.6	3.6	3.6	3.6	5
Power Drift	5.0	Rectangular	√3	1	1	2.9	2.9	2.9	2.9	∞
SAR Scaling	2.0	Rectangular	√3	1	1	1.2	1.2	1.2	1.2	∞
Physical Parameters										
Phantom Shell	7.6	Rectangular	√3	1	1	4.4	4.4	4.4	4.4	∞
Liquid conductivity (Target)	5.0	Rectangular	√3	0.64	0.43	1.8	1.2	1.2	0.5	∞
Liquid conductivity (Meas.)	4.2	Normal	1	0.78	0.71	3.3	3.0	2.6	2.1	10
Liquid permittivity (Target)	5.0	Rectangular	√3	0.60	0.49	1.7	1.4	1.0	0.7	∞
Liquid permittivity (Meas.)	4.1	Normal	1	0.23	0.26	0.94	1.1	0.22	0.28	10
Temp. unc Conductivity	2.0	Rectangular	√3	0.78	0.71	0.90	0.82	0.70	0.58	∞
Temp. unc Permittivity	2.1	Rectangular	√3	0.23	0.26	0.28	0.32	0.06	0.08	∞
Combined Standard Uncertainty						13	13			330
Expanded Uncertainty (k=2)						26	26			

 $U(1 g) = k \cdot u_c$

^{= 2 · 13 %}

^{= 26 % (}The confidence level is about 95 % k = 2)

 $U(10 g) = k \cdot u_c$ = 2 · 13 %

^{= 26 % (}The confidence level is about 95 % k = 2)



5 GHz Head (SN: 3866)

	Uncertainty	Probability		(Ci)	(Ci)	Standard	Standard	Ci x <i>Ui</i>	Ci x <i>U</i> _i	vi 2 or
Error Description	value %	Distribution	Divisor	1 g	10 g	1 g (%)	10 g (%)	1 g	10 g	Veff
Measurement System				· 3	1.09	19(11)	10 9 (11)	. 9	10 3	
Probe calibration	6.6	Normal	1	1	1	6.6	6.6	6.6	6.6	∞
Axial isotropy	4.7	Rectangular	√3	1	1	2.7	2.7	2.7	2.7	∞
Hemispherical isotropy	9.6	Rectangular	√3	1	1	5.5	5.5	5.5	5.5	∞
Boundary Effects	0.8	Rectangular	√3	1	1	0.46	0.46	0.46	0.46	∞
Probe Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	2.7	2.7	∞
Probe modulation response	2.4	Rectangular	√3	1	1	1.4	1.4	1.4	1.4	∞
Detection limits	0.25	Rectangular	√3	1	1	0.14	0.14	0.14	0.14	∞
Readout Electronics	1.0	Normal	1	1	1	1.0	1.0	1.0	1.0	∞
Response time	0.8	Rectangular	√3	1	1	0.46	0.46	0.46	0.46	∞
Integration time	2.6	Rectangular	√3	1	1	1.5	1.5	1.5	1.5	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.8	1.8	1.8	1.8	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.8	1.8	1.8	1.8	∞
Probe Positioner	0.4	Rectangular	√3	1	1	0.23	0.23	0.23	0.23	∞
Probe Positioning	2.9	Rectangular	√3	1	1	1.7	1.7	1.7	1.7	∞
Spatial x-y-Resolution	3.0	Rectangular	√3	1	1	5.8	5.8	5.8	5.8	∞
Fast SAR z-Approximation	3.0	Rectangular	√3	1	1	4.0	4.0	4.0	4.0	∞
Test Sample Related				.1	1			······································	1	.1
Device Positioning	2.9	Normal	1	1	1	2.9	2.9	2.9	2.9	145
Device Holder	3.6	Normal	1	1	1	3.6	3.6	3.6	3.6	5
Power Drift	5.0	Rectangular	√3	1	1	2.9	2.9	2.9	2.9	∞
SAR Scaling	2.0	Rectangular	√3	1	1	1.2	1.2	1.2	1.2	∞
Physical Parameters										
Phantom Shell	7.6	Rectangular	√3	1	1	4.4	4.4	4.4	4.4	∞
Liquid conductivity (Target)	5.0	Rectangular	√3	0.64	0.43	1.8	1.2	1.2	0.5	∞
Liquid conductivity (Meas.)	4.0	Normal	1	0.78	0.71	3.1	2.8	2.4	2.0	10
Liquid permittivity (Target)	5.0	Rectangular	√3	0.60	0.49	1.7	1.4	1.0	0.7	∞
Liquid permittivity (Meas.)	3.9	Normal	1	0.23	0.26	0.90	1.0	0.21	0.26	10
Temp. unc Conductivity	2.0	Rectangular	√3	0.78	0.71	0.90	0.82	0.70	0.58	∞
Temp. unc Permittivity	2.0	Rectangular	√3	0.23	0.26	0.27	0.30	0.06	0.08	∞
Combined Standard Uncertainty						14	13			330
Expanded Uncertainty (k=2)						28	26			

 $U(1 g) = k \cdot u_c$

^{= 28 % (}The confidence level is about 95 % k = 2)

 $U(10 g) = k \cdot u_c$ = 2 · 13 %

^{= 26 % (}The confidence level is about 95 % k = 2)



13 MHz Head (SN: 3916)

	Uncertainty	Probability		(Ci)	(Ci)	Standard	Standard	Ci x <i>U</i> _i	Ci x <i>Ui</i>	vi 2 or
Error Description	value %	Distribution	Divisor	1 g	10 g	1 g (%)	10 g (%)	1 g	10 g	Veff
Measurement System										
Probe calibration	6.7	Normal	1	1	1	6.7	6.7	6.7	6.7	∞
Axial isotropy	4.7	Rectangular	√3	1	1	2.7	2.7	2.7	2.7	∞
Hemispherical isotropy	9.6	Rectangular	√3	1	1	5.5	5.5	5.5	5.5	∞
Boundary Effects	0.8	Rectangular	√3	1	1	0.46	0.46	0.46	0.46	∞
Probe Linearity	4.7	Rectangular	√3	1	1	2.7	2.7	2.7	2.7	∞
Probe modulation response	2.4	Rectangular	√3	1	1	1.4	1.4	1.4	1.4	∞
Detection limits	0.3	Rectangular	√3	1	1	0.14	0.14	0.14	0.14	∞
Readout Electronics	1.0	Normal	1	1	1	1.0	1.0	1.0	1.0	∞
Response time	0.8	Rectangular	√3	1	1	0.46	0.46	0.46	0.46	∞
Integration time	2.6	Rectangular	√3	1	1	1.5	1.5	1.5	1.5	∞
RF Ambient Conditions – Noise	3.0	Rectangular	√3	1	1	1.8	1.8	1.8	1.8	∞
RF Ambient Conditions – Reflections	3.0	Rectangular	√3	1	1	1.8	1.8	1.8	1.8	∞
Probe Positioner	0.4	Rectangular	√3	1	1	0.23	0.23	0.23	0.23	∞
Probe Positioning	2.9	Rectangular	√3	1	1	1.7	1.7	1.7	1.7	∞
Spatial x-y-Resolution	10.0	Rectangular	√3	1	1	5.8	5.8	5.8	5.8	∞
Fast SAR z-Approximation	7.0	Rectangular	√3	1	1	4.0	4.0	4.0	4.0	∞
Test Sample Related		•		•	•			•		
Device Positioning	2.9	Normal	1	1	1	2.9	2.9	2.9	2.9	145
Device Holder	3.6	Normal	1	1	1	3.6	3.6	3.6	3.6	5
Power Drift	5.0	Rectangular	√3	1	1	2.9	2.9	2.9	2.9	∞
SAR Scaling	2.0	Rectangular	√3	1	1	1.2	1.2	1.2	1.2	∞
Physical Parameters		•		•	•			•		
Phantom Shell	7.6	Rectangular	√3	1	1	4.4	4.4	4.4	4.4	∞
Liquid conductivity (Target)	5.0	Rectangular	√3	0.64	0.43	1.8	1.2	1.2	0.5	∞
Liquid conductivity (Meas.)	3.5	Normal	1	0.78	0.71	2.7	2.5	2.1	1.8	10
Liquid permittivity (Target)	5.0	Rectangular	√3	0.60	0.49	1.7	1.4	1.0	0.7	∞
Liquid permittivity (Meas.)	3.8	Normal	1	0.23	0.26	0.87	1.0	0.20	0.26	10
Temp. unc Conductivity	1.9	Rectangular	√3	0.78	0.71	0.86	0.78	0.67	0.55	∞
Temp. unc Permittivity	2.0	Rectangular	√3	0.23	0.26	0.27	0.30	0.06	0.08	∞
Combined Standard Uncertainty						14	13			330
Expanded Uncertainty (k=2)						28	26	_		

 $U(1 g) = k \cdot u_c$

^{= 28 % (}The confidence level is about 95 % k = 2)

 $U(10 g) = k \cdot u_c$ = 2 · 13 %

^{= 26 % (}The confidence level is about 95 % k = 2)



16. CONCLUSION

Measurement Conclusion

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the FCC. These measurements are taken to simulate the RF effects exposure under the worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The tested device complies with the requirements in respect to all parameters subject to the test. The test results and statements relate only to the item(s) tested.

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Please note that the absorption and distribution of electromagnetic energy in the body are every complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role impossible biological effect are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease).

Because innumerable factors may interact to determine the specific biological outcome of an exposure to electromagnetic fields, any protection guide shall consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

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[30] Anexo à Resolução No. 533, de 10 de September de 2009.

[31] IEC 62209-2, 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), Mar. 2010.

TRF-RF-601(03)161101 Pages: 71 /220

APPENDIX A. – Probe Calibration Data



Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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

Accreditation No.: SCS 0108

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

Client

Dt&C

Gyeonggi-do, Republic of Korea

Certificate No.

EX-7337_Apr23

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7337

Calibration procedure(s)

QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,

QA CAL-25.v8

Calibration procedure for dosimetric E-field probes

Calibration date

April 24, 2023

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
OCP DAK-3.5 (weighted)	SN: 1249	20-Oct-22 (OCP-DAK3.5-1249 Oct22)	Oct-23
OCP DAK-12	SN: 1016	20-Oct-22 (OCP-DAK12-1016 Oct22)	Oct-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	30-Mar-23 (No. 217-03809)	Mar-24
DAE4	SN: 660		10000000
Reference Probe ES3DV2	SN: 3013		7-746 85 7
DAE4 Reference Probe ES3DV2	SN: 660	16-Mar-23 (No. DAE4-660_Mar23) 06-Jan-23 (No. ES3-3013_Jan23)	Mar-24 Mar-24

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Name

Function

Laboratory Technician

Approved by

Calibrated by

Sven Kühn

Aidonia Georgiadou

Technical Manager

Issued: April 26, 2023

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

Certificate No: EX-7337_Apr23

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Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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S Swiss Calibration Service

Accreditation No.: SCS 0108

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Glossary

TSL fissue 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 modulation dependent linearization parameters

Polarization φ φ rotation around probe axis

Polarization θ or rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta = 0$ is

normal to probe axis

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

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- 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. 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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Parameters of Probe: EX3DV4 - SN:7337

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm (μV/(V/m) ²) A	0.64	0.67	0.54	±10.1%
DCP (mV) B	107.0	103.0	101.0	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	C	dB	WR mV	Max dev.	Max Unc ^E k = 2	
0	CW	X	0.00	0.00	1.00	0.00	122.6	±1.1%	±4.7%	
		Y	0.00	0.00	1.00		132.5	200		
		Z	0.00	0.00	1.00		132.8			
10352	Pulse Waveform (200Hz, 10%)	X	1.48	60.37	6.06	10.00	60.0	±2.7%	±9.6%	
		Y	12.00	74.00	11.00	10.00	60.0		3.0	
	A STATE OF THE STA	Z	20.00	90.34	19.94		60.0			
10353	Pulse Waveform (200Hz, 20%)	X	0.84	60.00	4.76	6.99	80.0	±2.4%	±9.6%	
	The second secon	Y	20.00	74.00	9.00	1000	80.0	1000	70.50	
		Z	20.00	92.94	20.00		80.0	-		
10354	Pulse Waveform (200Hz, 40%)	X	6.00	66.00	5.00	3.98	95.0	±2.5%	±2.5%	±9.6%
		Y	0.12	139.76	0.30		95.0		2519.8	
		Z	20.00	96.20	20.05	4.675	95.0			
10355	Pulse Waveform (200Hz, 60%)	X	8.66	159.13	14.25	2.22	120.0	±1.5%	±9.6%	
	3.50 3 35 34.41.41.41	Y	5.84	160,00	15.25		120.0		-717	
	and the second area of the second	Z	20.00	95.05	18.14		120.0			
10387	QPSK Waveform, 1 MHz	X	0.48	63.00	11.51	1.00	150.0	±3.8%	±9.6%	
	200000000000000000000000000000000000000	Y	0.46	62.04	11.30		150.0	23.035		
		Z	1.41	63.30	12.96		150.0			
10388	QPSK Waveform, 10 MHz	X	1.25	65.49	13.37	0.00	150.0	±1.0%	±9.69	
	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	Y	1.22	64.96	13.22	0.00	150.0	1.076	10.07	
		Z	1.86	64.94	13.74		150.0			
10396	64-QAM Waveform, 100 kHz	X	1.79	65.66	16.32	3.01	150.0	±1.2%	±9.6%	
	The state of the s	Y	1.63	64.03	15.80	0.07	150.0	211210	20.076	
		2	2.68	69.29	18.02		150.0			
10399	64-QAM Waveform, 40 MHz	X	2.75	66.20	14.90	0.00	150.0	±2.4%	±9.6%	
		Y	2.72	65.85	14.81	2,23	150.0		_0.07	
	A Total Control of the Control	Z	3.23	65.61	14.71		150.0			
10414	WLAN CCDF, 64-QAM, 40 MHz	X	3.70	65.89	15.08	0.00	150.0	±4.5%	±9.6%	
		Y	3.82	66.26	15.33	4000	150.0		20.07	
		Z	4.66	64.85	14.91	1 - 1	150.0			

Note: For details on UID parameters see Appendix

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

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

B Linearization parameter uncertainty for maximum specified field strength.

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

EX3DV4 - SN:7337 April 24, 2023

Parameters of Probe: EX3DV4 - SN:7337

Sensor Model Parameters

	C1 fF	C2 fF	ν-1	T1 msV ⁻²	T2 ms V ⁻¹	T3 ms	T4 V-2	T5 V-1	T6
X	9.1	65.06	32.65	4.53	0.00	4.91	0.65	0.00	1.00
У	9.1	66.23	33.66	2.71	0.00	4.90	0.30	0.01	1.00
Z	45.1	336.19	35.17	9.63	0.00	5.09	1.62	0.13	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	38.2°
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.

EX3DV4 - SN:7337 April 24, 2023

Parameters of Probe: EX3DV4 - SN:7337

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
750	41.9	0.89	9.31	9.07	10.09	0.39	1.27	±12.0%
835	41.5	0.90	9.23	8.84	9.76	0.38	1.27	±12.0%
900	41.5	0.97	9,22	8.74	9.64	0.39	1.27	±12.0%
1750	40.1	1.37	8.17	7.85	8.91	0.27	1.27	±12.0%
1900	40.0	1.40	7.85	7.62	8.47	0.29	1.27	±12.0%
2450	39.2	1.80	7.09	6.89	7.68	0.31	1.27	±12.0%
2600	39.0	1.96	7.05	6.86	7.63	0.30	1.27	±12.0%
5200	36.0	4.66	5.36	5.29	5.92	0.30	1.70	±14.0%
5300	35.9	4.76	5.19	5.09	5,70	0.33	1.67	±14.0%
5500	35.6	4.96	4.83	4.77	5.31	0.37	1.61	±14.0%
5600	35.5	5.07	4.70	4.64	5.19	0.36	1.66	±14.0%
5800	35.3	5.27	4.92	4.78	5.37	0.35	1.86	±14.0%

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 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

For the probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than $\pm 5\%$ from the target values (typically better than $\pm 3\%$) and are valid for TSL with deviations of up to $\pm 10\%$. If TSL with deviations from the target of less than $\pm 5\%$ are used, the calibration uncontainties are 11.1% for 0.7-3 GHz and 13.1% for 3-6 GHz.

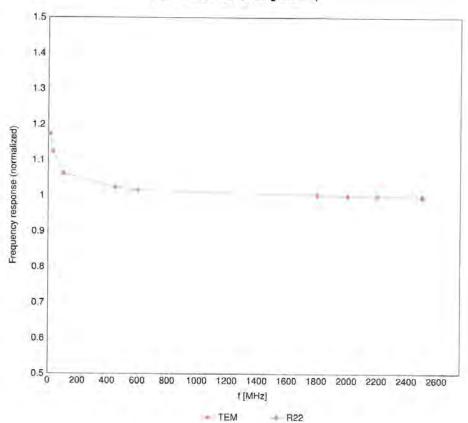
for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

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



Frequency Response of E-Field

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



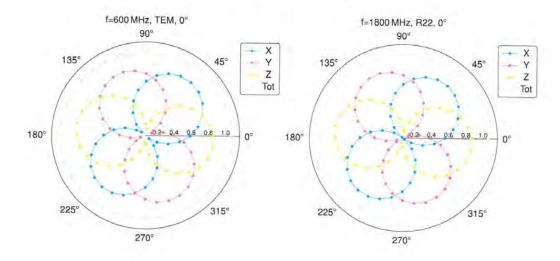
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

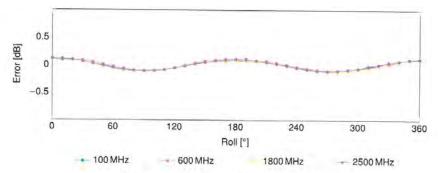
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Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$





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

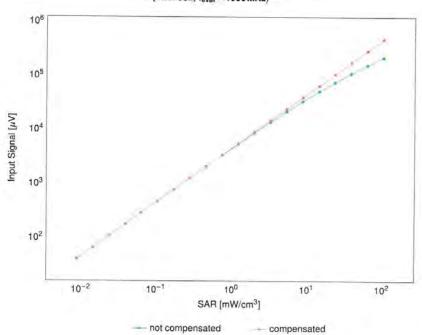
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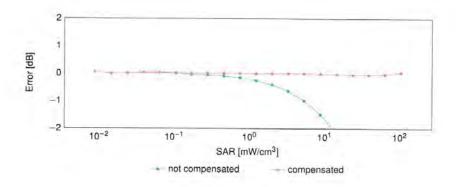
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Dynamic Range f(SARhead)

(TEM cell, f_{eval} = 1900 MHz)





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

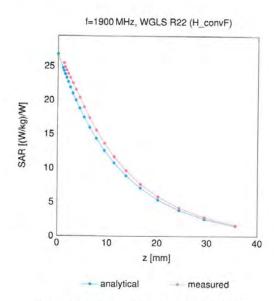
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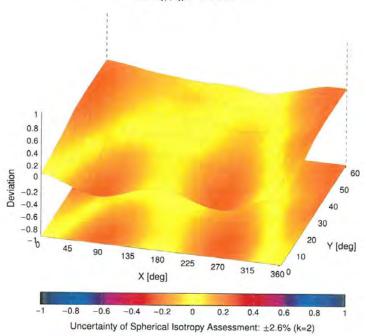
April 24, 2023

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ) , f = 900 MHz



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Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	UncE k = 2
0	-	CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	GAC	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	
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM		
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)		6.56	±9.6
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN D-1)	GSM GSM	12.62	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)		9.55	±9.6
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	4.80	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	3.55	±9.6
10030	CAA	IEEE 802,15.1 Bluetooth (GFSK, DH1)	GSM	7,78	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	5.30	±9.6
10032	CAA		Bluetooth	1.87	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6
10034		IEEE 802 15.1 Bluetooth (PI/4-DOPSK, DH1)	Bluetooth	7.74	±9.6
	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	19.6
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	19.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM		±9.6
10.059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	6.52	±9.6
10060	CAB	IEEE 802 11b WIFI 2.4 GHz (DSSS, 5.5 Mbps)	- Contraction -	2.12	±9.6
10.061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	2.83	±9.6
10062	CAD	IEEE 802,11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	3.60	±9.6
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.68	±9,6
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	8.63	±9,6
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10067	CAD		WLAN	9.38	±9.6
10068	CAD	IEEE 802 11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10003		IEEE 802,11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.5
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	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	10.77	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	19.6
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 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	
10098	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
10099	DAC	EDGE-FDD (TDMA, BPSK, TN 0-4)	GSM		±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)		9.55	±9.6
10101	-	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-OAM)	LTE-FDD	5,67	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.42	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	6.60	±9.6
10104	CAH	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.29	±9,6
10105	70.00		LTE-TOD	9.97	±9.6
10108	-	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
		LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10109		LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
-		LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6
103 1 7 1	CAH	LTE-FDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-FDD	6.44	±9.6

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April 24, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	UncE k =
10112	-	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6
10113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10114	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAD	IEEE 802.11π (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
10116	CAD	JEEE 802,11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10117	CAD	IEEE 802.11rr (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	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FOD	6.35	±9.6
10144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FOD	6.41	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TOD	10.05	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FOD	6.43	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	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	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FOD	5.73	±9.6
10170	CAF	LTE-FDD (SG-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6
101.73	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TOD	9.48	±9.6
10174	CAH	LTE-TDD (SG-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TOD	10.25	±9.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6
10176		LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9,6
10177		LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6
10178		LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10179		LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10180		LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10181		LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6
10182		LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
0.183		LTE-FDD (SC-FDMA, 1 RB, 15MHz, 64-QAM).	LTE-FDD	6.50	19.6
0184		LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
0185		LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
0186		LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
0187		LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
0188		LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
0189		LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	8.50	±9.6
0193		IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
0194		IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
0195		IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
0196		IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
0197		IEEE 802,11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6
0198		IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6
0219		IEEE 802.11n (HT Mixed, 7,2 Mbps, BPSK)	WLAN	8.03	±9.6
0220		IEEE 802,11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
0221		IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
0222	CAD	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
4.00		DEED BOOK AND ALTERNATION AND AND AND AND AND AND AND AND AND AN		2,00	79.0
0223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	UncE k = 2
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 BB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TOD	9.22	±9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD		±9.6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	9.48	±9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK)		10.25	±9.6
10235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TOD	9.21	±9.6
10236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TOD	9.48	±9.6
10237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TOD	10.25	±9.6
10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-TOD	9.21	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	9.48	±9.6
10240	CAG		LTE-TDD	10.25	±9.6
10241	CAC	LTE TOD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-TDD	9.21	±9.6
10242		LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6
	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TOD	10.06	±9.6
10246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3MHz, QPSK)	LTE-TDD	9.30	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)	LTE-TDD	9.91	±9.6
10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)	LTE-TDD	10.09	±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TOD		±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)		9.81	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	10.17	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.24	±9.6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TOD	9.90	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	10.14	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.20	±9.6
10257	CAC		LTE-TDD	9.96	±9.6
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6
The State of		LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TOD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK)	LTE-TDD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-TDD	9.83	±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)	LTE-TOD	10.16	±9.6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6
10267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)	LTE-TDD		±9.6
10270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK)		10/13	±9.6
10274	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rei8.10)	LTE-TDD	9,58	±9.6
10275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rei8.4)	WCDMA	4.87	±9.6
10277	CAA	PHS (QPSK)	WCDMA	3.96	±9.6
10278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
10279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	11.81	±9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rate	PHS	12.18	±9,6
			CDMA2000	3.91	±9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6
10298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
10299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6,60	
10301	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WiMAX	12.03	±9.6
10302	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)			±9.6
10303		IEEE 802.16e WIMAX (31:15, 5ms, 10 MHz, 640AM, PUSC)	WIMAX.	12.57	±9.6
10304	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WIMAX	12.52	±9.6
10305		IEEE B02.16e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WIMAX	11.86	±9.6
10306	AAA	IEEE 802.166 WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WiMAX	15.24	±9.6
	THE TOTAL STREET	THE POLICE WHINAY (53.10, 10 IIIS, 10 MHZ, 64QAM, PUSC, 18 SYMBOLS)	WIMAX	14.67	±9.6

