



SAR EVALUATION REPORT

Applicant Name:
LG Electronics U.S.A., Inc.
111 Sylvan Avenue, North Building
Englewood Cliffs, NJ 07632
United States

Date of Testing:
07/01/20 - 08/17/20
Test Site/Location:
PCTEST, Columbia, MD, USA
Document Serial No.:
1M2006110090-01-R1.ZNF

FCC ID: **ZNFG900TM**

APPLICANT: **LG ELECTRONICS U.S.A., INC.**

DUT Type: Portable Handset
Application Type: Class II Permissive Change
FCC Rule Part(s): CFR §2.1093
Model: LM-G900TM
Additional Model(s): LMG900TM, G900TM
Permissive Change(s): See FCC Change Document
Date of Original Certification: 08/13/2020

Equipment Class	Band & Mode	Tx Frequency	SAR			
			1g Head (W/kg)	1g Body-Worn (W/kg)	1g Hotspot (W/kg)	10g Phablet (W/kg)
PCE	CDMA/EVDO BC10 (90S)	817.90 - 823.10 MHz	0.15	0.33	0.49	N/A
PCE	CDMA/EVDO BC0 (822H)	824.70 - 848.31 MHz	0.13	0.51	0.57	N/A
PCE	PCS CDMA/EVDO	1851.25 - 1908.75 MHz	< 0.1	0.73	0.94	3.37
PCE	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	0.16	0.66	0.66	N/A
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	< 0.1	0.35	0.77	N/A
PCE	UMTS 850	826.40 - 846.60 MHz	0.12	0.56	0.56	N/A
PCE	UMTS 1750	1712.4 - 1752.6 MHz	0.14	0.91	0.90	2.17
PCE	UMTS 1900	1852.4 - 1907.6 MHz	< 0.1	0.70	0.85	3.06
PCE	LTE Band 71	665.5 - 695.5 MHz	0.12	0.31	0.31	N/A
PCE	LTE Band 12	699.7 - 715.3 MHz	0.14	0.31	0.31	N/A
PCE	LTE Band 17	706.5 - 713.5 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 13	779.5 - 784.5 MHz	0.10	0.35	0.35	N/A
PCE	LTE Band 26 (Cell)	814.7 - 848.3 MHz	0.14	0.51	0.51	N/A
PCE	LTE Band 5 (Cell)	824.7 - 848.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	0.18	1.08	1.05	3.03
PCE	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	0.10	0.58	1.00	2.95
PCE	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	0.17	0.40	1.07	N/A
PCE	LTE Band 41	2496.5 - 2687.5 MHz	< 0.1	0.49	0.69	2.94
PCE	NR Band n71	665.5 - 695.5 MHz	0.15	0.43	0.43	N/A
PCE	NR Band n66 (AWS)	1712.5 - 1777.5 MHz	0.25	1.19	1.22	3.27
PCE	NR Band n25 (PCS)	1852.5 - 1912.5 MHz	0.35	0.83	1.30	3.46
PCE	NR Band n41	2501.01 - 2685 MHz	0.12	0.66	0.66	N/A
DTS	2.4 GHz WLAN	2412 - 2462 MHz	0.36	0.29	0.43	N/A
Nil	U-NII-1	5180 - 5240 MHz	N/A	N/A	0.66	N/A
Nil	U-NII-2A	5260 - 5320 MHz	0.35	0.77	N/A	1.83
Nil	U-NII-2C	5500 - 5720 MHz	0.21	0.48	N/A	1.29
Nil	U-NII-3	5745 - 5825 MHz	0.46	0.93	0.93	N/A
DSS/DTS	Bluetooth	2402 - 2480 MHz	< 0.1	< 0.1	< 0.1	N/A
Simultaneous SAR per KDB 690783 D01v01r03:			1.34	1.59	1.59	3.98

Note: This revised Test Report (S/N: 1M2006110090-01-R1.ZNF) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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 1.9 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.


Randy Ortanez
President



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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
CDMA/EVDO BC10 (§90S)	Voice/Data	817.90 - 823.10 MHz
CDMA/EVDO BC0 (§22H)	Voice/Data	824.70 - 848.31 MHz
PCS CDMA/EVDO	Voice/Data	1851.25 - 1908.75 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 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 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 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n41	Data	2501.01 - 2685 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
WPT	N/A	110 kHz - 148 kHz

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1.2 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for WLAN operations during voice or VoIP held to ear scenarios and in some simultaneous transmission conditions with 2.4 GHz + 5 GHz WLAN and/or EN-DC active. Per FCC Guidance, the held-to-ear exposure conditions were evaluated at reduced power according to the head SAR positions described in IEEE 1528-2013. Detailed descriptions of the power reduction mechanism are included in the operational description.

This device utilizes a power reduction mechanism for some wireless modes and bands for SAR compliance under portable hotspot conditions and under some conditions when the device is being used in close proximity to the user's hand. All hotspot SAR evaluations for this device were performed at the maximum allowed output power when hotspot is enabled. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device when being used in phablet use conditions. Detailed descriptions of the power reduction mechanism are included in the operational description.

1.3 Dual Display Cover

This device supports Dual Display (DD) Cover, which attaches to the device to provide a secondary display on the inside of the cover. The Dual Display Cover is free rotating from 0 to 360 degrees. Per FCC guidance, the use conditions of 0, 180 and 360 degrees were considered for SAR testing. SAR with the Dual Display Cover was measured for the overall worst case per each exposure condition (head, body-worn accessory, hotspot mode, etc.). Head SAR tests were performed with the accessory cover folded to 0 and 360 degrees to represent typical use conditions. Body-worn, Hotspot, and Phablet SAR tests were performed with accessory cover folded to 0, 180 and 360 degrees. When the output power for dual-display cover in a given exposure condition was higher than the power without the dual display cover, additional tests were performed at the higher output power level.

1.4 Nominal and Maximum Output Power Specifications

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

1.4.1 2G/3G/4G/5G Output Power

GSM/GPRS/EDGE 850										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Max or Dual Display	Max allowed power	33.7	33.7	31.2	30.2	29.2	27.2	26.7	25.7	24.7
	Nominal	33.2	33.2	30.7	29.7	28.7	26.7	26.2	25.2	24.2
GSM/GPRS/EDGE 1900										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Max or Dual Display	Max allowed power	30.7	30.7	29.2	27.2	25.7	26.2	25.7	24.7	23.7
	Nominal	30.2	30.2	28.7	26.7	25.2	25.7	25.2	24.2	23.2

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CDMA BC10 (815 MHz)				
Power Level		Modulated Average Output Power (in dBm)		
		1x-RTT	EVDO Rev 0	EVDO Rev A
Max or Dual Display	Max allowed power	24.7	24.7	24.7
	Nominal	24.2	24.2	24.2
CDMA BC0 (835 MHz)				
Power Level		Modulated Average Output Power (in dBm)		
		1x-RTT	EVDO Rev 0	EVDO Rev A
Max or Dual Display	Max allowed power	24.7	24.7	24.7
	Nominal	24.2	24.2	24.2
CDMA BC1 (1900 MHz)				
Power Level		Modulated Average Output Power (in dBm)		
		1x-RTT	EVDO Rev 0	EVDO Rev A
Max or Dual Display	Max allowed power	24.7	24.7	24.7
	Nominal	24.2	24.2	24.2
Hotspot Mode Active	Max allowed power	22.7	22.7	22.7
	Nominal	22.2	22.2	22.2
Proximity Sensor Active	Max allowed power	22.7	22.7	22.7
	Nominal	22.2	22.2	22.2

UMTS Band 5 (850 MHz)				
Power Level		Modulated Average Output Power (in dBm)		
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6
Max or Dual Display	Max allowed power	24.7	24.7	24.7
	Nominal	24.2	24.2	24.2
UMTS Band 4 (1750 MHz)				
Power Level		Modulated Average Output Power (in dBm)		
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6
Max or Dual Display	Max allowed power	24.7	24.7	24.7
	Nominal	24.2	24.2	24.2
Hotspot Mode Active	Max allowed power	22.7	22.7	22.7
	Nominal	22.2	22.2	22.2
Proximity Sensor Active	Max allowed power	22.7	22.7	22.7
	Nominal	22.2	22.2	22.2
UMTS Band 2 (1900 MHz)				
Power Level		Modulated Average Output Power (in dBm)		
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6
Max or Dual Display	Max allowed power	24.7	24.7	24.7
	Nominal	24.2	24.2	24.2
Hotspot Mode Active	Max allowed power	22.7	22.7	22.7
	Nominal	22.2	22.2	22.2
Proximity Sensor Active	Max allowed power	22.7	22.7	22.7
	Nominal	22.2	22.2	22.2

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Mode / Band		Modulated Average Output Power (in dBm)		
		Max or Dual Display	Hotspot Mode Active	Proximity Sensor Active
LTE FDD Band 71	Max allowed power	25.5	25.5	25.5
	Nominal	25.0	25.0	25.0
LTE FDD Band 12	Max allowed power	25.5	25.5	25.5
	Nominal	25.0	25.0	25.0
LTE FDD Band 17	Max allowed power	25.5	25.5	25.5
	Nominal	25.0	25.0	25.0
LTE FDD Band 13	Max allowed power	25.5	25.5	25.5
	Nominal	25.0	25.0	25.0
LTE FDD Band 5	Max allowed power	25.5	25.5	25.5
	Nominal	25.0	25.0	25.0
LTE FDD Band 26	Max allowed power	25.5	25.5	25.5
	Nominal	25.0	25.0	25.0
LTE FDD Band 4	Max allowed power	25.2	23.2	23.2
	Nominal	24.7	22.7	22.7
LTE FDD Band 66	Max allowed power	25.2	23.2	23.2
	Nominal	24.7	22.7	22.7
LTE FDD Band 2	Max allowed power	25.2	23.2	23.2
	Nominal	24.7	22.7	22.7
LTE FDD Band 25	Max allowed power	25.2	23.2	23.2
	Nominal	24.7	22.7	22.7
LTE TDD Band 41 (PC3)	Max allowed power	25.2	24.2	24.2
	Nominal	24.7	23.7	23.7
LTE TDD Band 41 (PC2)	Max allowed power	27.7	26.7	26.7
	Nominal	27.2	26.2	26.2

Mode / Band		Modulated Average Output Power (in dBm)		
		Max or Dual Display	Hotspot Mode Active	Proximity Sensor Active
NR Band n71	Max allowed power	25.7	25.7	25.7
	Nominal	25.2	25.2	25.2
NR Band n66 (SA operation with Ant 2)	Max allowed power	25.2	23.2	23.2
	Nominal	24.7	22.7	22.7
NR Band n66 (NSA & SA operation with Ant 3)	Max allowed power	25.2	23.2	23.2
	Nominal	24.7	22.7	22.7
NR Band n25 (SA operation with Ant 2)	Max allowed power	25.2	23.2	23.2
	Nominal	24.7	22.7	22.7
NR Band n25 (NSA & SA operation with Ant 3)	Max allowed power	25.2	23.2	23.2
	Nominal	24.7	22.7	22.7
NR Band n41 (PC3) (NSA & SA)	Max allowed power	25.7	25.7	25.7
	Nominal	25.2	25.2	25.2
NR Band n41 (PC2) (SA only)	Max allowed power	27.7	27.7	27.7
	Nominal	27.2	27.2	27.2

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The below tables are applicable in the following condition:

- Inter-band ULCA Active for combos CA 12A-66A, CA 2A-12A

Mode / Band		Modulated Average Output Power (in dBm)		
		Max	Hotspot Mode Active	Proximity Sensor Active
LTE FDD Band 12 as PCC	Max allowed power	23.5	23.5	23.5
	Nominal	23.0	23.0	23.0
LTE FDD Band 66 Antenna 3 as PCC	Max allowed power	23.5	23.5	23.5
	Nominal	23.0	23.0	23.0
LTE FDD Band 2 Antenna 3 as PCC	Max allowed power	23.5	23.5	23.5
	Nominal	23.0	23.0	23.0

