

PCTEST

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SAR EVALUATION REPORT

Applicant Name:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Maetan dong, Yeongtong-gu, Suwon-si Gyeonggi-do, 16677, Korea Date of Testing: 08/10/20 Test Site/Location: PCTEST Lab, Columbia, MD, USA Document Serial No.: 1M2007300116-01.A3L

FCC ID: A3LSMG986W

APPLICANT: SAMSUNG ELECTRONICS CO., LTD.

DUT Type: Portable Handset

Application Type: Class II Permissive Change

FCC Rule Part(s):CFR §2.1093Model:SM-G986WOriginal Grant Date:02/21/2020

Permissive Change(s): See FCC Change Document

3-(-)	,		
Equipment	Band & Mode	Tx Frequency	SAR
Class	Bana a Mode	TXTTOQUOTO	1g Head (W/kg)
PCE	NR Band n41	2506.02 - 2679.99 MHz	0.60
Simultaneous	1.21		

Note: The table above shows Test data evaluated for the current test report. Please refer to RF Exposure Technical Report S/N 1M1911010179-01-R1.A3L and 1M2003120045-01.A3L for original compliance evaluation.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.8 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.







The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfai.info.

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DEVICE UNDER TEST

1.1 **Device Overview**

Band & Mode	Operating Modes	Tx Frequency
Cell. CDMA/EVDO	Voice/Data	824.70 - 848.31 MHz
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2502.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n66	Data	1712.5 - 1777.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2462 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
ANT+	Data	2402 - 2480 MHz
MST	Data	555 Hz - 8.33 kHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

Exposure Scenario:		Body-Worn	Phablet	Phablet	Head	Hotspot	Phablet	
Averaging Volume:		1g	10g	10g	1g	1g	10g	Maximum Tune-up
Spacing:		15 mm	6, 8, 11 mm	0 mm	0 mm	10 mm	0 mm	Output Power*
DSI:		0	0	1	2	3	4	
Technology/Band	Antenna		Plimit corres	ponding to 1n	nW/g (SAR_de	esign_target)		
GSM/GPRS/EDGE 850 MHz	Α	31.3	31.3	26.1	31.3	26.1	26.1	24.8
GSM/GPRS/EDGE 1900 MHz	Α	26.0	26.0	18.8	33.9	18.8	18.8	21.3
UMTS B5	Α	31.5	31.5	26.0	31.9	26.0	26.0	24
UMTS B4	Α	25.6	25.6	19.0	33.2	19.0	19.0	23.5
UMTS B2	Α	25.8	25.8	18.5	34.2	18.5	18.5	23.5
CDMA/EVDO BC0	Α	31.1	31.1	26.2	32.1	26.2	26.2	24.8
LTE FDD B71	Α	32.7	32.7	29.8	32.9	29.8	29.8	24.5
LTE FDD B12	Α	31.4	31.4	29.6	32.6	29.6	29.6	24.8
LTE FDD B13	Α	30.9	30.9	27.2	32.9	27.2	27.2	24.8
LTE FDD B5	Α	31.8	31.8	26.1	32.6	26.1	26.1	24.8
LTE FDD B4	Α	24.3	24.3	19.3	33.7	19.3	19.3	23.7
LTE FDD B66	Α	24.3	24.3	19.3	33.7	19.3	19.3	24
LTE FDD B25/2	Α	26.7	26.7	18.5	33.9	18.5	18.5	23.5
LTE FDD B30	Α	25.5	25.5	20.5	34.3	18.2	20.5	22
LTE FDD B7	В	27.6	27.6	20.5	32.0	19.5	20.5	23
LTE TDD B38	В	27.5	27.5	19.0	28.0	19.0	19.0	22
LTE TDD B41	В	27.5	27.5	21.5	32.6	19.0	21.5	22
NR FDD n71	Α	32.1	32.1	29.4	34.2	29.4	29.4	24.5
NR FDD n66	Α	24.7	24.7	19.8	33.1	19.8	19.8	24
NR TDD n41	F	22.9	22.9	22.9	14.0	20.9	22.9	17.5

Note: The Smart Transmit Algorithm was not affected by the permissive changes. Please see original technical filings 1M1911010179-01-R1.A3L for compliance evaluation.

1.3 **Nominal and Maximum Output Power Specifications**

This device operates using the following maximum and nominal output power specifications for the capabilities evaluated in this test report. See RF Exposure Technical Report S/N 1M1911010179-01-R1.A3L and 1M2003120045-01.A3L for complete maximum and nominal output power specifications.

1.3.1 **5G Output Power**

			Modulated Average Output Power (in dBm)					
Mode / Band		Max (DSI = 0)	RCV Mode Active	Hotspot Mode	Earjack Active	Proximity Sensor		
		IVIAX (DSI = 0)	(DSI = 2)	Active (DSI = 3)	(DSI = 4)	Active (DSI = 1)		
	NR TDD Band n41	Max allowed power	24.5	21.0	24.5	24.5	24.5	
		Nominal	23.5	20.0	23.5	23.5	23.5	

For NR TDD, the above powers listed are TDD burst average values

DUT Antenna Locations 1.4

The overall dimensions of this device are > 9 x 5 cm. A diagram showing the location of the device antennas can be found in Appendix E. Since the diagonal dimension of this device is > 160 mm and <200 mm, it is considered a "phablet."

1.5 **Near Field Communications (NFC) Antenna**

This DUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in Appendix E.

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1.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be operating 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 4.3.2 procedures.

Table 1-1
Simultaneous Transmission Scenarios

County C							
2 1. COMM vote = 5 GPE WFFT Yes N/A Yes N/	No.	Capable Transmit Configuration	Head			Phablet	Notes
2 1. COMM vote = 5 GPE WFFT Yes N/A Yes N/							
3	1	1x CDMA voice + 2.4 GHz WI-FI	Yes	Yes			
4 15 COMA vote 2 & 61 FW.FFI.MMO	2	1x CDMA voice + 5 GHz WI-FI	Yes	Yes	N/A	Yes	
S							^ Bluetooth Tethering is considered
6 It COMA voice + 2.4 GHz WiFFI + 5 GHz WiFFI Yes Yes NA Yes National Part National Part Yes Yes NA Yes National Part National Part Yes Yes NA Yes National Part Yes Yes NA Yes	4	1x CDMA voice + 2.4 GHz WI-FI MIMO	Yes	Yes	N/A	Yes	
6 It COMA voice + 2.4 GHz WiFFI + 5 GHz WiFFI Yes Yes NA Yes National Part National Part Yes Yes NA Yes National Part National Part Yes Yes NA Yes National Part Yes Yes NA Yes	5	1x CDMA voice + 5 GHz WI-FI MIMO	Yes	Yes	N/A	Yes	
7 11. CDMA voice + 2.4 GHz Bustoon + 5 GHz WFFI MMO							
8 1.COMA voice + 2.4 OFF WHITMING - 1.5 OFF WHITMING Yes Yes NA Yes Yes Na Yes Yes Yes Na Yes Ye			VacA	Vec			A Bluetooth Tethering is considered
3 It CDMA voice + 2 A CHZ WEFT CAPE Yes NA							Didetootii i etiieiiiig is considered
10 SSM votes + 2.4 GHz WheFi				Vee		Vec	A Bluetooth Tethering is sensidered
11 SSM voice + 2 GHz WFFT							A Bluetooth Tethering is considered
12 SSM votor > 2.4 GHz Bustooth Yesh Yes		GSM voice + 2.4 GHZ WI-FI					
13 SSM voice + 2.4 GHz WHFI MMO							
14. SSM votos + S GHz WFF MAND Yes Yes Yes NAN		GSM voice + 2.4 GHz Bluetooth				Yes	^ Bluetooth Tethering is considered
14. SSM votos + S GHz WFF MAND Yes Yes Yes NAN	13	GSM voice + 2.4 GHz WI-FI MIMO	Yes	Yes	N/A	Yes	
15 SSM voice + 2.4 GHz WiFFL + GHz WiFFL Yes Yes WA Yes Plustooth Tethering is considered Yes Yes Yes WA Yes Plustooth Tethering is considered Yes	14	GSM voice + 5 GHz WI-FI MIMO	Yes	Yes	N/A	Yes	
16 SSM voice + 2.4 GHz Bluetooth + 5 GHz WFFI MMO		GSM voice + 2.4 GHz WI-FI + 5 GHz WI-FI	Yes				
17 GSM valoe + 2.4 GHz WFFI MMO + S GHz WFFI MMO Yes Yes N/A Yes N/A Yes N/A Yes N/A Yes	16				NI/A		A Bluetooth Tethering is considered
18 SSM voice + 2.4 GHz Blustooth + 5 GHz WiFFI MMO							Didetootii Tetriering is considered
190 UNITS + 2.4 GHz WIFT							A Dhuata ath Tathania a in annaidean d
20 UNITS + 2 GHz WFFI MMO							A Bluetooth Tethering is considered
21 UNTS + 24 GHz Buetooth		UM I S + 2.4 GHz WI-FI					
22 UNTS + 2-4 GHz WFFLMMO							
22 UNTS + 2-4 GHz WFFLMMO							^ Bluetooth Tethering is considered
22 UNTS + S GHz WFFI MMO							
24 UNTS + 24 GHz WiFi + 5 GHz WiFi Yes Y							
25 UMTS + 2.4 GHz Bluetooth + 5 GHz WI-FI MMO					Yes	Yes	
Life + 2.4 GHz Wi-FI MMO + 5 GHz Wi-FI MMO							A Bluetooth Tethering is considered
27 UNTS + 2.4 GHz WHFI MMO							Productional Fethering is considered
TE + 5G NR							
TE + 24 GHz Wi-FI + 5G NR							^Bluetooth Tethering is considered
TITE + 24 GHz WFFI + 5G NR			Yes	Yes	Yes	Yes	
TE + S GHz WFI + SG NR							
1							
TE + 2.4 GHz Bluetooth + SG NR					Voc		
TE + 2.4 GHz Bluetooth + 56 NR							A Diverse Alto Testa esta esta esta esta esta esta esta
TE + 2.4 GHz Wi-FI MIMO							
TE + 2.4 GHz Wi-FI MIMO + 5G NR					Yes^		^ Bluetooth Tethering is considered
TE + 5 GHz WFF IMMO			Yes		Yes	Yes	
TE + 5 GHz Wi-FI MMO + 5 GNR	36	LTE + 2.4 GHz WI-FI MIMO + 5G NR	Yes	Yes	Yes	Yes	
TE + 5 GHz Wi-FI MMO + 5 GNR	37	LTE + 5 GHz WI-FI MIMO	Yes	Yes	Yes	Yes	
TE + 2.4 GHz WI-FI + 5 GHz WI-FI S ON	38		Yes	Yes	Yes	Yes	
TE + 2.4 GHz WHFI + 5 GHz WHFI + 5GN R			Yes				
LTE + 2.4 GHz Bluetooth + 5 GHz WFI + 5 NR		I TE + 2.4 GHz WLFI + 5 GHz WLFI + 5G NR	Vec	Vec	Vec	Vec	
LTE + 2.4 GHz Bluetooth + 5 GHz WHFI + 5G NR						Vec	A Bluetooth Tethering is considered
A3				168	res	162	
LTE + 2.4 GHz WIFT IMMO + 5 GHz WIFT IMMO Yesh Yes Yes Yes Yes Yes S Bluetooth Tethering is considered							^ Bluetooth Tethering is considered
LTE + 2.4 GHz Bluetooth + 5 GHz WFFI MMO	_						
LTE + 2.4 GHz Bluetooth + 5 GHz Wi-FI MIMO + 5G NR							
LTE + 2.4 GHz Bluetooth + 5 GHz Wi-FI MIMO + 5G NR	45	LTE + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
CDMA/EVDO data + 2.4 GHz WI-FI	46	LTE + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO + 5G NR	Yes^	Yes	Yes^	Yes	
48 CDMA/EVDO data + 5 GHz WI-FI 49 CDMA/EVDO data + 2.4 GHz Bluetooth 49 CDMA/EVDO data + 2.4 GHz Bluetooth 50 CDMA/EVDO data + 2.4 GHz WI-FI MIMO 51 CDMA/EVDO data + 2.4 GHz WI-FI MIMO 52 CDMA/EVDO data + 2.4 GHz WI-FI MIMO 53 CDMA/EVDO data + 2.4 GHz WI-FI MIMO 54 Yes' Yes' Yes Yes Yes 'Pre-installed VOIP applications are considered 'Pre-installed VOIP ap							
49 CDMA/EVDO data + 2.4 GHz Bluetooth Yes' Yes' Yes' Yes Yes Pre-installed VOIP applications are considered A Bluetooth Tethering is considered Yes' Yes' Yes Yes Pre-installed VOIP applications are considered Yes' Yes' Yes Yes Pre-installed VOIP applications are considered Yes' Yes' Yes Yes Pre-installed VOIP applications are considered Yes' Yes' Yes Yes' Yes Pre-installed VOIP applications are considered Yes' Yes' Yes' Yes' Yes' Yes' Pre-installed VOIP applications are considered Yes' Yes' Yes' Yes' Yes' Yes' Pre-installed VOIP applications are considered A Bluetooth Yes' Yes' Yes' Yes' Yes' Yes' Pre-installed VOIP applications are considered A Bluetooth Tethering is considered A Bluetooth Tethering is considered Yes' Yes' Yes' Yes' Yes' Yes' Yes' Yes'		CDMA/EVDO data + 5 CHz WILEI					
Solution		OBM/VEVBO data 1 3 GHz W111	103	103	103	103	The instance von applications are considered
CDMA/EVDO data + S GHz WI-FI MIMO	49	CDMA/EVDO data + 2.4 GHz Bluetooth	Yes*^	Yes*	Yes^	Yes	
CDMA/EVDO data + S GHz WI-FI MIMO	50	CDMA/EVDQ data + 2.4 GHz WI-FI MIMQ	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered
Second Communication							
Sample S							
Solution Comare Viol Gata + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO Yes' Yes' Yes Yes A Bluetooth Tethering is considered	52	CDIVIAVE VOID data + 2.4 GHZ WFFT + 5 GHZ WFFT	res*	r es-	res	res	rie-installed voir applications are considered
Solution	53	CDMA/EVDO data + 2.4 GHz Bluetooth + 5 GHz WI-FI	Yes*^	Yes*	Yes^	Yes	
Solution	54	CDMA/EVDQ data + 2.4 GHz WI-FI MIMQ + 5 GHz WI-FI MIMQ	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered
Solitor Soli	- 01	OBMITTED GALATEST CITE WITH MINIO TO GITE WITH MINIO		100	100	100	The motalines vein applications are considered
STATE SPRS/EDGE + 2 & GHz WI-FI							
STATE SPRS/EDGE + 2 & GHz WI-FI							
58 GPRS/EDGE + 2.4 GHz Butertoth N/A N/A Yes ^ 8 Iluetooth Tethering is considered 59 GPRS/EDGE + 2.4 GHz WI-FI MIMO N/A Yes Yes Yes 60 GPRS/EDGE + 5 GHz WI-FI MIMO N/A N/A Yes Yes 61 GPRS/EDGE + 2.4 GHz WI-FI + 5 GHz WI-FI N/A N/A Yes Yes 62 GPRS/EDGE + 2.4 GHz Butetooth + 5 GHz WI-FI MIMO N/A N/A Yes Yes A Bluetooth Tethering is considered 63 GPRS/EDGE + 2.4 GHz WI-FI MIMO + 5 GHz WI-FI MIMO N/A N/A Yes Yes A Bluetooth Tethering is considered 64 GPRS/EDGE + 2.4 GHz Butetooth + 5 GHz WI-FI MIMO N/A N/A Yes Yes Yes Yes A Bluetooth Tethering is considered 65 5G NR (SA) + 2.4 GHz WI-FI Yes Yes Yes Yes Yes Yes A Bluetooth Tethering is considered 67 5G NR (SA) + 5 GHz WI-FI MIMO Yes Yes Yes Yes Yes Yes Yes N/A Yes Yes			N/A		Yes		
Section	58		N/A	N/A			^ Bluetooth Tethering is considered
60 GPRS/EDGE + 2 GHz WI-FI MMO N/A N/A Yes Yes 61 GPRS/EDGE + 2.4 GHz WI-FI + 5 GHz WI-FI N/A N/A Yes Yes 62 GPRS/EDGE + 2.4 GHz WI-FI + 5 GHz WI-FI N/A N/A Yes Yes 63 GPRS/EDGE + 2.4 GHz WI-FI MIMO + 5 GHz WI-FI N/A N/A Yes Yes 64 GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO N/A N/A Yes Yes 65 GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO N/A N/A Yes Yes 66 GFRS/EDGE + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO N/A N/A Yes Yes 67 SG NR (SA) + 2.4 GHz WI-FI MIMO N/A N/A Yes Yes Yes 68 GFRS/EDGE + 2.4 GHz Bluetooth Yes Yes Yes Yes Yes 69 SG NR (SA) + 2.4 GHz Bluetooth Yes Yes Yes Yes Yes 69 SG NR (SA) + 2.4 GHz WI-FI MIMO Yes Yes Yes Yes Yes 70 SG NR (SA) + 2.4 GHz WI-FI SHMO Yes Yes Yes Yes 71 SG NR (SA) + 2.4 GHz WI-FI + 5 GHz WI-FI NMO Yes Yes Yes Yes 72 SG NR (SA) + 2.4 GHz WI-FI SHZ WI-FI NMO Yes		GPRS/EDGE + 2.4 GHz WI-FI MIMO					•
61 GPRS/EDGE + 2.4 GHz WI-F1 + 5 GHz WI-F1 N/A N/A Yes Yes 62 GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz WI-F1 MIMO N/A N/A Yes Yes 63 GPRS/EDGE + 2.4 GHz WI-F1 MIMO + 5 GHz WI-F1 MIMO N/A N/A Yes Yes 64 GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz WI-F1 MIMO N/A N/A Yes Yes 65 GRN (SA) + 2.4 GHz WI-F1 MIMO + 5 GHz WI-F1 MIMO N/A N/A Yes Yes 66 SG NR (SA) + 2.4 GHz WI-F1 Yes Yes Yes Yes Yes 67 SG NR (SA) + 5 GHz WI-F1 Yes Yes Yes Yes Yes 68 SG NR (SA) + 2.4 GHz Bluetooth Yes Yes Yes Yes Yes Yes 68 SG NR (SA) + 2.4 GHz WI-F1 MIMO Yes Yes Yes Yes Yes Yes 69 SG NR (SA) + 2.4 GHz WI-F1 MIMO Yes Yes Yes Yes Yes 69 SG NR (SA) + 5 GHz WI-F1 MIMO Yes Yes Yes Yes Yes 70 SG NR (SA) + 2.4 GHz WI-F1 SGHz WI-F1 Yes Yes Yes Yes Yes Yes 71 SG NR (SA) + 2.4 GHz Bluetooth + 5 GHz WI-F1 Yes Yes Yes Yes Yes 72 SG NR (SA) + 2.4 GHz WI-F1 MIMO YES Hz WI-F1 MIMO Yes Yes Yes Yes Yes 73 SG NR (SA) + 2.4 GHz WI-F1 SGHz WI-F1 Yes Yes Yes Yes Yes 74 SG NR (SA) + 2.4 GHz WI-F1 MIMO + 5 GHz WI-F1 MIMO Yes Yes Yes Yes Yes 75 SG NR (SA) + 2.4 GHz WI-F1 MIMO + 5 GHz WI-F1 MIMO Yes Yes Yes Yes Yes Yes 76 SG NR (SA) + 2.4 GHz WI-F1 MIMO + 5 GHz WI-F1 MIMO Yes			-				
62 GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO N/A N/A Yes^ Yes A Bluetooth Tethering is considered 63 GPRS/EDGE + 2.4 GHz WI-FI MIMO + 5 GHz WI-FI MIMO N/A N/A Yes Yes A Bluetooth Tethering is considered 64 GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO N/A N/A Yes Yes A Bluetooth Tethering is considered 65 5G NR (SA) + 2.4 GHz WI-FI Yes Yes Yes Yes Yes 66 5G NR (SA) + 5 GHz WI-FI Yes Yes Yes Yes 67 5G NR (SA) + 2.4 GHz Bluetooth Yes^ Yes Yes Yes Yes 68 5G NR (SA) + 2.4 GHz WI-FI MIMO Yes Yes Yes Yes Yes 69 5G NR (SA) + 2.4 GHz WI-FI MIMO Yes Yes Yes Yes Yes 70 5G NR (SA) + 2.4 GHz WI-FI SHIMO Yes							
63 GPRS/EDGE + 2.4 GHz WI-FI MIMO + 5 GHz WI-FI MIMO N/A N/A Yes Yes							A Bluetooth Tothering is considered
GARS/EDGE + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO							r bluetootii Tethering is considered
65 5G NR (SA) + 2.4 GHz WI-FI Yes Yes Yes Yes SG NR (SA) + 5 GHz WI-FI MIMO Yes Yes Yes Yes Yes SG NR (SA) + 2.4 GHz Bluetooth Yes Yes Yes Yes Yes SG NR (SA) + 2.4 GHz Bluetooth Yes		GPRS/EDGE + 2.4 GHz WI-FI MIMO + 5 GHz WI-FI MIMO					
66 SG NR (SA) + 5 GHz WI-FI Yes Yes Yes Yes Yes 67 SG NR (SA) + 2.4 GHz Bluetooth Yes^\ Yes Yes Yes Yes Yes Yes \ A Bluetooth Tethering is considered 68 SG NR (SA) + 2.4 GHz WI-FI MIMO Yes Yes Yes Yes 69 SG NR (SA) + 5 GHz WI-FI MIMO Yes Yes Yes Yes 70 SG NR (SA) + 2.4 GHz WI-FI + 5 GHz WI-FI Yes Yes Yes Yes 71 SG NR (SA) + 2.4 GHz Bluetooth + 5 GHz WI-FI Yes^\ Yes Yes Yes \ Yes Yes \ Yes 72 SG NR (SA) + 2.4 GHz WI-FI MIMO Yes		GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO					^ Bluetooth Tethering is considered
66 SG NR (SA) + 5 GHz WI-FI Yes Yes Yes Yes Yes 67 SG NR (SA) + 2.4 GHz Bluetooth Yes^\ Yes Yes Yes Yes Yes Yes \ A Bluetooth Tethering is considered 68 SG NR (SA) + 2.4 GHz WI-FI MIMO Yes Yes Yes Yes 69 SG NR (SA) + 5 GHz WI-FI MIMO Yes Yes Yes Yes 70 SG NR (SA) + 2.4 GHz WI-FI + 5 GHz WI-FI Yes Yes Yes Yes 71 SG NR (SA) + 2.4 GHz Bluetooth + 5 GHz WI-FI Yes^\ Yes Yes Yes \ Yes Yes \ Yes 72 SG NR (SA) + 2.4 GHz WI-FI MIMO Yes	65	5G NR (SA) + 2.4 GHz WI-FI		Yes			
67 5G NR (SA) + 2.4 GHz Bluetooth Yes Yes Yes ^ Bluetooth Tethering is considered 68 5G NR (SA) + 2.4 GHz WI-FI MIMO Yes Yes Yes Yes 69 5G NR (SA) + 5 GHz WI-FI MIMO Yes Yes Yes Yes 70 5G NR (SA) + 2.4 GHz WI-FI + 5 GHz WI-FI Yes Yes Yes Yes 71 5G NR (SA) + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO Yes Yes Yes ^ Bluetooth Tethering is considered 72 5G NR (SA) + 2.4 GHz WI-FI MIMO + 5 GHz WI-FI MIMO Yes Yes Yes Yes	66	5G NR (SA) + 5 GHz WI-FI		Yes			
68 SG NR (SA) + 2.4 GHz WI-FI MIMO Yes Yes Yes Yes 9 SG NR (SA) + 5 GHz WI-FI MIMO Yes Yes Yes Yes 70 SG NR (SA) + 2.4 GHz WI-FI + 5 GHz WI-FI HIMO Yes Yes Yes Yes 71 SG NR (SA) + 2.4 GHz WI-FI HIMO + 5 GHz WI-FI Yes^\ Yes Yes^\ Yes^\ A Bluetooth Tethering is considered 72 SG NR (SA) + 2.4 GHz WI-FI MIMO + 5 GHz WI-FI MIMO Yes Yes Yes Yes Yes	67						^ Bluetooth Tethering is considered
69 5G NR (SA) + 5 GHz WI-FI MIMO Yes Yes Yes Yes 70 5G NR (SA) + 2.4 GHz WI-FI + 5 GHz WI-FI Yes Yes Yes Yes 71 5G NR (SA) + 2.4 GHz Bluetooth + 5 GHz WI-FI Yes' Yes Yes' Yes ^Bluetooth Tethering is considered 72 5G NR (SA) + 2.4 GHz WI-FI MIMO + 5 GHz WI-FI MIMO Yes Yes Yes Yes		5G NR (SA) + 2.4 GHz WI-FI MIMO					
70 5G NR (SA) + 2.4 GHz WI-FI + 5 GHz WI-FI Yes Yes Yes Yes Yes 71 5G NR (SA) + 2.4 GHz Bluetooth + 5 GHz WI-FI Yes^A Yes Yes A Bluetooth Tethering is considered 72 5G NR (SA) + 2.4 GHz WI-FI MIMO + 5 GHz WI-FI MIMO Yes Yes Yes Yes							
71 5G NR (SA) + 2.4 GHz Bluetooth + 5 GHz WI-FI Yes Yes Yes Yes A Bluetooth Tethering is considered 72 5G NR (SA) + 2.4 GHz WI-FI MIMO + 5 GHz WI-FI MIMO Yes Yes Yes Yes							
72 5G NR (SA) + 2.4 GHz WI-FI MIMO + 5 GHz WI-FI MIMO Yes Yes Yes Yes							<u> </u>
							^ Bluetooth Tethering is considered
73 5G NR (SA) + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO Yes^ Yes Yes^ Yes A Bluetooth Tetherina is considered							
	73	5G NR (SA) + 2.4 GHz Bluetooth + 5 GHz WI-FI MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered