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10308	ation System Name	Group	PAR (dB)	UncE k =
10309 AAA IEEE 802.16 10310 AAA IEEE 802.16 10311 AAA IDEN 1.3 10313 AAA IDEN 1.3 10314 AAA IDEN 1.3 10315 AAB IEEE 802.11 10315 AAB IEEE 802.11 10316 AAB IEEE 802.11 10317 AAD IEEE 802.11 10317 AAD IEEE 802.11 10352 AAA PUISE Waveld 10353 AAA PUISE Waveld 10353 AAA PUISE Waveld 10354 AAA PUISE Waveld 10355 AAA PUISE Waveld 10356 AAA PUISE Waveld 10357 AAA OPSK Waveld 10387 AAA OPSK Waveld 10388 AAA OPSK Waveld 10380 AAA GEEE 802.11 10400 AAE IEEE 802.11 10400 AAE IEEE 802.11 10401 AAB CDMA2000 (1) 10404 AAB CDMA2000 (1) 10406 AAB CDMA2000 (1) 10416 AAA IEEE 802.11 10416 AAA IEEE 802.11 10417 AAC IEEE 802.11 10418 AAA IEEE 802.11 10419 AAA IEEE 802.11 10410 AAE IEEE 802.11 10410 AAE IEEE 802.11 10411 AAA IEEE 802.11 10412 AAC IEEE 802.11 10413 AAB IEEE 802.11 10424 AAC IEEE 802.11 10425 AAC IEEE 802.11 10426 AAC IEEE 802.11 10427 AAC IEEE 802.11 10428 AAC IEEE 802.11 10429 AAC IEEE 802.11 10420 AAE IEEE 802.11 10421 AAC IEEE 802.11 10422 AAC IEEE 802.11 10423 AAC IEEE 802.11 10424 AAC IEEE 802.11 10425 AAC IEEE 802.11 10426 AAC IEEE 802.11 10427 AAC IEEE 802.11 10428 AAC IEEE 802.11 10430 AAE LTE-FDD (OFI 10431 AAE LTE-FDD (OFI 10432 AAD LTE-FDD (OFI 10433 AAD LTE-FDD (OFI 10434 AAB W-CDMA (BS 10455 AAC IEEE 802.11 10446 AAC IEEE 802.11 10447 AAE LTE-FDD (OFI 10448 AAE LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10459 AAA CDMA2000 (I) 10460 AAB UMTS-FDD (VI 10464 AAC IEEE 802.11 10465 AAC IEEE 802.11 10466 AAC IEEE 802.11 10467 AAC IEEE 802.11 10468 AAC IEEE 802.11 10469 AAD LTE-FDD (OFI 10460 AAB UMTS-FDD (VI 10460 AAB UMTS-FDD (VI 10460 AAB UMTS-FDD (VI 10460 AAC IEEE 802.11 10460 AAC	6e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WiMAX	14.49	±9.6
10310 AAA IEEE 802.116 10311 AAA IDEN 1:3 10314 AAA IDEN 1:6 10315 AAB IEEE 802.116 10315 AAB IEEE 802.111 10316 AAB IEEE 802.111 10317 AAD IEEE 802.111 10317 AAD IEEE 802.111 10318 AAA Pulse Waveld 10352 AAA Pulse Waveld 10353 AAA Pulse Waveld 10353 AAA Pulse Waveld 10354 AAA Pulse Waveld 10355 AAA Pulse Waveld 10356 AAA Pulse Waveld 10357 AAA Pulse Waveld 10358 AAA Pulse Waveld 10359 AAA Pulse Waveld 10350 AAA Pulse Waveld 10351 AAA Pulse Waveld 10351 AAA Pulse Waveld 10352 AAA Pulse Waveld 10353 AAA Pulse Waveld 10354 AAA Pulse Waveld 10355 AAA Pulse Waveld 10356 AAA Pulse Waveld 10357 AAA OPSK Waveld 10358 AAA OPSK Waveld 10360 AAB IEEE 802.113 10400 AAE IEEE 802.113 10401 AAE IEEE 802.113 10401 AAE IEEE 802.113 10402 AAE IEEE 802.113 10403 AAB CDMA2000 (1) 10404 AAB CDMA2000 (1) 10405 AAB IEEE 802.113 10416 AAA IEEE 802.113 10417 AAC IEEE 802.113 10418 AAA IEEE 802.113 10419 AAA IEEE 802.113 10424 AAC IEEE 802.113 10425 AAC IEEE 802.113 10426 AAC IEEE 802.113 10427 AAC IEEE 802.113 10428 AAC IEEE 802.113 10429 AAC IEEE 802.113 10420 AAE ITE-FDD (OFI 10431 AAE ITE-FDD (OFI 10432 AAD ITE-FDD (OFI 10433 AAD ITE-FDD (OFI 10434 AAB W-CDMA (BS 10455 AAC IEEE 802.113 10449 AAD ITE-FDD (OFI 10449 AAB UTE-FDD (OFI 10449 AAB UTE-FDD (OFI 10449 AAB UTE-FDD (OFI 10455 AAC IEEE 802.113 10455 AAC IEEE 802.113 10456 AAC IEEE 802.113 10457 AAB W-CDMA (BS 10458 AAC IEEE 802.113 10458 AAC IEEE 802.113 10459 AAA UTE-FDD (OFI 10468 AAD UTE-FDD (OFI 10468 AAD UTE-FDD (OFI 10468 AAD UTE-FDD (OFI 10468 AAC UTE	6e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WIMAX	14.46	±9.6
10311	6e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WIMAX	14.58	±9.6
10313 AAA IDEN 1.3 10314 AAA IDEN 1.3 10314 AAA IDEN 1.6 10315 AAB IEEE 802.111 10316 AAB IEEE 802.111 10317 AAD IEEE 802.111 10317 AAD IEEE 802.111 10352 AAA PUISE Waveld 10353 AAA PUISE Waveld 10354 AAA PUISE Waveld 10355 AAA PUISE Waveld 10356 AAA PUISE Waveld 10356 AAA PUISE Waveld 10356 AAA PUISE Waveld 10357 AAA OPSK Waveld 10388 AAA OPSK Waveld 10389 AAA 64-QAM Wav 10399 AAA 64-QAM Wav 10400 AAE IEEE 802.112 10401 AAE IEEE 802.113 10401 AAE IEEE 802.113 10401 AAE IEEE 802.113 10402 AAE IEEE 802.113 10404 AAB CDMA2000 (1) 10406 AAB CDMA2000 (1) 10406 AAB CDMA2000 (1) 10416 AAA IEEE 802.113 10417 AAC IEEE 802.113 10418 AAA IEEE 802.113 10419 AAA IEEE 802.113 10419 AAA IEEE 802.113 10424 AAC IEEE 802.113 10425 AAC IEEE 802.113 10426 AAC IEEE 802.113 10427 AAC IEEE 802.113 10428 AAC IEEE 802.113 10429 AAC IEEE 802.113 10429 AAC IEEE 802.113 10421 AAC IEEE 802.113 10424 AAC IEEE 802.113 10425 AAC IEEE 802.113 10426 AAC IEEE 802.113 10427 AAC IEEE 802.113 10428 AAC IEEE 802.113 10429 AAC IEEE 802.113 10430 AAE LTE-FDD (OF 10431 AAB W-CDMA (BS 10435 AAG IEEE 802.113 10436 AAC IEEE 802.113 10437 AAB UTE-FDD (OF 10438 AAC IEEE 802.113 10449 AAD LTE-FDD (OF 10449 AAC IEEE 802.113 10459 AAC IEEE 802.113 10460 AAB UMTS-FDD (VIII) 10460 AAB UMTS-FDD (VIII) 10460 AAB UMTS-FDD (VIII) 10461 AAC IEEE 802.113 10460 AAB UMTS-FDD (VIII)	Se WiMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols) SC-FDMA, 100% RB, 15 MHz, QPSK)	WIMAX	14.57	±9.6
10314 AAA IDEN 1:6 10315 AAB IEEE 802.111 10316 AAB IEEE 802.111 10317 AAD IEEE 802.111 10352 AAA Pulse Waveld 10353 AAA Pulse Waveld 10353 AAA Pulse Waveld 10354 AAA Pulse Waveld 10355 AAA Pulse Waveld 10355 AAA Pulse Waveld 10356 AAA Pulse Waveld 10357 AAA OPSK Waveld 10387 AAA OPSK Waveld 10388 AAA OPSK Waveld 10389 AAA GA-QAM Wav 10399 AAA GA-QAM Wav 10400 AAE IEEE 802.112 10401 AAE IEEE 802.113 10401 AAE IEEE 802.113 10401 AAE IEEE 802.113 10402 AAE IEEE 802.113 10401 AAB CDMA2000 (10404 AAB CDMA2000 (10404 AAB CDMA2000) 10404 AAB CDMA2000 (10404 AAA IEEE 802.113 10415 AAA IEEE 802.113 10416 AAA IEEE 802.113 10417 AAC IEEE 802.113 10418 AAA IEEE 802.113 10419 AAA IEEE 802.113 10424 AAC IEEE 802.113 10425 AAC IEEE 802.113 10426 AAC IEEE 802.113 10427 AAC IEEE 802.113 10428 AAC IEEE 802.113 10429 AAC IEEE 802.113 10430 AAE LTE-FDD (OFI 10431 AAE LTE-FDD (OFI 10432 AAC IEEE 802.113 10433 AAC IEEE 802.113 10444 AAC IEEE 802.113 10445 AAC IEEE 802.113 10446 AAC IEEE 802.113 10447 AAC IEEE 802.113 10448 AAE LTE-FDD (OFI 10443 AAB W-CDMA (BS 10455 AAC IEEE 802.113 10449 AAD LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10449 AAB W-CDMA (BS 10459 AAC IEEE 802.113 10460 AAB UMTS-FDD (OFI 10450 AAC IEEE 802.113 10454 AAC IEEE 802.113 10454 AAC IEEE 802.113 10454 AAC IEEE 802.113 10460 AAB UMTS-FDD (OFI 10460 AAB UT	00-FDMA, 100% RB, 15 MHZ, QPSK)	LTE-FDD	6.06	±9.6
10.315		IDEN	10.51	±9.6
10316	1b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	IDEN	13.48	±9.6
10317 AAD IEEE 802.111 10352 AAA Pulse Wavelct 10353 AAA Pulse Wavelct 10353 AAA Pulse Wavelct 10355 AAA Pulse Wavelct 10356 AAA GEEE 802.111 10400 AAE IEEE 802.111 10401 AAE IEEE 802.111 10403 AAB CDMA2000 (1) 10404 AAB CDMA2000 (1) 10404 AAB CDMA2000 (1) 10405 AAB CDMA2000 (1) 10415 AAA IEEE 802.111 10416 AAA IEEE 802.111 10417 AAC IEEE 802.111 10418 AAA IEEE 802.111 10420 AAC IEEE 802.111 10421 AAC IEEE 802.111 10422 AAC IEEE 802.111 10423 AAC IEEE 802.111 10424 AAC IEEE 802.111 10425 AAC IEEE 802.111 10426 AAC IEEE 802.111 10427 AAC IEEE 802.111 10428 AAC IEEE 802.111 10429 AAA IEEE 802.111 10420 AAC IEEE 802.111 10431 AAB LTE-FDD (OFI 10432 AAD LTE-FDD (OFI 10433 AAD LTE-FDD (OFI 10434 AAB W-CDMA (BS 10457 AAB UATE-FDD (OFI 10458 AAC IEEE 802.111 10459 AAA CDMA2000 (1) 10450 AAB UATS-FDD (OFI 10458 AAC IEEE 802.111 10459 AAA CDMA2000 (1) 10450 AAB UATS-FDD (OFI 10458 AAC IEEE 802.110 10459 AAA CDMA2000 (1) 10459 AAA CDMA2000 (1) 10459 AAA CDMA2000 (1) 10459 AAA CDMA2000 (1) 10450 AAB UATS-FDD (OFI 10458 AAC IEEE 802.110 10459 AAC IEEE 802.110 10450 AAB UATS-FDD (OFI 10458 AAC IEEE 802.110 10459 AAC IEEE 802.110 10450 AAB UATS-FDD (OFI 10458 AAC IEEE 802.110 10459 AAC IEEE 802.110 10450 AAB UATS-FDD (OFI 10458 AAC IEEE 802.110 10450 AAC IEEE 802.110 10450 AAB UATS-FDD (OFI 10458 AAC IEEE 802.110 10468 AAC IEEE 802.110 10468 AAC IEEE 802.1	10 WIFI 2 4 GHZ (USSS, 1 Mops, 96pc duty cycle)	WLAN	1.71	±9.6
10352 AAA Pulse Wavefer 10353 AAA Pulse Wavefer 10354 AAA Pulse Wavefer 10354 AAA Pulse Wavefer 10355 AAA Pulse Wavefer 10355 AAA Pulse Wavefer 10356 AAA OPSK Wavefer 10356 AAA GEEE 802.118 10400 AAE IEEE 802.118 10401 AAE IEEE 802.118 10404 AAB CDMA2000 (10404 AAB CDMA2000 (10404 AAB CDMA2000 (10405 AAA IEEE 802.118 10415 AAA IEEE 802.118 10415 AAA IEEE 802.118 10416 AAA IEEE 802.118 10424 AAC IEEE 802.118 10424 AAC IEEE 802.118 10425 AAC IEEE 802.118 10426 AAC IEEE 802.118 10427 AAC IEEE 802.118 10427 AAC IEEE 802.118 10427 AAC IEEE 802.118 10426 AAC IEEE 802.118 10427 AAC IEEE 802.118 10428 AAC IEEE 802.118 10430 AAE LTE-FDD (OFI 10431 AAB LTE-FDD (OFI 10432 AAD LTE-FDD (OFI 10433 AAD LTE-FDD (OFI 10434 AAB W-CDMA (BS 10455 AAG IEEE 802.118 10456 AAC IEEE 802.118 10456 AAC IEEE 802.118 10456 AAC IEEE 802.118 10457 AAB W-CDMA (BS 10456 AAC IEEE 802.118 10458 AAA LTE-FDD (OFI 10459 AAA CDMA2000 (1 10458 AAC IEEE 802.118 10458 AAC LTE-FDD (SC-10468 AAC LTE	Ig WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle) Ta WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10353 AAA Pulse Waveld 10354 AAA Pulse Waveld 10355 AAA Pulse Waveld 10355 AAA Pulse Waveld 10356 AAA Pulse Waveld 10387 AAA OPSK Waveld 10388 AAA OPSK Waveld 10398 AAA 64-QAM Wav 10399 AAA 64-QAM Wav 10400 AAE IEEE 802.11a 10401 AAE IEEE 802.11a 10402 AAE IEEE 802.11a 10402 AAE IEEE 802.11a 10404 AAB CDMA2000 (1 10404 AAB CDMA2000 (1 10406 AAB CDMA2000 (1 10410 AAH LTE-TDD (SC 10417 AAA IEEE 802.11a 10418 AAA IEEE 802.11a 10419 AAA IEEE 802.11a 10419 AAA IEEE 802.11a 10410 AAB IEEE 802.11a 10411 AAB IEEE 802.11a 10412 AAC IEEE 802.11a 10424 AAC IEEE 802.11a 10425 AAC IEEE 802.11a 10426 AAC IEEE 802.11a 10427 AAC IEEE 802.11a 10428 AAC IEEE 802.11a 10429 AAC IEEE 802.11a 10420 AAE LTE-FDD (OFI 10431 AAB W-CDMA (BS 10435 AAB LTE-FDD (OFI 10431 AAB LTE-FDD (OFI 10432 AAC IEEE 802.11a 10433 AAD LTE-FDD (OFI 10434 AAB W-CDMA (BS 10435 AAG IEEE 802.11a 10446 AAC IEEE 802.11a 10447 AAC IEEE 802.11a 10448 AAE LTE-FDD (OFI 10448 AAE LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10449 AAB W-CDMA (BS 10455 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10458 AAB W-CDMA (BS 10457 AAB U-CDMA (BS 10458 AAC IEEE 802.11a 10458 AAC IEEE 802.11a 10458 AAC IEEE 802.11a 10458 AAC IEEE 802.11a 10460 AAB U-TE-TDD (SC 10464 AAC IEEE S0.11a 10464 AAC IEEE S0.11a 10465 AAC IEEE S0.11a 10466 AAC IEEE S0.11a 10467 AAC IEEE S0.11a 10468 AAC IEEE S0.11a 10468 AAC IEEE S0.11a 10468 AAC IEEE S0.11a 10468 AAC IEEE S0.11a 10469 AAC IEEE S0.11a 10460 AAB U-TE-TDD (SC 104648 AAC IEEE S0.11a 10468 AAC IEEE S0.11a		WLAN	8.36	±9.6
10354 AAA PUIS Wavelot 10355 AAA PUIS Wavelot 10356 AAA PUIS Wavelot 10366 AAA OPSK Wavelot 10387 AAA OPSK Wavelot 10388 AAA OPSK Wavelot 10396 AAA 64-QAM Wav 10399 AAA 64-QAM Wav 10399 AAA 64-QAM Wav 10399 AAA 64-QAM Wav 10399 AAA 64-QAM Wav 10390 AAE IEEE 802.11a 10401 AAE IEEE 802.11a 10402 AAE IEEE 802.11a 10402 AAE IEEE 802.11a 10403 AAB CDMA2000 (1 10406 AAB CDMA2000 (1 10406 AAB CDMA2000 (1 10410 AAH LTE-TDD (SC 10414 AAA WLAN CCDF, 10415 AAA IEEE 802.11a 10417 AAC IEEE 802.11a 10418 AAA IEEE 802.11a 10419 AAA IEEE 802.11a 10424 AAC IEEE 802.11a 10425 AAC IEEE 802.11a 10425 AAC IEEE 802.11a 10426 AAG IEEE 802.11a 10427 AAC IEEE 802.11a 10428 AAC IEEE 802.11a 10429 AAC IEEE 802.11a 10420 AAE LTE-FDD (OF 10430 AAE LTE-FDD (OF 10431 AAE LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAC IEEE 802.11a 10447 AAE LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10445 AAC IEEE 802.11a 10447 AAE LTE-FDD (OF 10448 AAE LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAD LTE-FDD (OF 10450 AAC IEEE 802.11a 10451 AAB W-CDMA (BS 10455 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10457 AAB UMTS-FDD (VI 10458 AAC LTE-FDD (OF 10459 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10458 AAC LTE-TDD (SC 10468 AAC LTE-TDD (SC	the state of the s	Generic	10.00	±9.6
10355 AAA Pulse Wavelo 10386 AAA Pulse Wavelo 10387 AAA OPSK Wavelo 10388 AAA OPSK Wavelo 10388 AAA OPSK Wavelo 10388 AAA OPSK Wavelo 10398 AAA 64-QAM Wav 10399 AAA 64-QAM Wav 10400 AAE IEEE 802.11a 10401 AAE IEEE 802.11a 10402 AAE IEEE 802.11a 10403 AAB CDMA2000 (10404 AAB CDMA2000 (10404 AAB CDMA2000 (10405 AAB IEEE 802.11a 10416 AAA IEEE 802.11a 10417 AAC IEEE 802.11a 10418 AAA IEEE 802.11a 10418 AAA IEEE 802.11a 10419 AAA IEEE 802.11a 10419 AAC IEEE 802.11a 10424 AAC IEEE 802.11a 10425 AAC IEEE 802.11a 10426 AAC IEEE 802.11a 10427 AAC IEEE 802.11a 10428 AAC IEEE 802.11a 10429 AAC IEEE 802.11a 10420 AAC IEEE 802.11a 10421 AAC IEEE 802.11a 10423 AAC IEEE 802.11a 10424 AAC IEEE 802.11a 10425 AAC IEEE 802.11a 10426 AAC IEEE 802.11a 10427 AAC IEEE 802.11a 10428 AAC IEEE 802.11a 10429 AAC IEEE 802.11a 10429 AAC IEEE 802.11a 10430 AAE LTE-FDD (OFI 10431 AAE LTE-FDD (OFI 10432 AAC IEEE 802.11a 10434 AAB W-CDMA (BS 10435 AAC IEEE 802.11a 10447 AAC IEEE 802.11a 10447 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10457 AAB UMTS-FDD (OFI 10458 AAC Validation (Sqi 10456 AAC IEEE 802.11a 10457 AAB UMTS-FDD (OFI 10458 AAC IEEE 802.11a 10458 AAC IEEE 802.11a 10459 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10457 AAB UMTS-FDD (OFI 10458 AAC IEEE 802.11a 10458 AAC IEEE 802.11a 10459 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10457 AAB UMTS-FDD (OFI 10458 AAC IEEE 802.11a 10458 AAC IEEE 802.11a 10459 AAC IEEE 802.11a 10459 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10457 AAB UMTS-FDD (OFI 10458 AAC IEEE 802.11a 10459 AAC IEEE 802.11a 10459 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10457 AAB UMTS-FDD (OFI 10458 AAC IEEE 802.11a 10458 AAC IEEE 802.11a 10459 AAC IEEE 802.11a 10459 AAC IEEE 802.11a 10450 AAC IEEE 802.11a 10450 AAC IEEE 802.11a 10456 AAC IEEE 802.11a		Generic	6.99	±9.6
10356 AAA PUIS Wavefor 10387 AAA OPSK Wavefor 10388 AAA OPSK Wavefor 10389 AAA 64-QAM Wavefor 10389 AAA 64-QAM Wavefor 10400 AAE IEEE 802.11a 10400 AAE IEEE 802.11a 10400 AAB CDMA2000 (10404 AAB CDMA2000 (10404 AAB CDMA2000) (10404 AAB CDMA2000) (10415 AAA IEEE 802.11b 10415 AAA IEEE 802.11b 10416 AAA IEEE 802.11b 10417 AAC IEEE 802.11b 10424 AAC IEEE 802.11b 10425 AAC IEEE 802.11b 10426 AAC IEEE 802.11b 10427 AAC IEEE 802.11b 10427 AAC IEEE 802.11b 10430 AAE LTE-FDD (OF 10431 AAB W-CDMA (BS 10435 AAG LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAG LTE-FDD (OF 10444 AAC IEEE 802.11b 10431 AAB W-CDMA (BS 10455 AAC IEEE 802.11a 10455 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10457 AAB W-CDMA (BS 10456 AAC IEEE 802.11a 10457 AAB W-CDMA (BS 10457 AAB W-CDMA (BS 10458 AAC IEEE 802.11a 10459 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10458 AAC LTE-FDD (SC 10468 AAC LTE-FDD		Generic	3.98	±9.6
10387 AAA QPSK Waveli 10398 AAA QPSK Waveli 10398 AAA QPSK Waveli 10399 AAA 64-QAM Wav 10399 AAA 64-QAM Wav 10400 AAE IEEE 802.11a 10401 AAE IEEE 802.11a 10401 AAE IEEE 802.11a 10402 AAE IEEE 802.11a 10404 AAB CDMA2000 (1 10406 AAB CDMA2000 (1 10406 AAB CDMA2000 (1 10410 AAH LTE-TDD (SC 10414 AAA WLAN CCDI 10415 AAA IEEE 802.11a 10415 AAA IEEE 802.11a 10416 AAA IEEE 802.11a 10417 AAC IEEE 802.11a 10419 AAA IEEE 802.11a 10420 AAC IEEE 802.11a 10421 AAC IEEE 802.11a 10422 AAC IEEE 802.11a 10423 AAC IEEE 802.11a 10424 AAC IEEE 802.11a 10425 AAC IEEE 802.11a 10426 AAC IEEE 802.11a 10427 AAC IEEE 802.11a 10428 AAC IEEE 802.11a 10429 AAC IEEE 802.11a 10420 AAE LTE-FDD (OFI 10431 AAE LTE-FDD (OFI 10432 AAD LTE-FDD (OFI 10433 AAD LTE-FDD (OFI 10434 AAB W-CDMA (BSI 10435 AAG IEEE 802.11a 10447 AAE LTE-FDD (OFI 10448 AAE LTE-FDD (OFI 10448 AAE LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10450 AAC IEEE 802.11a 10451 AAB W-CDMA (BSI 10452 AAC IEEE 802.11a 10453 AAE LTE-FDD (OFI 10454 AAB W-CDMA (BSI 10455 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10457 AAB W-CDMA (BSI 10458 AAC IEEE 802.11a 10458 AAC IEEE 802.11a 10459 AAC IEEE 802.11a 10459 AAC IEEE 802.11a 10460 AAB UMTS-FDD (OFI 10464 AAC IEEE 802.11a 10465 AAC IEEE 802.11a 10466 AAC IEEE 802.11a 10466 AAC IEEE 802.11a 10467 AAC IEEE 802.11a 10468 AAC IEEE 802.11a 10468 AAC IEEE 802.11a 10469 AAC IEEE 802.11a 10460 AAB UMTS-FDD (OFI 10464 AAC IEEE 802.11a 10465 AAC IEEE 802.11a 10466 AAC IEEE 802.11a 10466 AAC IEEE 802.11a 10467 AAC IEEE 802.11a 10468 AAC IEEE 802.11a 10468 AAC IEEE 802.11a 10469 AAC IEEE 802.11a 10460 AAB UMTS-FDD (OFI 10464 AAC IEEE 802.11a 10465 AAC IEEE 802.11a 10466 AAC IEEE 802.11a		Generic	2,22	±9.6
10388 AAA QPSK Wavelet 10396 AAA 64-QAM Wav 10399 AAA 64-QAM Wav 10399 AAA 64-QAM Wav 10399 AAA 64-QAM Wav 10400 AAE IEEE 802.11a 10401 AAE IEEE 802.11a 10402 AAE IEEE 802.11a 10402 AAE IEEE 802.11a 10404 AAB CDMA2000 (1 10406 AAB CDMA2000 (1 10406 AAB CDMA2000 (1 10410 AAH LTE-TDD (SC 10415 AAA IEEE 802.11a 10416 AAA IEEE 802.11a 10417 AAC IEEE 802.11a 10418 AAA IEEE 802.11a 10419 AAA IEEE 802.11a 10420 AAC IEEE 802.11a 10421 AAC IEEE 802.11a 10422 AAC IEEE 802.11a 10423 AAC IEEE 802.11a 10424 AAC IEEE 802.11a 10425 AAC IEEE 802.11a 10426 AAG IEEE 802.11a 10427 AAC IEEE 802.11a 10428 AAC IEEE 802.11a 10429 AAC IEEE 802.11a 10420 AAE LTE-FDD (OF 10431 AAE LTE-FDD (OF 10432 AAC IEEE 802.11a 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAG LTE-FDD (OF 10447 AAC IEEE 802.11a 10448 AAE LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10457 AAB U-CDMA (BS 10458 AAC LTE-FDD (OF 10459 AAC LTE-FDD (OF 10459 AAC LTE-FDD (OF 10460 AAB U-TE-FDD (SC 10464 AAC LTE-TDD (SC 10465 AAC LTE-TDD (SC 10468 AAC LTE-TDD (SC		Generic	0.97	±9.6
10396 AAA 64-QAM Waw 10399 AAA 64-QAM Waw 10399 AAA 64-QAM Waw 10400 AAE IEEE 802.11a 10401 AAE IEEE 802.11a 10402 AAE IEEE 802.11a 10402 AAE IEEE 802.11a 10403 AAB CDMA2000 (1) 10404 AAB CDMA2000 (1) 10404 AAB CDMA2000 (1) 10405 AAB CDMA2000 (1) 10410 AAH LTE-TDD (SC 10414 AAA WLAN CCDF, 10415 AAA IEEE 802.11g 10417 AAC IEEE 802.11g 10418 AAA IEEE 802.11g 10419 AAA IEEE 802.11g 10419 AAA IEEE 802.11g 10420 AAC IEEE 802.11g 10421 AAC IEEE 802.11g 10423 AAC IEEE 802.11g 10424 AAC IEEE 802.11g 10425 AAC IEEE 802.11g 10426 AAC IEEE 802.11g 10427 AAC IEEE 802.11g 10428 AAC IEEE 802.11g 10429 AAC IEEE 802.11g 10429 AAC IEEE 802.11g 10421 AAC IEEE 802.11g 10423 AAC IEEE 802.11g 10424 AAC IEEE 802.11g 10425 AAC IEEE 802.11g 10426 AAC IEEE 802.11g 10427 AAC IEEE 802.11g 10428 AAC IEEE 802.11g 10430 AAE LTE-FDD (OF 10431 AAE LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAC IEEE 802.11g 10447 AAC IEEE 802.11g 10448 AAC IEEE 802.11g 10449 AAD LTE-FDD (OF 10449 AAC IEEE 802.11g 10456 AAC IEEE 802.11g 10457 AAB UMTS-FDD (VI 10458 AAC LTE-TDD (SC 10464 AAC LTE-TDD (SC 10464 AAC LTE-TDD (SC 10468 AAC LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC		Generic	5.10	±9.6
10.399 AAA 64-QAM Wav 10.400 AAE IEEE 802.11a 10.401 AAE IEEE 802.11a 10.402 AAE IEEE 802.11a 10.403 AAB CDMA2000 (1 10.404 AAB CDMA2000 (1 10.404 AAB CDMA2000 (1 10.405 AAB CDMA2000 (1 10.406 AAB CDMA2000 (1 10.407 AAH LTE-TDD (SC 10.415 AAA IEEE 802.11a 10.415 AAA IEEE 802.11a 10.416 AAA IEEE 802.11a 10.417 AAC IEEE 802.11a 10.418 AAA IEEE 802.11a 10.419 AAA IEEE 802.11a 10.420 AAC IEEE 802.11a 10.421 AAC IEEE 802.11a 10.422 AAC IEEE 802.11a 10.423 AAC IEEE 802.11a 10.424 AAC IEEE 802.11a 10.425 AAC IEEE 802.11a 10.426 AAC IEEE 802.11a 10.430 AAB LTE-FDD (OFI 10.431 AAB IEEE 802.11a 10.432 AAC IEEE 802.11a 10.433 AAC IEEE 802.11a 10.434 AAB W-CDMA (BS 10.435 AAC IEEE 802.11a 10.436 AAC IEEE 802.11a 10.437 AAC IEEE 802.11a 10.438 AAC IEEE 802.11a 10.449 AAC IEEE 802.11a 10.450 AAC IEEE 802.11a 10.451 AAB W-CDMA (BS 10.453 AAC IEEE 802.11a 10.454 AAC IEEE 802.11a 10.455 AAC IEEE 802.11a 10.456 AAC IEEE 802.11a 10.457 AAB UTE-FDD (OFI 10.458 AAC CDMA2000 (1 10.459 AAC CDMA2000 (1 10.458 AAC LTE-TDD (SC 10.468 AAC LTE-TDD (SC		Géneric	5.22	±9.6
10400 AAE IEEE 802.11a 10401 AAE IEEE 802.11a 10401 AAE IEEE 802.11a 10402 AAE IEEE 802.11a 10404 AAB CDMA2000 (1 10404 AAB CDMA2000 (1 10406 AAB CDMA2000 (1 10416 AAB CDMA2000 (1 10416 AAA IEEE 802.11b 10415 AAA IEEE 802.11b 10416 AAA IEEE 802.11b 10416 AAA IEEE 802.11b 10417 AAC IEEE 802.11g 10424 AAC IEEE 802.11a 10425 AAC IEEE 802.11b 10426 AAC IEEE 802.11b 10427 AAC IEEE 802.11b 10428 AAC IEEE 802.11b 10429 AAC IEEE 802.11b 10420 AAC IEEE 802.11b 10421 AAC IEEE 802.11b 10421 AAC IEEE 802.11b 10422 AAC IEEE 802.11b 10423 AAC IEEE 802.11b 10424 AAC IEEE 802.11b 10425 AAC IEEE 802.11b 10426 AAC IEEE 802.11b 10427 AAC IEEE 802.11b 10428 AAC IEEE 802.11b 10430 AAE LTE-FDD (OFI 10431 AAE LTE-FDD (OFI 10432 AAD LTE-FDD (OFI 10433 AAD LTE-FDD (OFI 10434 AAB W-CDMA (BS 10455 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10457 AAB W-CDMA (BS 10458 AAC IEEE 802.11a 10459 AAC IEEE 802.11a 10460 AAB UMTS-FDD (OFI 10464 AAC IEEE 802.11a 10465 AAC IEEE 802.11a 10466 AAC IEEE 802.11a 10467 AAC IEEE 802.11a 10468 AAC IEEE 802.11a 10469 AAC IEEE 802.11a 10469 AAC IEEE 802.11a 10460 AAB UMTS-FDD (OFI 10464 AAC IEEE 802.11a 10464 AAC IEEE 802.11a 10466 AAC IEEE 802.11a		Generic	6.27	±9.6
10401 AAE IEEE 802.11a 10402 AAE IEEE 802.11a 10403 AAB CDMA2000 (1) 10406 AAB CDMA2000 (1) 10406 AAB CDMA2000 (1) 10406 AAB CDMA2000 (1) 10410 AAH LTE-TDD (SC 10415 AAA IEEE 802.11b 10415 AAA IEEE 802.11b 10416 AAA IEEE 802.11b 10417 AAC IEEE 802.11a 10418 AAA IEEE 802.11g 10419 AAA IEEE 802.11g 10420 AAC IEEE 802.11a 10421 AAC IEEE 802.11a 10423 AAC IEEE 802.11a 10424 AAC IEEE 802.11a 10425 AAC IEEE 802.11a 10426 AAC IEEE 802.11a 10427 AAC IEEE 802.11a 10428 AAC IEEE 802.11a 10429 AAC IEEE 802.11a 10430 AAE LTE-FDD (OFI 10431 AAE LTE-FDD (OFI 10432 AAC IEEE 802.11a 10434 AAB W-CDMA (BS 10435 AAC IEEE 802.11a 10447 AAC ITE-FDD (OFI 10448 AAE LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10449 AAC IEEE 802.11a 10450 AAC IEEE 802.11a 10451 AAB W-CDMA (BS 10452 AAC IEEE 802.11a 10453 AAC IEEE 802.11a 10454 AAB W-CDMA (BS 10455 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10457 AAB U-CDMA (BS 10458 AAC IEEE 802.11a 10458 AAC IEEE 802.11a 10459 AAC LTE-FDD (SC 10462 AAC LTE-TDD (SC 10463 AAC LTE-TDD (SC 10464 AAC LTE-TDD (SC 10465 AAC LTE-TDD (SC 10465 AAC LTE-TDD (SC 10466 AAC LTE-TDD (SC 10468 AAC LTE-TDD (SC 10468 AAC LTE-TDD (SC 10468 AAC LTE-TDD (SC		Generic	6.27	±9.6
10402 AAE IEEE 802.11a 10403 AAB CDMA2000 (1) 10404 AAB CDMA2000 (1) 10406 AAB CDMA2000 (1) 10410 AAH LTE-TDD (SC 10414 AAA WLAN CCDF, 10415 AAA IEEE 802.11a 10415 AAA IEEE 802.11a 10416 AAA IEEE 802.11a 10417 AAC IEEE 802.11a 10418 AAA IEEE 802.11a 10419 AAA IEEE 802.11a 10424 AAC IEEE 802.11a 10425 AAC IEEE 802.11a 10426 AAC IEEE 802.11a 10426 AAC IEEE 802.11a 10427 AAC IEEE 802.11a 10428 AAC IEEE 802.11a 10429 AAC IEEE 802.11a 10420 AAC IEEE 802.11a 10421 AAC IEEE 802.11a 10423 AAC IEEE 802.11a 10424 AAC IEEE 802.11a 10425 AAC IEEE 802.11a 10426 AAC IEEE 802.11a 10427 AAC IEEE 802.11a 10428 AAC IEEE 802.11a 10429 AAC IEEE 802.11a 10429 AAC IEEE 802.11a 10430 AAE LTE-FDD (OFI 10431 AAE LTE-FDD (OFI 10432 AAD LTE-FDD (OFI 10433 AAD LTE-FDD (OFI 10434 AAB W-CDMA (BS 10435 AAC IEEE 802.11a 10457 AAE LTE-FDD (OFI 10449 AAC LTE-FDD (OFI 10449 AAC LTE-FDD (OFI 10449 AAC LTE-FDD (OFI 10450 AAC LTE-FDD (OFI 10451 AAC LTE-FDD (OFI 10453 AAC LTE-FDD (OFI 10454 AAC LTE-FDD (OFI 10455 AAC LTE-FDD (OFI 10456 AAC LTE-FDD (SC-IIIa 10460 AAB UMTS-FDD (SC-IIIIA 10460 AAB UMTS-FDD (SC-IIIIIA 10461 AAC LTE-TDD (SC-IIIIIIIA 10461 AAC LTE-TDD (SC-IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ac WiFi (20 MHz, 64-QAM, 99pc duty cycle) ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
10403 AAB CDMA2000 (10404 AAB CDMA2000) (10406 AAB CDMA2000) (10410 AAA CDMA2000) (10410 AAA CDMA2000) (10415 AAA CEE 802.110 AAA AAA CEE 802.	ac WiFi (40 MHz, 64-QAM, 99pc duty cycle) ac WiFi (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10404 AAB CDMA2000 [10406 AAB CDMA2000] 10410 AAH LTE-TDD (SC		WLAN	8.53	±9.6
10406 AAB CDMA2000, F 10410 AAH LTE-TDD (SC 10411 AAA WLAN CCDF, 10414 AAA WLAN CCDF, 10415 AAA IEEE 802.119 10415 AAA IEEE 802.119 10417 AAC IEEE 802.119 10417 AAC IEEE 802.119 10419 AAA IEEE 802.119 10422 AAC IEEE 802.119 10423 AAC IEEE 802.119 10424 AAC IEEE 802.119 10425 AAC IEEE 802.111 10426 AAC IEEE 802.111 10427 AAC IEEE 802.111 10427 AAC IEEE 802.111 10428 AAC IEEE 802.111 10429 AAC IEEE 802.111 10420 AAE LTE-FDD (OFI 10431 AAE LTE-FDD (OFI 10432 AAD LTE-FDD (OFI 10433 AAD LTE-FDD (OFI 10434 AAB W-CDMA (BSI 10435 AAG LTE-FDD (OFI 10447 AAC IEEE 802.110 10448 AAE LTE-FDD (OFI 10448 AAE LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10450 AAC IEEE 802.110 10451 AAB W-CDMA (BSI 10452 AAC IEEE 802.110 10453 AAC LTE-FDD (OFI 10454 AAC IEEE 802.110 10455 AAC LTE-FDD (OFI 10456 AAC IEEE 802.110 10457 AAB U-CDMA (BSI 10458 AAC IEEE 802.110 10458 AAC LTE-FDD (OFI 10459 AAC LTE-FDD (SC-III) 10462 AAC LTE-TDD (SC-III) 10463 AAC LTE-TDD (SC-III) 10464 AAD LTE-TDD (SC-III) 10465 AAC LTE-TDD (SC-III) 10466 AAD LTE-TDD (SC-IIII) 10467 AAG LTE-TDD (SC-IIIII) 10468 AAG LTE-TDD (SC-IIIIIIII) 10468 AAG LTE-TDD (SC-IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		CDMA2000	3.76	±9.6
10410 AAH LTE-TDD (SC 10414 AAA WLAN CCDF, 10414 AAA WLAN CCDF, 10415 AAA IEEE 802.119 10417 AAC IEEE 802.119 10417 AAC IEEE 802.119 10419 AAA IEEE 802.119 10422 AAC IEEE 802.111 10423 AAC IEEE 802.111 10425 AAC IEEE 802.111 10425 AAC IEEE 802.111 10427 AAC IEEE 802.111 10427 AAC IEEE 802.111 10427 AAC IEEE 802.111 10430 AAE LTE-FDD (OF 10431 AAE LTE-FDD (OF 10432 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAC IEEE 802.117 10430 AAC IEEE 802.117 10431 AAB W-CDMA (BS 10435 AAC IEEE 802.117 10447 AAC ITE-FDD (OF 10447 AAC ITE-FDD (OF 10448 AAC IEEE 802.117 10456 AAC IEEE 802.117 10457 AAB UMTS-FDD (VICTOR) AAB UMTS-FDD (VICTOR) AAB UMTS-FDD (VICTOR) AAC IEEE 802.117 10458 AAC IEEE 802.117 10458 AAC IEEE 802.117 10459 AAC IEEE 80	RC3, SO32, SCH0, Full Rate	CDMA2000	3.77	±9.6
10414 AAA WLAN CCDF, 10415 AAA IEEE 802.118 10416 AAA IEEE 802.118 10417 AAC IEEE 802.118 10419 AAA IEEE 802.119 10419 AAA IEEE 802.119 10429 AAC IEEE 802.119 10420 AAC IEEE 802.119 10421 AAC IEEE 802.111 10423 AAC IEEE 802.111 10425 AAC IEEE 802.111 10426 AAC IEEE 802.111 10427 AAC IEEE 802.111 10428 AAC IEEE 802.111 10429 AAC IEEE 802.111 10420 AAC IEEE 802.111 10430 AAE LTE-FDD (OF 10431 AAB LTE-FDD (OF 10432 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB LTE-FDD (OF 10444 AAC LTE-FDD (OF 10445 AAC IEEE 802.111 10450 AAD LTE-FDD (OF 10446 AAC IEEE 802.111 10450 AAD LTE-FDD (OF 10451 AAB W-CDMA (BS 10453 AAC IEEE 802.111 10450 AAD LTE-FDD (OF 10451 AAB W-CDMA (BS 10453 AAC IEEE 802.111 10454 AAC IEEE 802.111 10455 AAC IEEE 802.111 10456 AAC IEEE 802.111 10457 AAB W-CDMA (BS 10458 AAC IEEE 802.111 10458 AAC IEEE 802.111 10459 AAA CDMA2000 (1) 10459 AAA CDMA2000 (1) 10458 AAC ITE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAC ITE-TDD (SC 10465 AAC ITE-TDD (SC 10466 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC		CDMA2000	5.22	±9.6
10415 AAA IEEE 802.11b 10416 AAA IEEE 802.11g 10417 AAC IEEE 802.11g 10419 AAA IEEE 802.11g 10419 AAA IEEE 802.11g 10424 AAC IEEE 802.11g 10422 AAC IEEE 802.11g 10424 AAC IEEE 802.11n 10425 AAC IEEE 802.11n 10426 AAC IEEE 802.11n 10427 AAC IEEE 802.11n 10427 AAC IEEE 802.11n 10428 AAC IEEE 802.11n 10429 AAC IEEE 802.11n 10430 AAE LTE-FDD (OF 10431 AAB LTE-FDD (OF 10432 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAG LTE-FDD (OF 10447 AAE LTE-FDD (OF 10448 AAE LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAD LTE-FDD (OF 10450 AAD LTE-FDD (OF 10451 AAB W-CDMA (BS 10453 AAE Validation (Sq 10454 AAC IEEE 802.11a 10455 AAC IEEE 802.11a 10450 AAD LTE-FDD (OF 10451 AAB W-CDMA (BS 10453 AAE Validation (Sq 10454 AAC IEEE 802.11a 10455 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10457 AAB UMTS-FDD (W 10458 AAC IEEE 802.11a 10459 AAC CDMA2000 (I 10459 AAC LTE-TDD (SC 10464 AAC LTE-TDD (SC 10465 AAC LTE-TDD (SC 10465 AAC LTE-TDD (SC 10468 AAC LTE-TDD (SC	C-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4.7,8,9, Subframe Cont=4)	LTE-TOD	7,82	±9.6
10416 AAA IEEE 802.11g 10417 AAC IEEE 802.11g 10417 AAC IEEE 802.11g 10419 AAA IEEE 802.11g 10419 AAA IEEE 802.11g 10422 AAC IEEE 802.11g 10423 AAC IEEE 802.11g 10424 AAC IEEE 802.11g 10425 AAC IEEE 802.11g 10426 AAC IEEE 802.11g 10427 AAC IEEE 802.11g 10427 AAC IEEE 802.11g 10427 AAC IEEE 802.11g 10428 AAC IEEE 802.11g 10430 AAE LTE-FDD (OFI 10431 AAE LTE-FDD (OFI 10432 AAD LTE-FDD (OFI 10433 AAD LTE-FDD (OFI 10434 AAB W-CDMA (BSI 10435 AAG LTE-FDD (OFI 10448 AAE LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10450 AAC IEEE 802.11g 10451 AAB W-CDMA (BSI 10452 AAC IEEE 802.11g 10453 AAC LTE-FDD (OFI 10454 AAC IEEE 802.11g 10455 AAC IEEE 802.11g 10456 AAC IEEE 802.11g 10457 AAB U-CDMA (BSI 10458 AAC IEEE 802.11g 10459 AAC LTE-TDD (SCI 10462 AAC LTE-TDD (SCI 10463 AAC LTE-TDD (SCI 10464 AAD LTE-TDD (SCI 10465 AAC LTE-TDD (SCI 10465 AAC LTE-TDD (SCI 10466 AAC LTE-TDD (SCI 10468 AAG LTE-TDD (SCI		Generic	8.54	±9.6
10417 AAC IEEE 802.118 10419 AAA IEEE 802.119 10419 AAA IEEE 802.119 10422 AAC IEEE 802.119 10423 AAC IEEE 802.110 10424 AAC IEEE 802.110 10425 AAC IEEE 802.110 10426 AAC IEEE 802.110 10427 AAC IEEE 802.110 10427 AAC IEEE 802.110 10427 AAC IEEE 802.110 10428 AAC IEEE 802.110 10429 AAC IEEE 802.110 10430 AAE LTE-FDD (OF 10431 AAE LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAG LTE-FDD (OF 10447 AAE LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAC IEEE 802.110 10450 AAC IEEE 802.110 10451 AAB W-CDMA (BS 10456 AAC IEEE 802.110 10457 AAB UMTS-FDD (OF 10450 AAC IEEE 802.110 10451 AAC LTE-TDD (SC 10462 AAC LTE-TDD (SC 10462 AAC LTE-TDD (SC 10463 AAC LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAC LTE-TDD (SC 10466 AAD LTE-TDD (SC 10467 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC	b WiFi 2 4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10418 AAA IEEE 802.11g 10419 AAA IEEE 802.11g 10422 AAC IEEE 802.11g 10423 AAC IEEE 802.11g 10424 AAC IEEE 802.11g 10425 AAC IEEE 802.11g 10426 AAC IEEE 802.11g 10427 AAC IEEE 802.11g 10427 AAC IEEE 802.11g 10428 AAC IEEE 802.11g 10430 AAE ITE-FDD (OF 10431 AAE ITE-FDD (OF 10432 AAD ITE-FDD (OF 10432 AAD ITE-FDD (OF 10434 AAB ITE-FDD (OF 10435 AAC ITE-FDD (OF 10447 AAE ITE-FDD (OF 10448 AAE ITE-FDD (OF 10449 AAD ITE-FDD (OF 10449 AAD ITE-FDD (OF 10449 AAD ITE-FDD (OF 10450 AAC IEEE 802.11g 10450 AAC IEEE 802.11g 10450 AAC IEEE 802.11g 10451 AAB W-CDMA (BS 10453 AAE Validation (Sq 10454 AAC IEEE 802.11g 10455 AAC IEEE 802.11g 10456 AAC IEEE 802.11g 10457 AAB UMTS-FDD (VI 10458 AAC IEEE 802.11g 10459 AAA CDMA2000 (1) 10459 AAA CDMA2000 (1) 10459 AAA CDMA2000 (1) 10459 AAC ITE-TDD (SC 10466 AAB IMTS-FDD (VI 10462 AAC ITE-TDD (SC 10465 AAC ITE-TDD (SC 10466 AAD ITE-TDD (SC 10466 AAG ITE-TDD (SC 10466 AAG ITE-TDD (SC 10466 AAG ITE-TDD (SC	g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10419 AAA IEEE 802.11g 10422 AAC IEEE 802.11g 10423 AAC IEEE 802.11g 10424 AAC IEEE 802.11g 10425 AAC IEEE 802.11g 10426 AAC IEEE 802.11g 10426 AAC IEEE 802.11g 10427 AAC IEEE 802.11g 10427 AAC IEEE 802.11g 10428 AAC IEEE 802.11g 10430 AAE LTE-FDD (OF 10431 AAB LTE-FDD (OF 10432 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAG LTE-FDD (OF 10444 AAE LTE-FDD (OF 10445 AAC LTE-FDD (OF 10446 AAC IEEE 802.11g 10450 AAD LTE-FDD (OF 10451 AAB W-CDMA (BS 10453 AAC IEEE 802.11g 10454 AAC IEEE 802.11g 10455 AAC IEEE 802.11g 10456 AAC IEEE 802.11g 10457 AAB UMTS-FDD (W 10458 AAC IEEE 802.11g 10459 AAA CDMA2000 (1) 10459 AAA CDMA2000 (1) 10459 AAC LTE-TDD (SC 10462 AAC LTE-TDD (SC 10463 AAC LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAC LTE-TDD (SC 10466 AAD LTE-TDD (SC 10467 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC		WLAN	8.23	±9.6
10422 AAC IEEE 802.11n 10423 AAC IEEE 802.11n 10424 AAC IEEE 802.11n 10425 AAC IEEE 802.11n 10426 AAC IEEE 802.11n 10427 AAC IEEE 802.11n 10427 AAC IEEE 802.11n 10428 AAC IEEE 802.11n 10430 AAE LTE-FDD (OF 10431 AAB LTE-FDD (OF 10432 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB LTE-FDD (OF 10435 AAG LTE-FDD (OF 10447 AAE LTE-FDD (OF 10447 AAE LTE-FDD (OF 10448 AAE LTE-FDD (OF 10449 AAD LTE-FDD (OF 10450 AAD LTE-FDD (OF 10451 AAB W-CDMA (BS 10455 AAC IEEE 802.11a 10450 AAB UMTS-FDD (W 10451 AAB UMTS-FDD (W 10452 AAC LTE-TDD (SC 10453 AAC LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAC LTE-TDD (SC 10465 AAC LTE-TDD (SC 10465 AAC LTE-TDD (SC 10466 AAB LTE-TDD (SC 10467 AAB LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC	g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.14	±9.6
10423 AAC IEEE 802.11n 10424 AAC IEEE 802.11n 10425 AAC IEEE 802.11n 10426 AAC IEEE 802.11n 10427 AAC IEEE 802.11n 10427 AAC IEEE 802.11n 10427 AAC IEEE 802.11n 10427 AAC IEEE 802.11n 10430 AAE LTE-FDD (OF 10431 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10443 AAB W-CDMA (BS 10435 AAG LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAC LTE-FDD (OF 10450 AAC IEEE 802.11a 10451 AAB UMTS-FDD (OF 10451 AAC LTE-TDD (SC 10462 AAC LTE-TDD (SC 10462 AAC LTE-TDD (SC 10463 AAD LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAC LTE-TDD (SC 10465 AAC LTE-TDD (SC 10466 AAD LTE-TDD (SC 10467 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC	n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.19	±9.6
10424 AAC IEEE 802.11n 10425 AAC IEEE 802.11n 10426 AAC IEEE 802.11n 10427 AAC IEEE 802.11n 10427 AAC IEEE 802.11n 10430 AAE LTE-FDD (OF 10431 AAE LTE-FDD (OF 10432 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAG LTE-FDD (OF 10447 AAE LTE-FDD (OF 10447 AAE LTE-FDD (OF 10448 AAE LTE-FDD (OF 10449 AAD LTE-FDD (OF 10450 AAD LTE-FDD (OF 10451 AAB W-CDMA (BS 10453 AAE Validation (Sq 10456 AAC IEEE 802.11a 10457 AAB UMTS-FDD (V 10458 AAA CDMA2000 (1 10459 AAA CLTE-TDD (SC 10458 AAC LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAC LTE-TDD (SC 10465 AAC LTE-TDD (SC 10466 AAD LTE-TDD (SC 10467 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC	n (HT Greenfield, 7.2 Mbps, 16-QAM)	WLAN	8.32	±9.6
10425 AAC IEEE 802.11n 10426 AAC IEEE 802.11n 10427 AAC IEEE 802.11n 10427 AAC IEEE 802.11n 10430 AAE LTE-FDD (OF 10431 AAE LTE-FDD (OF 10432 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAG LTE-FDD (OF 10447 AAE LTE-FDD (OF 10447 AAE LTE-FDD (OF 10448 AAE LTE-FDD (OF 10449 AAD LTE-FDD (OF 10450 AAD LTE-FDD (OF 10451 AAB W-CDMA (BS 10453 AAE Validation (Sq 10454 AAC IEEE 802.11a 10457 AAB UMTS-FDD (W 10458 AAC IEEE 802.11a 10459 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10459 AAC LTE-TDD (SC 10464 AAC LTE-TDD (SC 10465 AAC LTE-TDD (SC 10465 AAC LTE-TDD (SC 10466 AAD LTE-TDD (SC 10468 AAC LTE-TDD (SC 10468 AAC LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC	n (HT Greenfield, 72,2 Mbps, 64-QAM)	WLAN	8.47	±9.6
10426 AAC IEEE 802.11n 10427 AAC IEEE 802.11n 10430 AAE LTE-FDD (OF 10431 AAB LTE-FDD (OF 10432 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAG LTE-FDD (OF 10444 AAE LTE-FDD (OF 10445 AAE LTE-FDD (OF 10446 AAE LTE-FDD (OF 10447 AAE LTE-FDD (OF 10448 AAE LTE-FDD (OF 10448 AAE LTE-FDD (OF 10449 AAD LTE-FDD (OF 10450 AAD LTE-FDD (OF 10451 AAB W-CDMA (BS 10453 AAE Validation (Sq 10454 AAC IEEE 802.11a 10457 AAB UMTS-FDD (W 10459 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10460 AAB UMTS-FDD (W 10461 AAC LTE-TDD (SC 10462 AAC LTE-TDD (SC 10463 AAD LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10468 AAG LTE-TDD (SC	n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.40	±9.6
10427 AAC IEEE 802.11n 10430 AAE LTE-FDD (OF 10431 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAG LTE-FDD (OF 10447 AAE LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAD LTE-FDD (OF 10450 AAD LTE-FDD (OF 10451 AAB W-CDMA (BS 10453 AAC IEEE 802.11a 10457 AAB UMTS-FDD (W 10454 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10457 AAB UMTS-FDD (W 10458 AAA CDMA2000 (1 10459 AAC LTE-TDD (SC 10452 AAC LTE-TDD (SC 10454 AAD LTE-TDD (SC 10455 AAD LTE-TDD (SC 10456 AAD LTE-TDD (SC 10456 AAD LTE-TDD (SC 10456 AAD LTE-TDD (SC 10456 AAG LTE-TDD (SC 10456 AAG LTE-TDD (SC 10456 AAG LTE-TDD (SC 10458 AAG LTE-TDD (SC	n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.41	±9.6
10430 AAE LTE-FDD (OF 10431 AAE LTE-FDD (OF 10432 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAG LTE-FDD (OF 10447 AAE LTE-FDD (OF 10449 AAD LTE-FDD (OF 10450 AAD LTE-FDD (OF 10451 AAB W-CDMA (BS 10453 AAE Validation (Sq 10456 AAC LTE-FDD (OF 10458 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10460 AAB UMTS-FDD (V 10463 AAC LTE-TDD (SC 10463 AAC LTE-TDD (SC 10464 AAD LTE-TDD (SC 10466 AAD LTE-TDD (SC 10468 AAG LTE-TDD (SC 10467 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10466 AAG LTE-TDD (SC	ri (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.45	±9.6
10431 AAE LTE-FDD (OF 10432 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAC LTE-FDD (OF 10447 AAE LTE-FDD (OF 10447 AAE LTE-FDD (OF 10448 AAE LTE-FDD (OF 10450 AAD LTE-FDD (OF 10451 AAB W-CDMA (BS 10453 AAE Validation (Sq 10456 AAC JEEE 802 11a 10457 AAB UMTS-FDD (V 10458 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10460 AAB UMTS-FDD (V 10461 AAC LTE-TDD (SC 10463 AAC LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10468 AAG LTE-TDD (SC 10466 LTE 10466 LTE-TDD (SC 10466 LTE 10466 LTE 10466 LTE-TDD (SC 10466 LTE 10466 LT	FDMA, 5 MHz, E-TM 3.1)	WLAN	8.41	±9.6
10432 AAD LTE-FDD (OF 10433 AAD LTE-FDD (OF 10434 AAB W-CDMA (BS 10435 AAG LTE-FDD (OF 10447 AAE LTE-FDD (OF 10448 AAE LTE-FDD (OF 10449 AAD LTE-FDD (OF 10449 AAD LTE-FDD (OF 10450 AAD LTE-FDD (OF 10451 AAB W-CDMA (BS 10453 AAE Validation (Sq 10456 AAC IEEE 802 11a 10457 AAB UMTS-FDD (W 10451 AAC LTE-TDD (SC 10462 AAC LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 LTE 10464 LT	FDMA, 10 MHz, E-TM 3.1)	LTE-FOD	8.28	19.6
10433 AAD LTE-FDD (OFI 10434 AAB W-CDMA (BS 10435 AAG LTE-TDD (SC 10447 AAE LTE-FDD (OFI 10448 AAE LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10450 AAD LTE-FDD (OFI 10451 AAB W-CDMA (BS 10453 AAE Validation (Sq 10454 AAC IEEE 802.11a 10455 AAC IEEE 802.11a 10456 AAC IEEE 802.11a 10458 AAA CDMA2000 (I 10459 AAA CDMA2000 (I 10460 AAB UMTS-FDD (W 10461 AAC LTE-TDD (SC 10462 AAC LTE-TDD (SC 10463 AAD LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10466 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC	FDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
10434 AAB W-CDMA (BS 10435 AAG LTE-TDD (SC 10447 AAE LTE-FDD (OFI 10448 AAE LTE-FDD (OFI 10450 AAD LTE-FDD (OFI 10450 AAD LTE-FDD (OFI 10451 AAB W-CDMA (BS 10453 AAE Validation (Sq 10454 AAB UMTS-FDD (C 10458 AAA CDMA2000 (1 10458 AAA CDMA2000 (1 10458 AAA CDMA2000 (1 10458 AAA CDMA2000 (1 10458 AAC LTE-TDD (SC 10454 AAC LTE-TDD (SC 10454 AAD LTE-TDD (SC 10455 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10466 AAD LTE-TDD (SC 10466 AAD LTE-TDD (SC 10467 AAG LTE-TDD (SC 10468 LTE 1	FDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10435 AAG LTE-TDD (SC. 10447 AAE LTE-FDD (OFI 10448 AAE LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10450 AAD LTE-FDD (OFI 10451 AAB W-CDMA (BS. 10453 AAE Validation (Sq. 10456 AAC IEEE 802.11a. 10457 AAB UMTS-FDD (V. 10458 AAA CDMA2000 (1) 10459 AAA CDMA2000 (1) 10459 AAA CDMA2000 (1) 10460 AAB UMTS-FDD (V. 10461 AAC LTE-TDD (SC. 10463 AAC LTE-TDD (SC. 10464 AAD LTE-TDD (SC. 10465 AAD LTE-TDD (SC. 10466 AAG LTE-TDD (SC. 10467 AAG LTE-TDD (SC. 10468 AAG LTE-TDD (SC.	S Test Model 1, 64 DPCH)	LTE-FDD	8.34	±9.6
10447 AAE LTE-FDD (OFI 10448 AAE LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10450 AAD LTE-FDD (OFI 10451 AAB W-CDMA (BS 10453 AAE Validation (Sqi 10456 AAC IEEE 802.11ai 10457 AAB UMTS-FDD (VFI 10458 AAA CDMA2000 (1) 10459 AAA CDMA2000 (1) 10459 AAA CDMA2000 (1) 10459 AAA LTE-TDD (SC- 10464 AAD LTE-TDD (SC- 10465 AAD LTE-TDD (SC- 10465 AAD LTE-TDD (SC- 10466 AAD LTE-TDD (SC- 10466 AAD LTE-TDD (SC- 10467 AAG LTE-TDD (SC- 10468 AAG LTE-TDD (SC-	C-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	WGDMA	8.60	±9.6
10448 AAE LTE-FDD (OFI 10449 AAD LTE-FDD (OFI 10450 AAD LTE-FDD (OFI 10451 AAB W-CDMA (BS 10453 AAE Validation (Sqi 10457 AAB UMTS-FDD (OFI 10458 AAC IEEE 802.11ai 10458 AAA CDMA2000 (1 10469 AAB UMTS-FDD (W 10461 AAC LTE-TDD (SC- 10462 AAC LTE-TDD (SC- 10464 AAD LTE-TDD (SC- 10465 AAD LTE-TDD (SC- 10465 AAD LTE-TDD (SC- 10465 AAD LTE-TDD (SC- 10466 AAD LTE-TDD (SC- 10468 AAG LTE-TDD (SC-	FDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.82	±9.6
10449 AAD LTE-FDD (OFI 10450 AAD LTE-FDD (OFI 10451 AAB W-CDMA (BS 10453 AAE VAIRation (Sqi 10457 AAB UMTS-FDD (CI 10458 AAC IEEE 802 11ai 10457 AAB UMTS-FDD (CI 10458 AAA CDMA2000 (1) 10459 AAA CDMA2000 (1) 10460 AAB UMTS-FDD (SC 10463 AAC LTE-TDD (SC 10463 AAC LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10466 AAD LTE-TDD (SC 10467 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC	FDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10450 AAD LTE-FDD (OFI 10451 AAB W-CDMA (BS 10453 AAE Validation (Sqi 10456 AAC LEE 802.11at 10457 AAB UMTS-FDD (CI 10458 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10460 AAB UMTS-FDD (SC- 10463 AAC LTE-TDD (SC- 10463 AAC LTE-TDD (SC- 10464 AAD LTE-TDD (SC- 10465 AAD LTE-TDD (SC- 10465 AAD LTE-TDD (SC- 10466 AAD LTE-TDD (SC- 10467 AAG LTE-TDD (SC- 10468 AAG LTE-TDD (SC-	FDMA, 15 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6
10451 AAB W-CDMA (BS 10453 AAE Validation (Sq 10456 AAC IEEE 802 11 at 10457 AAB UMTS-FDD (C 10458 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10460 AAB UMTS-FDD (V 10461 AAC LTE-TDD (SC 10463 AAC LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10466 AAD LTE-TDD (SC 10466 AAD LTE-TDD (SC 10466 AAD LTE-TDD (SC 10466 AAG LTE-TDD (SC 10466 AAG LTE-TDD (SC 10466 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC 10466 AAC LTE-TDD (SC 10466 AAG LTE-TDD (SC 10466 AAC LTE-TDD	FDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	±9.6
10453 AAE Validation (Sqi 10456 AAC IEEE 802.11a 10457 AAB UMTS-FDD (10458 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10461 AAC LTE-TDD (SC- 10462 AAC LTE-TDD (SC- 10464 AAD LTE-TDD (SC- 10465 AAD LTE-TDD (SC- 10465 AAD LTE-TDD (SC- 10466 AAD LTE-TDD (SC- 10467 AAG LTE-TDD (SC- 10467 AAG LTE-TDD (SC-	5 Test Model 1, 64 DPCH, Clipping 44%)	LTE-FDD	7.48	±9.6
10456 AAC IEEE 802.11a 10457 AAB UMTS-FDD (C 10458 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10460 AAB UMTS-FDD (SC 10462 AAC LTE-TDD (SC 10463 AAC LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10466 AAD LTE-TDD (SC 10467 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC		WCDMA	7.59	±9,6
10457 AAB UMTS-FDD (C 10458 AAA CDMA2000 (1 10459 AAA CDMA2000 (1 10460 AAB UMTS-FDD (V 10461 AAC LTE-TDD (SC 10463 AAC LTE-TDD (SC 10463 AAC LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10466 AAD LTE-TDD (SC 10467 AAG LTE-TDD (SC 10468 AAG LTE-TDD (SC	ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	Test	10.00	±9.6
10458 AAA CDMA2000 [1 10459 AAA CDMA2000 (1 10460 AAB UMTS-FDD (8C 10461 AAC LTE-TDD (SC 10463 AAC LTE-TDD (SC 10464 AAD LTE-TDD (SC 10465 AAD LTE-TDD (SC 10466 AAD LTE-TDD (SC 10467 AAG LTE-TDD (SC 10467 AAG LTE-TDD (SC		WLAN	8.63	±9.6
10459 AAA CDMA2000 (1 10460 AAB UMTS-FDD (V 10461 AAC LTE-TDD (SC- 10462 AAC LTE-TDD (SC- 10463 AAC LTE-TDD (SC- 10464 AAD LTE-TDD (SC- 10465 AAD LTE-TDD (SC- 10466 AAD LTE-TDD (SC- 10467 AAG LTE-TDD (SC- 10468 AAG LTE-TDD (SC-	1xEV-DO, Rev. B, 2 carriers)	WCDMA	6.62	±9.6
10460 AAB UMTS-FDD (V 10461 AAC LTE-TDD (SC- 10462 AAC LTE-TDD (SC- 10463 AAC LTE-TDD (SC- 10464 AAD LTE-TDD (SC- 10465 AAD LTE-TDD (SC- 10466 AAD LTE-TDD (SC- 10466 AAG LTE-TDD (SC- 10467 AAG LTE-TDD (SC- 10468 AAG LTE-TDD (SC-	1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10461 AAC LTE-TDD (SC- 10462 AAC LTE-TDD (SC- 10463 AAC LTE-TDD (SC- 10464 AAD LTE-TDD (SC- 10465 AAD LTE-TDD (SC- 10465 AAD LTE-TDD (SC- 10467 AAG LTE-TDD (SC- 10468 AAG LTE-TDD (SC- 10468 AAG LTE-TDD (SC-		CDMA2000	8.25	±9,6
0462 AAC	The same of the sa	WCDMA	2.39	±9.6
0463 AAC LTE-TDD (SC- 0464 AAD LTE-TDD (SC- 0465 AAD LTE-TDD (SC- 0465 AAD LTE-TDD (SC- 0467 AAG LTE-TDD (SC- 0468 AAG LTE-TDD (SC-	PFDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) PFDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
0464 AAD LTE-TDD (SC- 0465 AAD LTE-TDD (SC- 0466 AAD LTE-TDD (SC- 0467 AAG LTE-TDD (SC- 0468 AAG LTE-TDD (SC-	>FOMA, 1 RB, 1.4 MHz, 16-QAM, UL Subtrame=2,3,4,7,8,9) >FOMA, 1 RB, 1.4 MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	8.30	±9.6
0465 AAD LTE-TDD (SC- 0466 AAD LTE-TDD (SC- 0467 AAG LTE-TDD (SC- 0468 AAG LTE-TDD (SC-	FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
0466 AAD LTE-TDD (SC- 0467 AAG LTE-TDD (SC- 0468 AAG LTE-TDD (SC-	C-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10467 AAG LTE-TDD (SC- 10468 AAG LTE-TDD (SC-	C-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10468 AAG LTE-TDD (SC-		LTE-TDO	8.57	±9.6
	C-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
A AND I WAS I WAS I THE TOP (SP.	FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9:6
	FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10471 AAG LTE-TOD (SC-	FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82 8.32	±9.6