Mode / Band		Modulated Average Output Power (in dBm)		
		Max	Hotspot Mode Active	Proximity Sensor Active
LTE FDD Band 12 as SCC	Max allowed power	17.7	17.7	17.7
	Nominal	17.2	17.2	17.2
LTE FDD Band 66 Antenna 3 as SCC	Max allowed power	17.7	17.7	17.7
	Nominal	17.2	17.2	17.2
LTE FDD Band 2 Antenna 3 as SCC	Max allowed power	17.7	17.7	17.7
	Nominal	17.2	17.2	17.2

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1.4.2 Maximum Bluetooth and SISO/MIMO WLAN Output Power

Mode	Band	IEEE 802.11 (in dBm)											
		SISO						MIMO					
		Antenna 1/2											
		b		g		n		b (CDD + STBC)		g (CDD+ STBC)		n (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WIFI	2.45 GHz	21.0	20.0	19.5	18.5	18.5	17.5	24.0	23.0	22.5	21.5	21.5	20.5
				ch. 1: 16.5	15.5	ch. 1: 16.0	15.0			ch. 1: 19.5	18.5	ch. 1: 19.0	18.0
				ch. 2: 16.5	15.5	ch. 2: 16.0	15.0			ch. 2: 19.5	18.5	ch. 2: 19.0	18.0
				ch. 10: 17.0	16.0	ch. 10: 16.0	15.0			ch. 10: 20.0	19.0	ch. 10: 19.0	18.0
				ch. 11: 17.0	16.0	ch. 11: 16.0	15.0			ch. 11: 20.0	19.0	ch. 11: 19.0	18.0

Mode	Band	IEEE 802.11 (in dBm)													
		SISO						MIMO							
		Antenna 1/2													
		a		n		ac		a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)			
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.		
5 GHz WiFi (20MHz BW)	5200 MHz	19.5	18.5	19.5	18.5	19.5	18.5	22.5	21.5	22.5	21.5	22.5	21.5		
		ch. 36: 17.5	16.5	ch. 36: 17.3	16.3	ch. 36: 17.3	16.3	ch. 36: 20.5	19.5	ch. 36: 20.3	19.3	ch. 36: 20.3	19.3		
		ch. 44: 17.5	16.5	ch. 44: 17.3	16.3	ch. 44: 17.3	16.3	ch. 44: 20.5	19.5	ch. 44: 20.3	19.3	ch. 44: 20.3	19.3		
	ch. 48: 17.5	16.5	ch. 48: 17.4	16.4	ch. 48: 17.4	16.4	ch. 48: 20.5	19.5	ch. 48: 20.4	19.4	ch. 48: 20.4	19.4			
	5300 MHz	19.5	18.5	19.5	18.5	19.5	18.5	22.5	21.5	22.5	21.5	22.5	21.5		
		ch. 52: 17.5	16.5	ch. 52: 17.4	16.4	ch. 52: 17.4	16.4	ch. 52: 20.5	19.5	ch. 52: 20.4	19.4	ch. 52: 20.4	19.4		
		ch. 60: 17.6	16.6	ch. 60: 17.4	16.4	ch. 60: 17.4	16.4	ch. 60: 20.6	19.6	ch. 60: 20.4	19.4	ch. 60: 20.4	19.4		
	ch. 64: 17.5	16.5	ch. 64: 17.4	16.4	ch. 64: 17.4	16.4	ch. 64: 20.5	19.5	ch. 64: 20.4	19.4	ch. 64: 20.4	19.4			
	5500 MHz	17.8	16.8	17.8	16.8	17.8	16.8	20.8	19.8	20.8	19.8	20.8	19.8		
		ch. 100: 17.5	16.5			ch. 100: 20.5	19.5								
		ch. 104: 17.4	16.4	ch. 104: 17.5	16.5	ch. 104: 17.5	16.5	ch. 104: 20.4	19.4	ch. 104: 20.5	19.5	ch. 104: 20.5	19.5		
		ch. 108: 17.4	16.4	ch. 108: 17.2	16.2	ch. 108: 17.2	16.2	ch. 108: 20.4	19.4	ch. 108: 20.2	19.2	ch. 108: 20.2	19.2		
		ch. 112: 17.4	16.4	ch. 112: 17.2	16.2	ch. 112: 17.2	16.2	ch. 112: 20.4	19.4	ch. 112: 20.2	19.2	ch. 112: 20.2	19.2		
		ch. 116: 17.4	16.4	ch. 116: 17.2	16.2	ch. 116: 17.2	16.2	ch. 116: 20.4	19.4	ch. 116: 20.2	19.2	ch. 116: 20.2	19.2		
	5800 MHz	19.9	18.9	19.9	18.9	19.9	18.9	22.9	21.9	22.9	21.9	22.9	21.9		
		ch. 149: 17.7	16.7	ch. 149: 17.4	16.4	ch. 149: 17.4	16.4	ch. 149: 20.7	19.7	ch. 149: 20.4	19.4	ch. 149: 20.4	19.4		
		ch. 153: 17.6	16.6	ch. 153: 17.4	16.4	ch. 153: 17.4	16.4	ch. 153: 20.6	19.6	ch. 153: 20.4	19.4	ch. 153: 20.4	19.4		
		ch. 161: 17.5	16.5	ch. 161: 17.3	16.3	ch. 161: 17.3	16.3	ch. 161: 20.5	19.5	ch. 161: 20.3	19.3	ch. 161: 20.3	19.3		
		ch. 165: 19.8	18.8	ch. 165: 19.6	18.6	ch. 165: 19.6	18.6	ch. 165: 22.8	21.8	ch. 165: 22.6	21.6	ch. 165: 22.6	21.6		
	5 GHz WiFi (40MHz BW)	5200 MHz			15.8	14.8	15.8	14.8			18.8	17.8	18.8	17.8	
		5300 MHz			ch. 38: 15.5	14.5	ch. 38: 15.5	14.5			ch. 38: 18.5	17.5	ch. 38: 18.5	17.5	
					15.5	14.5	15.5	14.5			18.5	17.5	18.5	17.5	
		5500 MHz			ch. 62: 15.0	14.0	ch. 62: 15.0	14.0			ch. 62: 18.0	17.0	ch. 62: 18.0	17.0	
5 GHz WiFi (80MHz BW)	5200 MHz			15.8	14.8	15.8	14.8			18.8	17.8	18.8	17.8		
	5300 MHz			ch. 102: 14.0	13.0	ch. 102: 14.0	13.0			ch. 102: 17.0	16.0	ch. 102: 17.0	16.0		
	5500 MHz			15.8	14.8	15.8	14.8			18.8	17.8	18.8	17.8		
	5800 MHz														
	5200 MHz					13.8	12.8					16.8	15.8		
	5300 MHz					14.0	13.0					17.0	16.0		
	5500 MHz					14.0	13.0					17.0	16.0		
	5800 MHz					ch. 106: 13.0	12.0					ch. 106: 16.0	15.0		
						ch. 122: 13.8	12.8					ch. 122: 16.8	15.8		
						13.6	12.6					16.6	15.6		

Mode / Band		Modulated Average - Single Tx Chain (dBm)	
Bluetooth	Maximum	11.0	
	Nominal	10.0	
Bluetooth LE	Maximum	4.0	
	Nominal	3.0	

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1.4.3 Reduced SISO/MIMO WLAN Output Power

The below tables are applicable in the following conditions:

- Head Conditions
- Simultaneous conditions with 2.4 GHz WLAN and 5 GHz WLAN
- Conditions with EN-DC Active

Mode	Band	IEEE 802.11 (in dBm)											
		SISO						MIMO					
		Antenna 1/2											
		b		g		n		b (CDD + STBC)		g (CDD + STBC)		n (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WIFI	2.45 GHz	16.0	15.0	15.0	14.0	15.0	14.0	19.0	18.0	18.0	17.0	18.0	17.0

Mode	Band	IEEE 802.11 (in dBm)											
		SISO						MIMO					
		Antenna 1/2											
		a		n		ac		a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	5200 MHz	17.0	16.0	17.0	16.0	17.0	16.0	20.0	19.0	20.0	19.0	20.0	19.0
		ch. 36: 15.0	14.0	ch. 36: 15.0	14.0	ch. 36: 15.0	14.0	ch. 36: 18.0	17.0	ch. 36: 18.0	17.0	ch. 36: 18.0	17.0
		ch. 44: 15.0	14.0	ch. 44: 15.0	14.0	ch. 44: 15.0	14.0	ch. 44: 18.0	17.0	ch. 44: 18.0	17.0	ch. 44: 18.0	17.0
	5300 MHz	17.0	16.0	17.0	16.0	17.0	16.0	20.0	19.0	20.0	19.0	20.0	19.0
		ch. 52: 15.0	14.0	ch. 52: 15.0	14.0	ch. 52: 15.0	14.0	ch. 52: 18.0	17.0	ch. 52: 18.0	17.0	ch. 52: 18.0	17.0
		ch. 60: 15.0	14.0	ch. 60: 15.0	14.0	ch. 60: 15.0	14.0	ch. 60: 18.0	17.0	ch. 60: 18.0	17.0	ch. 60: 18.0	17.0
	5500 MHz	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0
		17.0	16.0	17.0	16.0	17.0	16.0	20.0	19.0	20.0	19.0	20.0	19.0
		ch. 149: 15.0	14.0	ch. 149: 15.0	14.0	ch. 149: 15.0	14.0	ch. 149: 18.0	17.0	ch. 149: 18.0	17.0	ch. 149: 18.0	17.0
	5800 MHz	17.0	16.0	17.0	16.0	17.0	16.0	20.0	19.0	20.0	19.0	20.0	19.0
		ch. 153: 15.0	14.0	ch. 153: 15.0	14.0	ch. 153: 15.0	14.0	ch. 153: 18.0	17.0	ch. 153: 18.0	17.0	ch. 153: 18.0	17.0
		ch. 161: 15.0	14.0	ch. 161: 15.0	14.0	ch. 161: 15.0	14.0	ch. 161: 18.0	17.0	ch. 161: 18.0	17.0	ch. 161: 18.0	17.0
5 GHz WIFI (40MHz BW)	5200 MHz			15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0
	5300 MHz			15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0
	5500 MHz			15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0
	5800 MHz			ch. 102: 14.0	13.0	ch. 102: 14.0	13.0			ch. 102: 17.0	16.0	ch. 102: 17.0	16.0
5 GHz WIFI (80MHz BW)	5200 MHz					13.8	12.8					16.8	15.8
	5300 MHz					14.0	13.0					17.0	16.0
	5500 MHz					14.0	13.0					17.0	16.0
	5800 MHz					ch. 106: 13.0	12.0					ch. 106: 16.0	15.0
						ch. 122: 13.8	12.8					ch. 122: 16.8	15.8

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1.5 DUT Antenna Locations

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.”