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- 1. 2.4 GHz WLAN and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
- 2. All licensed modes share the same antenna path and cannot transmit simultaneously.
- 3. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN Hotspot scenario.
- 4. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
- 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII2A, and U-NII2C were not evaluated for wireless router conditions.
- 6. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
- 7. This device supports VoWIFI.
- 8. This device supports Bluetooth Tethering.
- 9. This device supports VoLTE.
- 10. LTE + 5G NR FR1 Scenarios are limited to LTE Anchor Bands, LTE B2/5/7/12/13/66.
- 11. This device supports 5G NR FR1 Standalone (SA) Operation.

1.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

There were no changes made to the WIFI and BT operations within this device. Please see original compliance evaluation in RF Exposure Technical Report S/N 1M1911010179-01-R1.A3L for complete evaluation of these operating modes.

(B) Licensed Transmitter(s)

Only operations relevant to this permissive change were evaluated for compliance. Please see original compliance evaluation in RF Exposure Technical Report S/N 1M1911010179-01-R1.A3L and 1M2003120045-01.A3L for complete evaluation of all other operating modes. The operational description includes a description of all changed items.

NR implementation of n71, n66, and n41 in EN-DC mode operates with LTE Band 2/7/66/5/12/13 acting as the anchor band. Per FCC Guidance, SAR tests were performed separately for NR Bands and LTE Anchor Bands. All 5G NR FR1 bands can also operate in Standalone (SA) mode. Please see RF Exposure Technical Report S/N 1M1911010179-01-R1.A3L and 1M2003120045-01.A3L for complete evaluation.

1.8 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02, D06v02r01 (4G)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r02 (Proximity Sensor)

1.9 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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NR Information					
Form Factor			Portable Handset		
Frequency Range of each NR transmission band		١	NR Band n71 (665.5 - 695.	5 MHz)	
		N	R Band n66 (1712.5 - 1777	7.5 MHz)	
		NR	Band n41 (2506.02 - 2679	9.99 MHz)	
Channel Bandwidths		NR Ban	d n71: 5 MHz, 10 MHz, 15	MHz, 20 MHz	
		NR Ban	d n66: 5 MHz, 10 MHz, 15	MHz, 20 MHz	
	NF		, 40 MHz, 50 MHz, 60 MHz) MHz
Channel Numbers and Frequencies (MHz)	Low Low-Mid Mid Mid-High High				High
NR Band n71: 5 MHz	665.5 (1	33100)	680.5 (136100)	695.5 (139100)
NR Band n71: 10 MHz	668 (13	33600)	680.5 (136100)	693 (1	38600)
NR Band n71: 15 MHz	670.5 (1	34100)	680.5 (136100)	690.5 (138100)
NR Band n71: 20 MHz	673.0 (1	34600)	680.5 (136100)	688.0 (137600)	
NR Band n66: 5 MHz	1712.5 (342500)	1745 (349000)	1777.5 (355500)	
NR Band n66: 10 MHz	1715 (3	43000)	1745 (349000)	1775 (355000)	
NR Band n66: 15 MHz	1717.5 (343500)	1745 (349000)	1772.5 ((354500)
NR Band n66: 20 MHz	1720 (3	44000)	1745 (349000)	1770 (354000)	
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)	2636.49 (527298)	2679.99 (535998)
NR Band n41: 40 MHz	2516.01 (503202)	2567.34 (513468)	N/A	2618.67 (523734)	2670 (534000)
NR Band n41: 50 MHz	2521.02 ((504204)	2592.99 (518598)	2664.99	(532998)
NR Band n41: 60 MHz	2526 (5	05200)	2592.99 (518598)	2659.98	(531996)
NR Band n41: 80 MHz	2536.02 ((507204)	N/A	2649.99	(529998)
NR Band n41: 90 MHz	2541 (5	08200)	N/A	2644.98	(528996)
NR Band n41: 100 MHz	2546.01 ((509202)	2592.99 (518598)	2640 (5	528000)
NR Band n71/n66 SCS			15 kHz		
NR Band n41 SCS			30 kHz		
Modulations Supported in UL		DFT-s-OFDM	: π/2 BPSK, QPSK, 16QAI	M, 64QAM, 256QAM	
		CP-OF	FDM: QPSK, 16QAM, 64Q	AM, 256QAM	
NR MPR Permanently implemented per 3GPP TS 38.101			YES		
A-MPR (Additional MPR) disabled for SAR Testing?			YES		
EN-DC Carrier Aggregation Possible Combinations	Please see the technical description included with the original filing for the possible carrier aggregation combinations.				
LTE Anchor Bands for NR Band n71		LTE	Band 2, LTE Band 7, LTE	Band 66	
LTE Anchor Bands for NR Band n66			LTE Band 2, LTE Band	66	
LTE Anchor Bands for NR Band n41		LTE	Band 5, LTE Band 12, LT	E Band 13	

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The FCC and Innovation, Science, and Economic Development 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. [1]

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 [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (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 International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," Report No. Vol 74. 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.

3.1 SAR Definition

Specific Absorption Rate 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 Equation 3-1).

Equation 3-1 SAR Mathematical Equation

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

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 relation 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.[6]

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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 IEEE 1528-2013.
- 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 was measured and used as a reference value.

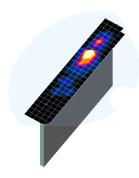


Figure 4-1 Sample SAR Area Scan

point

- 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.

Table 4-1 Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

	Maximum Area Scan Resolution (mm)	Maximum Zoom Scan Resolution (mm)	Max	imum Zoom So Resolution (Minimum Zoom Scan
Frequency	(Δx _{area} , Δy _{area})	Uniform Grid Graded Grid	(Δx _{200m} , Δy _{200m})	n Grid Graded Grid		Volume (mm) (x,y,z)
	t died ydiedy	1 20011 7 200117	Δz _{zoom} (n)	Δz _{zoom} (1)*	Δz _{zoom} (n>1)*	, , , , ,
≤ 2 GHz	≤ 15	≤8	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤5	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤12	≤5	≤4	≤3	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤4	≤3	≤2.5	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤4	≤2	≤2	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 22

^{*}Also compliant to IEEE 1528-2013 Table 6

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5.1 EAR REFERENCE POINT

Figure 5-2 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 ERP is 15mm 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), also called the Reference Pivoting Line, is not perpendicular to the reference plane (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 [5].

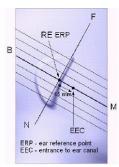


Figure 5-1 Close-Up Side view of ERP

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 acoustic output located along the "vertical centerline" on the front of the device aligned to the "ear reference point" (See Figure 5-3). The acoustic output 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 its 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 of SAM Twin Phantom

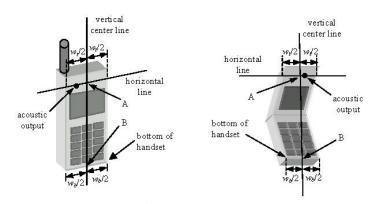


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

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6 TEST CONFIGURATION POSITIONS

6.1 Device Holder

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

6.2 Positioning for Cheek

1. The test device was positioned with the device 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 Position

- 2. The handset was translated towards the phantom along the line passing through RE & LE until the handset touches the pinna.
- 3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the reference plane.
- 4. The phone was then 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 device contact with the ear, the device was rotated about the NF line 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

thereof, please contact INFO@PCTEST.COM.

With the test device aligned in the "Cheek 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 15degrees.
- 2. The phone was then rotated around the horizontal line by 15 degrees.
- 3. While maintaining the orientation of the phone, the phone was moved parallel to the reference plane until any part of the handset touched 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. In this situation, 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 6-2).

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Figure 6-2 Front, Side and Top View of Ear/15° Tilt Position

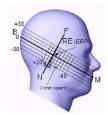


Figure 6-3
Side view w/ relevant markings

6.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones. Per IEEE 1528-2013, a rotated SAM phantom is necessary to allow probe access to such regions. Both SAM heads of the TwinSAM-Chin20 are rotated 20 degrees around the NF line. Each head can be removed from the table for emptying and cleaning.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04v01r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR location identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

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7 RF EXPOSURE LIMITS

7.1 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.

7.2 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 applicable to situations in which persons are exposed as a consequence of their 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 7-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS				
	UNCONTROLLED ENVIRONMENT	CONTROLLED ENVIRONMENT		
	General Population (W/kg) or (mW/g)	Occupational (W/kg) or (mW/g)		
Peak Spatial Average SAR _{Head}	1.6	8.0		
Whole Body SAR	0.08	0.4		
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20		

- 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.
- 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.

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8 FCC MEASUREMENT PROCEDURES

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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9 RF CONDUCTED POWERS

9.1 NR Conducted Powers

9.1.1 NR Band n41

Table 9-1
NR Band n41 Measured Plimit for DSI = 2 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth						
		100 WINZ Bai	Channel			
Modulation	RB Size RB	RB Offset	518598 (2592.99 MHz)	MPR Allowed per 3GPP	MPR [dB]	
Modulation		ND Ollset	Conducted Power [dBm]	[dB]	[dD]	
	1	1	19.49		0.0	
	1	137	19.45	0	0.0	
DFT-s-OFDM π/2 BPSK	1	271	19.64		0.0	
	135	0	19.42	0-0.5	0.0	
n/2 DI SIX	135	69	19.45	0	0.0	
	135	138	19.56	0-0.5	0.0	
	270	0	19.44	0-0.5	0.0	
	1	1	19.38		0.0	
	1	137	19.34	0	0.0	
DFT-s-OFDM	1	271	19.66		0.0	
QPSK	135	0	19.38	0-1	0.0	
Qr Six	135	69	19.43	0	0.0	
	135	138	19.65	0-1	0.0	
	270	0	19.47	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	19.57	0-1	0.0	
CP-OFDM QPSK	1	1	19.54	0-1.5	0.0	

Note: NR Band n41 at 100 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, 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.