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10472	1	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8.9)	LTE-TDD	8.57	±9,6
10473	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	±9.6
10475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)	LTE-TDD	8.57	±9.6
10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-OAM, UL Subframe=2.3.4.7.8.9)	LTE-TDD	8.32	
10478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)	LTE-TDD	_	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)		8.57	±9.6
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2.3.4,7,8,9)	LTE-TDD	8.18	19.6
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8,45	±9,6
10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.71	±9.6
10484	AAD	LTE TOD (SC FDMA, 50% RB, 3 MHz, 16-QAM, UL Subtrame=2,3.4,7,8,9)	LTE-TOD	8.39	±9.6
10485	AAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10486	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	7.59	±9.6
	-	LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.38	±9.6
10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	±9.6
10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10.490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2.3.4.7.8.9)	LTE-TDD	7.74	
10492	AAF	LTE-TDD (SC-FOMA, 50% RB, 15 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD		±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)		8.41	±9.5
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10495	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10496	AAG	LTE TOD (SC EDIMA SON DR. 20 MHz. 16-QAM, UL SUDITAMB=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7.8,9)	LTE-TDD	8,54	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7.6,9)	LTE-TDD	7.67	±9.6
		LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4.7,8,9)	LTE-TOD	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6
10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM, UL Subframe=2.3.4.7.8.9)	LTE-TOD	8.52	±9.6
10503	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK, UL Subframe=2,3,4,7.8,9)	LTE-TDD	7.72	
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TDD		±9.6
10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)		8,31	±9,6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOO	8.54	±9.6
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10508	AAG	LTE TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TOD	8.36	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10510	AAF	TTE TOD (SC-FOMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	±9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6
	-	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	±9.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4.7,8,9).	LTE-TDD	7.74	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.42	±9.6
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3.4.7,8,9)	LTE-TOD	8.45	±9.6
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	
10518	AAC	IEEE 802.11a/h WiFl 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN		19.6
10519	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)		8.23	±9.6
10520	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duly cycle)	WLAN	8.39	±9.6
10521	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
10522		IFFE 802 11a/b W/F 6 CH2 (OFFIM 20 Mars 0000 duty cycle)	WLAN	7.97	±9.6
0523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
-		IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
0524	-	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6
10525		IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.36	±9.6
		IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6
		IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
-		IEEE 802.11ac WiFl (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6
		IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	±9.6
0531		IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.43	
10532		IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)	WLAN		±9.6
-	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle)		8.29	±9.6
		IEEE 802 11ac WiFi (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.38	±9.6
	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6
			WLAN	8.45	±9.6
		IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6
		IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
-		IEEE 802,11ac WiFi (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.54	±9.6
	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.39	±9.6