Table 1-1
Device Edges/Sides for SAR Testing

Mode	Back	Front	Top	Bottom	Right	Left
EVDO BC10 (§90S)	Yes	Yes	No	Yes	Yes	No
EVDO BC0 (§22H)	Yes	Yes	No	Yes	Yes	No
PCS EVDO	Yes	Yes	No	Yes	No	Yes
GPRS 850	Yes	Yes	No	Yes	Yes	No
GPRS 1900	Yes	Yes	No	Yes	No	Yes
UMTS 850	Yes	Yes	No	Yes	Yes	No
UMTS 1750	Yes	Yes	No	Yes	No	Yes
UMTS 1900	Yes	Yes	No	Yes	No	Yes
LTE Band 71	Yes	Yes	No	Yes	Yes	No
LTE Band 12	Yes	Yes	No	Yes	Yes	No
LTE Band 13	Yes	Yes	No	Yes	Yes	No
LTE Band 26 (Cell)	Yes	Yes	No	Yes	Yes	No
LTE Band 66 (AWS) Ant 2	Yes	Yes	No	Yes	No	Yes
LTE Band 66 (AWS) Ant 3	Yes	Yes	No	Yes	Yes	No
LTE Band 25 (PCS)	Yes	Yes	No	Yes	No	Yes
LTE Band 2 (PCS) Ant 3	Yes	Yes	No	Yes	Yes	No
LTE Band 41	Yes	Yes	No	Yes	No	Yes
NR Band n71	Yes	Yes	No	Yes	Yes	No
NR Band n66 SA	Yes	Yes	No	Yes	No	Yes
NR Band n66 NSA	Yes	Yes	No	Yes	Yes	No
NR Band n25 SA	Yes	Yes	No	Yes	No	Yes
NR Band n25 NSA	Yes	Yes	No	Yes	Yes	No
NR Band n41	Yes	Yes	No	No	Yes	No
2.4 GHz WLAN Ant 1	Yes	Yes	Yes	No	No	Yes
2.4 GHz WLAN Ant 2	Yes	Yes	Yes	No	No	Yes
5 GHz WLAN Ant 1	Yes	Yes	Yes	No	No	Yes
5 GHz WLAN Ant 2	Yes	Yes	Yes	No	No	Yes
Bluetooth	Yes	Yes	Yes	No	No	Yes

Note: Particular DUT edges were not required to be evaluated for wireless router SAR or phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III and FCC KDB Publication 648474 D04v01r03. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, U-NII-2A, U-NII-2C operations are disabled.

1.6 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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1.7 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 1-2
Simultaneous Transmission Scenarios**

No.	Capable Transmit Configuration	Head	Body-Worn Accessory	Wireless Router	Phablet	Notes
1	1x CDMA voice + 2.4 GHz Wi-Fi	Yes	Yes	N/A	Yes	
2	1x CDMA voice + 5 GHz Wi-Fi	Yes	Yes	N/A	Yes	
3	1x CDMA voice + 2.4 GHz Bluetooth	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
4	1x CDMA voice + 2.4 GHz Wi-Fi MIMO	Yes	Yes	N/A	Yes	
5	1x CDMA voice + 5 GHz Wi-Fi MIMO	Yes	Yes	N/A	Yes	
6	1x CDMA voice + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2	Yes	Yes	N/A	Yes	
7	1x CDMA voice + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
8	1x CDMA voice + 2.4 GHz Wi-Fi Ant 2 + 2.4 GHz Bluetooth	Yes	Yes	N/A	Yes	
9	1x CDMA voice + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
10	GSM voice + 2.4 GHz Wi-Fi	Yes	Yes	N/A	Yes	
11	GSM voice + 5 GHz Wi-Fi	Yes	Yes	N/A	Yes	
12	GSM voice + 2.4 GHz Bluetooth	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
13	GSM voice + 2.4 GHz Wi-Fi MIMO	Yes	Yes	N/A	Yes	
14	GSM voice + 5 GHz Wi-Fi MIMO	Yes	Yes	N/A	Yes	
15	GSM voice + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2	Yes	Yes	N/A	Yes	
16	GSM voice + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
17	GSM voice + 2.4 GHz Wi-Fi Ant 2 + 2.4 GHz Bluetooth	Yes	Yes	N/A	Yes	
18	GSM voice + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
19	UMTS + 2.4 GHz Wi-Fi	Yes	Yes	Yes	Yes	
20	UMTS + 5 GHz Wi-Fi	Yes	Yes	Yes	Yes	
21	UMTS + 2.4 GHz Bluetooth	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
22	UMTS + 2.4 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
23	UMTS + 5 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
24	UMTS + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2	Yes	Yes	Yes	Yes	
25	UMTS + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
26	UMTS + 2.4 GHz Wi-Fi Ant 2 + 2.4 GHz Bluetooth	Yes	Yes	Yes	Yes	
27	UMTS + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
28	LTE + 2.4 GHz Wi-Fi	Yes	Yes	Yes	Yes	
29	LTE + 5 GHz Wi-Fi	Yes	Yes	Yes	Yes	
30	LTE + 2.4 GHz Bluetooth	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
31	LTE + 2.4 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
32	LTE + 5 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
33	LTE + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2	Yes	Yes	Yes	Yes	
34	LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
35	LTE + 2.4 GHz Wi-Fi Ant 2 + 2.4 GHz Bluetooth	Yes	Yes	Yes	Yes	
36	LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
37	CDMA/EVDO data + 2.4 GHz Wi-Fi	Yes^	Yes^	Yes	Yes	* Pre-installed VOIP applications are considered
38	CDMA/EVDO data + 5 GHz Wi-Fi	Yes^	Yes^	Yes	Yes	* Pre-installed VOIP applications are considered
39	CDMA/EVDO data + 2.4 GHz Bluetooth	Yes^	Yes^	Yes^	Yes	* Pre-installed VOIP applications are considered ^ Bluetooth Tethering is considered
40	CDMA/EVDO data + 2.4 GHz Wi-Fi MIMO	Yes^	Yes^	Yes	Yes	* Pre-installed VOIP applications are considered
41	CDMA/EVDO data + 5 GHz Wi-Fi MIMO	Yes^	Yes^	Yes	Yes	* Pre-installed VOIP applications are considered
42	CDMA/EVDO data + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2	Yes^	Yes^	Yes	Yes	* Pre-installed VOIP applications are considered
43	CDMA/EVDO data + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes^	Yes^	Yes^	Yes	* Pre-installed VOIP applications are considered ^ Bluetooth Tethering is considered
44	CDMA/EVDO data + 2.4 GHz Wi-Fi Ant 2 + 2.4 GHz Bluetooth	Yes^	Yes^	Yes	Yes	* Pre-installed VOIP applications are considered
45	CDMA/EVDO data + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes^	Yes^	Yes^	Yes	* Pre-installed VOIP applications are considered ^ Bluetooth Tethering is considered
46	GPRS/EDGE + 2.4 GHz Wi-Fi	Yes^	Yes^	Yes	Yes	* Pre-installed VOIP applications are considered
47	GPRS/EDGE + 5 GHz Wi-Fi	Yes^	Yes^	Yes	Yes	* Pre-installed VOIP applications are considered
48	GPRS/EDGE + 2.4 GHz Bluetooth	Yes^	Yes^	Yes^	Yes	* Pre-installed VOIP applications are considered ^ Bluetooth Tethering is considered
49	GPRS/EDGE + 2.4 GHz Wi-Fi MIMO	Yes^	Yes^	Yes	Yes	* Pre-installed VOIP applications are considered
50	GPRS/EDGE + 5 GHz Wi-Fi MIMO	Yes^	Yes^	Yes	Yes	* Pre-installed VOIP applications are considered
51	GPRS/EDGE + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2	Yes^	Yes^	Yes	Yes	* Pre-installed VOIP applications are considered
52	GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes^	Yes^	Yes^	Yes	* Pre-installed VOIP applications are considered ^ Bluetooth Tethering is considered
53	GPRS/EDGE + 2.4 GHz Wi-Fi Ant 2 + 2.4 GHz Bluetooth	Yes^	Yes^	Yes	Yes	* Pre-installed VOIP applications are considered
54	GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes^	Yes^	Yes^	Yes	* Pre-installed VOIP applications are considered ^ Bluetooth Tethering is considered
55	5G + LTE	Yes	Yes	Yes	Yes	
56	5G + LTE + 2.4 GHz Wi-Fi	Yes	Yes	Yes	Yes	
57	5G + LTE + 5 GHz Wi-Fi	Yes	Yes	Yes	Yes	
58	5G + LTE + 2.4 GHz Bluetooth	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
59	5G + LTE + 2.4 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
60	5G + LTE + 5 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
61	5G + LTE + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2	Yes	Yes	Yes	Yes	
62	5G + LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
63	5G + LTE + 2.4 GHz Wi-Fi Ant 2 + 2.4 GHz Bluetooth	Yes	Yes	Yes	Yes	
64	5G + LTE + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
65	5G + 2.4 GHz Wi-Fi	Yes	Yes	Yes	Yes	
66	5G + 5 GHz Wi-Fi	Yes	Yes	Yes	Yes	
67	5G + 2.4 GHz Bluetooth	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
68	5G + 2.4 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
69	5G + 5 GHz Wi-Fi MIMO	Yes	Yes	Yes	Yes	
70	5G + 2.4 GHz Wi-Fi Ant 1 + 5 GHz Wi-Fi Ant 2	Yes	Yes	Yes	Yes	
71	5G + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
72	5G + 2.4 GHz Wi-Fi Ant 2 + 2.4 GHz Bluetooth	Yes	Yes	Yes	Yes	
73	5G + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered

- 2.4 GHz WLAN antenna 1 and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.

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2. 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.
3. Per the manufacturer, WIFI Direct is 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.
4. 5 GHz Wireless Router is only supported for the U-NII-1 and U-NII-3 by S/W, therefore U-NII-2A, and U-NII-2C were not evaluated for wireless router conditions.
5. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac. 802.11a/g/n/ac supports CDD and STBC and 802.11n/ac additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
6. This device supports VOLTE.
7. This device supports VOWIFI.
8. This device supports Bluetooth Tethering.
9. LTE + 5G NR FR1 Scenarios are limited to LTE Anchor Bands, B12/B2/B66
10. LTE operations in the table above include intra-band and inter-band ULCA operations with 2 carriers transmitting in the uplink.

1.8 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-2A and U-NII-2C WIFI, only 2.4 GHz, U-NII-1, and U-NII-3 WIFI Hotspot SAR tests and combinations are considered for SAR with respect to Wireless Router configurations according to FCC KDB 941225 D06v02r01.

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is greater than 160mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-2A & U-NII-2C WLAN, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, Bluetooth, U-NII-1, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

This device supports IEEE 802.11ac with the following features:

- a) Up to 80 MHz Bandwidth only for 5GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) No aggregate channel configurations
- d) 2 Tx antenna output
- e) Up to 1024 QAM is supported
- f) TDWR and Band gap channels are supported
- g) MU-MIMO UL Operations are not supported

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(B) Licensed Transmitter(s)

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

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

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

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r02, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive. The downlink carrier aggregation exclusion analysis can be found in Appendix F of the original certification report number 1M2005180086-01-R2.ZNF.

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is greater than 160mm and less than 200mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information).

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

This device supports intra-band LTE Carrier Aggregation (CA) for LTE Band 41 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

This device supports uplink inter-band LTE Carrier Aggregation (CA) for LTE Bands 12, 2, 66 with two component carriers in the uplink. For 12A-66A and 2A-12A uplink conditions, LTE Band 2 and LTE Band 66 operate using Antenna 3. SAR tests were performed separately for antenna 3 for LTE Band 2 and LTE B66.

This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

NR implementation of n5, n66, n2 in EN-DC mode operates with LTE B2/B12/B66 acting as the anchor bands. Per FCC Guidance, SAR tests were performed separately for NR Bands and LTE Anchor Bands. Please see Section 11 for more details.

This device supports 64QAM on the uplink and 256QAM on the downlink for LTE Operations. Conducted powers for 64QAM uplink configurations were measured per Section 5.1 of FCC KDB Publication 941225 D05v02r05. SAR was not required for 64QAM since the highest maximum output power for 64QAM is $\leq \frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg, per Section 5.2.4 of FCC KDB Publication 941225 D05v02r05.