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Table 9-2 NR Band n41 Measured Plimit for DSI = 2 (Head) - 90 MHz Bandwidth

	Title Dalla 1141		NR Band n41			
		90	MHz Bandwidth		,	
			Cha	nnel		
Modulation	RB Size	RB Offset	508200 (2541 MHz)	528996 (2644.98 MHz)	MPR Allowed per 3GPP	MPR [dB]
			Conducted	Power [dBm]	[dB]	
	1	1	19.42	19.87		0.0
	1	123	19.52	19.84	0	0.0
DFT-s-OFDM	1	243	19.19	19.66		0.0
π/2 BPSK	120	0	19.64	19.78	0-0.5	0.0
M/2 DI SIX	120	63	19.48	19.85	0	0.0
	120	125	19.36	19.79	0-0.5	0.0
	243	0	19.49	19.97	0-0.5	0.0
	1	1	19.50	19.81		0.0
	1	123	19.44	19.98	0	0.0
DFT-s-OFDM	1	243	19.26	19.83		0.0
QPSK	120	0	19.61	19.95	0-1	0.0
QI OIL	120	63	19.38	19.84	0	0.0
	120	125	19.30	19.80	0-1	0.0
	243	0	19.52	19.98	0-1	0.0
DFT-s-OFDM 16QAM	1	1	19.60	19.76		0.0
CP-OFDM QPSK	1	1	19.49	19.86	0-1.5	0.0

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Table 9-3 NR Band n41 Measured Plimit for DSI = 2 (Head) - 80 MHz Bandwidth

			NR Band n41			
		00	MHz Bandwidth Cha	nnel		
Modulation	RB Size	RB Offset	507204 (2536.02 MHz)	529998 (2649.99 MHz)	MPR Allowed per 3GPP	MPR [dB]
			Conducted I	Power [dBm]	[dB]	
	1	1	19.48	19.69		0.0
	1	109	19.76	19.76	0	0.0
DFT-s-OFDM	1	215	19.24	19.88		0.0
π/2 BPSK	108	0	19.81	19.84	0-0.5	0.0
M/2 DI SIX	108	55	19.78	19.83	0	0.0
	108	109	19.44	19.87	0-0.5	0.0
	216	0	19.69	19.80	0-0.5	0.0
	1	1	19.56	19.86		0.0
	1	109	19.67	19.85	0	0.0
DFT-s-OFDM	1	215	19.33	19.91		0.0
QPSK	108	0	19.80	20.01	0-1	0.0
Qi Oit	108	55	19.67	19.88	0	0.0
	108	109	19.37	19.79	0-1	0.0
	216	0	19.64	19.84	0-1	0.0
DFT-s-OFDM 16QAM	1	1	19.62	20.04	0-1	0.0
CP-OFDM QPSK	1	1	19.49	20.16	0-1.5	0.0

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Table 9-4 NR Band n41 Measured Plimit for DSI = 2 (Head) - 60 MHz Bandwidth

NR Band n41 60 MHz Bandwidth									
			00 Wii 12 Bai						
Modulation	RB Size	3 Size RB Offset	505200 (2526 MHz)	518598 (2592.99 MHz)	531996 (2659.98 MHz)	MPR Allowed per 3GPP	MPR [dB]		
			Col	Conducted Power [dBm]					
	1	1	19.36	19.48	19.79		0.0		
	1	81	19.92	19.91	20.03	0	0.0		
DFT-s-OFDM	1	160	19.24	19.77	19.82		0.0		
π/2 BPSK	81	0	19.68	19.45	19.90	0-0.5	0.0		
WZ DI SK	81	41	19.69	19.54	19.82	0	0.0		
	81	81	19.53	19.63	19.91	0-0.5	0.0		
	162	0	19.70	19.58	19.95	0-0.5	0.0		
	1	1	19.37	19.41	19.74		0.0		
	1	81	19.83	19.57	19.86	0	0.0		
DFT-s-OFDM	1	160	19.39	19.87	19.81		0.0		
QPSK	81	0	19.76	19.51	19.95	0-1	0.0		
Qi Sit	81	41	19.71	19.57	19.84	0	0.0		
	81	81	19.58	19.72	19.92	0-1	0.0		
	162	0	19.70	19.59	19.93	0-1	0.0		
DFT-s-OFDM 16QAM	1	1	20.10	19.67	20.01	0-1	0.0		
CP-OFDM QPSK	1	1	19.48	19.39	19.83	0-1.5	0.0		

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Table 9-5 NR Band n41 Measured Plimit for DSI = 2 (Head) - 50 MHz Bandwidth

	NR Band 141 Measured Plimit for DSI = 2 (Head) - 50 MHZ Bandwidth NR Band n41 50 MHz Bandwidth									
				Channel						
Modulation	RB Size	RB Offset	504204 (2521.02 MHz)	518598 (2592.99 MHz)	532998 (2664.99 MHz)	MPR Allowed per 3GPP	MPR [dB]			
			Cor	Conducted Power [dBm]						
	1	1	19.54	19.48	19.92		0.0			
	1	67	19.77	19.64	19.88	0	0.0			
DFT-s-OFDM	1	131	19.42	19.92	19.93		0.0			
π/2 BPSK	64	0	19.69	19.43	19.89	0-0.5	0.0			
M/2 DI SK	64	35	19.78	19.62	19.99	0	0.0			
	64	69	19.64	19.65	19.91	0-0.5	0.0			
	128	0	19.72	19.57	19.95	0-0.5	0.0			
	1	1	19.47	19.44	20.20		0.0			
	1	67	19.78	19.60	19.93	0	0.0			
DFT-s-OFDM	1	131	19.56	19.86	20.06		0.0			
QPSK	64	0	19.73	19.38	19.82	0-1	0.0			
Qi Oit	64	35	19.69	19.57	19.86	0	0.0			
	64	69	19.75	19.64	19.93	0-1	0.0			
	128	0	19.72	19.50	19.87	0-1	0.0			
DFT-s-OFDM 16QAM	1	1	19.44	19.65	20.17	0-1	0.0			
CP-OFDM QPSK	1	1	19.22	19.51	20.04	0-1.5	0.0			

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Table 9-6 NR Band n41 Measured Plimit for DSI = 2 (Head) - 40 MHz Bandwidth

	INIX E	and n a n w		NR Band n41	ead) - 40 MHZ	Danawiath		
			40	MHz Bandwidth				
				Cha	nnel		MDD	MDD
Modulation	RB Size	RB Offset	503202 (2516.01 MHz)	513468 (2567.34 MHz)	523734 (2618.67 MHz)	534000 (2670 MHz)	MPR Allowed per 3GPP	MPR Allowed per 3GPP
				[dB]	[dB]			
	1	1	19.83	19.59	19.88	19.92	0	0.0
	1	53	19.94	19.56	19.92	20.06		0.0
DFT-s-OFDM	1	104	19.82	19.63	19.87	19.79		0.0
π/2 BPSK	50	0	20.03	19.72	20.05	19.95	0-0.5	0.0
M/2 DI SIC	50	28	19.93	19.69	20.07	20.03	0	0.0
	50	56	19.97	19.63	20.04	19.99	0-0.5	0.0
	100	0	19.98	19.71	19.98	19.92	0-0.5	0.0
	1	1	19.69	19.90	19.86	19.87		0.0
	1	53	19.98	19.75	20.10	19.98	0	0.0
DFT-s-OFDM	1	104	19.81	19.76	19.85	19.91		0.0
QPSK	50	0	19.75	19.57	20.09	20.05	0-1	0.0
Qi Oit	50	28	19.91	19.58	19.95	19.97	0	0.0
	50	56	19.72	19.64	20.02	19.91	0-1	0.0
	100	0	20.07	19.47	20.12	19.96	0-1	0.0
DFT-s-OFDM 16QAM	1	1	19.81	19.97	19.96	20.10	0-1	0.0
CP-OFDM QPSK	1	1	19.55	19.66	19.89	19.72	0-1.5	0.0

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Table 9-7 NR Band n41 Measured Plimit for DSI = 2 (Head) - 20 MHz Bandwidth

				NR Band 20 MHz Ban							
				Channel							
Modulation	RB Size	RB Offset	501204 (2506.02 MHz)	509898 (2549.49 MHz)	518598 (2592.99 MHz)	527298 (2636.49 MHz)	535998 (2679.99 MHz)	MPR Allowed per 3GPP	MPR [dB]		
			Conducted Power [dBm]								
	1	1	19.52	19.77	19.63	19.59	19.68	0	0.0		
	1	26	19.58	19.61	19.39	19.77	19.74		0.0		
DFT-s-OFDM π/2 BPSK	1	49	19.70	19.54	19.57	19.68	19.77		0.0		
	25	0	19.67	19.47	19.56	19.73	19.79	0-0.5	0.0		
W/Z DF SK	25	13	19.71	19.50	19.64	19.72	19.72	0	0.0		
	25	26	19.69	19.37	19.55	19.81	19.80	0-0.5	0.0		
	50	0	19.74	19.44	19.59	19.74	19.88	0-0.5	0.0		
	1	1	19.63	19.58	19.69	19.80	19.63		0.0		
	1	26	19.67	19.72	19.63	19.77	19.77	0	0.0		
DET a OEDM	1	49	19.82	19.59	19.67	19.64	19.69		0.0		
DFT-s-OFDM QPSK	25	0	19.65	19.57	19.70	19.66	19.72	0-1	0.0		
Qi UK	25	13	19.78	19.41	19.48	19.70	19.65	0	0.0		
	25	26	19.92	19.32	19.61	19.73	19.76	0-1	0.0		
	50	0	19.83	19.39	19.56	19.82	19.68	U-1	0.0		
DFT-s-OFDM 16QAM	1	1	19.64	19.33	19.52	19.59	19.81	0-1	0.0		
CP-OFDM QPSK	1	1	19.50	19.63	19.74	19.71	19.69	0-1.5	0.0		

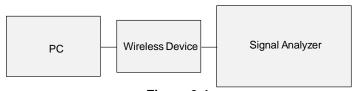


Figure 9-1 **Power Measurement Setup**

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10.1 Tissue Verification

Table 10-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
			2500	1.938	38.401	1.855	39.136	4.47%	-1.88%
			2510	1.948	38.367	1.866	39.123	4.39%	-1.93%
			2535	1.981	38.262	1.893	39.092	4.65%	-2.12%
		23.8	2550	1.996	38.203	1.909	39.073	4.56%	-2.23%
8/10/2020	2450 Head		2560	2.008	38.169	1.920	39.060	4.58%	-2.28%
			2600	2.054	37.999	1.964	39.009	4.58%	-2.59%
			2650	2.114	37.782	2.018	38.945	4.76%	-2.99%
			2680	2.149	37.672	2.051	38.907	4.78%	-3.17%
			2700	2.172	37.586	2.073	38.882	4.78%	-3.33%

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 Publication 865664 D01v01r04 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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10.2 Test System Verification

Prior to SAR assessment, the system is verified to ±10% of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in Appendix D.

> **Table 10-2** System Verification Results - 1g

	System Verification TARGET & MEASURED											
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR _{1g} (W/kg)	1 W Target SAR _{1g} (W/kg)	1 W Normalized SAR _{1g} (W/kg)	Deviation _{1g} (%)
E	2600	HEAD	08/10/2020	24.0	22.5	0.100	1064	3589	5.880	58.100	58.800	1.20%

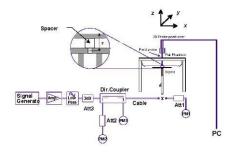


Figure 10-1 **System Verification Setup Diagram**



Figure 10-2 **System Verification Setup Photo**

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11.1 Standalone Head SAR Data

Table 11-1 NR n41 Head SAR

								MEA	SUREM	ENT RE	SULTS								
F	REQUENCY		Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]			Position				Number	Cycle	(W/kg)	Factor	(W/kg)	
2592.99	518598	Mid	NR Band n41	100	21.0	19.66	0.01	0	Right	Cheek	DFT-S-OFDM QPSK	1	271	0410M	1:4	0.289	1.361	0.393	
2592.99	518598	Mid	NR Band n41	100	21.0	19.65	0.08	0	Right	Cheek	DFT-S-OFDM QPSK	135	138	0410M	1:4	0.284	1.365	0.388	
2592.99	518598	Mid	NR Band n41	100	21.0	19.66	-0.01	0	Right	Tilt	DFT-S-OFDM QPSK	1	271	0410M	1:4	0.438	1.361	0.596	A1
2592.99	518598	Mid	NR Band n41	100	21.0	19.65	0.07	0	Right	Tilt	DFT-S-OFDM QPSK	135	138	0410M	1:4	0.418	1.365	0.571	
2592.99	518598	Mid	NR Band n41	100	21.0	19.54	0.11	0	Right	Tilt	CP-OFDM QPSK	1	1	0410M	1:4	0.399	1.400	0.559	
2592.99	518598	Mid	NR Band n41	100	21.0	19.66	0.05	0	Left	Cheek	DFT-S-OFDM QPSK	1	271	0410M	1:4	0.187	1.361	0.255	
2592.99	518598	Mid	NR Band n41	100	21.0	19.65	0.06	0	Left	Cheek	DFT-S-OFDM QPSK	135	138	0410M	1:4	0.178	1.365	0.243	
2592.99	518598	Mid	NR Band n41	100	21.0	19.66	0.02	0	Left	Tilt	DFT-S-OFDM QPSK	1	271	0410M	1:4	0.227	1.361	0.309	
2592.99	518598	Mid	NR Band n41	100	21.0	19.65	0.02	0	Left	Tilt	DFT-S-OFDM QPSK	135	138	0410M	1:4	0.228	1.365	0.311	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head							
	Spatial Peak					1.6 W/kg (mW/g)													
			Uncontrolled Exp	oosure/Ger	neral Popular	ion							avera	ged over 1	gram				

11.2 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.
- 2. Batteries are fully charged at the beginning of the 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. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were not required since measured SAR results for all frequency bands were less than 0.8 W/kg.
- 7. This device uses Qualcomm Smart Transmit for 2G/3G/4G/5G operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).

NR Notes:

- 1. Per FCC guidance, during EN-DC operations, SAR tests for NR bands and LTE anchor bands were performed separately due to limitations in SAR probe calibration factors.
- 2. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
- 3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography of the original filing 1M1911010179-01-R1.A3L).
- 4. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
- 5. For final implementation, NR Band n41 slot configuration is synchronized using maximum duty cycle of 25%. SAR testing was performed using FTM mode with a 25% duty cycle applied to match final duty cycle.

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12 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

12.1 Introduction

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

Please see the original compliance evaluation in RF Exposure Technical Report S/N: 1M1911010179-01-R1.A3L for the standalone reported SAR for modes and bands not evaluated for this permissive change.

12.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 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 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G operations is demonstrated in the Qualcomm Part 2 Report during algorithm validation.

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12.3 Head SAR Simultaneous Transmission Analysis

Table 12-1
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Held to Ear)

Exposure Condition	Mode	5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)		SAR (W/kg)
		1	2	3	1+2	1+3	1+2+3
Head SAR	NR Band n41	0.596	0.521	0.020	1.117	0.616	1.137

Table 12-2
Simultaneous Transmission Scenario with 5 GHz WLAN (Held to Ear)

Exposure Condition	Mode	5G SAR (W/kg) 5 GHz WLAN Ant 1 SAR (W/kg)		5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	1+2	1+3	1+2+3	
Head SAR	NR Band n41	0.596	0.164	0.132	0.760	0.728	0.892	

Table 12-3
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Held to Ear)

Exposure Condition	Mode	5G SAR (W/kg)	2.4 GHz WLAN MIMO at 16 dBm SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	NR Band n41	0.596	0.267	0.164	0.132	1.159

Table 12-4
Simultaneous Transmission Scenario with Bluetooth (Held to Ear)

Exposure Condition	Mode	5G SAR (W/kg)	Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	NR Band n41	0.596	0.314	0.910

Table 12-5
Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN (Held to Ear)

Exposure Condition	Mode	5G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Head SAR	NR Band n41	0.596	0.314	0.164	0.132	1.074	1.042	1.206

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12.4 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, variability SAR tests were not required since measured SAR results for all frequency bands were less than 0.8 W/kg

13.2 Measurement Uncertainty

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

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REV 21.5 M
02/15/2019

14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer (9KHZ-6.7GHZ)	1/16/2020	Triennial	1/16/2023	US41441489
Agilent	8753ES	S-Parameter Network Analyzer	12/31/2019	Annual	12/31/2020	US39170122
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/19/2019	Annual	9/19/2020	MY40003841
Agilent	E4438C	ESG Vector Signal Generator	3/8/2019	Biennial	3/8/2021	MY42082385
Agilent	N5182A	MXG Vector Signal Generator	2/19/2020	Annual	2/19/2021	MY47420651
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433976
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1244524
Anritsu	MA2411B	Pulse Power Sensor	12/4/2019	Annual	12/4/2020	1126066
Anritsu	ML2495A	Power Meter	12/17/2019	Annual	12/17/2020	941001
COMTech	AR85729-5	Solid State Amplifier	CBT	N/A	CBT	M1S5A00-009
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291463
Control Company	4352	Long Stem Thermometer	1/24/2020	Biennial	1/24/2022	200043588
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766817
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R8979500903
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Rohde & Schwarz	ZNLE6	Vector Network Analyzer	10/11/2019	Annual	10/11/2020	101307
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	1064
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2020	Annual	1/13/2021	1558
SPEAG	DAK-3.5	Dielectric Assessment Kit	10/22/2019	Annual	10/22/2020	1091
SPEAG	EX3DV4	SAR Probe	1/21/2020	Annual	1/21/2021	3589
Agilent	N9030A	PXA Signal Analyzer (44GHz)	8/17/2020	Annual	8/17/2021	MY52350166

Note: 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. a 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.