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10541	Rev	Communication System Name	Group	PAR (dB)	UncE k =
10542	problem of the second	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6
10542		IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.6
10544		IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	19.6
10545	-	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
10546	1177	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10547	-	JEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
10548		IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
10550	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
10551	AAC	JEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6
10552		IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
10553	AAC	IEEE 802 11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	19.6
10554	AAD	IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
10555	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
10556	AAD	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
10557	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10558	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6
10560	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6
10561	AAD	IEEE 802.11ac WIFI (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6
10562	AAD	IEEE 802.11ac WiFi (160 MHz; MCS7, 99pc duty cycle)	WLAN	8.56	±9.6
10563	AAD	IEEE 802.11ac WIFI (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
10564	AAA	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10568	AAA	IEEE 802:11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10569	AAA	IEEE 802.11g WiFl 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10570	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10571	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8,30	±9.6
10572	AAA	IEEE 802 11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1,99	±9.6
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1,98	±9.6
10575	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10579	AAA	IEEE 802 11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10580	AAA	IEEE 802,11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10581		IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10582	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duly cycle)	WLAN	8.35	±9.6
10583	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10584	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10 585	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10586	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	19.6
0587	AAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9,6
0588	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
0589	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10590	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10591	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10592	-	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
10593		IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
-	AAC	IEEE 802.11ri (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6
10595		IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
0598	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6
-		IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
	AAC	IEEE 802 11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	19.6
State Section 1		IEEE 802.11n (HT Mixed, 40 MHz, MGS3, 90pc duty cycle)	WLAN	8.94	±9.6
-		IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
_	AAC	EEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9.6
_	AAC I	EEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle) EEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.97	±9.6
0606		EEE OUZ. TITI (PT MIXED, 40 MHz, MCS7, 90pc duty cycle)	WLAN	200	
	AAC	EEE 902 + Inc WIE: /20 MIL- MCCO CO.	The state of the s	8.82	±9.6
0607	AAC	EEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle) EEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.64	±9.6