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1.9 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 D04v01r03 (Phablet Procedures)
- FCC KDB Publication 616217 D04v01r02 (Proximity Sensor)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)

1.10 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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LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 71 (665.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)				
Channel Bandwidths	LTE Band 41 (2498.5 - 2687.5 MHz)				
	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)	680.5 (133297)	695.5 (133447)		
LTE Band 71: 10 MHz	668 (133172)	680.5 (133297)	693 (133422)		
LTE Band 71: 15 MHz	670.5 (133197)	680.5 (133297)	690.5 (133397)		
LTE Band 71: 20 MHz	673 (133222)	680.5 (133297)	688 (133372)		
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)		
LTE Band 12: 3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)		
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)		
LTE Band 12: 10 MHz	704 (23060)	707.5 (23095)	711 (23130)		
LTE Band 17: 5 MHz	706.5 (23755)	710 (23790)	713.5 (23825)		
LTE Band 17: 10 MHz	709 (23780)	710 (23790)	711 (23800)		
LTE Band 13: 5 MHz	779.5 (23205)	782 (23230)	784.5 (23255)		
LTE Band 13: 10 MHz	N/A	782 (23230)	N/A		
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)	831.5 (26865)	848.3 (27033)		
LTE Band 26 (Cell): 3 MHz	815.5 (26705)	831.5 (26865)	847.5 (27025)		
LTE Band 26 (Cell): 5 MHz	816.5 (26715)	831.5 (26865)	846.5 (27015)		
LTE Band 26 (Cell): 10 MHz	819 (26740)	831.5 (26865)	844 (26990)		
LTE Band 26 (Cell): 15 MHz	821.5 (26765)	831.5 (26865)	841.5 (26965)		
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)	836.5 (20525)	848.3 (20643)		
LTE Band 5 (Cell): 3 MHz	825.5 (20415)	836.5 (20525)	847.5 (20635)		
LTE Band 5 (Cell): 5 MHz	826.5 (20425)	836.5 (20525)	846.5 (20625)		
LTE Band 5 (Cell): 10 MHz	829 (20450)	836.5 (20525)	844 (20600)		
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)	1745 (132322)	1779.3 (132655)		
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)	1745 (132322)	1778.5 (132657)		
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)	1745 (132322)	1777.5 (132647)		
LTE Band 66 (AWS): 10 MHz	1715 (132022)	1745 (132322)	1775 (132622)		
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)	1745 (132322)	1772.5 (132597)		
LTE Band 66 (AWS): 20 MHz	1720 (132072)	1745 (132322)	1770 (132572)		
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)	1732.5 (20175)	1754.3 (20393)		
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)		
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)		
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)		
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)		
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)		
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)	1882.5 (26365)	1914.3 (26683)		
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)	1882.5 (26365)	1913.5 (26675)		
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)	1882.5 (26365)	1912.5 (26665)		
LTE Band 25 (PCS): 10 MHz	1855 (26090)	1882.5 (26365)	1910 (26640)		
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)	1882.5 (26365)	1907.5 (26615)		
LTE Band 25 (PCS): 20 MHz	1860 (26140)	1882.5 (26365)	1905 (26590)		
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3 (19193)		
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	1880 (18900)	1908.5 (19185)		
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	1880 (18900)	1907.5 (19175)		
LTE Band 2 (PCS): 10 MHz	1855 (18650)	1880 (18900)	1905 (19150)		
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	1880 (18900)	1902.5 (19125)		
LTE Band 2 (PCS): 20 MHz	1860 (18700)	1880 (18900)	1900 (19100)		
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
UE Category	DL UE Cat 18, UL UE Cat 13				
Modulations Supported in UL	QPSK, 16QAM, 64QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 15. It supports carrier aggregation, downlink MIMO features as shown in Section 9 and Appendix F. All other uplink communications are identical to the Release 8 specifications. Uplink communications are done on the PCC unless otherwise specified. The following LTE Release 15 Features are not supported: WiFi Offloading, Relay, HetNet, Enhanced eICIC, MDH, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	NR Band n71 (665.5 - 695.5 MHz)				
	NR Band n66 (AWS) (1712.5 - 1777.5 MHz)				
	NR Band n25 (PCS) (1852.5 - 1912.5 MHz)				
	NR Band n41 (2501.01 - 2685.00)				
Channel Bandwidths	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 40 MHz				
	NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz				
	NR Band n41: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 80 MHz, 90 MHz, 100 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
NR Band n71: 5 MHz	665.5 (133100)		680.5 (136100)	695.5 (139100)	
NR Band n71: 10 MHz	668 (133600)		680.5 (136100)	693 (138600)	
NR Band n71: 15 MHz	670.5 (134100)		680.5 (136100)	690.5 (138100)	
NR Band n71: 20 MHz	673 (134600)		680.5 (136100)	688 (137600)	
NR Band n66 (AWS): 5 MHz	1712.5 (342500)		1745 (349000)	1777.5 (355500)	
NR Band n66 (AWS): 10 MHz	1715 (343000)		1745 (349000)	1775 (355000)	
NR Band n66 (AWS): 15 MHz	1717.5 (343500)		1745 (349000)	1772.5 (354500)	
NR Band n66 (AWS): 20 MHz	1720 (344000)		1745 (349000)	1770 (354000)	
NR Band n66 (AWS): 40 MHz	1730 (346000)		1745 (349000)	1760 (352000)	
NR Band n25 (PCS): 5 MHz	1852.5 (370500)		1882.5 (376500)	1912.5 (382500)	
NR Band n25 (PCS): 10 MHz	1855 (371000)		1882.5 (376500)	1910 (382000)	
NR Band n25 (PCS): 15 MHz	1857.5 (371500)		1882.5 (376500)	1907.5 (381500)	
NR Band n25 (PCS): 20 MHz	1860 (372000)		1882.5 (376500)	1905 (381000)	
NR Band n25 (PCS): 25 MHz	1862.5 (372500)		1882.5 (376500)	1902.5 (380500)	
NR Band n25 (PCS): 30 MHz	1865 (373000)		1882.5 (376500)	1900 (380000)	
NR Band n25 (PCS): 40 MHz	1870 (374000)		1882.5 (376500)	1895 (379000)	
NR Band n41: 10 MHz	2501.01 (500202)	2547 (509400)	2592.99 (518598)	2639.01 (527802)	2685 (537000)
NR Band n41: 15 MHz	2503.5 (500700)	2548.26 (509652)	2592.99 (518598)	2637.75 (527550)	2682.51 (536502)
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)	2636.49 (527298)	2679.99 (535998)
NR Band n41: 30 MHz	2511 (502200)	2552.01 (510402)	2592.99 (518598)	2634 (526800)	2674.98 (534996)
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 (505200)		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 (508200)		N/A		2644.98 (528996)
NR Band n41: 100 MHz	2546.01 (509202)		2592.99 (518598)		2640 (528000)
SCS for NR Band n71/n66/n25	15 kHz				
SCS for NR Band n41	30 kHz				
Modulations Supported in UL	DFT-s-OFDM: QPSK, 16QAM, 64QAM CP-OFDM: QPSK, 16QAM, 64QAM				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
EN-DC Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Anchor Bands for NR Band n71	LTE Band 2/66				
LTE Anchor Bands for NR Band n66 (AWS)	LTE Band 2/12				
LTE Anchor Bands for NR Band n25 (PCS)	LTE Band 12/66				
LTE Anchor Bands for NR Band n41	LTE Band 2/66				

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3 INTRODUCTION

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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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and 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 point was measured and used as a reference value.
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.

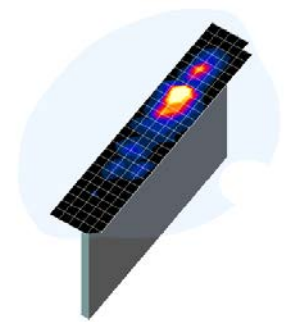


Figure 4-1
Sample SAR Area Scan

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

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid $\Delta z_{\text{zoom}}(n)$	Graded Grid		
				$\Delta z_{\text{zoom}}(1)^*$	$\Delta z_{\text{zoom}}(n>1)^*$	
≤2 GHz	≤15	≤8	≤5	≤4	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥30
2-3 GHz	≤12	≤5	≤5	≤4	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥30
3-4 GHz	≤12	≤5	≤4	≤3	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥28
4-5 GHz	≤10	≤4	≤3	≤2.5	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥25
5-6 GHz	≤10	≤4	≤2	≤2	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥22

*Also compliant to IEEE 1528-2013 Table 6

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5 DEFINITION OF REFERENCE POINTS

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].

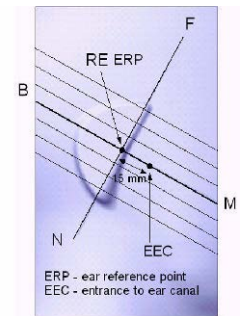


Figure 5-1
Close-Up Side view
of ERP

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 then 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

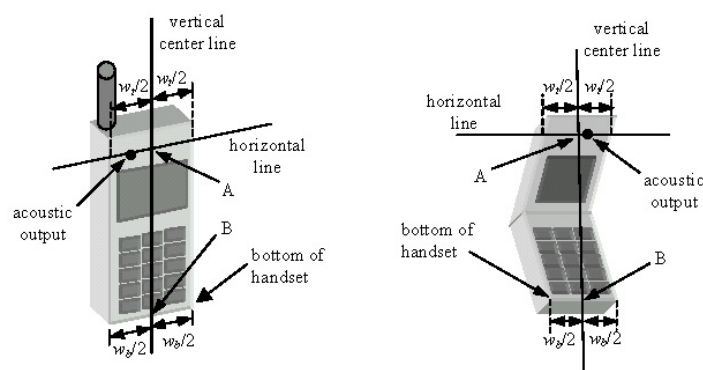


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

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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 $\epsilon = 3$ and loss tangent $\delta = 0.02$.

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.

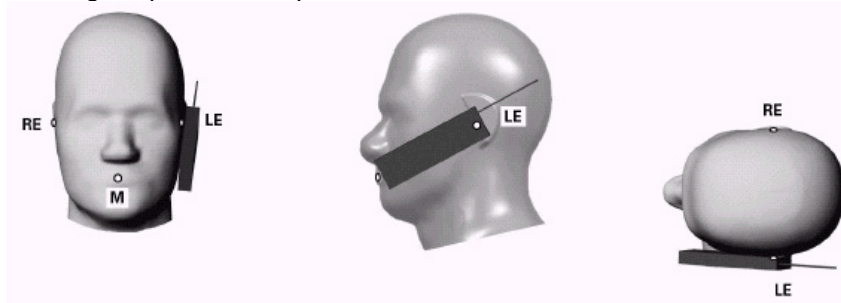


Figure 6-1 Front, Side and Top View of Cheek Position

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 with 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

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 15 degrees.
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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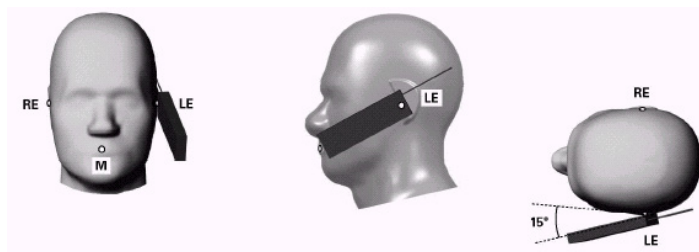


Figure 6-2 Front, Side and Top View of Ear/15° Tilt Position

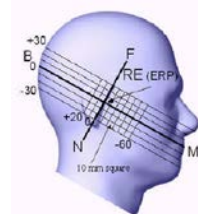


Figure 6-3 Side view w/ relevant markings

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.