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a	С	d	e=	f	g	h =	i =	k
			f(d,k)			c x f/e	c x g/e	
	Tol.	Prob.		ci	ci	1gm	10gms	
Uncertainty Component	(± %)	Dist.	Div.	1gm	10 gms	u _i	u _i	V _i
						(± %)	(± %)	
Measurement System								
Probe Calibration	6.55	Ν	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	0.25	Ν	1	0.7	0.7	0.2	0.2	8
Hemishperical Isotropy	1.3	Ν	1	0.7	0.7	0.9	0.9	× ×
Boundary Effect	2.0	R	1.73	1.0	1.0	1.2	1.2	∞
Linearity	0.3	Ν	1	1.0	1.0	0.3	0.3	œ
System Detection Limits	0.25	R	1.73	1.0	1.0	0.1	0.1	oc
Readout Electronics	0.3	Ν	1	1.0	1.0	0.3	0.3	oc
Response Time	0.8	R	1.73	1.0	1.0	0.5	0.5	∞
Integration Time	2.6	R	1.73	1.0	1.0	1.5	1.5	∞
RF Ambient Conditions - Noise	3.0	R	1.73	1.0	1.0	1.7	1. <i>7</i>	∞
RF Ambient Conditions - Reflections	3.0	R	1.73	1.0	1.0	1.7	1. <i>7</i>	×
Probe Positioner Mechanical Tolerance	0.4	R	1.73	1.0	1.0	0.2	0.2	oc
Probe Positioning w/ respect to Phantom	6.7	R	1.73	1.0	1.0	3.9	3.9	oc
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	4.0	R	1.73	1.0	1.0	2.3	2.3	œ
Test Sample Related								
Test Sample Positioning	2.7	Ν	1	1.0	1.0	2.7	2.7	35
Device Holder Uncertainty	1.67	Ν	1	1.0	1.0	1.7	1. <i>7</i>	5
Output Power Variation - SAR drift measurement	5.0	R	1.73	1.0	1.0	2.9	2.9	×
SAR Scaling	0.0	R	1.73	1.0	1.0	0.0	0.0	œ
Phantom & Tissue Parameters								
Phantom Uncertainty (Shape & Thickness tolerances)	7.6	R	1.73	1.0	1.0	4.4	4.4	œ
Liquid Conductivity - measurement uncertainty	4.2	Ν	1	0.78	0.71	3.3	3.0	10
Liquid Permittivity - measurement uncertainty	4.1	Ν	1	0.23	0.26	1.0	1.1	10
Liquid Conductivity - Temperature Uncertainty	3.4	R	1.73	0.78	0.71	1.5	1.4	œ
Liquid Permittivity - Temperature Unceritainty	0.6	R	1.73	0.23	0.26	0.1	0.1	oc
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	œ
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	00
Combined Standard Uncertainty (k=1)	1	RSS			1 1	11.5	11.3	60
Expanded Uncertainty		k=2				23.0	22.6	
(95% CONFIDENCE LEVEL)						23.0	0	

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16 CONCLUSION

16.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very 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 in possible biological effects 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 various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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APPENDIX A: SAR TEST DATA

PCTEST

DUT: A3LSMG986W; Type: Portable Handset; Serial: 0410M

Communication System: UID 0, NR Band n41; Frequency: 2592.99 MHz; Duty Cycle: 1:4 Medium: 2450 Head Medium parameters used (interpolated): $f = 2592.99 \text{ MHz}; \ \sigma = 2.046 \text{ S/m}; \ \epsilon_r = 38.029; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Right Section

Test Date: 08/10/2020; Ambient Temp: 24.0°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN3589; ConvF(6.6, 6.6, 6.6) @ 2592.99 MHz; Calibrated: 1/21/2020 Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1558; Calibrated: 1/13/2020
Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: NR Band n41, Right Head, Tilt, 100 MHz Bandwidth, DFT-s-OFDM QPSK, Ch. 518598, 1 RB, 271 RB Offset

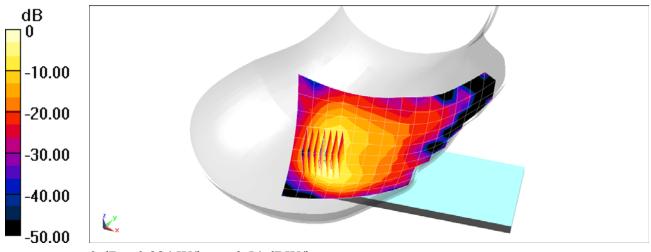
Area Scan (11x16x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.26 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.438 W/kg



0 dB = 0.884 W/kg = -0.54 dBW/kg

APPENDIX B: SYSTEM VERIFICATION

PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1064

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1 Medium: 2450 Head Medium parameters used: $f = 2600 \text{ MHz}; \ \sigma = 2.054 \text{ S/m}; \ \epsilon_r = 37.999; \ \rho = 1000 \text{ kg/m}^3$ Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/10/2020; Ambient Temp: 24.0°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN3589; ConvF(6.6, 6.6, 6.6) @ 2600 MHz; Calibrated: 1/21/2020

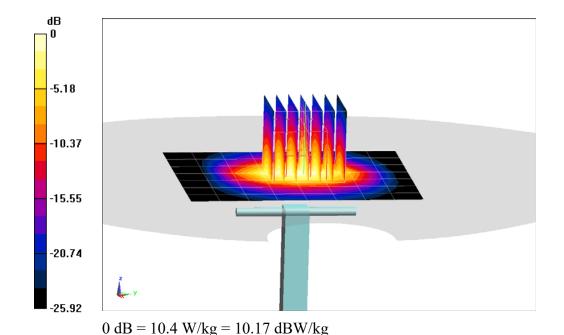
Sensor-Surface: 1.4mm (Mechanical Surface Detection) Electronics: DAE4 Sn1558; Calibrated: 1/13/2020

Phantom: Twin-SAM V5.0 (30); Type: QD 000 P40 CD; Serial: 1647

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2600 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mmZoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mmPeak SAR (extrapolated) = 13.6 W/kg SAR(1 g) = 5.88 W/kg Deviation(1 g) = 1.20%



APPENDIX C: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ε can be calculated from the below equation (Pournaropoulos

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

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 $j = \sqrt{-1}$.

3 Composition / Information on ingredients

Description: Aqueous solution with surfactants and inhibitors

Declarable, or hazardous components:

CAS: 107-21-1	Ethanediol	>1.0-4.9%
EINECS: 203-473-3	STOT RE 2, H373;	
Reg.nr.: 01-2119456816-28-0000	Acute Tox. 4, H302	
CAS: 68608-26-4	Sodium petroleum sulfonate	< 2.9%
EINECS: 271-781-5	Eye Irrit. 2, H319	
Reg.nr.: 01-2119527859-22-0000		
CAS: 107-41-5	Hexylene Glycol / 2-Methyl-pentane-2,4-diol	< 2.9%
EINECS: 203-489-0	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
Reg.nr.: 01-2119539582-35-0000		
CAS: 68920-66-1	Alkoxylated alcohol, > C ₁₆	< 2.0%
NLP: 500-236-9	Aquatic Chronic 2, H411;	
Reg.nr.: 01-2119489407-26-0000	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
Additional informations		

Additional information:

For the wording of the listed risk phrases refer to section 16.

Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential. The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

Figure C-1

Note: Liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

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Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 info@speag.com, http://www.speag.com

Measurement Certificate / Material Test

Item Name Head Tissue Simulating Liquid (HBBL600-10000V6) SL AAH U16 BC (Batch: 181031-2) Product No. Manufacturer SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

Test Condition

Ambient Condition 22°C; 30% humidity

TSL Temperature 22°C Test Date 31-Oct-18 Operator CL

Additional Information

TSL Density TSL Heat-capacity

	Meas	ured	MELLIN,	Targe	et	Diff.to Tar	get [%]
f [MHz]	e'	е"	sigma	eps	sigma	Δ-eps	Δ-sigma
800	43.8	20.5	0.91	41.7	0.90	5.1	1.4
825	43.8	20.1	0.92	41.6	0.91	5.3	1.5
835	43.8	19.9	0.93	41.5	0.91	5.4	2.0
850	43.7	19.7	0.93	41.5	0.92	5.3	1.5
900	43.5	18.9	0.95	41.5	0.97	4.8	-2.1
1400	42.5	15.0	1.17	40.6	1.18	4.7	-0.8
1450	42.5	14.8	1.19	40.5	1.20	4.9	-0.8
1600	42.2	14.3	1.27	40.3	1.28	4.7	-1.1
1625	42.2	14.2	1.29	40.3	1.30	4.8	-0.7
1640	42.2	14.2	1.30	40.3	1.31	4.8	-0.5
1650	42.1	14.2	1.30	40.2	1.31	4.6	-1.0
1700	42.1	14.0	1.33	40.2	1.34	4.8	-0.9
1750	42.0	13.9	1.36	40.1	1.37	4.8	-0.8
1800	41.9	13.9	1.39	40.0	1.40	4.7	-0.7
1810	41.9	13.8	1.40	40.0	1.40	4.7	0.0
1825	41.9	13.8	1.41	40.0	1.40	4.7	0.7
1850	41.8	13.8	1.42	40.0	1.40	4.5	1.4
1900	41.8	13.7	1.45	40.0	1.40	4.5	3.6
1950	41.7	13.7	1.48	40.0	1.40	4.3	5.7
2000	41.6	13.6	1.51	40.0	1.40	4.0	7.9
2050	41.6	13.6	1.55	39.9	1.44	4.2	7.3
2100	41.5	13.5	1.58	39.8	1.49	4.2	6.1
2150	41.4	13.5	1.62	39.7	1.53	4.2	5.7
2200	41.4	13.5	1.65	39.6	1.58	4.4	4.6
2250	41.3	13.5	1.69	39.6	1.62	4.4	4.2
2300	41.2	13.5	1.72	39.5	1.67	4.4	3.2
2350	41.1	13.5	1.76	39.4	1.71	4.4	2.9
2400	41.1	13.5	1.80	39.3	1.76	4.6	2.5
2450	41.0	13.5	1.84	39.2	1.80	4.6	2.2
2500	40.9	13.5	1.88	39.1	1.85	4.5	1.4
2550	40.8	13.5	1.92	39.1	1.91	4.4	0.6
2600	40.8	13.6	1.96	39.0	1.96	4.6	-0.2
3500	39.2	14.1	2.74	37.9	2.91	3.3	-5.8
3700	38.9	14.2	2.93	37.7	3.12	3.1	-6.1

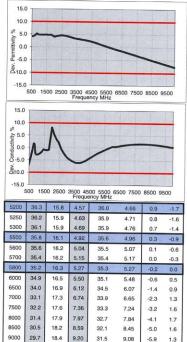


Figure C-2 600 - 5800 MHz Head Tissue Equivalent Matter

9500 28.9 18.5 9.80 31.0 9.71 -6.8 0.9

FCC ID A3LSMG986W	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager
Test Dates:	DUT Type:			APPENDIX C:
08/10/20	Portable Handset			Page 2 of 2

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APPENDIX D: SAR SYSTEM VALIDATION

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table D-1
SAR System Validation Summary – 1q

								CW VALIDATION			MOD. VALIDATION		
SAR System	Freq. (MHz)	Date	Probe SN	Probe Ca	al Point	Cond. (σ)	Perm. (εr)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
E	2600	2/5/2020	3589	2600	Head	1.935	38.417	PASS	PASS	PASS	TDD	PASS	N/A

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

FCC ID A3LSMG986W	PCTEST* Proud to be part of @ element SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates:	DUT Type:	APPENDIX D:
08/10/20	Portable Handset	Page 1 of 1

APPENDIX F: PROBE CALIBRATION

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





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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

PC Test

Certificate No: D2600V2-1064_Jun19

CALIBRATION CERTIFICATE

Object

D2600V2 - SN:1064

Calibration procedure(s)

QA CAL-05.v11

Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

44 06-70-7

Calibration date:

June 14, 2019

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: 5058 (20k)	04-Apr-19 (No. 217-02894)	Apr-20
Type-N mismatch combination	SN: 5047.2 / 06327	04-Apr-19 (No. 217-02895)	Apr-20
Reference Probe EX3DV4	SN: 7349	29-May-19 (No. EX3-7349_May19)	May-20
DAE4	SN: 601	30-Apr-19 (No. DAE4-601_Apr19)	Apr-20
Secondary Oter Andr	l.s.	0	
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Feb-19)	In house check: Oct-20
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-18)	In house check: Oct-20
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-18)	In house check: Oct-20
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-18)	In house check: Oct-20
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19
	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	//11//
			MIKKS
Approved by:	Katja Pokovic	Technical Manager	an
			/ Le 1/3-

Issued: June 20, 2019

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

Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Glossary:

TSL

tissue simulating liquid

ConvF

sensitivity in TSL / NORM x,y,z

N/A not ap

not applicable or not measured

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Measurement Conditions

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

DASY Version	DASY5	V52.10.2
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy , $dz = 5 mm$	
Frequency	2600 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.3 ± 6 %	2.03 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.9 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	58.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.59 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	26.0 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.5	2.16 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	50.5 ± 6 %	2.22 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	14.2 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	55.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.33 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	25.0 W/kg ± 16.5 % (k=2)

Certificate No: D2600V2-1064_Jun19 Page 3 of 8

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.8 Ω - 6.9 jΩ		
Return Loss	- 23.2 dB		

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.6 Ω - 4.4 jΩ		
Return Loss	- 24.9 dB		

General Antenna Parameters and Design

Electrical Delay (one direction)	1.151 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG

Certificate No: D2600V2-1064_Jun19 Page 4 of 8

DASY5 Validation Report for Head TSL

Date: 14.06.2019

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1064

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.03 \text{ S/m}$; $\varepsilon_r = 37.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(7.69, 7.69, 7.69) @ 2600 MHz; Calibrated: 29.05.2019

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

Electronics: DAE4 Sn601; Calibrated: 30.04.2019

Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001

DASY52 52.10.2(1504); SEMCAD X 14.6.12(7470)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

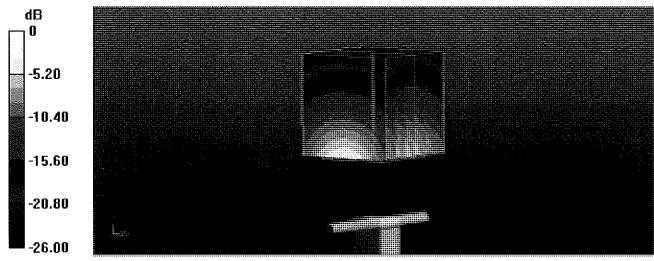
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 120.9 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 30.2 W/kg

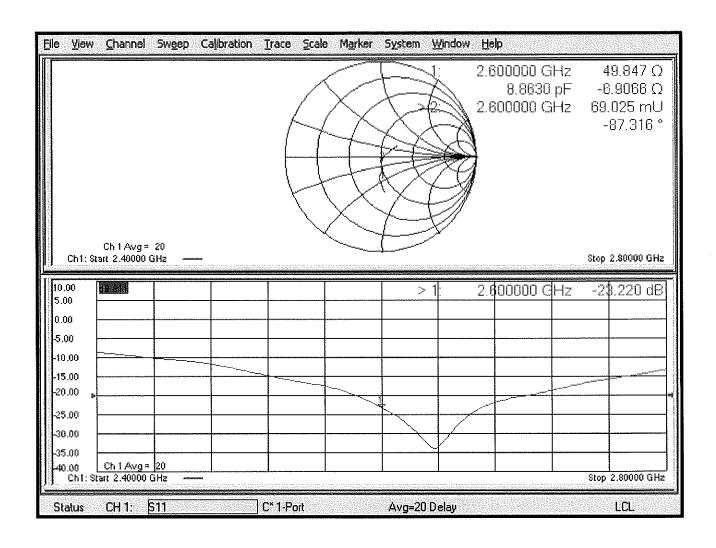
SAR(1 g) = 14.9 W/kg; SAR(10 g) = 6.59 W/kg

Maximum value of SAR (measured) = 25.1 W/kg



0 dB = 25.1 W/kg = 14.00 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 14.06.2019

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1064

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.22 \text{ S/m}$; $\varepsilon_r = 50.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.8, 7.8, 7.8) @ 2600 MHz; Calibrated: 29.05.2019

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

Electronics: DAE4 Sn601; Calibrated: 30.04.2019

Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002

DASY52 52.10.2(1504); SEMCAD X 14.6.12(7470)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

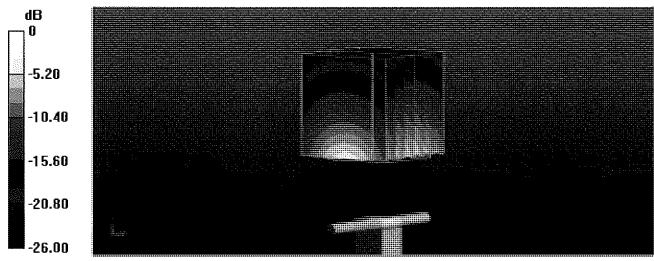
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 110.6 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 28.9 W/kg

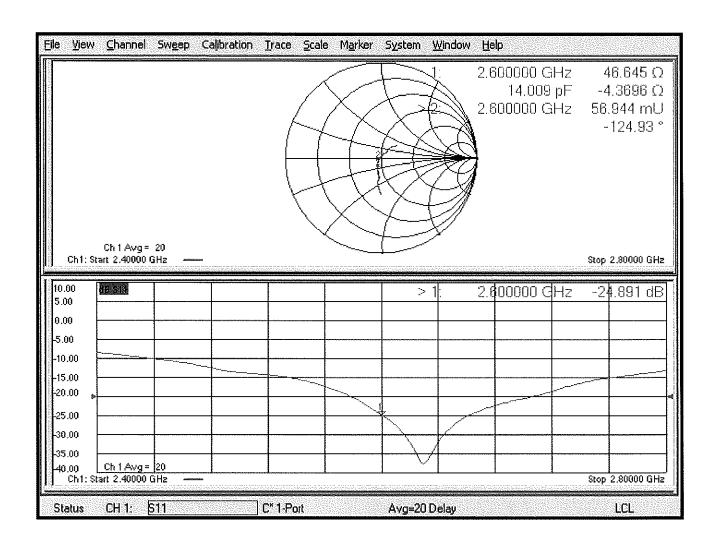
SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.33 W/kg

Maximum value of SAR (measured) = 23.6 W/kg



0 dB = 23.6 W/kg = 13.73 dBW/kg

Impedance Measurement Plot for Body TSL



PCTEST



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Certification of Calibration

Object D2600V2 – SN: 1064

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extended Calibration date: June 14, 2020

Description: SAR Validation Dipole at 2600 MHz.

Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number	
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291470	
Control Company	4352	Ultra Long Stem Thermometer	8/2/2018	Biennial	8/2/2020	181334684	
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433971	
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406	
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	7/2/2019	Annual	7/2/2020	MY53401181	
Rohde & Schwarz	ZNLE6	Vector Network Analyzer	10/11/2019	Annual	10/11/2020	101307	
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A	
SPEAG	DAKS-3.5	Portable DAK	9/10/2019	Annual	9/10/2020	1045	
Anritsu	MA2411B	Pulse Power Sensor	8/14/2019	Annual	8/14/2020	1315051	
Anritsu	MA2411B	Pulse Power Sensor	8/8/2019	Annual	8/8/2020	1339008	
Anritsu	ML2495A	Power Meter	12/17/2019	Annual	12/17/2020	941001	
Agilent	N5182A	MXG Vector Signal Generator	8/19/2019	Annual	8/19/2020	MY47420837	
Seekonk	NC-100	Torque Wrench	7/18/2019	Annual	7/18/2020	N/A	
MiniCircuits	ZHDC-16-63-S+	Bidirectional Coupler	CBT	N/A	CBT	N/A	
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A	
SPEAG	EX3DV4	SAR Probe	1/21/2020	Annual	1/21/2021	3589	
SPEAG	EX3DV4	SAR Probe	7/15/2019	Annual	7/15/2020	7547	
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/11/2019	Annual	7/11/2020	1323	
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2020	Annual	1/13/2021	1558	

Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Test Engineer	Test Engineer	BRODIE HALBFOSTER
Approved By:	Kaitlin O'Keefe	Managing Director	20K

Object:	Date Issued:	Page 1 of 4
D2600V2 – SN: 1064	6/14/2020	Page 1 of 4

DIPOLE CALIBRATION EXTENSION

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

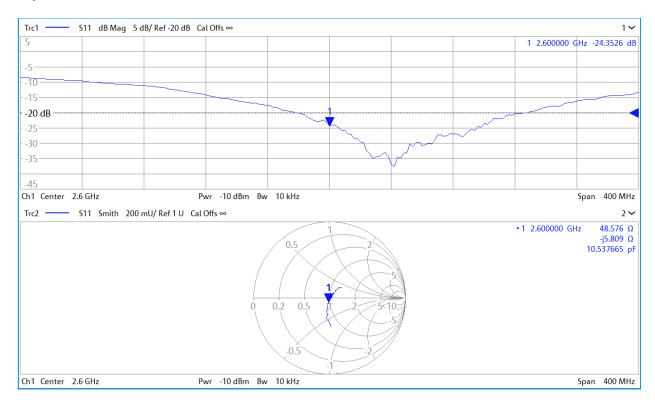
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

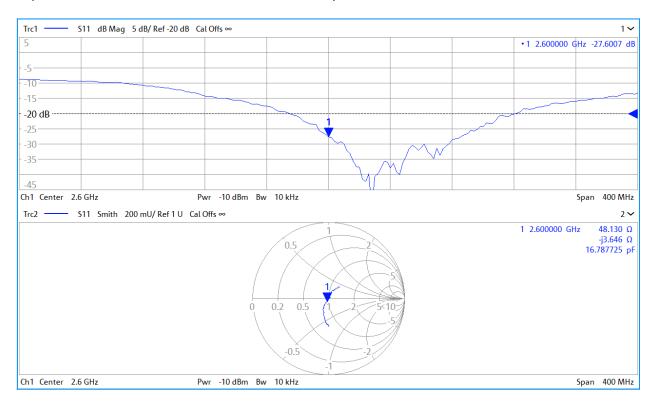
Calibration Date	Extension Date	Certificate Electrical Delay (ns)		Measured Head SAR (1g) W/kg @ 20.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	Measured Head SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
6/14/2019	6/14/2020	1.151	5.81	5.68	-2.24%	2.6	2.56	-1.54%	49.8	48.6	1.2	-6.9	-5.8	1.1	-23.2	-24.4	-5.00%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)		Measured Body SAR (1g) W/kg @ 20.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	Measured Body SAR (10g) W/kg @ 20.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary	Measured Impedance Body (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
6/14/2019	6/14/2020	1.151	5.56	5.43	-2.34%	2.5	2.39	-4.40%	46.6	48.1	1.5	-4.4	-3.6	0.8	-24.9	-27.6	-10.80%	PASS

Object:	Date Issued:	Page 2 of 4
D2600V2 – SN: 1064	6/14/2020	Fage 2 01 4

Impedance & Return-Loss Measurement Plot for Head TSL



Impedance & Return-Loss Measurement Plot for Body TSL



Calibration Laboratory of

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Accreditation No.: SCS 0108

Client

PC Test

Certificate No: EX3-3589_Jan20/2

CALIBRATION CERTIFICATE (Replacement of No: EX3-3589_Jan20)

Object

EX3DV4 - SN:3589

Calibration procedure(s)

QA CAL-01 v9, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes

BNV N413012020

Calibration date:

January 21, 2020

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	27-Dec-19 (No. DAE4-660_Dec19)	Dec-20
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec19)	Dec-20
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20

Calibrated by:

Leif Klysner

Laboratory Technician

Approved by:

Katja Pokovic

Technical Manager

Issued: March 31, 2020

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

Calibration Laboratory of

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Accreditation No.: SCS 0108

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Glossary:

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

ConvF DCP sensitivity in TSL / NORMx,y,z diode compression point

CF A, B, C, D crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters

Polarization φ

φ rotation around probe axis

Polarization 9

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

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

Connector Angle

Certificate No: EX3-3589_Jan20/2

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3589

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ²) ^A	0.44	0.40	0.39	± 10.1 %
DCP (mV) ^B	101.5	97.7	97.9	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	C	D B	VR mV	Max dev.	Max Unc ^E (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	138.1	± 3.5 %	± 4.7 %
		Υ	0.00	0.00	1.00		148.9		
		Z	0.00	0.00	1.00		137.1		
10352-	Pulse Waveform (200Hz, 10%)	Х	20.00	93.40	23.88	10.00	60.0	± 1.9 %	± 9.6 %
AAA		Υ	20.00	90.04	21.55		60.0		
		Z	20.00	93.40	23.50		60.0		
10353-	Pulse Waveform (200Hz, 20%)	Х	20.00	93.53	22.66	6.99	80.0	± 1.0 %	± 9.6 %
AAA		Υ	20.00	90.11	20.16		80.0		
		Z	20.00	93.36	22.20		80.0		
10354-	Pulse Waveform (200Hz, 40%)	Х	20.00	95.38	22.01	3.98	95.0	± 1.0 %	± 9.6 %
AAA		Y	20.00	88.87	17.82		95.0		
		Z	20.00	94.79	21.35		95.0		
10355-	Pulse Waveform (200Hz, 60%)	X	20.00	102.43	23.98	2.22	120.0	± 1.1 %	± 9.6 %
AAA		Υ	20.00	86.64	15.26		120.0]	
		Z	20.00	97.99	21.51		120.0		
10387-	QPSK Waveform, 1 MHz	Х	0.93	64.33	11.56	0.00	150.0	± 3.3 %	± 9.6 %
AAA		Υ	0.54	60.00	7.11		150.0]	
		Z	0.68	61.48	9.17		150.0		
10388-	QPSK Waveform, 10 MHz	X	2.38	69.01	16.27	0.00	150.0	± 1.3 %	± 9.6 %
AAA		Υ	2.02	66.96	14.92		150.0]	
		Z	2.15	67.54	15.53		150.0		
10396-	64-QAM Waveform, 100 kHz	Х	3.79	73.46	20.06	3.01	150.0	± 0.6 %	± 9.6 %
AAA		Υ	3.12	69.91	18.24		150.0		
		Z	4.11	75.05	20.59		150.0	<u> </u>	
10399-	64-QAM Waveform, 40 MHz	X	3.59	67.56	16.03	0.00	150.0	± 2.5 %	± 9.6 %
AAA		Υ	3.37	66.67	15.43		150.0		
		Z	3.46	66.93	15.67		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	Χ	4.95	65.82	15.63	0.00	150.0	± 4.6 %	± 9.6 %
AAA		Υ	4.77	65.46	15.41		150.0]	
		Z	4.80	65.52	15.45		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%.

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

B Numerical linearization parameter: uncertainty not required.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3589

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	Т6
X	52.5	386.65	34.73	26.61	1.15	5.10	1.30	0.45	1.01
Υ	44.4	339.10	36.93	20.74	1.47	5.06	0.00	0.71	1.01
Z	44.1	325.90	34.85	22.88	1.09	5.07	1.71	0.36	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-32.6
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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3589

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	8.70	8.70	8.70	0.38	1.00	± 12.0 %
835	41.5	0.90	8.58	8.58	8.58	0.47	0.80	± 12.0 %
1750	40.1	1.37	7.55	7.55	7.55	0.52	0.87	± 12.0 %
1900	40.0	1.40	7.25	7.25	7.25	0.43	0.87	± 12.0 %
2300	39.5	1.67	7.11	7.11	7.11	0.45	0.86	± 12.0 %
2450	39.2	1.80	6.85	6.85	6.85	0.47	0.85	± 12.0 %
2600	39.0	1.96	6.60	6.60	6.60	0.41	0.86	± 12.0 %

^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.

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.

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

the ConvF uncertainty for indicated target tissue parameters.

Gauge the ConvF uncertainty for indicated target tissue parameters.

Gauge the 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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3589

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	8.49	8.49	8.49	0.49	0.81	± 12.0 %
835	55.2	0.97	8.27	8.27	8.27	0.29	1.03	± 12.0 %
1750	53.4	1.49	6.93	6.93	6.93	0.41	0.87	± 12.0 %
1900	53.3	1.52	6.72	6.72	6.72	0.35	0.87	± 12.0 %
2300	52.9	1.81	6.62	6.62	6.62	0.34	0.86	± 12.0 %
2450	52.7	1.95	6.60	6.60	6.60	0.40	0.86	± 12.0 %
2600	52.5	2.16	6.35	6.35	6.35	0.37	0.90	± 12.0 %

^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.

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.

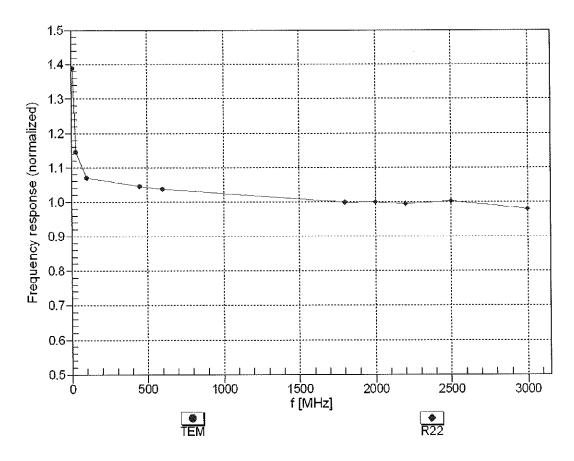
F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty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

the ConvF uncertainty for indicated target tissue parameters.

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.

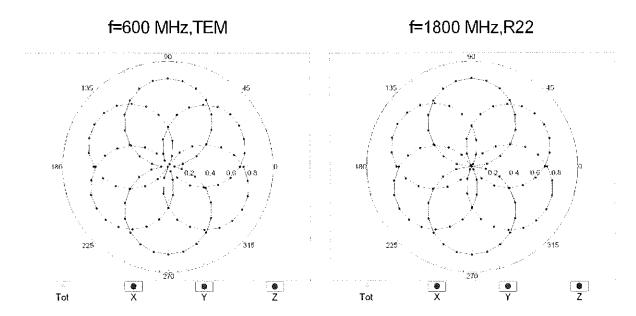
Frequency Response of E-Field

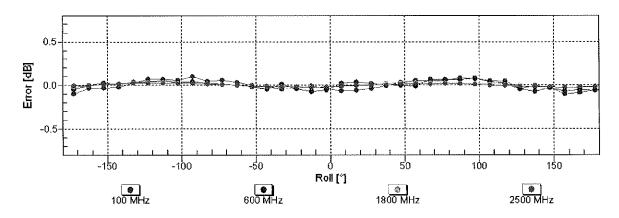
(TEM-Cell:ifi110 EXX, Waveguide: R22)



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

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

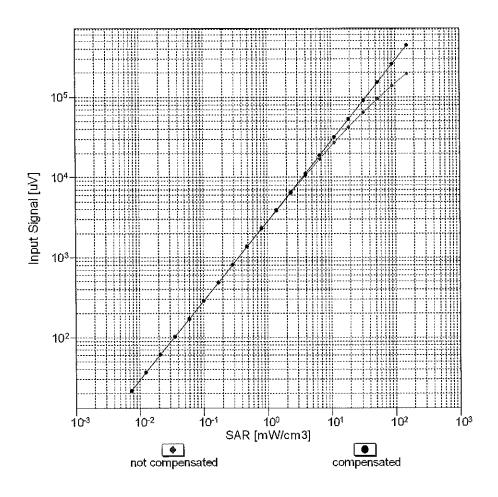


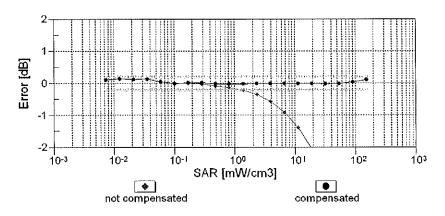


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR_{head})

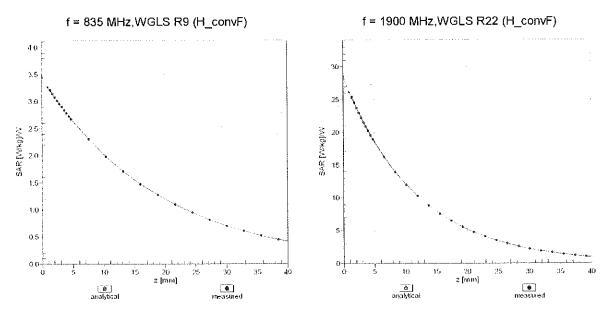
(TEM cell , f_{eval}= 1900 MHz)



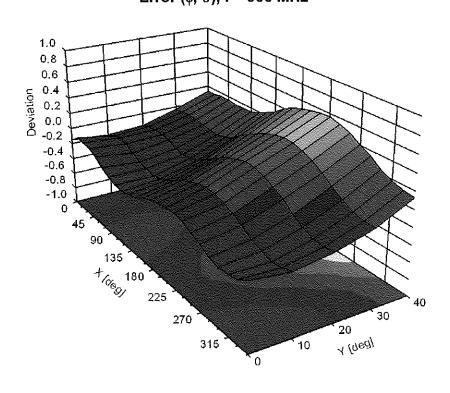


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



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



Appendix: Modulation Calibration Parameters

DID	Rev	Communication System Name	Group	PAR	Unc
		CVI.	CIN	(dB)	(k=2)
0		CW (2)	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test WCDMA	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)		2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	GSM	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6%
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0) GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	9.57 6.56	± 9.6 % ± 9.6 %
10024 10025	DAC	EDGE-FDD (TDMA, 8MSK, TN 0-1)	GSM	12.62	±9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10026	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	3.55	± 9.6 %
10028	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	7.78	±9.6 %
10029	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	4.53	±9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
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	±9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6%
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6%
10060	CAB	IEEE 802.11b WIFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6 %
10061	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6%
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6%
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 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	±9.6%
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6 %
10082	CAB	IS-54 / IS-136 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	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6%
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6%
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TOD	9.29	±9.6%
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6%
10105 10108		LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	10.01 5.80	± 9.6 %
10100	CAG	<u>ן ביביי טט (סט־רטואה, וטטאו אם, וט אורוב, ערסת)</u>	LIL-FUU	1 0.00	± 9.6 %

			1.72.500	1 2 (2)	
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6%
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6%
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TOD	9.21	± 9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6,50	±9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6%
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6%
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	± 9.6 %
10195	CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	± 9.6 %
10196	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10197	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10198 10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %

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40000	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10220	CAC		WLAN	8.27	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10222	CAC		WLAN		
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48 8.08	± 9.6 % ± 9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WCDMA	5.97	
10225	CAB	UMTS-FDD (HSPA+)	LTE-TDD		± 9.6 % ± 9.6 %
10226	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)		9.49	
10227	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9,48	± 9.6 %
10233	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6%
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6%
10243	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6 %
10245	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9,91	±9.6%
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6%
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6%
10252	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6%
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %
10260	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6 %
10261	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6%
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	±9.6%
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6 %
10275	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAA	PHS (QPSK)	PHS	11.81	± 9,6 %
10278	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, Rolloff 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	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	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %
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T 40000		LTE EDD (OO EDMA FOO) DD OANIE OA OANI	LTE EDD	0.00	1000
10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD WIMAX	6.60 12.03	± 9.6 % ± 9.6 %
10301	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	12.03	
10302	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WIMAX	12.57	± 9.6 % ± 9.6 %
10303		IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC) IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
	AAA		WIMAX	15.24	***************************************
10305	AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)	WIMAX	· •	±9.6%
10306	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)		14.67	± 9.6 %
10307	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WiMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WIMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3)	WIMAX	14.58	± 9.6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3	WIMAX	14.57	± 9.6 %
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAA	iDEN 1:3	IDEN	10.51	± 9.6 %
10314	AAA	iDEN 1:6	IDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)	WLAN	8,36	±9.6%
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	±9.6%
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6%
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±96%
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6%
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.37	±9.6%
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	±9.6%
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6%
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6%
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10410	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6%
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	±9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	±9.6%
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6%
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAD	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 %
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10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	±9.6%
10464	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10467	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.82	±9.6%
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.6%
10469	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.6%
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	±9.6%
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	±9.6 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	±9.6%
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	± 9.6 %
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	± 9.6 %
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	± 9.6 %
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	± 9.6 %
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.59	± 9.6 %
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	± 9.6 %
10487	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	± 9.6 %
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	± 9.6 %
10489	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10491	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	±9.6 %
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	± 9.6 % ± 9.6 %
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	
10497	AAB	·			± 9.6 %
10497	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10498	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	± 9.6 %
10500	AAC		LTE-TDD	8.68	± 9.6 %
		LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10501	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	± 9.6 %
10503	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	± 9.6 %
10504	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TOD	8.31	± 9.6 %
10505	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10506	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10507	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	±9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	±9.6%
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	± 9.6 %
10511	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.42	± 9.6 %
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	±9.6%
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	±9.6%
10518	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	±9.6%
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	±9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.08	±9.6%
10523		LEEF OOD 44. W. MORE F. OUT. CORDAL PARK. OO. 1.	WLAN	8.27	±9.6%
	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAIN	U.Z.1	20.070
10523 10524 10525	AAB AAB	IEEE 802.11a/n WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAN	8.36	± 9.6 %
10523 10524				······································	