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10610 A 10611 A 10612 A 10613 A 10614 A 10615 A 10616 A 10617 A 10619 A 10620 A 10621 A 10621 A 10622 A 10623 A 10625 A 10625 A 10625 A 10625 A 10626 A 10627 A 10631 A 10631 A 10631 A 10632 A 10633 A 10634 A 10634 A 10634 A 10634 A 10634 A 10635 A 10634 A 10636 A 10637 A 10638 A 10637 A 10638 A 10638 A 10638 A 10639 A 10639 A 10631 A 10631 A 10631 A 10632 A 10632 A 10633 A 10634 A 10634 A 10635 A 10637 A 10638 A 10638 A 10639 A 10639 A 10631 A 10631 A 10631 A 10632 A 10633 A 10634 A 10634 A 10635 A 10637 A 10638 A 10639 A 10639 A 10639 A 10630 A 10631 A 10631 A 10632 A 10632 A 10633 A 10634 A 10635 A 10636 A 10637 A 10638 A 10639 A 10640 A 10640 A 10641 A 10642 A 10643 A 10645 A 10645 A	AAC IEEE 802.11ac WIFI (20 MHz, MCS2, 90pc duty cycle) AAC IEEE 802.11ac WIFI (20 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (20 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (20 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (20 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WIFI (20 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WIFI (20 MHz, MCS7, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.57 8.78 8.70 8.77 8.94 8.59 8.82 8.82 8.81 8.58 8.86 8.87 8.77 8.68 8.82 8.96 8.96 8.96 8.98 8.98 8.98 8.98 8.98	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10611 / 10612 / 10613 / 10614 / 10615 / 10616 / 10616 / 10617 / 10618 / 10620 / 10621 / 10622 / 10623 / 10624 / 10625 / 10628 / 10628 / 10629 / 10630 / 10631 / 10631 / 10631 / 10631 / 10632 / 10633 / 10634 / 10634 / 10635 / 10634 / 10635 / 10637 / 10638 / 10639 / 10634 / 10645	AAC IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle) AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle) AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle) AAC IEEE 802.11ac WiFi (20 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8,70 8,77 8,94 8,59 8,82 8,82 8,81 8,58 8,96 8,87 8,77 8,68 8,96 8,83 8,71 8,85 8,71 8,85 8,71 8,85 8,71 8,85 8,71 8,85 8,71 8,85 8,87 8,87 8,87 8,87 8,87 8,87 8,87	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10612 A 10613 A 10614 A 10616 A 10617 A 10616 A 10617 A 10618 A 10620 A 10621 A 10622 A 10622 A 10623 A 10624 A 10625 A 10625 A 10626 A 10627 A 10628 A 10628 A 10630 A 10631 A 10631 A 10632 A 10632 A 10633 A 10634 A 10634 A 10634 A 10634 A 10634 A 10635 A 10637 A 10638 A 10637 A 10640 A 10641 A 10641 A 10644 A 10645 A 10644 A 10645 A	AAC IEEE 802.11ac WIFI (20 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (20 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WIFI (20 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WIFI (20 MHz, MCS0, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS0, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS1, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS2, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS4, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS1, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS2, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.77 8.94 8.59 8.82 8.82 8.81 8.58 8.86 8.87 8.77 9.68 8.82 8.96 8.83 8.71 8.85 8.71 8.85 8.74 8.83 8.80 8.81 8.74 8.83 8.80 8.81 8.80 8.81 8.82	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10613 A 10614 A 10616 A 10617 A 10618 A 10619 A 10620 A 10631 A 10632 A 10630 A 10631 A 10632 A 10630 A 10631 A 10634 A 10634 A 10634 A 10634 A 10634 A 10635 A 10636 A 10637 A 10637 A 10637 A 10638 A 10637 A 10640 A 10641 A 10641 A 10641 A 10641 A 10645 A 16464 A 10645	AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle) AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.94 8.59 8.82 8.81 8.58 8.86 8.87 8.77 8.68 8.62 8.96 8.83 8.88 8.71 8.85 8.72 9.81 8.83 8.80 8.81 8.83 8.80 8.81 8.83 8.84 8.75 8.85 8.75 8.85 8.75 8.85 8.87 8.86 8.87 8.86 8.87 8.87 8.86 8.87 8.86 8.87 8.87 8.87 8.88 8.87 8.89 8.80 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10614 A 10615 A 10616 A 10617 A 10618 A 10619 A 10620 A 10621 A 10621 A 10622 A 10623 A 10624 A 10627 A 10628 A 10627 A 10628 A 10627 A 10628 A 10637 A 10638 A 10638 A 10638 A 10639 A 10631 A 10631 A 10632 A 10634 A 10634 A 10635 A 10636 A 10637 A 10638 A 10638 A 10638 A 10638 A 10639 A 10639 A 10639 A 10639 A 10630 A 10631 A 10634 A 10635 A 10636 A 10637 A 10638 A 10638 A 10639 A 10640 A	AAC IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle) AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.59 8.82 8.82 8.81 8.86 8.87 8.77 8.68 8.92 8.96 8.95 8.83 8.71 8.85 8.72 8.81 8.74 8.83 8.80 8.81 8.83 8.79	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10615 A 10616 A 10617 A 10617 A 10618 A 10619 A 10620 A 10621 A 10622 A 10624 A 10625 A 10626 A 10626 A 10627 A 10628 A 10637 A 10638 A 10631 A 10631 A 10632 A 10631 A 10632 A 10634 A 10634 A 10635 A 10634 A 10637 A 10638 A 10634 A 10637 A	AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.82 8.82 8.81 8.58 8.87 8.77 8.68 8.62 8.96 8.83 8.87 8.71 8.85 8.72 9.81 8.74 8.83 8.80 8.81 8.74	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10616 A 10617 A 10618 A 10617 A 10618 A 10619 A 10620 A 10621 A 10622 A 10625 A 10626 A 10626 A 10628 A 10628 A 10629 A 10629 A 10630 A 10631 A 10631 A 10632 A 10634 A 10634 A 10634 A 10634 A 10635 A 10636 A 10637 A 10638 A 10639 A 10640 A 10641 A 10641 A 10644 A 10644 A 10644 A 10644 A	AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.82 8.81 8.58 8.86 8.87 8.77 9.58 8.82 8.96 8.96 8.83 8.87 8.71 8.85 8.72 9.81 8.74 8.83 8.80 8.81 8.74 8.83	19.6 29.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6 1
10617 A 10618 A 10619 A 10620 A 10621 A 10622 A 10622 A 10623 A 10624 A 10626 A 10627 A 10628 A 10627 A 10628 A 10631 A 10631 A 10631 A 10632 A 10633 A 10633 A 10633 A 10634 A 10634 A 10634 A 10635 A 10636 A 10637 A 10637 A 10638 A 10638 A 10638 A 10639 A 10640 A 10641 A 10642 A 10641 A 10642 A 10643 A 10643 A 10643 A 10644 A 10644 A 10644 A 10644 A 10644 A	AAC IEEE 802.11ac WIFI (40 MHz, MCS1, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS2, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS4, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS2, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WIFI (80 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WIFI (160 MHz, MCS6, 90pc duty cycle) AAC IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc duty cycle) AAC IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.81 8.58 8.86 8.87 8.77 8.68 8.82 8.96 8.83 8.88 8.71 8.85 8.72 9.81 8.74 8.83 8.80 8.81 8.87 8.83	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10618 A 10619 A 10619 A 10620 A 10621 A 10621 A 10622 A 10623 A 10624 A 10627 A 10628 A 10627 A 10628 A 10631 A 10631 A 10632 A 10632 A 10632 A 10633 A 10633 A 10634 A 10634 A 10634 A 10635 A 10636 A 10637 A	ACC IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.58 8.86 8.87 8.77 8.68 8.82 8.96 8.96 8.83 8.71 8.85 8.72 8.81 8.74 8.83 8.80 8.81 8.87 8.83	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10619 A 10620 A 10621 A 10621 A 10623 A 10624 A 10625 A 10626 A 10626 A 10627 A 10628 A 10628 A 10631 A 10631 A 10632 A 10632 A 10633 A 10633 A 10633 A 10634 A 10634 A 10635 A 10636 A 10637 A 10637 A	ACC IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle) ACC IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) ACC IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.58 8.86 8.87 8.77 8.68 8.82 8.96 8.96 8.83 8.71 8.85 8.72 8.81 8.74 8.83 8.80 8.81 8.87 8.83	±9.6 ±9.6 ±9.6 ±9.6 ±9.5 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10620 A 10621 A 10621 A 10622 A 10624 A 10625 A 10626 A 10626 A 10628 A 10629 A 10629 A 10630 A 10631 A 10631 A 10632 A 10633 A 10633 A 10634 A 10634 A 10634 A 10635 A 10636 A 10637 A	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.86 8.87 8.77 8.68 8.82 8.96 8.95 8.83 8.71 8.85 8.72 9.81 8.74 8.83 8.80 8.81 8.81 8.83	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10621 A 10622 A 10623 A 10623 A 10626 A 10626 A 10627 A 10628 A 10627 A 10630 A 10631 A 10631 A 10632 A 10633 A 10633 A 10633 A 10634 A 10635 A 10636 A 10636 A 10637 A 10638 A 10638 A 10639 A 10639 A 10639 A 10639 A 10639 A 10640 A 10640 A 10640 A 10641 A 10641 A 10642 A 10643 A 10644 A	AC IEEE 802.11ac WIFI (40 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (40 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle) AC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS0, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS1, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS2, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS2, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.87 8.77 8.68 8.82 8.96 8.83 8.87 8.85 8.72 9.81 8.74 8.83 8.80 8.81 8.87 8.87 8.83	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10622 A 10623 A 10624 A 10624 A 10626 A 10627 A 10628 A 10627 A 10628 A 10631 A 10631 A 10632 A 10633 A 10633 A 10633 A 10635 A 10636 A 10636 A 10637 A 10638 A 10638 A 10639 A 10639 A 10640 A 10641 A 10641 A 10642 A 10643 A 10643 A 10644 A 10644 A 10644 A 10644 A 10644 A 10644 A	AC IEEE 802.11ac WIFI (40 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle) AC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS0, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS1, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS2, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS7, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS9, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.77 8.68 8.82 8.96 8.96 8.83 8.88 8.71 8.85 8.72 9.81 8.74 8.83 8.80 8.81 8.87 8.83	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10623 A 10624 A 10625 A 10626 A 10627 A 10628 A 10629 A 10630 A 10631 A 10632 A 10632 A 10636 A 10636 A 10637 A 10638 A 10638 A 10638 A 10638 A 10639 A 10639 A 10639 A 10639 A 10640 A 10641 A 10641 A 10642 A 10644 A	AC IEEE 802.11ac WiFI (40 MHz, MCS7, 90pc duty cycle) AC IEEE 802.11ac WiFI (40 MHz, MCS8, 90pc duty cycle) AC IEEE 802.11ac WiFI (40 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WiFI (80 MHz, MCS0, 90pc duty cycle) AC IEEE 802.11ac WiFI (80 MHz, MCS1, 90pc duty cycle) AC IEEE 802.11ac WiFI (80 MHz, MCS2, 90pc duty cycle) AC IEEE 802.11ac WiFI (80 MHz, MCS2, 90pc duty cycle) AC IEEE 802.11ac WiFI (80 MHz, MCS3, 90pc duty cycle) AC IEEE 802.11ac WiFI (80 MHz, MCS4, 90pc duty cycle) AC IEEE 802.11ac WiFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFI (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WiFI (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WiFI (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WiFI (80 MHz, MCS7, 90pc duty cycle) AC IEEE 802.11ac WiFI (80 MHz, MCS8, 90pc duty cycle) AC IEEE 802.11ac WiFI (80 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFI (160 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFI (160 MHz, MCS0, 90pc duty cycle) AD IEEE 802.11ac WiFI (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFI (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFI (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFI (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFI (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFI (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.68 8.62 8.96 8.96 8.83 8.88 8.71 8.85 8.72 9.81 8.74 8.83 8.80 8.81 8.83 8.79	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10624 A 10625 A 10626 A 10628 A 10629 A 10629 A 10630 A 10631 A 10632 A 10633 A 10633 A 10634 A 10635 A 10636 A 10637 A 10638 A 10634 A 10634 A 10634 A 10634 A 10635 A 10636 A 10646 A 10646 A 10646 A 10646 A 10644	AC IEEE 802.11ac WIFI (40 MHz, MCS8, 90pc duty cycle) AC IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS1, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS2, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS3, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS4, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS7, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS8, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS0, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WIFI (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.82 8.98 8.98 8.83 8.71 8.85 8.72 8.81 8.74 8.83 8.80 8.81 8.83 8.87 8.83	19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6
10625 A 10626 A 10627 A 10628 A 10629 A 10630 A 10631 A 10631 A 10632 A 10635 A 10635 A 10636 A 10636 A 10636 A 10637 A 10638 A 10638 A 10639 A 10640 A 10640 A 10641 A 10641 A 10642 A 10644 A	AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.96 8.83 8.83 8.71 8.85 8.72 9.81 8.74 8.83 8.80 8.81 8.81 8.74	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10626 A 10627 A 10628 A 10628 A 10629 A 10630 A 10631 A 10633 A 10633 A 10633 A 10633 A 10633 A 10636 A 10636 A 10637 A 10638 A 10639 A 10640 A 10640 A 10641 A 10641 A 10641 A 10644 A	IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.96 8.83 8.88 8.71 8.85 8.72 9.81 8.74 8.83 8.80 8.81 8.79 8.86	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10627 A 10628 A 10629 A 10630 A 10631 A 10632 A 10633 A 10633 A 10636 A 10636 A 10637 A 10638 A 10638 A 10638 A 10639 A 10640 A 10641 A 10641 A 10641 A 10641 A 10644 A 10644 A 10644 A 10644 A 10644 A	AC IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.83 8.88 8.71 8.85 8.72 9.81 8.74 8.83 8.80 8.81 8.83 8.79 8.86	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10628 A 10629 A 10630 A 10631 A 10631 A 10632 A 10633 A 10633 A 10635 A 10636 A 10637 A 10638 A 10637 A 10639 A 10640 A 10641 A 10641 A 10642 A 10643 A 10643 A 10644 A	AC IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.88 8.71 8.85 8.72 9.81 8.74 8.83 8.80 8.81 8.83 8.79 8.86	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10629 A 10630 A 10631 A 10631 A 10632 A 10632 A 10635 A 10636 A 10637 A 10637 A 10638 A 10639 A 10640 A 10641 A 10641 A 10642 A 10644 A 10644 A 10644 A	AC IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AC IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AC IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AC IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AC IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.71 8.85 8.72 8.81 8.74 8.83 8.80 8.81 8.83 8.79	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10630 A 10631 A 10632 A 10632 A 10633 A 10633 A 10635 A 10636 A 10636 A 10637 A 10638 A 10639 A 10640 A 10641 A 10641 A 10642 A 10642 A 10644 A 10644 A 10644 A	AC IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.85 8.72 9.81 8.74 8.83 8.80 8.81 8.83 8.79 8.86	±9.6 ±9.6 ±9.6 ±9.6 ±9.5 ±9.6 ±9.6 ±9.6
10631 A. 10632 A. 10633 A. 10633 A. 10635 A. 10635 A. 10637 A. 10638 A. 10638 A. 10639 A. 10640 A. 10641 A. 10642 A. 10643 A. 10644 A. 10644 A.	AC IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.72 9.81 8.74 8.83 8.80 8.81 8.83 8.79 8.86	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10632 A 10633 A 10634 A 10635 A 10636 A 10637 A 10638 A 10639 A 10640 A 10641 A 10642 A 10643 A 10644 A 10644 A	AC IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	9.81 8.74 8.83 8.80 8.81 8.83 8.79 8.86	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10633 A. 10634 A. 10635 A. 10636 A. 10637 A. 10638 A. 10639 A. 10640 A. 10641 A. 10642 A. 10643 A. 10644 A. 10644 A. 10644 A.	AC IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.74 8.83 8.80 8.81 8.83 8.79 8.86	±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10634 A. 10635 A. 10636 A. 10637 A. 10638 A. 10639 A. 10640 A. 10641 A. 10642 A. 10643 A. 10644 A. 10644 A.	AC IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.83 8.80 8.81 8.83 8.79 8.86	±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10635 A, 10636 A, 10637 A, 10638 A, 10639 A, 10640 A, 10641 AA, 10642 AA, 10643 AA, 10644 AA, 10645 AA,	AC IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle) AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN	8.80 8.81 8.83 8.79 8.86	±9.6 ±9.6 ±9.6
10636 AA 10637 AA 10638 AA 10639 AA 10640 AA 10641 AA 10642 AA 10643 AA 10644 AA 10645 AA	AC IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN	8.81 8.83 8.79 8.86	±9.6 ±9.6
10637 AJ 10638 AJ 10639 AJ 10640 AJ 10641 AJ 10642 AA 10643 AA 10644 AJ 10645 AA	AD IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN WLAN WLAN WLAN	8.83 8.79 8.86	±9.6
10638 AA 10639 AA 10640 AA 10641 AA 10642 AA 10643 AA 10644 AA 10645 AA	AD IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN WLAN WLAN	8.79 8.86	±9.6
10639 AA 10640 AA 10641 AA 10642 AA 10643 AA 10644 AA	AD IEEE 802.11ac WFi (160 MHz, MCS2, 90pc duty cycle) IEEE 802.11ac WFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WFi (160 MHz, MCS5, 90pc duty cycle)	WLAN WLAN	8.86	
10640 AA 10641 AA 10642 AA 10643 AA 10644 AA 10645 AA	AD IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN		
10641 AA 10642 AA 10643 AA 10644 AA 10645 AA	AD IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) AD IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)			±9.6
10642 AA 10643 AA 10644 AA 10645 AA	AD IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WIAN	8,85	±9.6
10643 AA 10644 AA 10645 AA			8.98	±9.6
10643 AA 10644 AA 10645 AA	AD IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10645 A	AD IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	9.06	±9.6
10645 AA	AD IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
	AD IEEE 802:11ac WiFi (180 MHz, MCS9, 90pc duty cycle)	WLAN	9.05	±9.6
10646 AA	AH LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	WLAN	9.11	±9.6
	AG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10648 AA	AA CDMA2000 (1x Advanced)	LTE-TDD	11,96	±9.6
10652 AA	The state of the s	GDMA2000	3.45	±9.6
10653 AA	The state of the s	LTE-TDD	6.91	±9.6
10654 AA	the state of the s	LTE-TDD	7.42	±9.6
0655 AA	(Supplied and)	LTE-TDD	6.96	±9.6
10658 AA	The state of the s	LTE-TDD	7.21	±9.6
0659 AA	1	Test	10.00	19.6
10660 AA	The state of the s	Test	6,99	±9.6
10661 AA	The state of the s	Test	3,98	±9.6
10662 AA		Test	2,22	±9.6
0670 AA	(Each in the Control of the Control	Test	0.97	±9.6
	The state of the s	Bluetooth	2.19	±9.6
0671 AA	taritarian al impost popo data cycle)	WLAN	9.09	19.6
0672 AA	the the transfer tooks duty cycle)	WLAN	8.57	±9.6
10673 AA	the province interest sope daily cycle)	WLAN	8.78	19.6
0674 AA	The same of the sa	WLAN	8.74	±9.6
0675 AA	the feet with the sail of the	WLAN	8.90	±9.6
0676 AA	(Sold of Color	WLAN	8.77	±9.6
0677 AA	- The state of the	WLAN	8.73	±9.6
0678 AA	1 Table and a voice	WLAN	8.78	±9.6
0679 AA	and the state of t	WLAN	8.89	19.6
0680 AA		WLAN	8.80	±9.8
0681 AA	and a series of the series of	WLAN	8.62	19.6
0682 AA	C JEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
0683 AA	C IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
0684 AA	the state of the s	WLAN	8.26	
0685 AAG	C IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
0686 AA		WLAN	8.28	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	UncE k = 2
10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	B.45	±9,6
10688	AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
10689	AAC	IEEE 802.1 tax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9,6
10690	AAC	IEEE 802,11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
10692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
10693	AAC	IEEE 802,11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
10694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
10695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6
10696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
10697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
10698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
10699	AAC	IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.82	19.6
10700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
10701	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
10702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6
10703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
10705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN		±9.6
10706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.69	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)		8.66	±9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.32	±9.6
10709	AAC	IEEE 802,11ax (40 MHz, MCS2, 99pc duty cycle)		8.55	±9.6
10710	AAC	IEEE 802,11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.33	±9.6
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.29	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.39	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.67	±9.6
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)		8.33	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.26	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8.30	±9.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.48	±9.8
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8,24	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MGS2, 90pc duty cycle)	WLAN	8.87	±9.6
10722	AAC	IEEE 802 11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.76	±9.6
10723	AAC		WLAN	8.55	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.70	±9.6
10725	AAC		WLAN	8.90	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8,72	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8,66	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
		IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
10734	AAC	IEEE 802.11ax (80.MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6
10736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	±9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8,43	±9.6
10743	AAC	IEEE 802:11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6
10744	AAC	IEEE 802:11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6
10745	AAC	IEEE 802,11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	±9.6
10746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	±9.6
10748	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6
	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	19.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)			