6.5 Body-Worn Accessory Configurations

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6-4). Per FCC KDB Publication 648474 D04v01r03, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

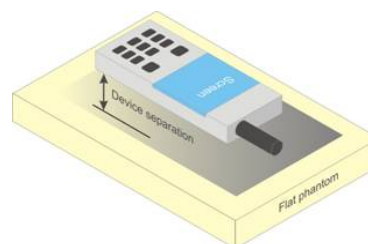


Figure 6-4 Sample Body-Worn Diagram

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that

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dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

6.6 Extremity Exposure Configurations

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

Per KDB Publication 447498 D01v06, Cell phones (handsets) are not normally designed to be used on extremities or operated in extremity only exposure conditions. The maximum output power levels of handsets generally do not require extremity SAR testing to show compliance. Therefore, extremity SAR was not evaluated for this device.

6.7 Wireless Router Configurations

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06v02r01 where SAR test considerations for handsets (L x W $\geq$ 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

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

6.8 Phablet Configurations

For smart phones with a display diagonal dimension > 150 mm or an overall diagonal dimension > 160 mm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the phablets procedures outlined in KDB Publication 648474 D04v01r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance.

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6.9 Proximity Sensor Considerations

This device uses a power reduction mechanism to reduce output powers in certain use conditions when the device is used close the user's body.

When the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum allowed output power. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, additional evaluation is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a non-reduced output power level. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional test positions. Sensor triggering distance summary data is included in Appendix G.

The sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the sensor entirely covers the antennas.

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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 <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (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.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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8 FCC MEASUREMENT PROCEDURES

Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

8.1 Measured and Reported SAR

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

8.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

8.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

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

8.4 SAR Measurement Conditions for CDMA2000

The following procedures were performed according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

8.4.1 Output Power Verification

See 3GPP2 C.S0011/TIA-98-E as recommended by FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.” Maximum output power is verified on the High, Middle and Low channels according to procedures in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. SO55 tests were measured with power control bits in the “All Up” condition.

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1. If the mobile station (MS) supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9600 bps data rate only.
2. Under RC1, C.S0011 Table 4.4.5.2-1, Table 8-1 parameters were applied.
3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH₀ and demodulation of RC 3,4, or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9600 bps Fundamental Channel and 9600 bps SCH₀ data rate.
4. Under RC3, C.S0011 Table 4.4.5.2-2, Table 8-2 was applied.

Table 8-1
Parameters for Max. Power for RC1

Parameter	Units	Value
I_{or}	dBm/1.23 MHz	-104
$\frac{Pilot E_c}{I_{or}}$	dB	-7
$\frac{Traffic E_c}{I_{or}}$	dB	-7.4

Table 8-2
Parameters for Max. Power for RC3

Parameter	Units	Value
I_{or}	dBm/1.23 MHz	-86
$\frac{Pilot E_c}{I_{or}}$	dB	-7
$\frac{Traffic E_c}{I_{or}}$	dB	-7.4

5. FCHs were configured at full rate for maximum SAR with “All Up” power control bits.

8.4.2 Head SAR Measurements

SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode; otherwise, SAR is required for the channel with maximum measured output in RC1 using the head exposure configuration that results in the highest reported SAR in RC3.

Head SAR is additionally evaluated using EVDO Rev. A to support compliance for VoIP operations. See Section 8.4.5 for EVDO Rev. A configuration parameters.

8.4.3 Body-worn SAR Measurements

SAR for body-worn exposure configurations is measured in RC3 with the DUT configured to transmit at full rate on FCH with all other code channels disabled using TDSO / SO32. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH_n), with FCH only as the primary mode. Otherwise, SAR is required for multiple code channel configuration (FCH + SCH_n), with FCH at full rate and SCH₀ enabled at 9600 bps, using the highest reported SAR configuration for FCH only. When multiple code channels are enabled, the transmitter output can shift by more than 0.5 dB and may lead to higher SAR drifts and SCH dropouts.

The 3G SAR test reduction procedure is applied to body-worn accessory SAR in RC1 with RC3 as the primary mode. Otherwise, SAR is required for RC1, with SO55 and full rate, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

8.4.4 Body-worn SAR Measurements for EVDO Devices

For handsets with EVDO capabilities, the 3G SAR test reduction procedure is applied to EVDO Rev. 0 with 1x RTT RC3 as the primary mode to determine body-worn accessory test requirements. Otherwise, body-worn accessory SAR is required for Rev. 0, at 153.6 kbps, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

The 3G SAR test reduction procedure is applied to Rev. A, with Rev. 0 as the primary mode to determine body-worn accessory SAR test requirements. When SAR is not required for Rev. 0, the 3G SAR test reduction is applied with 1x RTT RC3 as the primary mode.

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When SAR is required for EVDO Rev. A, SAR is measured with a Reverse Data Channel payload size of 4096 bits and a Termination Target of 16 slots defined for Subtype 2 Physical Layer configurations, using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0 or 1x RTT RC3, as appropriate.

8.4.5 Body SAR Measurements for EVDO Hotspot

Hotspot Body SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0. The 3G SAR test reduction procedure is applied to Rev. A, Subtype 2 Physical layer configuration, with Rev. 0 as the primary mode; otherwise, SAR is measured for Rev. A using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0. The AT is tested with a Reverse Data Channel rate of 153.6 kbps in Subtype 0/1 Physical Layer configurations; and a Reverse Data Channel payload size of 4096 bits and Termination Target of 16 slots in Subtype 2 Physical Layer configurations.

For EVDO data devices that also support 1x RTT voice and/or data operations, the 3G SAR test reduction procedure is applied to 1x RTT RC3 and RC1 with EVDO Rev. 0 and Rev. A as the respective primary modes. Otherwise, the 'Body-Worn Accessory SAR' procedures in the '3GPP2 CDMA 2000 1x Handsets' section are applied.

8.5 SAR Measurement Conditions for UMTS

8.5.1 Output Power Verification

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

8.5.2 Head SAR Measurements

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1s". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

8.5.3 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all "1s". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCH_n configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCH_n, for the highest reported SAR configuration in 12.2 kbps RMC.

8.5.4 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

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8.5.5 SAR Measurements with Rel 6 HSPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

8.6 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

8.6.1 Spectrum Plots for RB Configurations

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

8.6.2 MPR

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

8.6.3 A-MPR

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

8.6.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB

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and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.

- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.

8.6.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

8.6.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

8.7 SAR Testing with 802.11 Transmitters

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

8.7.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

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

8.7.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not

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required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.7.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

8.7.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.7.5 2.4 GHz SAR Test Requirements

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

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11 g/n OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.7.6 OFDM Transmission Mode and SAR Test Channel Selection

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

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8.7.7 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 8.7.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.7.8 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.7.9 MIMO SAR Considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D01v06 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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9 RF CONDUCTED POWERS

9.1 GSM Conducted Powers

Table 9-1
Maximum Conducted Power

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	33.23	33.22	30.82	29.93	28.95	27.19	26.65	25.56	24.13
	190	33.24	33.23	30.90	30.00	29.01	27.20	26.66	25.65	24.26
	251	33.29	33.27	30.99	30.06	29.09	27.20	26.69	25.53	24.24
GSM 1900	512	30.60	30.61	29.11	27.03	25.50	26.19	25.46	24.62	23.51
	661	30.70	30.70	29.20	27.16	25.63	26.20	25.49	24.63	23.50
	810	30.58	30.60	29.07	27.07	25.52	26.10	25.30	24.38	23.25

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	24.03	24.02	24.63	25.50	25.77	17.99	20.46	21.13	20.95
	190	24.04	24.03	24.71	25.57	25.83	18.00	20.47	21.22	21.08
	251	24.09	24.07	24.80	25.63	25.91	18.00	20.50	21.10	21.06
GSM 1900	512	21.40	21.41	22.92	22.60	22.32	16.99	19.27	20.19	20.33
	661	21.50	21.50	23.01	22.73	22.45	17.00	19.30	20.20	20.32
	810	21.38	21.40	22.88	22.64	22.34	16.90	19.11	19.95	20.07

GSM 850	Frame Avg.Targets:	24.00	24.00	24.51	25.27	25.52	17.50	20.01	20.77	21.02
GSM 1900		21.00	21.00	22.51	22.27	22.02	16.50	19.01	19.77	20.02

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Note:

1. Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged power was calculated from the measured burst-averaged power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
2. GPRS/EDGE (GMSK) output powers were measured with coding scheme setting of 1 (CS1) on the base station simulator. CS1 was configured to measure GPRS output power measurements and SAR to ensure GMSK modulation in the signal. Our Investigation has shown that CS1 - CS4 settings do not have any impact on the output levels or modulation in the GPRS modes.
3. EDGE (8-PSK) output powers were measured with MCS7 on the base station simulator. MCS7 coding scheme was used to measure the output powers for EDGE since investigation has shown that choosing MCS7 coding scheme will ensure 8-PSK modulation. It has been shown that MCS levels that produce 8-PSK modulation do not have an impact on output power.

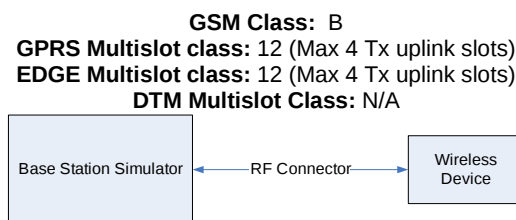


Figure 9-1
Power Measurement Setup

9.2 CDMA Conducted Powers

Table 9-2
Maximum Conducted Power

Band	Channel	Rule Part	Frequency	SO55 [dBm]	SO55 [dBm]	TDSO SO32 [dBm]	TDSO SO32 [dBm]	1x EvDO Rev. 0 [dBm]	1x EvDO Rev. A [dBm]
	F-RC		MHz	RC1	RC3	FCH+SCH	FCH	(RTAP)	(RETAP)
Cellular	564	90S	820.1	24.45	24.51	24.34	24.34	24.44	24.45
Cellular	1013	22H	824.7	24.52	24.57	24.50	24.64	24.54	24.50
	384	22H	836.52	24.44	24.49	24.63	24.58	24.53	24.50
	777	22H	848.31	24.43	24.49	24.34	24.44	24.46	24.44
PCS	25	24E	1851.25	24.56	24.54	24.52	24.40	24.48	24.45
	600	24E	1880	24.61	24.56	24.56	24.50	24.52	24.55
	1175	24E	1908.75	24.57	24.55	24.55	24.38	24.49	24.48

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Table 9-3
Reduced Conducted Power

Band	Channel	Rule Part	Frequency	SO55 [dBm]	SO55 [dBm]	TDSO SO32 [dBm]	TDSO SO32 [dBm]	1x EvDO Rev. 0 [dBm]	1x EvDO Rev. A [dBm]
	F-RC		MHz	RC1	RC3	FCH+SCH	FCH	(RTAP)	(RETAP)
PCS	25	24E	1851.25	22.58	22.70	22.59	22.63	22.58	22.62
	600	24E	1880	22.53	22.69	22.70	22.69	22.66	22.66
	1175	24E	1908.75	22.54	22.67	22.55	22.58	22.62	22.62

Note: RC1 is only applicable for IS-95 compatibility. For FCC Rule Part 90S, Per FCC KDB Publication 447498 D01v06 4.1.g), only one channel is required since the device operates within the transmission range of 817.90 – 823.10 MHz.