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10528	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6 %
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	±9.6%
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	±9.6 %
10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8,45	± 9.6 %
10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.44	± 9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	±9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	±9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8.65	± 9.6 %
10544	}		WLAN		
	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)		8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10552	AAB	IEEÉ 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	±9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	±9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	±9.6%
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)	WLAN	8.73	±9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	±9.6%
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.77	±9.6%
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	±9.6 %
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	±9.6%
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	±9.6 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	±9.6 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	±9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	±9.6 %
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	±9.6 %
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	±9.6 %
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 44 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10583	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 16 Mbps, 90pc dc)	WLAN		
10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.76 8.35	±9.6%
1		IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)			±9.6%
10590	AAB		WLAN	8.67	±9.6%
10591 10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN WLAN	8.63	± 9.6 %
	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)		8.79	±9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN WLAN	8.64	±9.6%
10594 10595	AAB AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10090	WAD	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	IAAFVIA	8.74	± 9.6 %

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10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	±9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.94	±9.6%
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	±9.6%
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.78	± 9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	
10612			WLAN		±9.6%
,	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)		8.94	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	±9.6%
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	±9.6%
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)	WLAN	8.96	± 9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.83	±9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	±9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9,6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	±9.6%
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)	WLAN	8.80	± 9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN		± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MC32, 90pc dc)	WLAN	8.86	
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	±9.6%
				8.98	±9.6%
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	±9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.05	±9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6 %
10646	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAE	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2,22	± 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6 %
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10672 AAA IEEE 802.11ax (20MHz, MCS1, 90pc dc) WLAN 10673 AAA IEEE 802.11ax (20MHz, MCS2, 90pc dc) WLAN 10674 AAA IEEE 802.11ax (20MHz, MCS3, 90pc dc) WLAN 10675 AAA IEEE 802.11ax (20MHz, MCS4, 90pc dc) WLAN 10676 AAA IEEE 802.11ax (20MHz, MCS5, 90pc dc) WLAN 10677 AAA IEEE 802.11ax (20MHz, MCS6, 90pc dc) WLAN	8.57 8.78 8.74 8.90 8.77	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10674 AAA IEEE 802.11ax (20MHz, MCS3, 90pc dc) WLAN 10675 AAA IEEE 802.11ax (20MHz, MCS4, 90pc dc) WLAN 10676 AAA IEEE 802.11ax (20MHz, MCS5, 90pc dc) WLAN	8.74 8.90 8.77	± 9.6 %
10675 AAA IEEE 802.11ax (20MHz, MCS4, 90pc dc) WLAN 10676 AAA IEEE 802.11ax (20MHz, MCS5, 90pc dc) WLAN	8.90 8.77	
10676 AAA IEEE 802.11ax (20MHz, MCS5, 90pc dc) WLAN	8.77	± 9.0 %
10010 1.001 1		
10677		± 9.6 %
	8.73	± 9.6 %
10678 AAA IEEE 802.11ax (20MHz, MCS7, 90pc dc) WLAN	8.78	± 9.6 %
10679 AAA IEEE 802.11ax (20MHz, MCS8, 90pc dc) WLAN	8.89	± 9.6 %
10680 AAA IEEE 802.11ax (20MHz, MCS9, 90pc dc) WLAN	8.80	±9.6%
10681 AAA IEEE 802.11ax (20MHz, MCS10, 90pc dc) WLAN	8.62	± 9.6 %
10682 AAA IEEE 802.11ax (20MHz, MCS11, 90pc dc) WLAN	8.83	± 9.6 %
10683 AAA IEEE 802.11ax (20MHz, MCS0, 99pc dc) WLAN	8.42	± 9.6 %
10684 AAA IEEE 802.11ax (20MHz, MCS1, 99pc dc) WLAN	8.26	± 9.6 %
10685 AAA IEEE 802.11ax (20MHz, MCS2, 99pc dc) WLAN	8.33	± 9.6 %
10686 AAA IEEE 802.11ax (20MHz, MCS3, 99pc dc) WLAN	8.28	± 9.6 %
10687 AAA IEEE 802.11ax (20MHz, MCS4, 99pc dc) WLAN	8.45	± 9.6 %
10688 AAA IEEE 802.11ax (20MHz, MCS5, 99pc dc) WLAN	8.29	± 9.6 %
10689 AAA IEEE 802.11ax (20MHz, MCS6, 99pc dc) WLAN	8.55	± 9.6 %
10690 AAA IEEE 802.11ax (20MHz, MCS7, 99pc dc) WLAN	8.29	± 9.6 %
10691 AAA IEEE 802.11ax (20MHz, MCS8, 99pc dc) WLAN	8.25	± 9.6 %
10692 AAA IEEE 802.11ax (20MHz, MCS9, 99pc dc) WLAN	8.29	± 9.6 %
10693 AAA IEEE 802.11ax (20MHz, MCS10, 99pc dc) WLAN	8.25	± 9.6 %
10694 AAA IEEE 802.11ax (20MHz, MCS11, 99pc dc) WLAN	8.57	± 9.6 %
10695 AAA IEEE 802.11ax (40MHz, MCS0, 90pc dc) WLAN	8.78	± 9.6 %
10696 AAA IEEE 802.11ax (40MHz, MCS1, 90pc dc) WLAN	8.91	± 9.6 %
10697 AAA IEEE 802.11ax (40MHz, MCS2, 90pc dc) WLAN	8.61	± 9.6 %
10698 AAA IEEE 802.11ax (40MHz, MCS3, 90pc dc) WLAN	8.89	± 9.6 %
10699 AAA IEEE 802.11ax (40MHz, MCS4, 90pc dc) WLAN	8.82	±9.6%
10700 AAA IEEE 802.11ax (40MHz, MCS5, 90pc dc) WLAN	8.73	± 9.6 %
10701 AAA IEEE 802.11ax (40MHz, MCS6, 90pc dc) WLAN	8.86	± 9.6 %
10702 AAA IEEE 802.11ax (40MHz, MCS7, 90pc dc) WLAN	8.70	± 9.6 %
10703 AAA IEEE 802.11ax (40MHz, MCS8, 90pc dc) WLAN	8.82	± 9.6 %
10704 AAA IEEE 802.11ax (40MHz, MCS9, 90pc dc) WLAN	8.56	± 9.6 %
10705 AAA IEEE 802.11ax (40MHz, MCS10, 90pc dc) WLAN	8.69	± 9.6 %
10706 AAA IEEE 802.11ax (40MHz, MCS11, 90pc dc) WLAN	8.66	± 9.6 %
10707 AAA IEEE 802.11ax (40MHz, MCS0, 99pc dc) WLAN	8.32	± 9.6 %
10708 AAA IEEE 802.11ax (40MHz, MCS1, 99pc dc) WLAN	8.55	± 9.6 %
10709 AAA IEEE 802.11ax (40MHz, MCS2, 99pc dc) WLAN	8.33_	± 9.6 %
10710 AAA IEEE 802.11ax (40MHz, MCS3, 99pc dc) WLAN	8.29	± 9.6 %
10711 AAA IEEE 802.11ax (40MHz, MCS4, 99pc dc) WLAN	8.39	± 9.6 %
10712 AAA IEEE 802.11ax (40MHz, MCS5, 99pc dc) WLAN	8.67	±9.6%
10713 AAA IEEE 802.11ax (40MHz, MCS6, 99pc dc) WLAN	8.33	± 9.6 %
10714 AAA IEEE 802.11ax (40MHz, MCS7, 99pc dc) WLAN	8.26	± 9.6 %
10715 AAA IEEE 802.11ax (40MHz, MCS8, 99pc dc) WLAN	8.45	± 9.6 %
10716 AAA IEEE 802.11ax (40MHz, MCS9, 99pc dc) WLAN	8.30	± 9.6 %
10717 AAA IEEE 802.11ax (40MHz, MCS10, 99pc dc) WLAN	8.48	± 9.6 %
10718 AAA IEEE 802.11ax (40MHz, MCS11, 99pc dc) WLAN	8.24	±9.6 %
10719 AAA IEEE 802.11ax (80MHz, MCS0, 90pc dc) WLAN	8.81	± 9.6 %
10720 AAA IEEE 802.11ax (80MHz, MCS1, 90pc dc) WLAN	8.87	± 9.6 %
10721 AAA IEEE 802.11ax (80MHz, MCS2, 90pc dc) WLAN	8.76	± 9.6 %
10722 AAA IEEE 802.11ax (80MHz, MCS3, 90pc dc) WLAN	8.55	±9.6 %
10723 AAA IEEE 802.11ax (80MHz, MCS4, 90pc dc) WLAN	8.70	± 9.6 %
10724 AAA IEEE 802.11ax (80MHz, MCS5, 90pc dc) WLAN	8.90	±9.6%
10725 AAA IEEE 802.11ax (80MHz, MCS6, 90pc dc) WLAN	8.74	±9.6 %
10726 AAA IEEE 802.11ax (80MHz, MCS7, 90pc dc) WLAN	8.72	± 9.6 %
10727 AAA IEEE 802.11ax (80MHz, MCS8, 90pc dc) WLAN	8.66	± 9.6 %
10728 AAA IEEE 802.11ax (80MHz, MCS9, 90pc dc) WLAN	8.65	± 9.6 %
10729 AAA IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN	8.64	± 9.6 %
10730 AAA IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN	8.67	± 9.6 %
10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc dc) WLAN	8.42	± 9.6 %
10732 AAA IEEE 802.11ax (80MHz, MCS1, 99pc dc) WLAN	8.46	± 9.6 %
10733 AAA IEEE 802.11ax (80MHz, MCS2, 99pc dc) WLAN	8.40	± 9.6 %
10734 AAA IEEE 802.11ax (80MHz, MCS3, 99pc dc) WLAN	8.25	± 9.6 %
10735 AAA IEEE 802.11ax (80MHz, MCS4, 99pc dc) WLAN	8.33	± 9.6 %

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10738 AAA	10736	1	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN		± 9.6 %
10739 AAA						
19740 AAA		1				
10741 AAA EEE 802.11ax (80MHz, MCS11, 99pc dc)						
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10744 AAA EEE B02.11ax (160MHz, MCS), 90pc dc)						
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10764 AAA IEEE 802.11ax (160MHz, MCS9, 99pc dc)	<u> </u>				-	
10765 AAA IEEE 802.11ax (160MHz, MCS10, 99pc dc)						
10766 AAA IEEE 802.11ax (160MHz, MCS11, 99pc dc)			, , , , , , , , , , , , , , , , , , , ,			
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10786 AAC 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.35 ± 9.6 % 10787 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.44 ± 9.6 % 10788 AAC 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ± 9.6 % 10789 AAC 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.37 ± 9.6 % 10790 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ± 9.6 % 10791 AAC 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ± 9.6 % 10792 AAC 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 ± 9.6 % 10793 AAC 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.95 ± 9.6 % 10794 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10795 AAC 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ± 9.6 %				5G NR FR1 TDD		
10787 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.44 ± 9.6 % 10788 AAC 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ± 9.6 % 10789 AAC 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.37 ± 9.6 % 10790 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ± 9.6 % 10791 AAC 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ± 9.6 % 10792 AAC 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 ± 9.6 % 10793 AAC 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.95 ± 9.6 % 10794 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10795 AAC 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ± 9.6 % 10796 AAC 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 %	10786			5G NR FR1 TDD		
10788 AAC 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ± 9.6 % 10789 AAC 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.37 ± 9.6 % 10790 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ± 9.6 % 10791 AAC 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ± 9.6 % 10792 AAC 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 ± 9.6 % 10793 AAC 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.95 ± 9.6 % 10794 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10795 AAC 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ± 9.6 % 10796 AAC 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10797 AAC 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 %	10787	AAC		5G NR FR1 TDD	8.44	
10789 AAC 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.37 ± 9.6 % 10790 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ± 9.6 % 10791 AAC 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ± 9.6 % 10792 AAC 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 ± 9.6 % 10793 AAC 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.95 ± 9.6 % 10794 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10795 AAC 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ± 9.6 % 10796 AAC 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10797 AAC 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10798 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9.6 %	10788	AAC		5G NR FR1 TDD	8.39	± 9.6 %
10790 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ± 9.6 % 10791 AAC 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ± 9.6 % 10792 AAC 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 ± 9.6 % 10793 AAC 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.95 ± 9.6 % 10794 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10795 AAC 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ± 9.6 % 10796 AAC 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10797 AAC 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10798 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9.6 %	10789	AAC		5G NR FR1 TDD	8.37	± 9.6 %
10792 AAC 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 ± 9.6 % 10793 AAC 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.95 ± 9.6 % 10794 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10795 AAC 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ± 9.6 % 10796 AAC 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10797 AAC 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.01 ± 9.6 % 10798 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9.6 %		AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10793 AAC 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.95 ± 9.6 % 10794 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10795 AAC 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ± 9.6 % 10796 AAC 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10797 AAC 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.01 ± 9.6 % 10798 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9.6 %			5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10794 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10795 AAC 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ± 9.6 % 10796 AAC 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10797 AAC 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.01 ± 9.6 % 10798 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9.6 %			5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10795 AAC 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 ± 9.6 % 10796 AAC 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10797 AAC 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.01 ± 9.6 % 10798 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9.6 %		AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6 %
10796 AAC 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ± 9.6 % 10797 AAC 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.01 ± 9.6 % 10798 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9.6 %						± 9.6 %
10797 AAC 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.01 ± 9.6 % 10798 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9.6 %				5G NR FR1 TDD		
10798 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ± 9.6 %					-	
					.	
10799 AAC 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ± 9.6 %	<u> </u>					
	10799	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %