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10783 AAE 10784 AAD 10785 AAD 10786 AAD 10787 AAD 10788 AAD 10789 AAD 10799 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10795 AAD 10795 AAD 10796 AAD 10796 AAD 10797 AAD 10797 AAD 10796 AAD 10797 AAD 10798 AAD 10798 AAD 10799 AAD 10806 AAD 10806 AAD 10809 AAD 10810 AAD 10810 AAD 10811 AAD	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (180 MTz, MCS1	WLAN WILAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN W	9.00 8.94 8.64 8.77 8.69 8.58 8.49 8.53 8.54 8.54 8.54	9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±
10755 AAC 10756 AAC 10757 AAC 10758 AAC 10758 AAC 10759 AAC 10760 AAC 10761 AAC 10762 AAC 10762 AAC 10765 AAC 10765 AAC 10766 AAC 10766 AAC 10768 AAD 10769 AAD 10770 AAD 10771 AAD 10772 AAD 10773 AAD 10774 AAD 10775 AAD 10775 AAD 10775 AAD 10778 AAD 10779 AAC 10788 AAD 10780 AAD 10781 AAD 10782 AAD 10783 AAE 10784 AAD 10785 AAD 10785 AAD 10786 AAD 10787 AAC 10788 AAD 10788 AAD 10789 AAD 10799 AAD 10806 AAD 10806 AAD 10806 AAD 10807 AAD	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle) IEEE 802.11ax (180 MHz, MCS1, 99pc duty cycle) IEEE 807.11ax (180 MTz, MCS1, 99pc duty cycle) IEEE 807.11ax (180 MTz, MCS2, 99pc	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.64 8.77 8.77 8.69 8.58 8.49 8.58 8.49 8.53 8.54 8.54	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10756 AAC 10757 AAC 10758 AAC 10758 AAC 10758 AAC 10759 AAC 10750 AAC 10760 AAC 10761 AAC 10762 AAC 10763 AAC 10765 AAC 10766 AAC 10766 AAC 10767 AAC 10767 AAD 10770 AAD 10771 AAD 10771 AAD 10772 AAD 10773 AAD 10774 AAD 10775 AAD 10775 AAC 10778 AAC 10778 AAC 10778 AAD 10778 AAC 10778 AAD 10778 AAD 10779 AAC 10778 AAD 10779 AAC 10780 AAD 10781 AAD 10782 AAD 10783 AAE 10784 AAD 10783 AAE 10784 AAD 10785 AAD 10787 AAC 10788 AAD 10789 AAD 10789 AAD 10789 AAD 10789 AAD 10789 AAD 10788 AAD 10788 AAD 10788 AAD 10789 AAD 10799 AAD 10799 AAD 10799 AAD 10799 AAD 10799 AAD 10799 AAD 10806 AAD 10806 AAD 10807 AAD 10807 AAD 10808 AAD 10808 AAD	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (180 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (180 MHz, MCS11, 99pc duty cycle) IEEG 802.11ax (180 MTz, MCS11, 99pc duty cycle) IEEG 802.11ax (180 MTz, MCS11, 99pc duty	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.77 8.77 8.69 8.58 8.49 8.58 8.49 8.53 8.54 8.54	19.8 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10757 AAC 10758 AAC 10759 AAC 10759 AAC 10769 AAC 10761 AAC 10762 AAC 10763 AAC 10763 AAC 10765 AAC 10766 AAC 10766 AAC 10767 AAE 10768 AAD 10770 AAD 10771 AAD 10772 AAD 10772 AAD 10773 AAD 10774 AAD 10775 AAD 10778 AAD 10780 AAD 10781 AAD 10782 AAD 10783 AAE 10784 AAD 10785 AAD 10785 AAD 10787 AAD 10788 AAD 10789 AAD 10780 AAD 10781 AAE 10782 AAD 10783 AAD 10789 AAD 10799 AAD 10791 AAE 10792 AAD 10793 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10798 AAD 10798 AAD 10799 AAD 10799 AAD 10799 AAD 10799 AAD 10799 AAD 10801 AAD 10805 AAD 10806 AAD 10807 AAD	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEG 802.11ax (160 MHz, MCS11, 19pc duty	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.77 8.69 8.58 8.49 8.58 8.49 8.53 8.54 8.54	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10758 AAC 10759 AAC 10760 AAC 10761 AAC 10762 AAC 10763 AAC 10763 AAC 10764 AAC 10766 AAC 10766 AAC 10766 AAC 10767 AAB 10767 AAD 10771 AAD 10772 AAD 10772 AAD 10773 AAD 10775 AAD 10775 AAD 10776 AAD 10776 AAD 10778 AAD 10778 AAD 10778 AAD 10778 AAD 10778 AAD 10778 AAD 10789 AAD 10780 AAD 10781 AAD 10781 AAD 10782 AAD 10783 AAE 10784 AAD 10785 AAD 10785 AAD 10785 AAD 10787 AAD 10788 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10797 AAD 10798 AAD 10798 AAD 10798 AAD 10799 AAD 10799 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10798 AAD 10798 AAD 10799 AAD 10799 AAD 10798 AAD 10798 AAD 10799 AAD 10801 AAD 10805 AAD 10806 AAD 10807 AAD	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEG 802.11ax (160 MTz, MCS11, 99pc duty cycle) IE	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.69 8.58 8.49 8.58 8.49 8.53 8.54 8.54	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10759 AAC 10760 AAC 10761 AAC 10761 AAC 10763 AAC 10763 AAC 10764 AAC 10765 AAC 10765 AAC 10766 AAC 10768 AAD 10767 AAB 10770 AAD 10771 AAD 10772 AAD 10773 AAD 10774 AAD 10775 AAD 10776 AAC 10778 AAD 10780 AAD 10781 AAD 10782 AAD 10782 AAD 10783 AAE 10783 AAE 10784 AAD 10785 AAD 10786 AAD 10787 AAD 10787 AAD 10788 AAD 10788 AAD 10789 AAD 10789 AAD 10780 AAD 10780 AAD 10781 AAC 10788 AAD 10780 AAD 10781 AAC 10781 AAD 10782 AAD 10783 AAC 10786 AAD 10787 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10798 AAD 10799 AAD 10800 AAD 10800 AAD 10800 AAD 10801 AAD 10801 AAD 10812 AAD 10817 AAE	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) SG NR (CP-OFDM, 1 RB, 5 MHz, OPSK, 15 kHz) SG NR (CP-OFDM, 1 RB, 15 MHz, OPSK, 15 kHz) SG NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 15 kHz) SG NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 15 kHz) SG NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 15 kHz) SG NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 15 kHz)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.58 8.49 8.58 8.49 8.53 8.54 9.54 8.51	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10760 AAC 10761 AAC 10762 AAC 10762 AAC 10762 AAC 10763 AAC 10765 AAC 10765 AAC 10766 AAC 10768 AAD 10769 AAD 10770 AAD 10771 AAD 10772 AAD 10773 AAD 10774 AAD 10775 AAD 10776 AAD 10778 AAD 10780 AAD 10781 AAD 10782 AAD 10782 AAD 10783 AAC 10784 AAD 10785 AAD 10787 AAD 10787 AAD 10788 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10798 AAD 10799 AAD 10806 AAD 10806 AAD 10806 AAD 10807 AAD 10807 AAD 108081 AAD 10812 AAD 10812 AAD 10812 AAD	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) 5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.49 8.58 8.49 8.53 8.54 8.54 8.54	19.6 19.6 19.6 19.6 19.6 19.6
10761 AAC 10762 AAC 10763 AAC 10763 AAC 10766 AAC 10766 AAC 10767 AAE 10768 AAD 10768 AAD 10769 AAD 10770 AAD 10771 AAD 10772 AAD 10772 AAD 10775 AAD 10775 AAD 10775 AAD 10775 AAD 10776 AAD 10776 AAD 10778 AAD 10779 AAC 10780 AAD 10780 AAD 10781 AAD 10782 AAD 10783 AAE 10784 AAD 10783 AAE 10784 AAD 10787 AAD 10787 AAD 10788 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10797 AAD 10798 AAD 10798 AAD 10798 AAD 10799 AAD 10799 AAD 10790 AAD 10790 AAD 10791 AAB 10792 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10798 AAD 10799 AAD 10801 AAD 10805 AAD 10806 AAD 10806 AAD 10812 AAD	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) 5G NR (CP-OFDM, 1 RB, 5MHz, OPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 15 MHz, OPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN 5G NR FR1 TDD 5G NR FR1 TDD	8.58 8.49 8.53 8.54 8.54 8.51	±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10762 AAC 10763 AAC 10764 AAC 10765 AAC 10766 AAC 10766 AAC 10767 AAE 10768 AAD 10767 AAD 10770 AAD 10771 AAD 10772 AAD 10772 AAD 10775 AAD 10775 AAD 10775 AAD 10778 AAD 10778 AAD 10778 AAD 10778 AAD 10778 AAD 10778 AAC 10780 AAC 10780 AAC 10780 AAD 10781 AAD 10782 AAD 10783 AAC 10784 AAD 10785 AAD 10785 AAD 10787 AAC 10788 AAD 10789 AAD 10799 AAD 10791 AAE 10792 AAD 10793 AAD 10791 AAE 10792 AAD 10793 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10798 AAD 10798 AAD 10798 AAD 10798 AAD 10798 AAD 10799 AAD 10790 AAD 10791 AAE	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) SG NR (CP-OFDM, 1 RB, 5MHz, OPSK, 15 kHz) SG NR (CP-OFDM, 1 RB, 15 MHz, OPSK, 15 kHz) SG NR (CP-OFDM, 1 RB, 15 MHz, OPSK, 15 kHz) SG NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 15 kHz) SG NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 15 kHz)	WLAN WLAN WLAN WLAN WLAN SG NR FR1 TDD 5G NR FR1 TDD	8.49 8.53 8.54 8.54 8.51	±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10763 AAC 10764 AAC 10765 AAC 10765 AAC 10766 AAC 10768 AAD 10768 AAD 10769 AAD 10770 AAD 10771 AAD 10772 AAD 10773 AAD 10774 AAD 10775 AAC 10778 AAD 10777 AAC 10778 AAD 10778 AAD 10778 AAD 10778 AAD 10780 AAD 10781 AAD 10781 AAD 10782 AAD 10782 AAD 10783 AAC 10784 AAD 10785 AAD 10786 AAD 10787 AAC 10788 AAD 10789 AAD 10789 AAD 10780 AAD 10780 AAD 10781 AAC 10780 AAD 10781 AAC 10782 AAD 10783 AAC 10786 AAD 10787 AAD 10788 AAD 10789 AAD 10790 AAD 10791 AAC 10791 AAC 10792 AAD 10793 AAD 10794 AAD 10795 AAD 10795 AAD 10796 AAD 10797 AAD 10797 AAD 10798 AAD 10799 AAD 10806 AAD 10806 AAD 10806 AAD 10807 AAD 10807 AAD 10808 AAD 10808 AAD	IEEE 802.11ax (160 MHz, MCS8, 99pc dufy cycle) IEEE 802.11ax (160 MHz, MCS9, 99pc dufy cycle) IEEE 802.11ax (160 MHz, MCS10, 99pc dufy cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc dufy cycle) 5G NR (CP-OFDM, 1 RB, 5 MHz, OPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 15 MHz, OPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 15 kHz)	WLAN WLAN WLAN WLAN 5G NR FR1 TDD 5G NR FR1 TDD	8.53 8.54 8.54 8.51	±9.6 ±9.6
10764 AAC 10765 AAC 10766 AAC 10766 AAC 10766 AAC 10768 AAD 10769 AAD 10770 AAD 10771 AAD 10772 AAD 10773 AAD 10775 AAD 10775 AAD 10776 AAD 10778 AAD 10780 AAD 10781 AAD 10782 AAD 10782 AAD 10783 AAE 10784 AAD 10789 AAC 10789 AAC 10789 AAD 10780 AAD 10781 AAD 10782 AAD 10783 AAE 10784 AAD 10785 AAD 10786 AAD 10787 AAD 10788 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10799 AAD 10805 AAD 10806 AAD 10806 AAD 10807 AAD 10807 AAD 10808 AAD 10808 AAD	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) 5G NR (CP-OFDM, 1 RB, 5 MHz, OPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 26 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	WLAN WLAN WLAN 5G NR FR1 TDD 5G NR FR1 TDD	8.54 8.54 8.51	±9.6
10765 AAC 10766 AAC 10767 AAC 10767 AAD 10768 AAD 10769 AAD 10770 AAD 10771 AAD 10772 AAD 10774 AAD 10775 AAD 10775 AAD 10776 AAD 10776 AAD 10778 AAD 10780 AAD 10781 AAD 10782 AAD 10782 AAD 10783 AAC 10783 AAC 10784 AAD 10784 AAD 10785 AAD 10786 AAD 10787 AAC 10788 AAD 10789 AAD 10787 AAD 10788 AAD 10789 AAD 10789 AAD 10780 AAD 10790 AAD 10791 AAC 10791 AAC 10791 AAC 10793 AAD 10791 AAC 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10797 AAD 10798 AAD 10798 AAD 10799 AAD 10799 AAD 10799 AAD 10799 AAD 10790 AAD 10790 AAD 10790 AAD 10791 AAC 10790 AAD 10791 AAC 10790 AAD 10791 AAC 10790 AAD 10800 AAD 10800 AAD 10800 AAD 10800 AAD 10812 AAD 10812 AAD	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) 5G NR (CP-OFDM, 1 RB, 5 MHz, OPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	WLAN WLAN 5G NR FR1 TDD 5G NR FR1 TDD	8.54 8.51	±9.6
10766 AAC 10767 AAE 10768 AAD 10768 AAD 10768 AAD 10770 AAD 10771 AAD 10772 AAD 10772 AAD 10775 AAD 10776 AAD 10776 AAD 10777 AAC 10776 AAD 10777 AAC 10778 AAD 10779 AAC 10780 AAD 10781 AAD 10782 AAD 10783 AAE 10784 AAD 10783 AAE 10784 AAD 10785 AAD 10783 AAE 10784 AAD 10785 AAD 10787 AAC 10788 AAD 10789 AAD 10789 AAD 10789 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10796 AAD 10797 AAD 10796 AAD 10797 AAD 10798 AAD 10798 AAD 10798 AAD 10799 AAD 10800 AAD 10800 AAD 10800 AAD 10800 AAD 10801 AAD 10801 AAD 10801 AAD 10801 AAD	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) 5G NR (CP-OFDM, 1 RB, 5MHz, OPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	WLÂN 5G NR FR1 TDD 5G NR FR1 TDD	8.51	
10767 AAE 10768 AAD 10769 AAD 10779 AAO 10771 AAD 10772 AAD 10773 AAD 10775 AAD 10776 AAD 10776 AAD 10777 AAC 10777 AAC 10778 AAD 10778 AAD 10778 AAD 10780 AAD 10781 AAD 10781 AAD 10781 AAD 10782 AAD 10784 AAD 10784 AAD 10785 AAD 10785 AAD 10786 AAD 10787 AAC 10788 AAD 10787 AAC 10788 AAD 10788 AAD 10789 AAD 10789 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10797 AAD 10798 AAD 10798 AAD 10798 AAD 10798 AAD 10799 AAD 10799 AAD 10796 AAD 10797 AAD 10798 AAD 10809 AAD 10800 AAD 10800 AAD 10800 AAD 10801 AAD 10801 AAD 10801 AAD	5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 5G NR FR1 TDD		+0 P
10768 AAD 10769 AAD 10770 AAD 10771 AAD 10771 AAD 10773 AAD 10774 AAD 10775 AAD 10775 AAD 10776 AAD 10777 AAC 10778 AAD 10778 AAD 10778 AAD 10780 AAD 10781 AAD 10782 AAD 10782 AAD 10783 AAE 10783 AAE 10784 AAD 10785 AAD 10786 AAD 10787 AAD 10787 AAD 10788 AAD 10789 AAD 10789 AAD 10790 AAD 10791 AAE 10790 AAD 10791 AAE 10792 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10797 AAD 10798 AAD 10798 AAD 10799 AAD 10806 AAD 10806 AAD 10806 AAD 10807 AAD 10808 AAD 10808 AAD 10808 AAD 10809 AAD 10809 AAD 10808 AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.00	13.0
10769 AAD 10770 AAO 10771 AAD 10772 AAD 10773 AAD 10773 AAD 10775 AAD 10775 AAD 10776 AAD 10776 AAD 10778 AAD 10778 AAD 10778 AAD 10778 AAD 10780 AAD 10781 AAD 10782 AAD 10782 AAD 10783 AAE 10784 AAD 10785 AAD 10786 AAD 10787 AAD 10787 AAD 10788 AAD 10789 AAD 10789 AAD 10789 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10797 AAD 10798 AAD 10799 AAD 10800 AAD 10800 AAD 10800 AAD 10800 AAD 10801 AAD 10801 AAD 10801 AAD 10806 AAD 10809 AAD 10812 AAD 10812 AAD	5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 15kHz) 5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 15kHz) 5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 15kHz)		1.00	±9.6
10770 AAD 10771 AAD 10771 AAD 10772 AAD 10772 AAD 10773 AAD 10775 AAD 10776 AAD 10776 AAD 10777 AAC 10778 AAD 10779 AAC 10780 AAD 10781 AAD 10782 AAD 10783 AAE 10784 AAD 10783 AAE 10784 AAD 10785 AAD 10786 AAD 10787 AAD 10787 AAD 10787 AAD 10788 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10799 AAD 10796 AAD 10797 AAD 10798 AAD 10798 AAD 10798 AAD 10798 AAD 10799 AAD 10798 AAD 10799 AAD 10799 AAD 10800 AAD 10800 AAD 10800 AAD 10801 AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)		8.01	±9.6
10771 AAD 10772 AAD 10772 AAD 10773 AAD 10775 AAD 10776 AAD 10776 AAD 10777 AAC 10778 AAD 10779 AAC 10780 AAD 10781 AAD 10781 AAD 10783 AAE 10784 AAD 10785 AAD 10785 AAD 10786 AAD 10787 AAC 10788 AAD 10788 AAD 10788 AAD 10788 AAD 10789 AAD 10789 AAD 10790 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10796 AAD 10797 AAD 10798 AAD 10798 AAD 10798 AAD 10798 AAD 10798 AAD 10799 AAD 10798 AAD 10799 AAD 10801 AAD 10801 AAD 10803 AAD 10803 AAD 10806 AAD 10806 AAD 10812 AAD 10812 AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10772 AAD 10773 AAD 10774 AAD 10775 AAD 10775 AAD 10777 AAC 10778 AAD 10777 AAC 10778 AAD 10779 AAC 10781 AAD 10781 AAD 10782 AAD 10782 AAD 10783 AAE 10784 AAD 10786 AAD 10786 AAD 10787 AAD 10788 AAD 10787 AAD 10788 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10791 AAE 10792 AAD 10793 AAD 10794 AAD 10795 AAD 10795 AAD 10796 AAD 10797 AAD 10797 AAD 10798 AAD 10799 AAD 10799 AAD 10799 AAD 10799 AAD 10803 AAD 10806 AAD 10805 AAD 10806 AAD 10806 AAD 10807 AAD 10808 AAD 10808 AAD 10809 AAD 10812 AAD 10812 AAD 10812 AAD		5G NR FR1 TDD	8.02	±9.6
10773 AAD 10774 AAD 10775 AAD 10775 AAD 10775 AAD 10776 AAD 10777 AAC 10778 AAD 10779 AAC 10780 AAD 10782 AAD 10782 AAD 10783 AAE 10783 AAE 10784 AAD 10786 AAD 10787 AAD 10787 AAD 10787 AAD 10788 AAD 10788 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10797 AAD 10798 AAD 10799 AAD 10800 AAD 10800 AAD 10800 AAD 10800 AAD 10800 AAD 10801 AAD 10801 AAD 10800 AAD 10801 AAD 10800 AAD 10801 AAD		5G NR FR1 TDD	8.02	±9.6
10774 AAD 10775 AAD 10775 AAD 10776 AAD 10776 AAD 10777 AAC 10778 AAD 10779 AAC 10780 AAD 10781 AAD 10781 AAD 10782 AAD 10783 AAE 10784 AAD 10785 AAD 10786 AAD 10787 AAD 10787 AAD 10788 AAD 10787 AAD 10788 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10791 AAE 10792 AAD 10793 AAD 10796 AAD 10797 AAD 10798 AAD 10798 AAD 10799 AAD 10799 AAD 10799 AAD 10798 AAD 10798 AAD 10798 AAD 10799 AAD 10798 AAD 10799 AAD 10800 AAD 10800 AAD 10800 AAD 10800 AAD 10801 AAD 10801 AAD 10808 AAD 10808 AAD 10808 AAD 10808 AAD 10808 AAD 10808 AAD 10812 AAD 10812 AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,23	±9.6
10775 AAD 10776 AAD 10776 AAD 10777 AAC 10777 AAC 10779 AAC 10780 AAD 10781 AAD 10781 AAD 10783 AAE 10784 AAD 10785 AAD 10785 AAD 10786 AAD 10787 AAD 10787 AAD 10788 AAD 10789 AAD 10798 AAD 10798 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10796 AAD 10796 AAD 10796 AAD 10797 AAD 10798 AAD 10805 AAD 10806 AAD 10806 AAD 10806 AAD 10812 AAD 10812 AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
10776 AAD 10777 AAC 10778 AAD 10777 AAC 10778 AAD 10778 AAD 10778 AAD 10781 AAD 10782 AAD 10782 AAD 10783 AAE 10785 AAD 10785 AAD 10786 AAD 10787 AAD 10787 AAD 10787 AAD 10788 AAD 10789 AAD 10789 AAD 10790 AAD 10791 AAE 10790 AAD 10791 AAE 10790 AAD 10791 AAE 10790 AAD 10791 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10798 AAD 10799 AAD 10801 AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10777 AAC 10778 AAD 10779 AAC 10778 AAD 10779 AAC 10780 AAD 10781 AAD 10782 AAD 10783 AAE 10785 AAD 10786 AAD 10786 AAD 10787 AAD 10787 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10795 AAD 10797 AAD 10797 AAD 10798 AAD 10798 AAD 10799 AAD 10799 AAD 10799 AAD 10800 AAD 10801 AAD	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10778 AAD 10779 AAC 10780 AAD 10781 AAD 10782 AAD 10782 AAD 10783 AAE 10783 AAE 10784 AAD 10785 AAD 10786 AAD 10787 AAD 10789 AAD 10801 AAD 10802 AAD 10803 AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10779 AAC 10780 AAD 10781 AAD 10782 AAD 10783 AAE 10784 AAD 10785 AAD 10785 AAD 10787 AAD 10788 AAD 10788 AAD 10788 AAD 10789 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10803 AAD 10803 AAD 10803 AAD 10803 AAD 10806 AAD 10806 AAD 10801 AAD 10806 AAD 10808 AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10780 AAD 10781 AAD 10782 AAD 10783 AAE 10784 AAD 10785 AAD 10785 AAD 10786 AAD 10786 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10792 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10799 AAD 10799 AAD 10799 AAD 10799 AAD 10799 AAD 10799 AAD 10800 AAD 10800 AAD 10800 AAD 10800 AAD 10800 AAD 10800 AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10781 AAD 10782 AAD 10783 AAE 10783 AAE 10784 AAD 10785 AAD 10786 AAD 10787 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10794 AAD 10795 AAD 10795 AAD 10796 AAD 10797 AAD 10797 AAD 10797 AAD 10798 AAD 10799 AAD 10799 AAD 10799 AAD 10799 AAD 10805 AAD 10806 AAD 10806 AAD 10806 AAD 10810 AAD	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
10782 AAD 10783 AAE 10784 AAD 10785 AAC 10786 AAD 10786 AAD 10786 AAD 10787 AAD 10788 AAD 10789 AAD 10799 AAD 10793 AAD 10793 AAD 10793 AAD 10793 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10797 AAD 10797 AAD 10798 AAD 10797 AAD 10798 AAD 10798 AAD 10799 AAD 10803 AAD 10803 AAD 10804 AAD 10805 AAD 10803 AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,38	±9.6
10783 AAE 10784 AAD 10785 AAD 10786 AAD 10787 AAD 10787 AAD 10788 AAD 10789 AAD 10789 AAD 10789 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10795 AAD 10796 AAD 10796 AAD 10797 AAD 10797 AAD 10798 AAD 10803 AAD 10803 AAD 10803 AAD 10803 AAD 10806 AAD 10806 AAD 10800 AAD 10801 AAD 10803 AAD 10803 AAD 10803 AAD 10804 AAD 10805 AAD 10806 AAD 10807 AAD 10808 AAD 10808 AAD 10808 AAD 10808 AAD 10808 AAD 10808 AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10784 AAD 10785 AAD 10785 AAD 10786 AAD 10787 AAD 10788 AAD 10788 AAD 10789 AAD 10791 AAE 10791 AAE 10792 AAD 10793 AAD 10794 AAD 10795 AAD 10795 AAD 10797 AAD 10797 AAD 10798 AAD 10799 AAD 10790 AAD 10790 AAD 10790 AAD 10790 AAD 10802 AAD 10803 AAD 10806 AAD 10806 AAD 10806 AAD 10807 AAD 10808 AAD 10809 AAD 10801 AAD 10801 AAD 10801 AAD 10802 AAD 10803 AAD 10803 AAD 10804 AAD 10806 AAD 10806 AAD 10807 AAD 10808 AAD	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10785 AAD 10786 AAD 10787 AAD 10788 AAD 10788 AAD 10788 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10794 AAD 10795 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10799 AAD 10799 AAD 10799 AAD 10799 AAD 10790 AAD	5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.31	±9.6
10786 AAD 10787 AAD 10788 AAD 10788 AAD 10788 AAD 10789 AAD 10791 AAE 10792 AAD 10793 AAD 10795 AAD 10795 AAD 10796 AAD 10796 AAD 10797 AAD 10799 AAD 10799 AAD 10799 AAD 10801 AAD 10802 AAD 10803 AAD 10806 AAD 10809 AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	±9,6
10787 AAD 110788 AAD 110788 AAD 110790 AAD 110791 AAE 110792 AAD 110793 AAD 110793 AAD 110795 AAD 110795 AAD 110795 AAD 110797 AAD 110797 AAD 110798 AAD 110799 AAD 110799 AAD 110801 AAD 110803 AAD 110806 AAD 110806 AAD 110806 AAD 110806 AAD 110807 AAD 110807 AAD 110807 AAD 110808 AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
10788 AAD 10789 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10798 AAD 10799 AAD 10801 AAD 10802 AAD 10805 AAD 10806 AAD 10806 AAD 10806 AAD 10807 AAD 10808 AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10789 AAD 10790 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10794 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10799 AAD 10799 AAD 10801 AAD 10802 AAD 10805 AAD 10806 AAD 10806 AAD 10806 AAD 10807 AAD 10808 AAD 10808 AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10790 AAD 10791 AAE 10792 AAD 10793 AAD 10793 AAD 10795 AAD 10795 AAD 10796 AAD 10797 AAD 10799 AAD 10799 AAD 10799 AAD 10802 AAD 10802 AAD 10803 AAD 10806 AAD 10806 AAD 10806 AAD 10812 AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10791 AAE 10792 AAD 10793 AAD 10793 AAD 10795 AAD 10796 AAD 10796 AAD 10797 AAD 10798 AAD 10799 AAD 10799 AAD 10801 AAD 10802 AAD 10803 AAD 10805 AAD 10806 AAD 10806 AAD 10810 AAD 10810 AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±9.6
10792 AAD 10793 AAD 10794 AAD 10795 AAD 10795 AAD 10796 AAD 10797 AAD 10798 AAD 10801 AAD 10801 AAD 10803 AAD 10805 AAD 10806 AAD 10806 AAD 10806 AAD 10806 AAD 10807 AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10793 AAD 10794 AAD 10795 AAD 10796 AAD 10796 AAD 10797 AAD 10799 AAD 10801 AAD 10802 AAD 10803 AAD 10805 AAD 10806 AAD 10806 AAD 10806 AAD 10809 AAD 10812 AAD	5G NR (CP-OFDM, 1 RB, 5 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10794 AAD 10795 AAD 10796 AAD 10796 AAD 10797 AAD 10799 AAD 10802 AAD 10802 AAD 10805 AAD 10806 AAD 10806 AAD 10806 AAD 10806 AAD 10807 AAD 10808 AAD 10808 AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10795 AAD 10796 AAD 10796 AAD 10797 AAD 10798 AAD 10799 AAD 10801 AAD 10802 AAD 10803 AAD 10805 AAD 10806 AAD 10806 AAD 10809 AAD 10812 AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
10796 AAD 10797 AAD 10798 AAD 10799 AAD 10801 AAD 10802 AAD 10803 AAD 10803 AAD 10806 AAD 10806 AAD 10809 AAD 10809 AAD 10812 AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10.797 AAD 10.798 AAD 10.799 AAD 10.801 AAD 10.802 AAD 10.803 AAD 10.805 AAD 10.806 AAD 10.806 AAD 10.806 AAD 10.806 AAD 10.807 AAD 10.808 AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
10798 AAD 10799 AAD 10801 AAD 10802 AAD 10803 AAD 10805 AAD 10806 AAD 10806 AAD 10809 AAD 10810 AAD 10811 AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10799 AAD 10801 AAD 10802 AAD 10803 AAD 10803 AAD 10806 AAD 10806 AAD 10809 AAD 10810 AAD 10812 AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	±9.6
10801 AAD 10802 AAD 10803 AAD 10803 AAD 10806 AAD 10806 AAD 10809 AAD 10810 AAD 10812 AAD 10812 AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10802 AAD 10803 AAD 10805 AAD 10806 AAD 10809 AAD 10810 AAD 10812 AAD 10817 AAE	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	19.6
10803 AAD 10805 AAD 10806 AAD 10809 AAD 10810 AAD 10812 AAD 10817 AAE	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9,6
0805 AAD 0806 AAD 0809 AAD 0810 AAD 0812 AAD 0817 AAE	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
0806 AAD 0809 AAD 0810 AAD 0812 AAD 0817 AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
0809 AAD 0810 AAD 0812 AAD 0817 AAE	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8,34	±9.6
0810 AAD 0812 AAD 0817 AAE	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
0812 AAD 0817 AAE	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
0812 AAD 0817 AAE	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8,34	±9.6
0817 AAE	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
	5G NR (CP-QFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
0819 AAD		5G NR FR1 TDD	8.33	±9.6
	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FRI TDD	8.30	
		5G NR FRI TDD	8.41	±9.6
	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
0823 AAD	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	
0824 AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
	SG NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) SG NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	JUNEAU IDD	8.41	±9.6
D828 AAD :	SG NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	UncE k =
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
	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	AAD	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
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	19.6
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
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
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, OPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10864	AAD	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	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	19.6
10871	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16OAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10872	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
10873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	
10874	AAE	5G NR (DFT-s-OFDM, 100% R8, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10875	AAE	5G NR (CP OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 18QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
10880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD		±9.6
10881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
10882	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)		5.75	±9.6
10883	AAE	5G NR (DFT-s-OFDM. 1 RB, 50 MHz; 16QAM, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
10884	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
10885	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9,6
10886	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10887	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10888	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10889	AAE	5G NR (CP-OFDM, 100% RB, 50MHz, QPSK, 120KHz)	5G NR FR2 TDD	8.35	±9.6
10890	AAE	5G NR (CP-OFDM, 1 NB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	±9,6
10891	AAE	5G NR (CP-OFDM, 100% HB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	±9.6
0892	AAE		5G NR FR2 TDD	8.13	±9.6
0897	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8,41	±9.6
0898	AAB	5G NR (DFT-s-OFDM, 1 RB, 5MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5,66	±9.6
0899		5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,67	±9.6
		SG NR (DFT-s-OFDM, 1 RB, 15MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.67	±9.6
0900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FRI TDD	5.68	±9,6
0901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0902	AAB	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0903	AAB	5G NR (DFT's-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.68	±9.6
0904	AAB	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0905	AAB	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0906	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0907	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
0908	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
0909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
0910		5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	1		1 mar 20 1 Mar