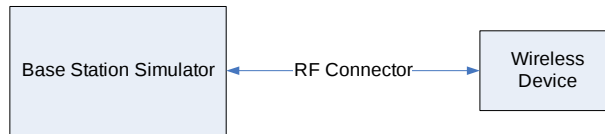


Figure 9-2
Power Measurement Setup

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9.3 UMTS Conducted Powers

Table 9-4
Maximum Conducted Power

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	24.34	24.41	24.40	24.70	24.69	24.68	24.66	24.65	24.70	-
99		12.2 kbps AMR	24.38	24.40	24.40	24.70	24.67	24.70	24.70	24.65	24.70	-
6	HSDPA	Subtest 1	24.06	24.10	24.03	24.52	24.26	24.48	24.36	24.41	24.43	0
6		Subtest 2	24.02	23.97	23.93	24.03	23.96	24.03	24.50	24.53	24.53	0
6		Subtest 3	23.46	23.50	23.45	24.08	23.92	24.00	24.04	24.06	24.08	0.5
6		Subtest 4	23.51	23.47	23.46	24.04	23.96	23.98	23.98	24.01	23.94	0.5
6	HSUPA	Subtest 1	21.91	21.95	21.97	22.44	22.38	22.39	22.39	22.50	22.11	2
6		Subtest 2	22.09	22.03	22.01	22.47	22.45	22.43	22.36	22.45	22.37	2
6		Subtest 3	23.10	23.07	23.04	23.18	23.15	23.13	23.56	23.54	23.53	1
6		Subtest 4	21.60	21.57	21.58	22.08	21.98	21.96	22.04	22.11	22.02	2.5
6		Subtest 5	23.15	23.16	23.13	23.48	23.43	23.39	23.29	23.35	23.32	1

Table 9-5
Reduced Conducted Power

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	22.70	22.68	22.68	22.67	22.61	22.70	-
99		12.2 kbps AMR	22.69	22.65	22.66	22.65	22.61	22.70	-
6	HSDPA	Subtest 1	22.05	21.95	21.88	22.45	22.48	22.44	0
6		Subtest 2	22.18	21.98	22.20	22.44	22.56	22.53	0
6		Subtest 3	21.30	21.69	21.72	22.06	22.09	22.07	0.5
6		Subtest 4	22.01	21.98	22.02	22.20	22.10	22.11	0.5
6	HSUPA	Subtest 1	20.63	20.59	20.57	20.67	20.65	20.59	2
6		Subtest 2	20.52	20.50	20.47	20.55	20.54	20.51	2
6		Subtest 3	21.52	21.47	21.44	21.51	21.49	21.48	1
6		Subtest 4	19.99	20.00	19.98	20.16	20.17	20.11	2.5
6		Subtest 5	21.46	21.44	21.41	21.53	21.45	21.50	1

This device does not support DC-HSDPA

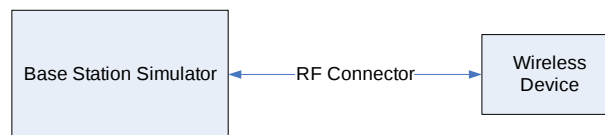


Figure 9-3
Power Measurement Setup

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9.4 LTE Conducted Powers

9.4.1

LTE Band 71

Table 9-6
LTE Band 71 Maximum Conducted Powers - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.40	0	0
	1	50	25.44		0
	1	99	25.28		0
	50	0	24.30	0-1	1
	50	25	24.34		1
	50	50	24.28		1
	100	0	24.24		1
16QAM	1	0	24.26	0-1	1
	1	50	24.31		1
	1	99	24.12		1
	50	0	23.27	0-2	2
	50	25	23.29		2
	50	50	23.26		2
	100	0	23.24		2
64QAM	1	0	23.30	0-2	2
	1	50	23.35		2
	1	99	23.16		2
	50	0	22.26	0-3	3
	50	25	22.31		3
	50	50	22.30		3
	100	0	22.25		3

Note: LTE Band 71 at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-7
LTE Band 71 Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 71 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.28	0	0
	1	36	25.28		0
	1	74	25.18		0
	36	0	24.18	0-1	1
	36	18	24.23		1
	36	37	24.22		1
	75	0	24.21		1
16QAM	1	0	24.32	0-1	1
	1	36	24.36		1
	1	74	24.22		1
	36	0	23.22	0-2	2
	36	18	23.25		2
	36	37	23.27		2
	75	0	23.23		2
64QAM	1	0	23.50	0-2	2
	1	36	23.49		2
	1	74	23.48		2
	36	0	22.33	0-3	3
	36	18	22.37		3
	36	37	22.29		3
	75	0	22.18		3

Note: LTE Band 71 at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-8
LTE Band 71 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 71 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133172 (668.0 MHz)	133297 (680.5 MHz)	133422 (693.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.25	25.22	25.08	0	0
	1	25	25.20	25.25	25.20		0
	1	49	25.30	25.20	25.15		0
	25	0	24.15	24.23	24.30	0-1	1
	25	12	24.29	24.23	24.24		1
	25	25	24.28	24.25	24.11		1
	50	0	24.21	24.28	24.22		1
16QAM	1	0	24.35	24.05	24.01	0-1	1
	1	25	24.32	24.02	24.00		1
	1	49	24.37	24.03	24.00		1
	25	0	23.17	23.37	23.35	0-2	2
	25	12	23.33	23.35	23.32		2
	25	25	23.35	23.40	23.18		2
	50	0	23.25	23.27	23.25		2
64QAM	1	0	23.29	23.27	23.24	0-2	2
	1	25	23.29	23.22	23.19		2
	1	49	23.28	23.13	23.24		2
	25	0	22.29	22.42	22.41	0-3	3
	25	12	22.46	22.40	22.37		3
	25	25	22.39	22.42	22.21		3
	50	0	22.33	22.40	22.28		3

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Table 9-9
LTE Band 71 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 71 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133147 (665.5 MHz)	133297 (680.5 MHz)	133447 (695.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.41	25.45	25.22	0	0
	1	12	25.50	25.41	25.17		0
	1	24	25.40	25.40	25.25		0
	12	0	24.25	24.29	24.26	0-1	1
	12	6	24.35	24.27	24.22		1
	12	13	24.33	24.28	24.16		1
	25	0	24.35	24.30	24.18		1
16QAM	1	0	24.03	24.21	24.49	0-1	1
	1	12	24.06	24.20	24.43		1
	1	24	24.01	24.22	24.50		1
	12	0	23.27	23.32	23.36	0-2	2
	12	6	23.42	23.31	23.31		2
	12	13	23.41	23.31	23.26		2
	25	0	23.33	23.33	23.25		2
64QAM	1	0	23.44	23.45	23.36	0-2	2
	1	12	23.46	23.44	23.31		2
	1	24	23.46	23.41	23.37		2
	12	0	22.26	22.35	22.22	0-3	3
	12	6	22.39	22.33	22.16		3
	12	13	22.38	22.31	22.13		3
	25	0	22.31	22.41	22.23		3

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9.4.2

LTE Band 12

Table 9-10
LTE Band 12 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.45	0	0
	1	25	25.46		0
	1	49	25.44		0
	25	0	24.44	0-1	1
	25	12	24.36		1
	25	25	24.49		1
	50	0	24.40		1
16QAM	1	0	24.43	0-1	1
	1	25	24.50		1
	1	49	24.46		1
	25	0	23.50	0-2	2
	25	12	23.45		2
	25	25	23.50		2
	50	0	23.38		2
64QAM	1	0	23.20	0-2	2
	1	25	23.37		2
	1	49	23.21		2
	25	0	22.50	0-3	3
	25	12	22.38		3
	25	25	22.49		3
	50	0	22.36		3

Note: LTE Band 12 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-11
LTE Band 12 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23035 (701.5 MHz)	23095 (707.5 MHz)	23155 (713.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.40	25.38	25.30	0	0
	1	12	25.37	25.33	25.26		0
	1	24	25.39	25.38	25.31		0
	12	0	24.36	24.34	24.26	0-1	1
	12	6	24.35	24.33	24.33		1
	12	13	24.24	24.22	24.29		1
	25	0	24.36	24.35	24.32		1
16QAM	1	0	24.21	24.23	24.48	0-1	1
	1	12	24.25	24.25	24.41		1
	1	24	24.21	24.22	24.46		1
	12	0	23.36	23.34	23.34	0-2	2
	12	6	23.36	23.35	23.37		2
	12	13	23.27	23.26	23.35		2
	25	0	23.40	23.39	23.45		2
64QAM	1	0	23.43	23.45	23.50	0-2	2
	1	12	23.37	23.33	23.48		2
	1	24	23.43	23.39	23.49		2
	12	0	22.35	22.29	22.25	0-3	3
	12	6	22.34	22.33	22.26		3
	12	13	22.26	22.25	22.23		3
	25	0	22.31	22.28	22.34		3

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Table 9-12
LTE Band 12 Maximum Conducted Powers - 3 MHz Bandwidth

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23025 (700.5 MHz)	23095 (707.5 MHz)	23165 (714.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.11	25.26	25.18	0	0
	1	7	25.16	25.23	25.20		0
	1	14	25.16	25.19	25.21		0
	8	0	24.26	24.29	24.16	0-1	1
	8	4	24.27	24.32	24.19		1
	8	7	24.16	24.29	24.21		1
	15	0	24.21	24.30	24.34		1
16QAM	1	0	23.89	24.43	23.73	0-1	1
	1	7	23.87	24.39	23.77		1
	1	14	23.86	24.38	23.72		1
	8	0	23.28	23.43	23.29	0-2	2
	8	4	23.31	23.42	23.32		2
	8	7	23.22	23.38	23.31		2
	15	0	23.30	23.35	23.30		2
64QAM	1	0	23.48	23.26	23.40	0-2	2
	1	7	23.48	23.22	23.41		2
	1	14	23.49	23.20	23.39		2
	8	0	22.25	22.36	22.24	0-3	3
	8	4	22.26	22.40	22.26		3
	8	7	22.20	22.37	22.28		3
	15	0	22.24	22.35	22.28		3

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Table 9-13
LTE Band 12 Maximum Conducted Powers - 1.4 MHz Bandwidth

LTE Band 12 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23017 (699.7 MHz)	23095 (707.5 MHz)	23173 (715.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.37	25.46	25.17	0	0
	1	2	25.37	25.44	25.12		0
	1	5	25.35	25.45	25.17		0
	3	0	25.20	25.33	25.26		0
	3	2	25.32	25.32	25.27		0
	3	3	25.28	25.32	25.26		0
	6	0	24.25	24.38	24.35	0-1	1
16QAM	1	0	23.70	23.89	24.34	0-1	1
	1	2	23.66	23.87	24.31		1
	1	5	23.68	23.90	24.32		1
	3	0	24.07	24.22	24.31		1
	3	2	24.08	24.18	24.33		1
	3	3	24.03	24.20	24.34		1
	6	0	23.42	23.44	23.21	0-2	2
64QAM	1	0	23.38	23.48	23.27	0-2	2
	1	2	23.38	23.42	23.28		2
	1	5	23.39	23.32	23.20		2
	3	0	23.28	23.37	23.39		2
	3	2	23.33	23.35	23.42		2
	3	3	23.31	23.46	23.43		2
	6	0	22.37	22.29	22.48	0-3	3

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LTE Band 13

Table 9-14
LTE Band 13 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.22	0	0
	1	25	25.10		0
	1	49	25.06		0
	25	0	24.24	0-1	1
	25	12	24.34		1
	25	25	24.25		1
	50	0	24.33		1
16QAM	1	0	24.31	0-1	1
	1	25	24.30		1
	1	49	24.23		1
	25	0	23.33	0-2	2
	25	12	23.40		2
	25	25	23.32		2
	50	0	23.30		2
64QAM	1	0	23.42	0-2	2
	1	25	23.40		2
	1	49	23.35		2
	25	0	22.30	0-3	3
	25	12	22.37		3
	25	25	22.30		3
	50	0	22.32		3

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Table 9-15
LTE Band 13 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 13 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.37	0	0
	1	12	25.27		0
	1	24	25.26		0
	12	0	24.35	0-1	1
	12	6	24.32		1
	12	13	24.33		1
	25	0	24.35		1
16QAM	1	0	24.30	0-1	1
	1	12	24.31		1
	1	24	24.23		1
	12	0	23.37	0-2	2
	12	6	23.37		2
	12	13	23.30		2
	25	0	23.38		2
64QAM	1	0	23.39	0-2	2
	1	12	23.37		2
	1	24	23.36		2
	12	0	22.34	0-3	3
	12	6	22.31		3
	12	13	22.27		3
	25	0	22.31		3