1981 AAC. SO NR (CP-OPDM, 1 18), 80 MHz, QPSK, 30 Hz) SO NR FRI TDD 7,88 ±9,6 %				T		
18855 AAC. SG NR (CP-OPOM, 50% RB, 10 MHz, QPSK, 30 MHz) SG NR FRI TDD S.34	10801	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
19805 AAC SG NR (CP-OPOM, 50% RB, 10 MHz, OPSK, 30 HHz) SG NR FRI TDD 8,374 4,96 %	10802	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
19806 AAC 50 NR (CP-OFOM, 59% RB, 150 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.37 9.6 % 19809 AAC 50 NR (CP-OFOM, 59% RB, 150 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.37 9.6 % 19809 AAC 50 NR (CP-OFOM, 59% RB, 50 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.34 9.6 % 19810 AAC 50 NR (CP-OFOM, 59% RB, 60 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.34 9.6 % 19812 AAC 50 NR (CP-OFOM, 59% RB, 60 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.35 9.6 % 19812 AAC 50 NR (CP-OFOM, 59% RB, 60 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.35 9.6 % 19814 AAC 50 NR (CP-OFOM, 109% RB, 50 NHz, OPSK, 30 HHz) 50 NR FRI TDD 8.35 9.6 % 19814 AAC 50 NR (CP-OFOM, 109% RB, 51 NHz, OPSK, 30 HHz) 50 NR FRI TDD 8.35 9.6 % 19820 AAC 50 NR (CP-OFOM, 109% RB, 52 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.35 9.6 % 19820 AAC 50 NR (CP-OFOM, 109% RB, 52 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.30 9.6 % 19820 AAC 50 NR (CP-OFOM, 109% RB, 52 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.30 9.6 % 19822 AAC 50 NR (CP-OFOM, 109% RB, 52 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.41 9.6 % 19822 AAC 50 NR (CP-OFOM, 109% RB, 50 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.41 9.6 % 19822 AAC 50 NR (CP-OFOM, 109% RB, 50 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.41 9.6 % 19822 AAC 50 NR (CP-OFOM, 109% RB, 50 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.41 9.6 % 19822 AAC 50 NR (CP-OFOM, 109% RB, 50 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.41 9.6 % 19822 AAC 50 NR (CP-OFOM, 109% RB, 50 MHz, OPSK, 30 HHz) 50 NR FRI TDD 8.41 9.6 % 19822 AAC 50 NR (CP-OFOM, 109% RB, 50 MHz, OPSK, 50 NHz) 50 NR FRI TDD 8.42 9.6 % 19822 AAC 50 NR (CP-OFOM, 109% RB, 50 MHz, OPSK, 50 NHz) 50 NR FRI TDD 8.42 9.6 % 19822 AAC 50 NR (CP-OFOM, 109% RB, 50 MHz, OPSK, 50 NHz) 50 NR FRI TDD 8.42 9.6 % 19822 AAC 50 NR (CP-OFOM, 109% RB, 50 MHz, OPSK, 50 NHz) 50 NR FRI TDD 7.73 9.6 % 19822 AAC 50 NR (CP-OFOM, 109% RB, 50 MHz, OPSK, 50 NHz) 50 NR FRI T	10803	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	
19809 AAC SO NR (CP-OPOM, 50% RB, 15 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.34 19.6 % 19810 AAC SO NR (CP-OPOM, 50% RB, 40 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.34 19.6 % 19810 AAC SO NR (CP-OPOM, 50% RB, 40 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.35 19.6 % 19811 AAC SO NR (CP-OPOM, 50% RB, 60 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.35 19.6 % 19811 AAC SO NR (CP-OPOM, 50% RB, 60 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.35 19.6 % 19819 AAC SO NR (CP-OPOM, 100% RB, 15 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.35 19.6 % 19819 AAC SO NR (CP-OPOM, 100% RB, 15 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.35 19.6 % 19820 AAC SO NR (CP-OPOM, 100% RB, 25 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.33 19.6 % 19820 AAC SO NR (CP-OPOM, 100% RB, 25 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.33 19.6 % 19820 AAC SO NR (CP-OPOM, 100% RB, 25 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.34 19.6 % 19821 AAC SO NR (CP-OPOM, 100% RB, 25 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.34 19.6 % 19822 AAC SO NR (CP-OPOM, 100% RB, 25 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.36 19.6 % 19822 AAC SO NR (CP-OPOM, 100% RB, 50 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.36 19.6 % 19824 AAC SO NR (CP-OPOM, 100% RB, 50 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.36 19.6 % 19824 AAC SO NR (CP-OPOM, 100% RB, 50 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.36 19.6 % 19824 AAC SO NR (CP-OPOM, 100% RB, 50 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.41 19.6 % 19824 AAC SO NR (CP-OPOM, 100% RB, 50 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.41 19.6 % 19824 AAC SO NR (CP-OPOM, 100% RB, 50 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.41 19.6 % 19824 AAC SO NR (CP-OPOM, 100% RB, 50 MHz, OPSK, 30 HHz) SO NR FRI TDD 8.41 19.6 % 19824 AAC SO NR (CP-OPOM, 100% RB, 50 MHz, OPSK, 50 HHz) SO NR FRI TDD 8.43 19.6 % 19824 AAC SO NR (CP-OPOM, 100% RB, 50 MHz, OPSK, 50 HHz) SO NR FRI TDD 8.43 19.6 % 19824 AAC SO NR (CP-OPOM, 100% RB, 50 MHz, OPSK, 5						
1989	}					
19810 AAC SG NR (CP-OPIDM, 50%, RB, 40 MHz, QPSK, 30 HHz) SG NR FRI TDD 3.34 1.9.6 % 19.8 % 19.						
10817 AAC SO NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 HHz) SO NR FRI TOD 8.35 19.8 % 10818 AAC SO NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.34 19.8 % 10818 AAC SO NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.34 19.8 % 10820 AAC SO NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.30 19.8 % 10820 AAC SO NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.30 19.8 % 10820 AAC SO NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.30 19.8 % 10822 AAC SO NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.41 19.8 % 10822 AAC SO NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.41 19.8 % 10822 AAC SO NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.41 19.8 % 10824 AAC SO NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.41 19.8 % 10825 AAC SO NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.42 19.8 % 10825 AAC SO NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.42 19.8 % 10825 AAC SO NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.42 19.8 % 10822 AAC SO NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.42 19.8 % 10822 AAC SO NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.42 19.8 % 10822 AAC SO NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.42 19.8 % 10822 AAC SO NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.42 19.8 % 10822 AAC SO NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 Hz) SO NR FRI TOD 8.42 19.8 % 10822 AAC SO NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 50 Hz) SO NR FRI TOD 7.74 19.6 % 10822 AAC SO NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 50 Hz) SO NR FRI TOD 7.74 19.6 % 10822 AAC SO NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 50 Hz) SO NR FRI TOD 7.74 19.6 % 10823 AAC SO NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 50 Hz) SO NR F						
10817 AAC SG NIN (CP-OFDM, 100% RB, 5 MHz, QPSK, 50 Hz) SG NIF RRI TDD 8,35 ±9,6 % 10819 AAC SG NIN (CP-OFDM, 100% RB, 15 MHz, QPSK, 50 Hz) SG NIF RRI TDD 8,30 ±9,6 % 10819 AAC SG NIN (CP-OFDM, 100% RB, 20 MHz, QPSK, 50 Hz) SG NIF RRI TDD 8,30 ±9,6 % 10829 AAC SG NIN (CP-OFDM, 100% RB, 20 MHz, QPSK, 50 Hz) SG NIF RRI TDD 8,30 ±9,6 % 10821 AAC SG NIN (CP-OFDM, 100% RB, 20 MHz, QPSK, 50 Hz) SG NIF RRI TDD 8,41 ±9,6 % 10822 AAC SG NIN (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 Hz) SG NIF RRI TDD 8,41 ±9,6 % 10823 AAC SG NIN (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 Hz) SG NIF RRI TDD 8,41 ±9,6 % 10823 AAC SG NIN (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 Hz) SG NIF RRI TDD 8,41 ±9,6 % 10824 AAC SG NIN (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 Hz) SG NIF RRI TDD 8,39 ±9,6 % 10825 AAC SG NIN (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 Hz) SG NIF RRI TDD 8,39 ±9,6 % 10825 AAC SG NIN (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 Hz) SG NIF RRI TDD 8,42 ±9,6 % 10825 AAC SG NIN (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 Hz) SG NIF RRI TDD 8,42 ±9,6 % 10822 AAC SG NIN (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 Hz) SG NIF RRI TDD 8,42 ±9,6 % 10823 AAC SG NIN (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 Hz) SG NIF RRI TDD 8,40 ±9,6 % 10823 AAC SG NIN (CP-OFDM, 100% RB, 50 MHz, QPSK, 50 Hz) SG NIF RRI TDD 8,40 ±9,6 % 10823 AAC SG NIN (CP-OFDM, 100% RB, 50 MHz, QPSK, 50 Hz) SG NIF RRI TDD 8,40 ±9,6 % 10823 AAC SG NIN (CP-OFDM, 18R, 50 MHz, QPSK, 50 Hz) SG NIF RRI TDD 7,73 ±9,6 % 10823 AAC SG NIN (CP-OFDM, 18R, 50 MHz, QPSK, 50 Hz) SG NIF RRI TDD 7,70 ±9,6 % 10823 AAC SG NIN (CP-OFDM, 18R, 50 MHz, QPSK, 50 Hz) SG NIF RRI TDD 7,70 ±9,6 % 10823 AAC SG NIN (CP-OFDM, 18R, 50 MHz, QPSK, 50 Hz) SG NIF RRI TDD 7,70 ±9,6 % 10823 AAC SG NIN (CP-OFDM, 18R, 50 MHz, QPSK, 50 Hz) SG NIF RRI TDD 7,70 ±9,6 % 10823 AAC SG NIN (CP-OFDM, 18R, 50 MHz, QPSK,	10810	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10817	10812	AAC	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6%
10819	10817	AAC		5G NR FR1 TDD		
10829				<u> </u>		
10820 AAC 56 NR (CP-OFDM, 100% RB, 20 MHz, OPSK, 30 MHz) 56 NR FRF1 TDD 8.30 4.9.6 % 10822 AAC 56 NR (CP-OFDM, 100% RB, 25 MHz, OPSK, 30 MHz) 56 NR FRF1 TDD 8.41 4.9.6 % 10822 AAC 56 NR (CP-OFDM, 100% RB, 30 MHz, OPSK, 30 MHz) 56 NR FRF1 TDD 8.41 4.9.6 % 10823 AAC 56 NR (CP-OFDM, 100% RB, 30 MHz, OPSK, 30 MHz) 56 NR FRF1 TDD 8.36 4.9.6 % 10824 AAC 56 NR (CP-OFDM, 100% RB, 30 MHz, OPSK, 30 MHz) 56 NR FRF1 TDD 8.41 4.9.6 % 10825 AAC 56 NR (CP-OFDM, 100% RB, 30 MHz, OPSK, 30 MHz) 56 NR FRF1 TDD 8.41 4.9.6 % 10826 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 MHz) 56 NR FRF1 TDD 8.41 4.9.6 % 10828 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 MHz) 56 NR FRF1 TDD 8.42 4.9.6 % 10828 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 MHz) 56 NR FRF1 TDD 8.42 4.9.6 % 10829 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 MHz) 56 NR FRF1 TDD 8.43 4.9.6 % 10829 AAC 56 NR (CP-OFDM, 100% RB, 90 MHz, OPSK, 30 MHz) 56 NR FRF1 TDD 8.40 4.9.6 % 10830 AAC 56 NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 50 KHz) 56 NR FRF1 TDD 7.63 4.9.6 % 10830 AAC 56 NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 50 KHz) 56 NR FRF1 TDD 7.63 4.9.6 % 10832 AAC 56 NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 50 KHz) 56 NR FRF1 TDD 7.73 4.9.6 % 10833 AAC 56 NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 50 KHz) 56 NR FRF1 TDD 7.73 4.9.6 % 10833 AAC 56 NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 50 KHz) 56 NR FRF1 TDD 7.75 4.9.6 % 10833 AAC 56 NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 KHz) 56 NR FRF1 TDD 7.76 4.9.6 % 10835 AAC 56 NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 KHz) 56 NR FRF1 TDD 7.76 4.9.6 % 10835 AAC 56 NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 KHz) 56 NR FRF1 TDD 7.70 4.9.6 % 10836 AAC 56 NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 KHz) 56 NR FRF1 TDD 7.70 4.9.6 % 10836 AAC 56 NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 KHz) 56 NR FRF1 TDD 7.70 4.9.6 % 10836 AAC 56 NR (CP-OFDM, 100% RB						
10822 AAC 56 NR (CP-OFDM, 109% RB, 25 MHz, CPSK, 30 Hz) 56 NR FR1 TDD 8.41 2.9.6 % 10823 AAC 56 NR (CP-OFDM, 109% RB, 30 MHz, CPSK, 30 Hz) 56 NR FR1 TDD 8.41 2.9.6 % 10824 AAC 56 NR (CP-OFDM, 109% RB, 40 MHz, CPSK, 30 Hz) 56 NR FR1 TDD 8.36 2.9.6 % 10824 AAC 56 NR (CP-OFDM, 109% RB, 50 MHz, CPSK, 30 Hz) 56 NR FR1 TDD 8.39 2.9.6 % 10825 AAC 56 NR (CP-OFDM, 109% RB, 50 MHz, CPSK, 30 Hz) 56 NR FR1 TDD 8.42 2.9.6 % 10827 AAC 56 NR (CP-OFDM, 109% RB, 60 MHz, CPSK, 30 Hz) 56 NR FR1 TDD 8.42 2.9.6 % 10828 AAC 56 NR (CP-OFDM, 109% RB, 90 MHz, CPSK, 30 Hz) 56 NR FR1 TDD 8.42 2.9.6 % 10828 AAC 56 NR (CP-OFDM, 109% RB, 90 MHz, CPSK, 30 Hz) 56 NR FR1 TDD 8.43 2.9.6 % 10828 AAC 56 NR (CP-OFDM, 109% RB, 90 MHz, CPSK, 30 Hz) 56 NR FR1 TDD 8.43 2.9.6 % 10828 AAC 56 NR (CP-OFDM, 188, 90 MHz, CPSK, 30 Hz) 56 NR FR1 TDD 7.73 2.9.6 % 10839 AAC 56 NR (CP-OFDM, 178, 40 MHz, CPSK, 30 Hz) 56 NR FR1 TDD 7.73 2.9.6 % 10830 AAC 56 NR (CP-OFDM, 1 RB, 15 MHz, CPSK, 30 Hz) 56 NR FR1 TDD 7.73 2.9.6 % 10833 AAC 56 NR (CP-OFDM, 1 RB, 25 MHz, CPSK, 30 Hz) 56 NR FR1 TDD 7.73 2.9.6 % 10833 AAC 56 NR (CP-OFDM, 1 RB, 25 MHz, CPSK, 60 Hz) 56 NR FR1 TDD 7.70 2.9.6 % 10833 AAC 56 NR (CP-OFDM, 1 RB, 25 MHz, CPSK, 60 Hz) 56 NR FR1 TDD 7.70 2.9.6 % 10833 AAC 56 NR (CP-OFDM, 1 RB, 25 MHz, CPSK, 60 Hz) 56 NR FR1 TDD 7.70 2.9.6 % 10833 AAC 56 NR (CP-OFDM, 1 RB, 50 MHz, CPSK, 60 Hz) 56 NR FR1 TDD 7.70 2.9.6 % 10836 AAC 56 NR (CP-OFDM, 1 RB, 50 MHz, CPSK, 60 Hz) 56 NR FR1 TDD 7.70 2.9.6 % 10839 AAC 56 NR (CP-OFDM, 1 RB, 50 MHz, CPSK, 60 Hz) 56 NR FR1 TDD 7.70 2.9.6 % 10839 AAC 56 NR (CP-OFDM, 1 RB, 50 MHz, CPSK, 60 Hz) 56 NR FR1 TDD 7.70 2.9.6 % 10839 AAC 56 NR (CP-OFDM, 1 RB, 50 MHz, CPSK, 60 Hz) 56 NR FR1 TDD 7.70 2.9.6 % 10839 AAC 56 NR (CP-OFDM, 1 RB, 50 MHz, CPSK, 60 Hz) 56 NR FR1 TDD 7.70 2.9.6					}	
10822					8.30	
10823 AAC 5G RR (CP-OFDM, 100% RB, 40 MHz, OPSK, 30 MHz) 5G RN FRI TDD 8,39 ±9,6 % 10825 AAC 5G RN (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 MHz) 5G RN FRI TDD 8,41 ±9,6 % 10825 AAC 5G RN (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 MHz) 5G RN FRI TDD 8,41 ±9,6 % 10828 AAC 5G RN (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 MHz) 5G RN FRI TDD 8,43 ±9,6 % 10828 AAC 5G RN (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 MHz) 5G RN FRI TDD 8,43 ±9,6 % 10828 AAC 5G RN (CP-OFDM, 100% RB, 100 MHz, OPSK, 30 MHz) 5G RN FRI TDD 8,43 ±9,6 % 10829 AAC 5G RN (CP-OFDM, 100% RB, 100 MHz, OPSK, 30 MHz) 5G RN FRI TDD 7,63 ±9,6 % 10839 AAC 5G RN (CP-OFDM, 1 RB, 10 MHz, OPSK, 50 MHz) 5G RN FRI TDD 7,763 ±9,6 % 10831 AAC 5G RN (CP-OFDM, 1 RB, 20 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,73 ±9,6 % 10831 AAC 5G RN (CP-OFDM, 1 RB, 20 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,74 ±9,6 % 10833 AAC 5G RN (CP-OFDM, 1 RB, 20 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,75 ±9,6 % 10833 AAC 5G RN (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,75 ±9,6 % 10835 AAC 5G RN (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,75 ±9,6 % 10835 AAC 5G RN (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,76 ±9,6 % 10839 AAC 5G RN (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,76 ±9,6 % 10839 AAC 5G RN (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,76 ±9,6 % 10839 AAC 5G RN (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,70 ±9,6 % 10839 AAC 5G RN (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,70 ±9,6 % 10839 AAC 5G RN (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,70 ±9,6 % 10839 AAC 5G RN (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,70 ±9,6 % 10839 AAC 5G RN (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,70 ±9,6 % 10849 AAC 5G RN (CP-OFDM, 100% RB, 30 MHz, OPSK, 60 MHz) 5G RN FRI TDD 7,70 ±9	E	AAC		5G NR FR1 TDD	8.41	±9.6%
10823 AAC SG NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 MHz) SG NR FRI TDD 8.36 ±9.6 % 10825 AAC SG NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 MHz) SG NR FRI TDD 8.41 ±9.6 % 10827 AAC SG NR (CP-OFDM, 100% RB, 60 MHz, OPSK, 30 MHz) SG NR FRI TDD 8.41 ±9.6 % 10829 AAC SG NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 MHz) SG NR FRI TDD 8.43 ±9.6 % 10829 AAC SG NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 MHz) SG NR FRI TDD 8.43 ±9.6 % 10829 AAC SG NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 MHz) SG NR FRI TDD 8.43 ±9.6 % 10829 AAC SG NR (CP-OFDM, 100% RB, 100 MHz, OPSK, 30 MHz) SG NR FRI TDD 7.63 ±9.6 % 10831 AAC SG NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 50 MHz) SG NR FRI TDD 7.76 ±9.6 % 10831 AAC SG NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.73 ±9.6 % 10831 AAC SG NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.74 ±9.6 % 10833 AAC SG NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.75 ±9.6 % 10835 AAC SG NR (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.76 ±9.6 % 10835 AAC SG NR (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.76 ±9.6 % 10835 AAC SG NR (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.76 ±9.6 % 10839 AAC SG NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.76 ±9.6 % 10839 AAC SG NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.76 ±9.6 % 10839 AAC SG NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.76 ±9.6 % 10839 AAC SG NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.76 ±9.6 % 10844 AAC SG NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.76 ±9.6 % 10844 AAC SG NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.76 ±9.6 % 10844 AAC SG NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.76 ±9.6 % 10844 AAC SG NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 MHz) SG NR FRI TDD 7.76 ±9.6 %	10822	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6%
10825	10823	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	
10825 AAC 5G NR (CP-OFDM, 109% RB, 80 MHz, CPSK, 30 Hz) 5G NR FRI TDD 8.41 ±9.6 %, 10827 AAC 5G NR (CP-OFDM, 109% RB, 80 MHz, CPSK, 30 Hz) 5G NR FRI TDD 8.43 ±9.6 %, 10828 AAC 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 Hz) 5G NR FRI TDD 8.43 ±9.6 %, 10829 AAC 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 Hz) 5G NR FRI TDD 8.43 ±9.6 %, 10829 AAC 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 Hz) 5G NR FRI TDD 7.63 ±9.6 %, 10831 AAC 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.73 ±9.6 %, 10831 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.74 ±9.6 %, 10831 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.75 ±9.6 %, 10833 AAC 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.76 ±9.6 %, 10833 AAC 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.75 ±9.6 %, 10834 AAC 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.75 ±9.6 %, 10835 AAC 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.70 ±9.6 %, 10836 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.70 ±9.6 %, 10839 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.70 ±9.6 %, 10839 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.70 ±9.6 %, 10839 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.70 ±9.6 %, 10839 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.70 ±9.6 %, 10840 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.70 ±9.6 %, 10840 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.70 ±9.6 %, 10840 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.70 ±9.6 %, 10840 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.70 ±9.6 %, 10840 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 Hz) 5G NR FRI TDD 7.70 ±9.6 %, 10840 AAC 5G NR (CP-OFDM, 100% RB, 50 MH	10824	AAC				
10827			,		 	
10828	<u> </u>					
10829 AAC 56 NR (CP-OFDM, 10% RB, 100 MHz, CPSK, 50 KHz) 56 NR FR1 TDD 8.40 ± 9.6 % 10830 AAC 56 NR (CP-OFDM, 1 RB, 10 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.73 ± 9.6 % 10832 AAC 56 NR (CP-OFDM, 1 RB, 15 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.74 ± 9.6 % 10832 AAC 56 NR (CP-OFDM, 1 RB, 25 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.74 ± 9.6 % 10832 AAC 56 NR (CP-OFDM, 1 RB, 25 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.70 ± 9.6 % 10834 AAC 56 NR (CP-OFDM, 1 RB, 25 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.70 ± 9.6 % 10835 AAC 56 NR (CP-OFDM, 1 RB, 35 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.70 ± 9.6 % 10835 AAC 56 NR (CP-OFDM, 1 RB, 30 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.70 ± 9.6 % 10835 AAC 56 NR (CP-OFDM, 1 RB, 40 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.66 ± 9.6 % 10836 AAC 56 NR (CP-OFDM, 1 RB, 40 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.66 ± 9.6 % 10837 AAC 56 NR (CP-OFDM, 1 RB, 80 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.70 ± 9.6 % 10839 AAC 56 NR (CP-OFDM, 1 RB, 80 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.70 ± 9.6 % 10840 AAC 56 NR (CP-OFDM, 1 RB, 80 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.70 ± 9.6 % 10840 AAC 56 NR (CP-OFDM, 1 RB, 80 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.70 ± 9.6 % 10844 AAC 56 NR (CP-OFDM, 1 RB, 90 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 7.71 ± 9.6 % 10844 AAC 56 NR (CP-OFDM, 50% RB, 30 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 8.49 ± 9.6 % 10844 AAC 56 NR (CP-OFDM, 50% RB, 30 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 8.49 ± 9.6 % 10844 AAC 56 NR (CP-OFDM, 50% RB, 30 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 8.49 ± 9.6 % 10844 AAC 56 NR (CP-OFDM, 50% RB, 30 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 8.34 ± 9.6 % 10844 AAC 56 NR (CP-OFDM, 50% RB, 30 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 8.34 ± 9.6 % 10844 AAC 56 NR (CP-OFDM, 50% RB, 30 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 8.34 ± 9.6 % 10844 AAC 56 NR (CP-OFDM, 50% RB, 30 MHz, CPSK, 60 KHz) 56 NR FR1 TDD 8.34 ± 9.6 % 10845 AAC 56 NR (CP-O				· [
10830				<u> </u>		
10830	10829	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10831 AAC 56 NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 60 KHz) 56 NR FRI TDD 7.73 ± 9.6 % 10833 AAC 56 NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 60 KHz) 56 NR FRI TDD 7.76 ± 9.6 % 10834 AAC 56 NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 60 KHz) 56 NR FRI TDD 7.70 ± 9.6 % 10836 AAC 56 NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 60 KHz) 56 NR FRI TDD 7.70 ± 9.6 % 10836 AAC 56 NR (CP-OFDM, 1 RB, 40 MHz, OPSK, 60 KHz) 56 NR FRI TDD 7.70 ± 9.6 % 10836 AAC 56 NR (CP-OFDM, 1 RB, 40 MHz, OPSK, 60 KHz) 56 NR FRI TDD 7.60 ± 9.6 % 10837 AAC 56 NR (CP-OFDM, 1 RB, 60 MHz, OPSK, 60 KHz) 56 NR FRI TDD 7.60 ± 9.6 % 10837 AAC 56 NR (CP-OFDM, 1 RB, 60 MHz, OPSK, 60 KHz) 56 NR FRI TDD 7.60 ± 9.6 % 10839 AAC 56 NR (CP-OFDM, 1 RB, 60 MHz, OPSK, 60 KHz) 56 NR FRI TDD 7.60 ± 9.6 % 10840 AAC 56 NR (CP-OFDM, 1 RB, 100 MHz, OPSK, 60 KHz) 56 NR FRI TDD 7.67 ± 9.6 % 10841 AAC 56 NR (CP-OFDM, 1 RB, 100 MHz, OPSK, 60 KHz) 56 NR FRI TDD 7.67 ± 9.6 % 10843 AAC 56 NR (CP-OFDM, 50% RB, 20 MHz, OPSK, 60 KHz) 56 NR FRI TDD 7.67 ± 9.6 % 10843 AAC 56 NR (CP-OFDM, 50% RB, 20 MHz, OPSK, 60 KHz) 56 NR FRI TDD 7.67 ± 9.6 % 10844 AAC 56 NR (CP-OFDM, 50% RB, 20 MHz, OPSK, 60 KHz) 56 NR FRI TDD 8.49 ± 9.6 % 10846 AAC 56 NR (CP-OFDM, 50% RB, 20 MHz, OPSK, 60 KHz) 56 NR FRI TDD 8.41 ± 9.6 % 10846 AAC 56 NR (CP-OFDM, 50% RB, 20 MHz, OPSK, 60 KHz) 56 NR FRI TDD 8.34 ± 9.6 % 10846 AAC 56 NR (CP-OFDM, 100% RB, 15 MHz, OPSK, 60 KHz) 56 NR FRI TDD 8.34 ± 9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 15 MHz, OPSK, 60 KHz) 56 NR FRI TDD 8.34 ± 9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 15 MHz, OPSK, 60 KHz) 56 NR FRI TDD 8.34 ± 9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 60 KHz) 56 NR FRI TDD 8.34 ± 9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 60 KHz) 56 NR FRI TDD 8.34 ± 9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 60 KHz) 5	10830	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	
10832	10831	AAC		·	, 	
10833 AAC 56 NR (CP-OFDM, 1 RB, 25 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 7.70 ± 9.6 % 10834 AAC 56 NR (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 7.75 ± 9.6 % 10836 AAC 56 NR (CP-OFDM, 1 RB, 40 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 7.60 ± 9.6 % 10836 AAC 56 NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 7.66 ± 9.6 % 10837 AAC 56 NR (CP-OFDM, 1 RB, 60 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 7.66 ± 9.6 % 10839 AAC 56 NR (CP-OFDM, 1 RB, 60 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 7.70 ± 9.6 % 10840 AAC 56 NR (CP-OFDM, 1 RB, 90 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 7.70 ± 9.6 % 10840 AAC 56 NR (CP-OFDM, 1 RB, 90 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 7.71 ± 9.6 % 10843 AAC 56 NR (CP-OFDM, 1 RB, 90 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 7.71 ± 9.6 % 10843 AAC 56 NR (CP-OFDM, 50% RB, 20 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 7.71 ± 9.6 % 10844 AAC 56 NR (CP-OFDM, 50% RB, 20 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 8.49 ± 9.6 % 10844 AAC 56 NR (CP-OFDM, 50% RB, 20 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 8.49 ± 9.6 % 10846 AAC 56 NR (CP-OFDM, 50% RB, 20 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 8.41 ± 9.6 % 10846 AAC 56 NR (CP-OFDM, 50% RB, 20 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 8.34 ± 9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 10 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 8.34 ± 9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 10 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 8.34 ± 9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 20 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 8.34 ± 9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 20 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 8.35 ± 9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 8.36 ± 9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 8.36 ± 9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 60 KHz) 56 NR FR1 TDD 8.36 ± 9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 60 KHz)						
19834					f	
10835					•	
10836						
10837 AAC 56 NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 7.68 1.9.6 % 10839 AAC 56 NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 7.67 1.9.6 % 10840 AAC 56 NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 7.67 1.9.6 % 10841 AAC 56 NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 7.67 1.9.6 % 10843 AAC 56 NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 7.67 1.9.6 % 10843 AAC 56 NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.34 1.9.6 % 10844 AAC 56 NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.34 1.9.6 % 10846 AAC 56 NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.34 1.9.6 % 10855 AAC 56 NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.34 1.9.6 % 10855 AAC 56 NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.34 1.9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.36 1.9.6 % 10856 AAC 56 NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.35 1.9.6 % 10858 AAC 56 NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.35 1.9.6 % 10859 AAC 56 NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.36 1.9.6 % 10859 AAC 56 NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.36 1.9.6 % 10860 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.36 1.9.6 % 10860 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.36 1.9.6 % 10860 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.41 1.9.6 % 10860 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.41 1.9.6 % 10860 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.41 1.9.6 % 10860 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 KHz) 56 NR FR1 TDD 8.41 1.9.6 % 10860 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz		AAC			7.70	± 9.6 %
10839	10836	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	±9.6%
10839	10837	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9.6%
10840 AAC 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.67 ± 9.6 % 10841 AAC 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.49 ± 9.6 % 10843 AAC 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.49 ± 9.6 % 10844 AAC 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.34 ± 9.6 % 10846 AAC 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.34 ± 9.6 % 10846 AAC 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.34 ± 9.6 % 10855 AAC 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.34 ± 9.6 % 10856 AAC 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.36 ± 9.6 % 10856 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.35 ± 9.6 % 10856 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.35 ± 9.6 % 10858 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.35 ± 9.6 % 10858 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.35 ± 9.6 % 10859 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.34 ± 9.6 % 10859 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.34 ± 9.6 % 10860 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10860 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10860 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10860 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10860 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10860 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10860 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10860 AAC 5G NR (CP-OFDM, 100% RB	10839	AAC				
10841 AAC 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	ļ		1			
10843 AAC 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.49 ±9.6 % 10844 AAC 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.34 ±9.6 % 10846 AAC 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.34 ±9.6 % 10854 AAC 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.34 ±9.6 % 10855 AAC 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.36 ±9.6 % 10856 AAC 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.36 ±9.6 % 10856 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.35 ±9.6 % 10857 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.35 ±9.6 % 10859 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.35 ±9.6 % 10859 AAC 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.36 ±9.6 % 10859 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.36 ±9.6 % 10860 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ±9.6 % 10861 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ±9.6 % 10863 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ±9.6 % 10864 AAC 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ±9.6 % 10866 AAC 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ±9.6 % 10866 AAC 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ±9.6 % 10866 AAC 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ±9.6 % 10866 AAC 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ±9.6 % 10866 AAC 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ±9.6 % 10866 AAC 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 50 kHz) 5G NR FR1 TDD 5.68 ±9.6 % 10866 AAC 5G NR (CP-OFDM, 100% RB, 100 MHz, QP			<u> </u>			
10844 AAC 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.34 ± 9.6 % 10846 AAC 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10854 AAC 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.36 ± 9.6 % 10855 AAC 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.36 ± 9.6 % 10856 AAC 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.37 ± 9.6 % 10857 AAC 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.35 ± 9.6 % 10857 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.35 ± 9.6 % 10858 AAC 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.36 ± 9.6 % 10859 AAC 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.36 ± 9.6 % 10859 AAC 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.34 ± 9.6 % 10860 AAC 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10861 AAC 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10863 AAC 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10864 AAC 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10865 AAC 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10866 AAC 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 5.68 ± 9.6 % 10869 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 5.68 ± 9.6 % 10869 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 5.68 ± 9.6 % 10869 AAD 5G NR (CPT-SOFDM, 100% RB, 100 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 5.68 ± 9.6 % 10869 AAD 5G NR (CPT-SOFDM, 100% RB, 100 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 5.68 ± 9.6 % 10873 AAD 5G NR (CPT-SOFDM, 100% RB, 100 MHz, QPSK, 120 KHz) 5G NR FR2 TDD 5.75 ± 9.6 % 10873 AAD 5G	}			. 		-
10846			<u> </u>	<u></u>		± 9.6 %
10854	10844	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10854 AAC SG NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz) SG NR FR1 TDD 8.34 ± 9.6 % 10855 AAC SG NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz) SG NR FR1 TDD 8.36 ± 9.6 % 10856 AAC SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz) SG NR FR1 TDD 8.35 ± 9.6 % 10857 AAC SG NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) SG NR FR1 TDD 8.35 ± 9.6 % 10858 AAC SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz) SG NR FR1 TDD 8.36 ± 9.6 % 10859 AAC SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz) SG NR FR1 TDD 8.34 ± 9.6 % 10859 AAC SG NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz) SG NR FR1 TDD 8.34 ± 9.6 % 10860 AAC SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) SG NR FR1 TDD 8.41 ± 9.6 % 10861 AAC SG NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) SG NR FR1 TDD 8.41 ± 9.6 % 10863 AAC SG NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz) SG NR FR1 TDD 8.41 ± 9.6 % 10864 AAC SG NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz) SG NR FR1 TDD 8.41 ± 9.6 % 10864 AAC SG NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz) SG NR FR1 TDD 8.41 ± 9.6 % 10866 AAC SG NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) SG NR FR1 TDD 8.41 ± 9.6 % 10866 AAC SG NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 80 kHz) SG NR FR1 TDD 8.41 ± 9.6 % 10868 AAC SG NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) SG NR FR1 TDD S.68 ± 9.6 % 10869 AAD SG NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) SG NR FR2 TDD S.68 ± 9.6 % 10870 AAD SG NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) SG NR FR2 TDD S.75 ± 9.6 % 10871 AAD SG NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) SG NR FR2 TDD S.75 ± 9.6 % 10873 AAD SG NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) SG NR FR2 TDD S.75 ± 9.6 % 10873 AAD SG NR (DFT-s-OFDM, 100% RB, 100 MHz, GAQAM, 120 kHz) SG NR FR2 TDD S.75 ± 9.6 % 10873 AAD SG NR (DFT-s-OFDM, 100% RB, 100 MHz, GAQAM, 120 kHz) SG NR FR2 TDD S.75 ±	10846	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10855	10854	AAC		5G NR FR1 TDD		
10856						
10857					1	
10858						
10859			<u> </u>		 	
10860 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10861 AAC 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.40 ± 9.6 % 10863 AAC 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10864 AAC 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10865 AAC 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10866 AAC 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ± 9.6 % 10868 AAC 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.89 ± 9.6 % 10870 AAD 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) 5G NR FR1 TDD 5.89 ± 9.6 % 10871 AAD 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.75 ± 9.6 % 10872 AAD 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.52		AAC		5G NR FR1 TDD	8.36	±9.6%
10860 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10861 AAC 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.40 ± 9.6 % 10863 AAC 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10864 AAC 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10865 AAC 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10866 AAC 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ± 9.6 % 10868 AAC 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.89 ± 9.6 % 10870 AAD 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) 5G NR FR1 TDD 5.89 ± 9.6 % 10871 AAD 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.75 ± 9.6 % 10872 AAD 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.52	10859	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6%
10861 AAC 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.40 ± 9.6 % 10863 AAC 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10864 AAC 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10865 AAC 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.41 ± 9.6 % 10866 AAC 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ± 9.6 % 10868 AAC 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.89 ± 9.6 % 10869 AAD 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.75 ± 9.6 % 10870 AAD 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.86 ± 9.6 % 10872 AAD 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 5.75 ± 9.6 % 10873 AAD 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 6.61 <t< td=""><td>10860</td><td>AAC</td><td></td><td>5G NR FR1 TDD</td><td>8.41</td><td></td></t<>	10860	AAC		5G NR FR1 TDD	8.41	
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10869 AAD 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.75 ± 9.6 % 10870 AAD 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.86 ± 9.6 % 10871 AAD 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 5.75 ± 9.6 % 10872 AAD 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.52 ± 9.6 % 10873 AAD 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 6.61 ± 9.6 % 10874 AAD 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 6.65 ± 9.6 % 10875 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 7.78 ± 9.6 % 10876 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 7.78 ± 9.6 % 10877 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 7.95 ± 9.6 % 10879 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.41 ± 9.6 % 10880 AAD 5G NR (CP-OFDM, 1 R	10868	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6 %
10870 AAD 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.86 ± 9.6 % 10871 AAD 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 5.75 ± 9.6 % 10872 AAD 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.52 ± 9.6 % 10873 AAD 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 6.61 ± 9.6 % 10874 AAD 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 6.65 ± 9.6 % 10875 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 7.78 ± 9.6 % 10876 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 8.39 ± 9.6 % 10877 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 7.95 ± 9.6 % 10879 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.41 ± 9.6 % 10880 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.38 ± 9.6 % 10881 AAD 5G NR (CP-OFDM, 1 RB,	10869	AAD			·	,
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10876 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 8.39 ± 9.6 % 10877 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 7.95 ± 9.6 % 10878 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 8.41 ± 9.6 % 10879 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.12 ± 9.6 % 10880 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.38 ± 9.6 % 10881 AAD 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.75 ± 9.6 % 10882 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 5.96 ± 9.6 % 10883 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.57 ± 9.6 % 10884 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.53 ± 9.6 %	10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10877 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 7.95 ± 9.6 % 10878 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 8.41 ± 9.6 % 10879 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.12 ± 9.6 % 10880 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.38 ± 9.6 % 10881 AAD 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.75 ± 9.6 % 10882 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.96 ± 9.6 % 10883 AAD 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.57 ± 9.6 % 10884 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.53 ± 9.6 %	10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD		
10878 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 8.41 ± 9.6 % 10879 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.12 ± 9.6 % 10880 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.38 ± 9.6 % 10881 AAD 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.75 ± 9.6 % 10882 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.96 ± 9.6 % 10883 AAD 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.57 ± 9.6 % 10884 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.53 ± 9.6 %						
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10882 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) 5G NR FR2 TDD 5.96 ± 9.6 % 10883 AAD 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.57 ± 9.6 % 10884 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.53 ± 9.6 %			5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10883 AAD 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.57 ± 9.6 % 10884 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.53 ± 9.6 %	10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	
10884 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 6.53 ± 9.6 %	10883	AAD				+
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10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10897	AAA	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAA	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAA	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAA	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAA	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAA	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6%
10906	AAA	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6%
10907	AAA	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAA	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAA	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,96	± 9.6 %
10910	AAA	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAA	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAA	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAA	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAA	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAA	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAA	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAA	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAA	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAA	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAA	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAA	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10922	AAA	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10923	AAA	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6%
10924	AAA	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6 %
10926	AAA	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAA	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAA	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6 %
10929	AAA	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAA	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAA	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAA	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAA	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAA	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAA	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAA	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAA	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAA	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6 %
10942	AAA	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAA	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAA	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAA	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAA	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAA	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAA	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAA	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAA	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10000	1 1 2 2 7	1 00 mm (or or one) mile or or or or or or or	1001	1 0.10	