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10911		5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10912	-	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.8
10913		5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10914	-	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,85	±9.6
10915	AAB	5G NR (DFT:s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	-	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,95	±9.5
10926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	19.6
10931	AAC	5G NR (DFT-s-OFDM, 1 RB. 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5,51	±9.6
10935	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.51	±9.6
10936	1000	5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10940		5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9,6
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FOO	5,89	±9.6
	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10.942		5G NR (DFT-s-OFDM, 50% RB, 40 MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9,6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.87	±9.6
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10952	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.25	±9.6
10954	AAA		5G NR FR1 FDD	8.15	±9.6
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.6
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-OAM, 30 kHz) 5G NR DL (CP-OFDM, TM 3.1, 16 MHz, 64-OAM, 30 kHz)	5G NR FR1 FDD	8,31	±9.6
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	SG NR FR1 FDD	8.33	±9.6
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15kHz)	5G NA FRI TDD	9.32	±9.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
10964	AAC	5G NR DL (CP-OFDM, 1M 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
10966	AAB		5G NR FR1 TDD	9.37	±9.6
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	19.6
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	±9.6
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	9.49	±9.6
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	11.59	±9.6
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
10978	AAA	ULLA BDR	5G NR FR1 TDD	10.28	±9.6
10979	AAA	ULLA HDR4	ULLA	1.16	±9,6
109/9	AAA	ULLA HDR8	ULLA	8.58	±9.6
10981	AAA	ULLA HDRp4	ULLA	10.32	±9.6
10982	AAA	ULLA HDRp8	ULLA	3.19	±9.6
· wwith	CALAN.	Security of the security of th	ULLA	3.43	±9.6

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10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.5
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	19.6
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	19.6
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	±9.6
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-OAM, 30 kHz)	5G NR FR1 TDD	9.33	±9.6
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD		±9.6
11006	AAA	5G NR DL (CP-OFDM, TM 3:1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.70 8.55	±9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD		±9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.46	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 KHz)	5G NR FR1 FDD	8.51	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11013	AAA	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.68	±9.6
11014	AAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)		8.47	±9.6
11015	AAA	IEEE 802:11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.45	±9,6
11016	AAA	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAA	IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.44	±9.6
11018	AAA	IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.41	±9.6
11019	AAA	IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.40	19.6
11020	AAA	IEEE 802.11be (320 MHz; MCS8, 99pc duty cycle)	WLAN	8.29	±9.6
1021	AAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.27	±9.6
1022	AAA	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.46	±9.6
1023	AAA	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8,36	±9.6
1024	AAA	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8,09	±9.6
1025	AAA	IEEE 802.11be (320 MHz, MGS12, 99pc duty cycle)	WLAN.	8.42	±9.6
1026	AAA		WLAN	8.37	±9.6
1020	MAA	IEEE 802 11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	±9.6

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



Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





- Schweizerischer Kalibrierdienst Service suisse d'étalonnage
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- Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Client

Dt&C

Gyeonggi-do, Republic of Korea

Certificate No.

EX-3866 May23

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:3866

Calibration procedure(s)

QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,

QA CAL-25.v8

Calibration procedure for dosimetric E-field probes

Calibration date

May 04, 2023

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

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

Calibration Equipment used (M&TE critical for calibration)

ID	Cal Date (Certificate No.)	Scheduled Calibration
SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
SN: 1249	20-Oct-22 (OCP-DAK3.5-1249 Oct22)	Oct-23
SN: 1016		Oct-23
SN: CC2552 (20x)		Mar-24
SN: 660		Mar-24
SN: 3013		Jan-24
	SN: 104778 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x) SN: 660	SN: 104778 30-Mar-23 (No. 217-03804/03805) SN: 103244 30-Mar-23 (No. 217-03804) SN: 1249 20-Oct-22 (OCP-DAK3.5-1249_Oct22) SN: 1016 20-Oct-22 (OCP-DAK12-1016_Oct22) SN: CC2552 (20x) 30-Mar-23 (No. 217-03809) SN: 660 16-Mar-23 (No. DAE4-660_Mar23)

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

Name Function Signature
Calibrated by Jeton Kastrati Laboratory Technician

Approved by Sven Kühn Technical Manager

Issued: May 07, 2023

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

Certificate No: EX-3866_May23

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- Swiss Calibration Service

Accreditation No.: SCS 0108

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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 θ θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta = 0$ is

normal to probe axis

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

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) 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 θ = 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, 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 (or t > 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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EX3DV4 - SN:3866 May 04, 2023

Parameters of Probe: EX3DV4 - SN:3866

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc $(k=2)$
Norm (μV/(V/m) ²) ^A	0.41	0.33	0.36	±10.1%
DCP (mV) B	102.0	106.0	106.0	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A dB	$dB\sqrt{\mu V}$	С	D dB	VR mV	Max dev.	Max Unc ^E k = 2
0	CW	X	0.00	0.00	1.00	0.00	161.0	±3.0%	±4.7%
		Y	0.00	0.00	1.00		147.8		12.1
		Z	0.00	0.00	1.00		148.6		
10352	Pulse Waveform (200Hz, 10%)	X	20.00	91.39	22.12	10.00	60.0	±2.8%	±9.6%
	The state of the s	Y	12.31	83.14	17.59	1	60.0		
		Z	4.05	70.23	13.28		60.0		4 4 9
10353	Pulse Waveform (200Hz, 20%)	X	20.00	90.73	20.43	6.99	80.0	±1.6%	±9.6%
	The second second	Y	20.00	88.60	17.97	11111	80.0	7	35.5
		Z	3.80	71.96	12.74	4	80.0		
10354	Pulse Waveform (200Hz, 40%)	X	20.00	90.75	18.84	3.98	95.0	±1.0%	±9.6%
	100000000000000000000000000000000000000	Y	20.00	90.05	17.26	-	95.0		1
		Z	2.74	71.52	11.18		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	20.00	90.63	17.34	2.22	120.0	±0.9%	±9.6%
		Y	20.00	91,26	16,57	100	120.0		2.00
		Z	0.65	63.93	7.23		120.0		
10387	QPSK Waveform, 1 MHz	X	1.78	65.56	14.95	1.00	150.0	±3.1%	±9.6%
		Y	1.59	66.17	14.75	2.5	150.0		0.002
		Z	1.39	64.85	13.64	1	150.0		
10388	QPSK Wavelorm, 10 MHz	X	2.37	68.44	15.57	0.00	150.0	±0.9%	±9.6%
		Y	2.12	67.84	15.52		150.0		
		Z	1.88	66.16	14.53		150.0		
10396	64-QAM Waveform, 100 kHz	X	3.92	72.94	19.51	3.01	150.0	±0.7%	±9.6%
		Y	3.30	73.24	19.74		150.0		7.0
		Z	2.97	71.55	19.00	1	150.0		
10399	64-QAM Waveform, 40 MHz	X	3.61	67.42	15.76	0.00	150.0	±2.7%	±9.6%
	and the second second	Y	3.42	67.08	15.64	400	150.0		1
		Z	3.24	66.25	15.13		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.91	65.26	15.24	0.00	150.0	±4.6%	±9.6%
	22 P. D. S.	Y	4.76	65.65	15.43	1	150.0	1	1000
		Z	4.59	65.22	15.15		150.0		

Note: For details on UID parameters see Appendix

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

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A The uncertainties of Norm X.Y.Z do not affect the E²-field uncertainty Inside TSL (see Page 5).

E Linearization parameter uncertainty for maximum specified field-strength.

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

EX3DV4 - SN:3866 May 04, 2023

Parameters of Probe: EX3DV4 - SN:3866

Sensor Model Parameters

	C1 fF	C2 fF	α V-1	T1 msV ⁻²	T2 msV ⁻¹	T3 ms	T4 V-2	T5 V-1	Т6
х	68.4	510.41	35.43	21.39	1.15	5.07	0.50	0.69	1.01
9	42.4	307.64	33.80	11.34	0.29	5.05	1.97	0.11	1.01
Z	37.6	275.45	34.28	8.52	0.69	5.01	1.79	0.12	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-118.0°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	397 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.



Parameters of Probe: EX3DV4 - SN:3866

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
750	41.9	0.89	9.52	9.52	9.52	0.63	0.80	±12.0%
835	41.5	0.90	9.11	9.11	9.11	0.63	0.80	±12.0%
900	41.5	0.97	8.99	8.99	8.99	0.43	0.92	±12.0%
1750	40.1	1.37	7.98	7.98	7.98	0.29	0.86	±12.0%
1900	40.0	1.40	7.67	7.67	7.67	0.32	0.86	±12.0%
2300	39.5	1.67	7.45	7.45	7.45	0.31	0.90	±12.0%
2450	39.2	1.80	7.12	7.12	7.12	0.33	0.90	±12.0%
2600	39.0	1.96	7.01	7.01	7.01	0.29	0.90	±12.0%
5200	36.0	4.66	5.19	5.19	5.19	0.40	1.80	±14.0%
5300	35.9	4.76	5.04	5.04	5.04	0.40	1.80	±14.0%
5500	35.6	4.96	4.50	4.50	4.50	0.40	1.80	±14.0%
5600	35.5	5.07	4.41	4.41	4.41	0.40	1.80	±14.0%
5800	35.3	5.27	4.60	4.60	4.60	0.40	1.80	±14.0%

C 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.

The probes are calibrated using tissue simulating liquids (TSL) that deviate for z and or by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10%. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1%

for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

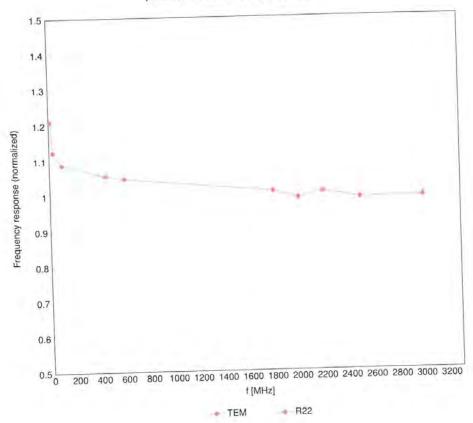
G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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



May 04, 2023

Frequency Response of E-Field

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



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

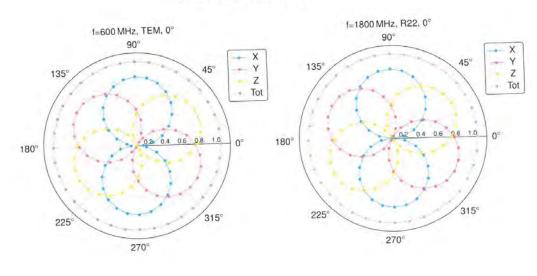
Certificate No: EX-3866_May23

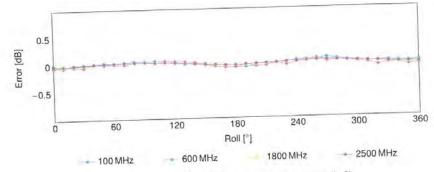
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Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$





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

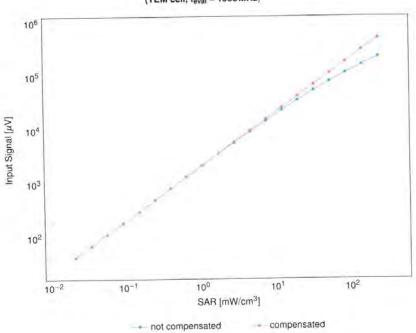
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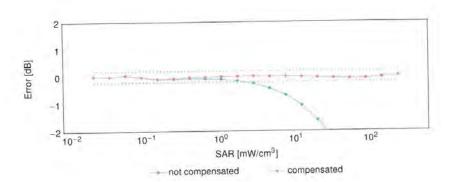
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Dynamic Range f(SAR_{head})

(TEM cell, $f_{eval} = 1900\,\text{MHz})$





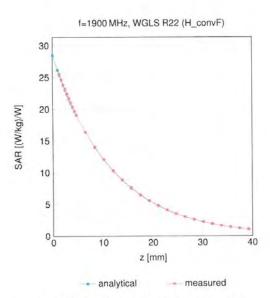
Uncertainty of Linearity Assessment: ±0.6% (k=2)

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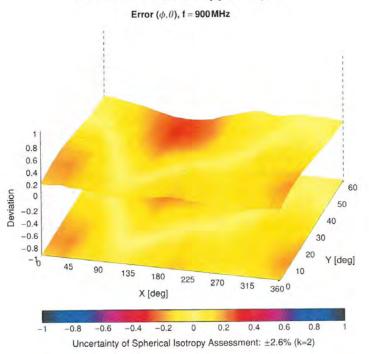
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Conversion Factor Assessment



Deviation from Isotropy in Liquid



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Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	UncE k =
0	-	CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10:00	±9.6
0011	CAC	UMTS:FDD (WCDMA)	WCDMA	2.91	+9.6
0012	CAB	IEEE 802 116 WIFI 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	+9.6
0013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
0021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
0023	DAC	GPRS-FDD (TDMA, GMSK, TN D)	GSM	9.57	±9.6
0024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	+9.6
0025	DAG	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	+9.6
0026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
0027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6
	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6
0028	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6
0029	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5,30	±9.6
0030	0.77	THE PROPERTY OF THE PROPERTY O	Bluetooth	1.87	±9.6
0031	CAA	IEEE 802 15.1 Bluotooth (GFSK, DH3)	Bluetooth	1.16	±9.6
0032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	7.74	±9.6
0033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	1,000,000	4.53	
0034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	3.83	±9.6
0035	CAA	(EEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	1	
0036	CAA	(EEE 802.15,1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	+9.6
0037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
0038	CAA	IEEE 802 15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	+9.6
0039	CAB	GDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
0042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7,78	±9.6
0044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
0048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.€
0049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
0056	CAA	UMTS-TDD (TD-SCDMA, 1,28 Mcps)	TD-SCDMA	11.01	±9.6
0058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
0059	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	±9.6
10061	CAB	IEEE 802 11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
10062	CAD	IEEE 802.11a/n WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.€
10063	CAD	IEEE 802,11a/h WIF; 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	9.00	±9.6
	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10066		IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10/12	+9.6
10067	CAD		WLAN	10.24	±9.6
10068		IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps)	WLAN	10.56	±9.6
10069		IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	9.83	±9.6
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	and the second s	9.62	±9.0
10072		IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9,62	+9.6
10.073		IEEE 802 11g WiFi 2 4 GHz (DSSS/OFDM, 18 Mbps)	37.40.700	10:30	±9.6
10074	_	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN		
10075		IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9)
10076		IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.
10077	CAB	IEEE 802,11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.
10081		CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.
10098		UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.
10099	DAC	EDGE-FDD (TDMA, BPSK, TN 0-4)	GSM	9.55	±9.
10100		LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FOD	5,67	±9.
10101		LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9,
10102		LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9,
10103			LTE-TDD	9.29	±9,
10104	-	The state of the s	LTE-TOD	9.97	±9.
10104			LTE-TDD	10.01	±9.
2.7			LTE-FDD	5.80	+9
10108			LTE-FDD	6.43	+9.
10109			LTE FDD	5.75	+9.
10110			LTE-FDD	6.44	19
10111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LIE-FDU	0.44	1 2

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UID	Rev	Communication System Name	Group	PAR (dB)	Unck k =
0112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	49.6
0113	CAH	LTE-FDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)	LTE-FDD	6,62	±9.6
0114	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	+9.6
0115	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
0116	CAD	IEEE 802.11n (HT Greenfield, 135Mbps, 64-QAM)	WLAN	8.15	+9.6
0117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
0118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-OAM)	WLAN	8,59	±9.6
0119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8,13	±9.6
0.140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-FDD	6.49	+9.6
0141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)	LTE-FDD	6.53	+9.6
0142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3MHz, OPSK)	LTE-FDD	5.73	±9.6
0143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
0144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3MHz, 64-QAM)	LTE-FDD	8.65	±9.6
0145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9,6
0146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9,6
0147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
0149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
0150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
0151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	+9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	+9.6
0153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64 QAM)	LTE-TD0	10.05	±9.6
0154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	19.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9,6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)	LTE-FDD	5.49	±9,6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	+9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	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	±9,6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	+9.6
10171	AAF	LTE-FDD (SC FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-DAM)	LTE-FDD	8,52	+9.6
10177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-FDD	5.73	±9.6
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10.181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6
10182	CAF	LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK)	LTE-FDD	5.73	±9.6
10185	CAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	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, 16-QAM)	LTE-FDD	6.52	±9,6
10189	AAG	LTE-FDD (SC-FDMA, 1 RB. 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.
10193	ÇAD	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9,6
10194	-	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-OAM)	WLAN	8.12	49.8
10195	-	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
10196	-	IEEE 802 11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.0
10197		IEEE 802.11n (HT Mixed, 39 Mbps, 16-OAM)	WLAN	8.13	49.6
10198	-	(EEE 802,11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.
10219	-	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.
10220		IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.
10221		The state of the s	WLAN	8.27	±9.
10222			WLAN	8.06	+9,1
10223	-		WLAN	8.48	±9.
10224			WLAN	8.08	±9.