Note: LTE Band 13 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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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LTE Band 26

Table 9-16
LTE Band 26 (Cell) Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.07	0	0
	1	36	25.13		0
	1	74	25.00		0
	36	0	24.23	0-1	1
	36	18	24.14		1
	36	37	24.17		1
	75	0	24.22		1
16QAM	1	0	24.30	0-1	1
	1	36	24.41		1
	1	74	24.26		1
	36	0	23.24	0-2	2
	36	18	23.20		2
	36	37	23.22		2
	75	0	23.20		2
64QAM	1	0	23.05	0-2	2
	1	36	23.17		2
	1	74	23.01		2
	36	0	22.22	0-3	3
	36	18	22.21		3
	36	37	22.21		3
	75	0	22.20		3

Note: LTE Band 26 at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-17
LTE Band 26 (Cell) Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.94	24.92	24.99	0	0
	1	25	24.97	25.02	25.05		0
	1	49	24.99	25.05	25.03		0
	25	0	24.20	24.23	24.26	0-1	1
	25	12	24.20	24.23	24.22		1
	25	25	24.18	24.24	24.15		1
	50	0	24.22	24.24	24.24		1
16QAM	1	0	23.80	24.17	23.54	0-1	1
	1	25	23.77	24.22	23.59		1
	1	49	23.79	24.20	23.58		1
	25	0	23.27	23.31	23.36	0-2	2
	25	12	23.29	23.29	23.32		2
	25	25	23.26	23.31	23.23		2
	50	0	23.21	23.22	23.26		2
64QAM	1	0	23.40	23.05	23.20	0-2	2
	1	25	23.43	23.11	23.26		2
	1	49	23.45	23.09	23.26		2
	25	0	22.21	22.32	22.36	0-3	3
	25	12	22.23	22.28	22.31		3
	25	25	22.19	22.30	22.25		3
	50	0	22.21	22.23	22.18		3

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Table 9-18
LTE Band 26 (Cell) Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 26 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26715 (816.5 MHz)	26865 (831.5 MHz)	27015 (846.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.17	25.07	25.20	0	0
	1	12	25.19	25.10	25.19		0
	1	24	25.18	25.06	25.25		0
	12	0	24.21	24.16	24.28	0-1	1
	12	6	24.18	24.18	24.21		1
	12	13	24.18	24.20	24.11		1
25	0	24.23	24.19	24.18	1		
16QAM	1	0	24.07	24.49	24.17	0-1	1
	1	12	24.07	24.10	24.13		1
	1	24	24.08	24.06	24.24		1
	12	0	23.19	23.30	23.32	0-2	2
	12	6	23.21	23.31	23.26		2
	12	13	23.24	23.33	23.23		2
25	0	23.26	23.25	23.29	2		
64QAM	1	0	23.28	23.46	23.34	0-2	2
	1	12	23.31	23.48	23.36		2
	1	24	23.30	23.46	23.43		2
	12	0	22.27	22.27	22.19	0-3	3
	12	6	22.34	22.28	22.17		3
	12	13	22.31	22.31	22.15		3
25	0	22.27	22.33	22.28	3		

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Table 9-19
LTE Band 26 (Cell) Maximum Conducted Powers - 3 MHz Bandwidth

LTE Band 26 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26705 (815.5 MHz)	26865 (831.5 MHz)	27025 (847.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.22	25.22	25.03	0	0
	1	7	25.19	25.19	25.10		0
	1	14	25.25	25.17	25.12		0
	8	0	24.25	24.27	24.15	0-1	1
	8	4	24.27	24.26	24.13		1
	8	7	24.26	24.28	24.11		1
	15	0	24.27	24.30	24.12		1
16QAM	1	0	24.33	24.06	24.36	0-1	1
	1	7	24.34	24.03	24.37		1
	1	14	24.36	24.01	24.35		1
	8	0	23.34	23.32	23.42	0-2	2
	8	4	23.37	23.31	23.32		2
	8	7	23.39	23.33	23.41		2
	15	0	23.34	23.27	23.25		2
64QAM	1	0	23.25	23.17	23.27	0-2	2
	1	7	23.25	23.16	23.29		2
	1	14	23.20	23.13	23.20		2
	8	0	22.22	22.36	22.43	0-3	3
	8	4	22.24	22.30	22.39		3
	8	7	22.25	22.34	22.40		3
	15	0	22.29	22.34	22.26		3

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Table 9-20
LTE Band 26 (Cell) Maximum Conducted Powers - 1.4 MHz Bandwidth

LTE Band 26 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26697 (814.7 MHz)	26865 (831.5 MHz)	27033 (848.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.47	25.18	25.25	0	0
	1	2	25.42	25.16	25.22		0
	1	5	25.27	25.18	25.15		0
	3	0	25.22	25.19	25.13		0
	3	2	25.19	25.23	25.16		0
	3	3	25.20	25.18	25.17		0
	6	0	24.26	24.30	24.20	0-1	1
16QAM	1	0	24.35	24.10	24.03	0-1	1
	1	2	24.31	24.03	24.00		1
	1	5	24.33	24.05	24.05		1
	3	0	24.16	24.18	24.06		1
	3	2	24.11	24.14	24.10		1
	3	3	24.17	24.15	24.09		1
	6	0	23.12	23.42	23.22	0-2	2
64QAM	1	0	23.23	23.17	23.24	0-2	2
	1	2	23.16	23.22	23.18		2
	1	5	23.23	23.16	23.33		2
	3	0	23.11	23.33	23.27		2
	3	2	23.14	23.32	23.28		2
	3	3	23.22	23.30	23.28		2
	6	0	22.21	22.18	22.26	0-3	3

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LTE Band 66

Table 9-21

LTE Band 66 (AWS) Antenna 2 Maximum Conducted Powers - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.90	24.82	25.10	0	0
	1	50	25.06	24.91	25.09		0
	1	99	24.87	24.74	25.03		0
	50	0	23.94	24.02	24.08	0-1	1
	50	25	24.01	24.03	24.00		1
	50	50	23.97	23.96	23.92		1
	100	0	23.98	24.00	23.97		1
16QAM	1	0	24.06	23.78	23.94	0-1	1
	1	50	24.20	23.81	23.99		1
	1	99	24.03	23.72	23.90		1
	50	0	22.86	23.02	22.99	0-2	2
	50	25	22.94	23.03	23.00		2
	50	50	22.91	22.95	22.92		2
	100	0	22.95	22.97	22.98		2
64QAM	1	0	22.85	23.20	23.02	0-2	2
	1	50	22.96	23.20	23.08		2
	1	99	22.80	23.12	22.97		2
	50	0	21.94	22.05	22.12	0-3	3
	50	25	21.98	22.00	22.04		3
	50	50	21.95	21.93	21.95		3
	100	0	21.94	21.93	22.00		3

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Table 9-22
LTE Band 66 (AWS) Antenna 2 Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.98	24.95	25.19	0	0
	1	36	24.95	24.98	25.17		0
	1	74	24.90	24.90	25.20		0
	36	0	24.02	24.04	24.18	0-1	1
	36	18	24.03	24.03	24.10		1
	36	37	24.04	24.00	24.14		1
	75	0	24.10	24.15	24.20		1
16QAM	1	0	24.06	24.00	24.15	0-1	1
	1	36	24.10	23.72	24.18		1
	1	74	24.00	23.71	24.12		1
	36	0	23.05	23.03	23.20	0-2	2
	36	18	23.11	23.06	23.20		2
	36	37	23.07	23.04	23.18		2
	75	0	23.05	23.01	23.15		2
64QAM	1	0	23.20	22.82	23.14	0-2	2
	1	36	23.17	22.92	23.19		2
	1	74	23.19	22.74	23.12		2
	36	0	21.89	22.06	22.10	0-3	3
	36	18	21.98	22.10	22.07		3
	36	37	21.93	22.01	22.06		3
	75	0	21.97	21.96	21.89		3

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Table 9-23
LTE Band 66 (AWS) Antenna 2 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.17	25.19	25.16	0	0
	1	25	25.19	25.14	25.18		0
	1	49	25.19	25.20	25.14		0
	25	0	24.08	24.20	24.20	0-1	1
	25	12	24.11	24.19	24.20		1
	25	25	24.14	24.15	24.17		1
	50	0	24.17	24.20	24.19		1
16QAM	1	0	23.70	24.02	23.92	0-1	1
	1	25	23.73	24.05	23.93		1
	1	49	23.71	24.04	23.94		1
	25	0	23.00	23.11	23.20	0-2	2
	25	12	23.10	23.19	23.19		2
	25	25	23.14	23.17	23.18		2
	50	0	23.20	23.19	23.17		2
64QAM	1	0	22.87	22.85	23.20	0-2	2
	1	25	22.90	22.85	23.19		2
	1	49	22.91	22.82	23.18		2
	25	0	22.00	22.07	22.05	0-3	3
	25	12	22.09	22.05	21.99		3
	25	25	22.10	22.05	22.01		3
	50	0	21.97	22.04	22.04		3

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Table 9-24

LTE Band 66 (AWS) Antenna 2 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.17	25.19	25.20	0	0
	1	12	25.16	25.19	25.19		0
	1	24	25.20	25.20	25.17		0
	12	0	24.10	24.20	24.14	0-1	1
	12	6	24.15	24.16	24.16		1
	12	13	24.17	24.12	24.20		1
25	0	24.20	24.15	24.20	1		
16QAM	1	0	24.02	24.18	24.20	0-1	1
	1	12	24.03	24.19	24.19		1
	1	24	24.01	24.16	24.20		1
	12	0	23.19	23.19	23.12	0-2	2
	12	6	23.20	23.20	23.15		2
	12	13	23.17	23.18	23.19		2
25	0	23.15	23.20	23.20	2		
64QAM	1	0	23.11	23.13	23.00	0-2	2
	1	12	23.14	23.15	23.03		2
	1	24	23.16	23.17	23.02		2
	12	0	21.93	21.92	21.94	0-3	3
	12	6	21.96	21.90	21.91		3
	12	13	21.99	21.89	21.89		3
25	0	21.88	21.97	21.97	3		

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Table 9-25
LTE Band 66 (AWS) Antenna 2 Maximum Conducted Powers - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.20	25.11	25.20	0	0
	1	7	25.16	25.19	25.17		0
	1	14	25.11	25.20	25.11		0
	8	0	24.19	24.18	24.13	0-1	1
	8	4	24.17	24.19	24.14		1
	8	7	24.14	24.14	24.20		1
	15	0	24.20	24.16	24.20		1
16QAM	1	0	24.03	23.93	24.18	0-1	1
	1	7	24.02	23.90	24.15		1
	1	14	24.00	23.88	24.10		1
	8	0	23.18	23.20	23.18	0-2	2
	8	4	23.17	23.19	23.16		2
	8	7	23.19	23.20	23.19		2
	15	0	23.13	23.18	23.19		2
64QAM	1	0	22.92	22.83	22.96	0-2	2
	1	7	22.92	22.84	22.90		2
	1	14	22.88	22.81	22.83		2
	8	0	21.89	22.00	22.09	0-3	3
	8	4	21.90	21.98	22.08		3
	8	7	21.89	22.00	22.07		3
	15	0	21.96	22.00	21.98		3