10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6 %
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6 %
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6 %
10961	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6 %
10962	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAA	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 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.

APPENDIX G POWER REDUCTION VERIFICATION

Per the May 2017 TCBC Workshop Notes, demonstration of proper functioning of the power reduction mechanisms is required to support the corresponding SAR configurations. The verification process was divided into two parts: (1) evaluation of output power levels for individual or multiple triggering mechanisms and (2) evaluation of the triggering distances for proximity-based sensors.

G.1 Power Verification Procedure

The power verification was performed according to the following procedure:

- 1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. The power measurements were confirmed to be within expected tolerances for all states before and after a power reduction mechanism was triggered.
- Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
- 3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

Note: This appendix only contains data evaluated for the current test report. Please refer to RF Exposure Technical Report S/N 1M1911010179-01-R1.A3L for original compliance evaluation.

FCC ID: A3LSMG986W	Prood to be part of @ element SAR EVALUATION REPORT	SAMSUNG	Reviewed by: Quality Manager
Test Dates:	DUT Type:		APPENDIX G:
08/10/20	Portable Handset		Page 1 of 2

G.2 Main Antenna Verification Summary

Table G-1
Power Measurement Verification for Main Antenna

Mechanism(s)		Device St	cate Index
1st	Mode/Band	Un-triggered (Max)	Mechanism #1 (Reduced)
Held-to-Ear	NR Band n41	0	2

^{*}Note: This device uses different Device State Indices (DSI) to configure different time averaged power levels based on certain exposure scenarios. For this device DSI = 2 represents the case where the device is held to ear. DSI = 0 is configured when the device cannot detect the use condition.

FCC ID: A3LSMG986W	PCTEST* Proud to be part of Sar EVALUATION REPORT	Reviewed by: Quality Manager
Test Dates:	DUT Type:	APPENDIX G:
08/10/20	Portable Handset	Page 2 of 2