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10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
0226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TOD	9.49	±9.6
0227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	+96
0228	CAC	LTE-TDD (SG-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9,22	±9.6
0229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
0231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3MHz; QPSK)	LTE-TOD	9.19	±9.6
0232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-TDD	10.25	±9.6
0234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-TDD	9.21	±9.6
0235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0236	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
0237	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK).	LTE-TDD	9.21	±9.6
0238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
0239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
0240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-TDD	9.21	±9.6
0241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6
0242	CAG	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	+9.6
0243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1 4MHz, QPSK)	LTE-TDD	9,46	±9.6
0244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 15-QAM)	LTE-TDD	10.06	±9.6
0245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TOD	10.06	±9.6
0246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3MHz, QPSK)	LTE-TDD	9.30	±9.6
0247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
0248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)	LTE-TDD	10.09	±9,6
0249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5MHz, QPSK)	LTE-TOD	9,29	±9.6
0250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TOD	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-QAM)	LTE-TDD	9.90	±9.6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB. 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9,96	±9.5
10257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.8
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6
10260	CAE	LTE-TOD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6
10261	CAE	LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK)	LTE-TDD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-TDD	9.83	±9.6
10263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)	LTE-TDD	10.16	±9.6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK)	LTE-TDD	9.23	±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6
10267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-TDD	10,06	±9.6
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)	LTE-TDD	10,13	±9.6
10270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK)	LTE-TDD	9.58	±9.6
10274	CAC	UMTS-FDD (HSUPA, Subject 5, 3GPP Rel8 10)	WCDMA	4,87	±9.6
10275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rei8 4)	WCDMA	3.96	±9.6
10277		PHS (QPSK)	PHS	11.81	+9.6
10278	CAA	PHS (OPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.€
10279	CAA	PHS (QPSK, BW 884 MHz, Rollott 0.38)	PHS	12.18	+9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
10293		CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295	AAB		CDMA2000	12.49	+9.6
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, OPSK)	LTE-FDD	5.81	±9.6
10298		LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6
10299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-OAM)	LTE-FD0	6.60	±9.6
10301	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WiMAX	12.03	±9.6
10302	AAA	IEEE 802,16e WIMAX (29/18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.57	±9.€
10303			WiMAX	12.52	±9.6
10304	_	IEEE 802:16g WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WIMAX	11.86	±9.6
10305	AAA		WIMAX	15,24	±9,6
10306		IEEE 802 16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WiMAX	14.67	191

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10307	AAA	IEEE 802 16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WiMAX	14 49	±9.6
0308	AAA	IEEE 802.16e WIMAX (29.18, 10 ms, 10 MHz, 16QAM, PUSC)	WIMAX	14.46	±9.6
0309	AAA	IEEE 802.16e WIMAX (29.18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WIMAX	14.58	±9,6
0310	AAA	IEEE 802 16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WIMAX	14.57	±9.6
0311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6
0313	AAA	iDEN 1,3	IDEN	10.51	E9.6
0314	AAA	IDEN 1:6	IDEN	13.48	±9.6
0315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
0316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	+9.6
0317	AAD	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
0352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
0353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
0354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6
0355	AAA	Pulse Wavelorm (200Hz, 60%)	Generic	2.22	±9.6
0356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	19.6
-	AAA	QPSK Waveform, 1 MHz	Generic	5.10	-
0387		QPSK Waveform, 10 MHz	7 12 17 7		±9.6
0388	AAA		Generic	5.22	±9.6
0396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
0399	AAA	64-QAM Wavelorm, 40 MHz	Generic	6.27	±9.6
0400	AAE	IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
0401	AAE	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
0402	AAE	IEEE 802:11ac WIFI (B0 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
0403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
0404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
0406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6
0410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4.7,8.9, Subframe Conf-4)	LTE-TOD	7.82	±9.6
0414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	+9.6
0415	AAA	IEEE 802 11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	+9.6
0416	AAA	IEEE 802.11q WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duly cycle)	WLAN	8.23	±9.6
0417	AAC	IEEE 802,11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
0418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	49.6
0419	AAA	IEEE 802.11q WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	+9.6
0422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	±9.6
0423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	±9.6
	AAC	A 10 CLIN CLIN CONTROL	WLAN	8.40	±9.6
0424	A Company of the Comp	IEEE 802 11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.41	
0425	AAC	IEEE 802:11n (HT Greenfield, 15Mbps, BPSK)	WLAN	8.45	±9.6
0426	AAC	IEEE 802:11n (HT Greenfield, 90 Mbps, 16-OAM)			⇒9.6
10427	AAC	JEEE 802,11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6
10430	AAE	LTE-FDD (OFDMA, 5MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
0431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8,38	+9.6
10432	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8,34	±9.6
10433	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
0435	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.0
10447	AAE	LTE-FDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	+9.6
10448	AAE	LTE-FDD (QFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9,€
10450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
10456	AAC	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.6
10457	AAB	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6
10.458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10.459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10460	AAB	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6
	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
0461		LTE-TDD (SC-FDMA, 1 RB, 1 4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.30	±9.6
10462	AAC		and the same of th	8.56	
10463	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	-	+9.6
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
10465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10466	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10467	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10468	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10469	AAG	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10471	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
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10473 / 10474 / 10475 / 10475 / 10477 / 10477 / 10479 / 10480 / 10481 / 10483 / 10484 / 10485 / 10488 / 10489 / 10490 / 10493 / 10493 / 10493 / 10493 / 10493 / 10493 / 10493 / 10493 / 10493 / 10493 / 10493 / 10493 / 10493 / 10493 / 10493 / 10493 / 10493 / 10494 / 10493 / 10494 / 10493 / 10494 / 10493 / 10494 / 10493 / 10494 / 10493 / 10494 / 10495 / 10497	AAG AAF AAF AAAG AAC AAC AAC AAC AAC AAC AAC AAC AA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-OAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-OAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-OAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-OAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, 16-OAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, 16-OAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-OAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-OAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-OAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-OAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-OAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-OAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-OAM, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0PSK, UL Subframe-2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0PSK, UL Subframe-2,3,4,7,8,9)	LTE-TOD LTE-TOD	8.57 7.82 8.32 8.57 7.74 8.18 8.45 7.71 8.39 8.47 7.59 8.38 8.60 7.70 8.31	+9.6 +9.6 +9.6 +9.6 +9.6 +9.6 +9.6 +9.6
0474 / 0475 / 0475 / 0477 / 0477 / 0480 / 0481 / 0483 / 0485 / 0486 / 0486 / 0487 / 0488 / 0486 / 0487 / 0488 / 0497 / 0492 / 0493 / 0497 / 04	AAF AAG AAC AAC AAC AAC AAC AAC AAC AAC AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 10-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 10-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 10-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 10-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32 8.57 8.32 8.57 7.74 8.18 8.45 7.71 8.39 8.47 7.59 8.38 8.60 7.70	±9.6 ±9.8 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
0475 / (0477 / (0477 / (0478 / (0478 / (0480 / (0481 / (0482 / (0485 / (0486 /	AAF AAG AAG AAC AAC AAC AAC AAC AAC AAC AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57 8.32 8.57 7.74 8.18 8.45 7.71 8.39 8.47 7.59 8.38 8.60 7.70	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
0477 / 10478 / 10478 / 10478 / 10480 / 10481 / 10483 / 10484 / 10485 / 10486 / 10486 / 10486 / 10486 / 10489 / 10490 / 10491 / 10490 / 10491 / 10490 / 10491 / 10490 / 10491 / 10490 / 10491 / 10490 /	AAG AAC AAC AAC AAC AAD AAD AAG AAG AAG AAG AAG AAG AAG AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 84-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32 8.57 7.74 8.18 8.45 7.71 6.39 8.47 7.59 8.38 8.60 7.70 8.31	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
0478 / 0479 / 0480 / 0481 / 0482 / 0483 / 0484 / 0485 / 0486 / 0487 / 0488 / 0487 / 0488 / 0489 / 0490 / 0491 / 0492 / 0493 / 0493 / 0493 / 0497 / 04	AAG AAC AAC AAD AAD AAD AAG AAG AAG AAG AAG AAG AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57 7.74 8.18 8.45 7.71 8.39 8.47 7.59 8.38 8.60 7.70	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
(0479 / (0480 / (0481 / (0481 / (0482 / (0483 / (0483 / (0485 / (0486 / (0487 / (0486 / (0487 / (0488 / (0489 / (0491	AAC AAC AAC AAD AAD AAG AAG AAG AAG AAG AAG AAG AAG	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, OPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 18-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 18-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 18-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 18-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 18-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 0PSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7 74 8 18 8 45 7.71 8.39 8 47 7 59 8.38 8 60 7 70 8 31	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10480 / 10481 / 10482 / 10483 / 10483 / 10486 / 10486 / 10487 / 10488 / 10489 / 10491 / 10492 / 10493 / 10493 / 10494 / 10493 / 10496 / 10497 / 10496 / 10497 / 10498 / 10497 / 10498 / 10497 / 10498 / 10497 / 10498 / 10497 / 10498 / 10497 / 10498 / 10497 / 10498 / 10497 / 10498 / 10497 / 10498 / 10497 / 10498 / 10497 / 10498 / 10497 / 10498 / 10497	AAC AAC AAD AAD AAG AAG AAG AAG AAG AAG AAG AAG	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-OAM, UL Subframe=2.3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, OPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 0PSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18 8.45 7.71 8.39 8.47 7.59 8.38 8.60 7.70 8.31	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10481 / 10482 / 10483 / 10484 / 10485 / 10486 / 10486 / 10486 / 10486 / 10489 / 10490 / 10491 / 10493 / 10496 / 10496 / 10497 / 10496 / 10497 / 10496 / 10497 / 10496 / 10497 / 10496 / 10497 / 10496 / 10497	AAC AAD AAD AAG AAG AAG AAG AAG AAG AAG AAF AAF AAF	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45 7.71 8.39 8.47 7.59 8.38 8.60 7.70 8.31	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10482 / 10483 / 10484 / 10485 / 10486 / 10486 / 10486 / 10489 / 10490 / 10491 / 10493 / 10493 / 10496 / 10496 / 10496 / 10496 / 10496 / 10496 / 10497 / 10497 / 10497 / 10496 / 10497	AAD AAD AAG AAG AAG AAG AAG AAG AAG AAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.71 8.39 8.47 7.59 8.38 8.60 7.70 8.31	±9.6 ±9.6 +9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10483 / 10484 / 10485 / 10486 / 10486 / 10487 / 10488 / 10490	AAD AAG AAG AAG AAG AAG AAG AAG AAF AAF AAF	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL, Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL, Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL, Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL, Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL, Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL, Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL, Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL, Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL, Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL, Subframe=2,3,4,7,8,9)	LTE-TDD	8.39 8.47 7.59 8.38 8.60 7.70 8.31	±9.6 +9.6 ±9.6 ±9.6 ±9.6 ±9.6
10484 / 10485 / 10486 / 10487 / 10488 / 10488 / 10489 / 10491 / 10491 / 10492 / 10493 / 10494 / 10495 / 10496 / 10497	AAD AAG AAG AAG AAG AAG AAG AAF AAF AAF	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD	8.47 7.59 8.38 8.60 7.70 8.31	+9.6 +9.6 +9.6 +9.6 +9.6 +9.6
10485 / 10486 / 10487 / 10488 / 10488 / 10489 / 10490 / 10491 / 10492 / 10493 / 10494 / 10495 / 10496 / 10497	AAG AAG AAG AAG AAG AAG AAF AAF AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	7 59 8.38 8.60 7 70 8.31	±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10486 / 10487 / 10488 / 10489 / 10491 / 10492 / 10493 / 10494 / 10495 / 10496 / 10497 / 10497 / 10497 / 10497 / 10497	AAG AAG AAG AAG AAG AAF AAF AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-OAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD	8.38 8.60 7.70 8.31	±9.6 ±9.6 ±9.6 ±9.6
10487 // 10488 // 10489 // 10490 // 10491 // 10492 // 10493 // 10494 // 10495 // 10497 //	AAG AAG AAG AAG AAF AAF AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD LTE-TOD LTE-TOD LTE-TOD	8.60 7.70 8.31	±9.6 ±9.6 ±9.6
10488 // 10489 // 10490 // 10491 // 10492 // 10493 // 10494 // 10495 // 10497 //	AAG AAG AAF AAF AAF AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD LTE-TOD	7.70 8.31	±9.6
10489 // 10490 // 10491 // 10492 // 10493 // 10494 // 10495 // 10496 //	AAG AAF AAF AAF AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UI. Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10490 // 10491 // 10492 // 10493 // 10494 // 10495 // 10496 // 10497 //	AAG AAF AAF AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	17.77	
10491 / 10492 / 10493 / 10494 / 10495 / 10496 / 10497 /	AAF AAF AAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)		8.54	4.9.6
10492 / 10493 / 10494 / 10495 / 10496 / 10497 /	AAF AAG		LTE-TOD		
10493 / 10494 / 10495 / 10496 / 10497 /	AAF AAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)		7,74	±9.6
10494 A 10495 A 10496 A 10497 A	AAG		LTE-TDD	8.41	±9.6
10495 A 10496 A 10497 A		LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	+9.6
10496		LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	7.74	+9.6
10497	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8.9)	LTE-TDD	8,37	±9.6
and the second second	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3.4,7,8,9)	LTE-TDD	7.67	±9.6
	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9,6
	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8 68	±9.6
2717	AAD	LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.67	±9.6
2.1	AAD	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6
12.7	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-OAM, UL Subframe=2,3.4.7.8.9)	LTE-TDD	8.52	±9.6
	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8.9)	LTE-TDD	7.72	±9.6
	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM, UL Subframe=2,3,4.7,8,9)	LTE-TOD	8.31	±9.6
	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
Sec. 2017 Sec. 10. 1	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6
	AAG	LTE-TDD (SC-FDMA, 100% R6, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,6,9)	LTE-TOD	8.55	±9.6
	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.99	±9.6
	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM, UL Subframe=2;3,4,7,8,9)	LTE-TDD	8,49	+9.6
A. 75-72 1	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM; UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.51	±9.6
0.00	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8.9)	LTE-TDD	8.42	+9.6
and the second	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8,45	±9.6
and the second second	AAA	IEEE 802,11b WiFi 2,4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1,58	±9.6
	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
	AAC	IEEE 802 11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6
	AAC	IEEE 802 11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
100	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
0.00	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
and the same of th	AAC AAC	IEEE 802,11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)		8.27	±9.6
	AAC	JEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)	WLAN	8,36	±9.6
100 100 100 100	AAC	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8,42	+9.6
		IEEE 802,11ac WiFi (20 MHz, MCS2, 99pc duty cycle) IEEE 802,11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.21	±9.6
	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	+9.6
			WLAN	8.36	±9.6
	AAC	IEEE 802 11ac WIFI (20 MHz, MCS6, 99pc duty cycle)		8 43	±9.6
-	AAC	IEEE 802,11ac WiFi (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle)	WLAN	8,38	±9.6
	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duly cycle)	WLAN	8.45	+9.6
	AAC	JEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8,45	±9.6
	AAC	JEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)	WLAN	8,32	±9.6
	AAC	IEEE 802,11ac WiFi (40 MHz, MCS3, 99pc duty cycle)	WLAN	8,44	±9.6
	AAC	IEEE 802,11ac WiFi (40 MHz, MCS4, 99pc duty cycle) IEEE 802,11ac WiFi (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.54	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	UncE K =
10541	AAC	IEEE 802 11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	B.46	±9.6
0.542	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.6
0543	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	+96
0544	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	+9.6
0545	AAC	IEEE 802 11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	+9.6
0546	AAC	IEEE 802 11 ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
0547	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
0548	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
0550	AAG	IEEE 802:11ac WiFi (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	+9.6
	AAC	IEEE 802,11ac WiFI (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
0551		The state of the s	WLAN	8.42	±9.6
0552	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN		±9.6
0553	AAC	IEEE 802 11ac WiFi (80 MHz, MCS9, 99pc duly cycle)		8.45	
0554	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
0555	AAD	IEEE 802 11ac WiFi (160 MHz, MGS1, 99pc duty cycle)	WLAN	8.47	±9.6
0556	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8,50	±9.6
0557	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6
0558	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6
0560	AAD	IEEE 802,11ac WiFi (160 MHz, MCS6, 99pc duty cycle).	WLAN	8.73	±9.6
0561	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.6
0562	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	+9.6
0563	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)	WLAN	8,77	±9.6
0564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802,11g WiFl 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	+9.6
10566	AAA.	IEEE 802.11g WiFr 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.8
10567	AAA	IEEE 802.11g WiF(2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	+9.6
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	+9.6
			WLAN	8:30	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	1.99	19.6
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	The second secon		4
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1,98	±9.6
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1,98	±9.6
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10576	AAA	IEEE 802 11g WiFi 2.4 GHz (DSSS OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duly cycle)	WLAN	8.70	±9.6
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8 49	±9.6
10579	AAA	IEEE 802:11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9,6
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS: OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802.11q WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	+9.6
10583	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10584	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	+9.6
10585	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10586	AAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
	and the same	And the second of the second o	WLAN	8/36	±9.6
10587	AAC	IEEE 802, Ha/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)		8.76	±9.6
10588	AAC	IEEE 802 11a/h WIFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN		
10589	AAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.1
10590	AAC	IEEE 802.11a/n WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.
10591	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.
10592	AAG	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	+93
10593	AAC	IEEE 802.11n (HT Mixed, 20 MHz. MCS2, 90pc duty cycle)	WLAN	8.64	±9.
10594	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	
10595	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.
10596	AAC	IEEE 802 11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.
10597	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	+9.
10598	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9
10599	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9
10500	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MGS1, 90pc duty cycle)	WLAN	8.88	±9.
10601	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.
	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6
10602			WLAN	9.03	±9.
10.603	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)			-
10604	AAC	IEEE 802,11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8,76	±9,
		IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.
10605			WLAN	8.82	±9.
10605 10606 10607	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS7.,90pc duty cycle) IEEE 802.11a; WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	+9.

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UID	Rev	Communication System Name	Group	PAR (dB)	UncE k =
0609	AAC	IEEE 802 11ac WiFi (20 MHz. MCS2, 90pc duty, cycle)	WLAN	B.57	±9.6
10610	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAC	IEEE 802.11ac WIFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
0612	AAC	IEEE 802,11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9,6
10613	AAC	IEEE 802 11ac WiFl (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9,6
10614	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	+9.6
10615	AAC	IEEE 802.11ac WiFi (20 MHz, MCSB, 90pc duty cycle)	WLAN	8.82	±9.6
10616	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8:81	±9.6
10618	AAC	IEEE 802 11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	AAC	IEEE 802 11ac WIFI (40 MHz. MCS3, 90pc duty cycle)	WLAN	8.86	+9.6
10620	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAC	IEEE 802 11ac WiFi (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAC	IEEE 802 11 ac WiFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
10623	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10624	AAG	IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.96	±9.6
10625	AAC	IEEE 802.11ac WiFI (40 MHz, MCS9, 90pc duty cycle)	WLAN	8,96	±9.6
10626	AAC	Control of the Contro		-	
10627	AAC	IEEE 802 11ac WiFi (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
		IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10628	AAC	IEEE 802:11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.6
10629	AAC	IEEE 802 11ac WiFi (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10630	AAC	IEEE 802.11ac WiF (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
10631	AAC	IEEE 802:11ac WiFi (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)	WLAN	B:74	±9.6
10633	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
10634	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9/6
10635	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duly cycle)	WLAN	8.81	±9.6
10636	AAD	IEEE 802:11ac WiFi (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
10637	AAD	IEEE 802 11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10638	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
10639	AAD	IEEE 802 11ac WiFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	+9.6
10640	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10641	AAD	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
10642	AAD	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duly cycle)	WLAN	9.11	+9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2.7)	LTE-TDD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20MHz, OPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	7.42	+9.6
10654	AAE	LTE-TDD (OFDMA: 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
120 100 100	AAB	The state of the s	Test	6.99	±9.6
10659		Pulse Waveform (200Hz, 20%)	Test		+9.6
10660	AAB	Pulse Waveform (200Hz, 40%)		3,98	
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9,6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duly cycle)	WLAN	9.09	±9.6
10672	AAC	JEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10675	AAG	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
10676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.5
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678	AAC	IEEE 802.11ax (20 MHz. MCS7, 90pc duly cycle)	WLAN	8.78	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9,6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10685	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	+9.6
	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.5

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UID	Rev	Communication System Name	Group	PAR (dB)	Unce k =
0687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
0688	AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
0689	AAC	IEEE 802 11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6
0.690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.8
0691	AAG	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
0692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
0693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
0694	AAG	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
0695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	+9.6
0696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
0697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
0698	AAC	IEEE 802 11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
0699	AAC	IEEE 802 11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.62	±9.6
0700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
0701	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8,86	+9.6
10702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6
10703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	⇒9.6
0705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duly cycle)	WLAN	8.69	±9.6
0706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	+9.5
10.707	AAC	IEEE 802 11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
0708	AAC	IEEE 802;11ax (40 MHz, MCS1, 99po duty cycle)	WLAN	8.55	±9.6
0709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
0711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8,39	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	+9.6
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
10715	AAC	IEEE 802 11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8 45	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	+9.6
10717	AAC	IEEE 802 11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8.48	±9.6
10718	AAC	IEEE 802,11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8,81	±9.6
10720	AAC	IEEE 802,11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	+9.6
10722	AAC	IEEE 802 11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8 74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9,6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8,64	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8,42	+9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duly cycle)	WLAN	8.40	±9.6
10734	AAG	IEEE 802.11ax (80 MHz, MCS3, 99pc duly cycle)	WLAN	8.25	+9.6
10735	AAC	IEEE 802 11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9,6
10736	AAC	IEEE 802, 1 ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	+9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10739	AAC	IEEE 802.11ax (80 MHz. MCS8, 99pc duty cycle)	WLAN	8.29	±9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
0741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8,40	±9.6
0742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6
10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	+9.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	±9.6
10746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6
10747	AAC	IEEE 802,11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	±9.6
10748	AAC	IEEE 802,11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8,93	±9.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8,90	±9.6
	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6

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