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Table 9-26
LTE Band 66 (AWS) Antenna 2 Maximum Conducted Powers - 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.14	25.20	25.20	0	0
	1	2	25.20	25.18	25.19		0
	1	5	25.18	25.17	25.20		0
	3	0	25.13	25.16	25.13		0
	3	2	25.15	25.19	25.15		0
	3	3	25.13	25.16	25.16		0
	6	0	24.12	24.20	24.20	0-1	1
16QAM	1	0	24.03	24.18	24.18	0-1	1
	1	2	24.00	24.19	24.16		1
	1	5	24.04	24.20	24.18		1
	3	0	24.16	24.20	24.08		1
	3	2	24.15	24.18	24.10		1
	3	3	24.18	24.16	24.09		1
	6	0	23.20	23.16	23.20	0-2	2
64QAM	1	0	22.86	22.81	22.82	0-2	2
	1	2	22.82	22.85	22.94		2
	1	5	22.94	22.80	23.00		2
	3	0	22.77	22.94	22.94		2
	3	2	22.80	22.96	22.92		2
	3	3	22.79	22.95	22.92		2
	6	0	21.85	21.81	21.91	0-3	3

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Table 9-27

LTE Band 66 (AWS) Antenna 2 Reduced Conducted Powers – 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.62	22.74	22.61	0	0
	1	50	22.74	22.78	22.76		0
	1	99	22.65	22.56	22.70		0
	50	0	22.57	22.76	22.20	0-1	0
	50	25	22.72	22.73	22.70		0
	50	50	22.73	22.70	22.68		0
	100	0	22.62	22.71	22.69		0
16QAM	1	0	22.66	22.89	22.63	0-1	0
	1	50	22.88	22.99	22.82		0
	1	99	22.96	22.73	22.83		0
	50	0	22.60	22.80	22.61	0-2	0
	50	25	22.66	22.71	22.64		0
	50	50	22.78	22.71	22.66		0
	100	0	22.69	22.74	22.64		0
64QAM	1	0	22.90	22.90	22.70	0-2	0
	1	50	22.92	22.87	22.66		0
	1	99	22.83	22.82	22.58		0
	50	0	21.80	21.89	21.90	0-3	1
	50	25	21.94	21.96	21.85		1
	50	50	21.88	21.90	21.89		1
	100	0	21.95	21.96	21.93		1

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Table 9-28
LTE Band 66 (AWS) Antenna 2 Reduced Conducted Powers - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.52	22.56	22.54	0	0
	1	36	22.66	22.65	22.64		0
	1	74	22.49	22.48	22.50		0
	36	0	22.60	22.65	22.60	0-1	0
	36	18	22.67	22.69	22.69		0
	36	37	22.64	22.60	22.65		0
	75	0	22.67	22.62	22.66		0
16QAM	1	0	22.56	23.09	22.93	0-1	0
	1	36	22.66	23.19	23.04		0
	1	74	22.51	23.07	22.82		0
	36	0	22.60	22.69	22.64	0-2	0
	36	18	22.65	22.72	22.73		0
	36	37	22.63	22.65	22.70		0
	75	0	22.62	22.67	22.68		0
64QAM	1	0	22.50	22.82	22.48	0-2	0
	1	36	22.63	22.91	22.63		0
	1	74	22.43	22.76	22.41		0
	36	0	21.70	21.74	21.67	0-3	1
	36	18	21.74	21.74	21.76		1
	36	37	21.72	21.69	21.73		1
	75	0	21.67	21.59	21.69		1

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Table 9-29
LTE Band 66 (AWS) Antenna 2 Reduced Conducted Powers – 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.52	22.56	22.54	0	0
	1	25	22.66	22.63	22.56		0
	1	49	22.51	22.48	22.50		0
	25	0	22.56	22.69	22.65	0-1	0
	25	12	22.65	22.65	22.62		0
	25	25	22.64	22.63	22.61		0
	50	0	22.68	22.69	22.66		0
16QAM	1	0	22.37	22.56	22.56	0-1	0
	1	25	22.44	22.59	22.55		0
	1	49	22.42	22.54	22.50		0
	25	0	22.70	22.76	22.76	0-2	0
	25	12	22.79	22.74	22.73		0
	25	25	22.78	22.75	22.74		0
	50	0	22.74	22.68	22.66		0
64QAM	1	0	22.71	22.83	22.83	0-2	0
	1	25	22.80	22.85	22.83		0
	1	49	22.76	22.77	22.77		0
	25	0	21.66	21.70	21.71	0-3	1
	25	12	21.75	21.67	21.66		1
	25	25	21.74	21.66	21.66		1
	50	0	21.63	21.69	21.67		1

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Table 9-30
LTE Band 66 (AWS) Antenna 2 Reduced Conducted Powers – 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.73	22.59	22.66	0	0
	1	12	22.73	22.58	22.66		0
	1	24	22.73	22.60	22.62		0
	12	0	22.61	22.62	22.67	0-1	0
	12	6	22.61	22.61	22.65		0
	12	13	22.61	22.54	22.63		0
	25	0	22.63	22.55	22.64		0
16QAM	1	0	22.74	23.19	22.63	0-1	0
	1	12	22.73	23.17	22.61		0
	1	24	22.74	23.16	22.58		0
	12	0	22.63	22.69	22.78	0-2	0
	12	6	22.64	22.69	22.75		0
	12	13	22.66	22.64	22.73		0
	25	0	22.65	22.71	22.69		0
64QAM	1	0	22.75	22.80	23.06	0-2	0
	1	12	22.74	22.86	23.10		0
	1	24	22.73	22.86	23.12		0
	12	0	21.59	21.60	21.75	0-3	1
	12	6	21.57	21.56	21.68		1
	12	13	21.57	21.55	21.68		1
	25	0	21.57	21.61	21.70		1

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Table 9-31
LTE Band 66 (AWS) Antenna 2 Reduced Conducted Powers – 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.49	22.57	22.63	0	0
	1	7	22.53	22.53	22.61		0
	1	14	22.55	22.53	22.59		0
	8	0	22.59	22.52	22.59	0-1	0
	8	4	22.61	22.53	22.64		0
	8	7	22.62	22.52	22.60		0
	15	0	22.58	22.55	22.61		0
16QAM	1	0	22.51	22.92	22.45	0-1	0
	1	7	22.51	22.97	22.42		0
	1	14	22.48	22.96	22.40		0
	8	0	22.60	22.67	22.60	0-2	0
	8	4	22.63	22.66	22.60		0
	8	7	22.61	22.64	22.61		0
	15	0	22.62	22.61	22.59		0
64QAM	1	0	22.74	22.44	22.67	0-2	0
	1	7	22.77	22.47	22.80		0
	1	14	22.80	22.47	22.75		0
	8	0	21.67	21.62	21.64	0-3	1
	8	4	21.62	21.64	21.61		1
	8	7	21.61	21.63	21.59		1
	15	0	21.59	21.60	21.62		1

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Table 9-32
LTE Band 66 (AWS) Antenna 2 Reduced Conducted Powers – 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.63	22.55	22.58	0	0
	1	2	22.59	22.49	22.57		0
	1	5	22.60	22.48	22.60		0
	3	0	22.54	22.54	22.61		0
	3	2	22.55	22.53	22.63		0
	3	3	22.54	22.54	22.62		0
	6	0	22.61	22.55	22.61	0-1	0
16QAM	1	0	22.65	23.00	22.43	0-1	0
	1	2	22.41	22.97	22.35		0
	1	5	22.42	22.95	22.38		0
	3	0	22.70	22.90	22.68		0
	3	2	22.75	22.89	22.71		0
	3	3	22.77	22.87	22.73		0
	6	0	22.81	22.47	22.73	0-2	0
64QAM	1	0	22.56	22.49	22.73	0-2	0
	1	2	22.75	22.51	22.71		0
	1	5	22.74	22.45	22.71		0
	3	0	22.83	22.61	22.70		0
	3	2	22.84	22.63	22.68		0
	3	3	22.86	22.64	22.70		0
	6	0	21.57	21.84	21.73	0-3	1

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Table 9-33
LTE Band 66 (AWS) Antenna 3 Maximum Conducted Powers - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.45	23.45	23.41	0	0
	1	50	23.49	23.50	23.49		0
	1	99	23.47	23.43	23.42		0
	50	0	22.43	22.50	22.42	0-1	1
	50	25	22.49	22.49	22.46		1
	50	50	22.46	22.41	22.39		1
	100	0	22.49	22.48	22.43		1
16QAM	1	0	22.20	22.24	22.14	0-1	1
	1	50	22.28	22.35	22.24		1
	1	99	22.22	22.20	22.16		1
	50	0	21.42	21.46	21.39	0-2	2
	50	25	21.47	21.50	21.40		2
	50	50	21.43	21.39	21.36		2
	100	0	21.48	21.47	21.41		2
64QAM	1	0	21.46	21.50	21.43	0-2	2
	1	50	21.50	21.50	21.49		2
	1	99	21.49	21.44	21.46		2
	50	0	20.40	20.46	20.38	0-3	3
	50	25	20.44	20.50	20.40		3
	50	50	20.41	20.38	20.35		3
	100	0	20.45	20.44	20.39		3

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Table 9-34
LTE Band 66 (AWS) Antenna 3 Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.49	23.50	23.43	0	0
	1	36	23.50	23.50	23.50		0
	1	74	23.48	23.49	23.42		0
	36	0	22.47	22.48	22.43	0-1	1
	36	18	22.48	22.49	22.44		1
	36	37	22.45	22.43	22.39		1
	75	0	22.49	22.48	22.45		1
16QAM	1	0	22.22	22.28	22.23	0-1	1
	1	36	22.34	22.31	22.30		1
	1	74	22.15	22.26	22.24		1
	36	0	21.46	21.49	21.45	0-2	2
	36	18	21.47	21.49	21.44		2
	36	37	21.44	21.44	21.39		2
	75	0	21.48	21.48	21.42		2
64QAM	1	0	21.50	21.47	21.49	0-2	2
	1	36	21.49	21.50	21.50		2
	1	74	21.48	21.49	21.48		2
	36	0	20.46	20.49	20.44	0-3	3
	36	18	20.50	20.50	20.45		3
	36	37	20.46	20.45	20.40		3
	75	0	20.47	20.46	20.42		3

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Table 9-35
LTE Band 66 (AWS) Antenna 3 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.49	23.50	23.48	0	0
	1	25	23.50	23.49	23.50		0
	1	49	23.49	23.48	23.43		0
	25	0	22.50	22.50	22.49	0-1	1
	25	12	22.48	22.47	22.46		1
	25	25	22.47	22.49	22.41		1
	50	0	22.49	22.50	22.46		1
16QAM	1	0	22.32	22.38	22.23	0-1	1
	1	25	22.34	22.33	22.26		1
	1	49	22.32	22.36	22.32		1
	25	0	21.49	21.50	21.50	0-2	2
	25	12	21.50	21.49	21.49		2
	25	25	21.44	21.48	21.40		2
	50	0	21.47	21.49	21.42		2
64QAM	1	0	21.49	21.48	21.50	0-2	2
	1	25	21.50	21.50	21.50		2
	1	49	21.50	21.50	21.49		2
	25	0	20.48	20.49	20.50	0-3	3
	25	12	20.50	20.48	20.46		3
	25	25	20.49	20.49	20.40		3
	50	0	20.50	20.47	20.43		3

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Table 9-36
LTE Band 66 (AWS) Antenna 3 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.49	23.50	23.45	0	0
	1	12	23.50	23.49	23.42		0
	1	24	23.48	23.47	23.41		0
	12	0	22.48	22.45	22.35	0-1	1
	12	6	22.50	22.43	22.34		1
	12	13	22.47	22.41	22.37		1
	25	0	22.50	22.47	22.38		1
16QAM	1	0	22.26	22.27	22.22	0-1	1
	1	12	22.31	22.29	22.24		1
	1	24	22.25	22.22	22.25		1
	12	0	21.49	21.47	21.37	0-2	2
	12	6	21.47	21.43	21.42		2
	12	13	21.50	21.42	21.38		2
	25	0	21.49	21.43	21.40		2
64QAM	1	0	21.48	21.50	21.49	0-2	2
	1	12	21.50	21.49	21.50		2
	1	24	21.49	21.50	21.50		2
	12	0	20.39	20.39	20.38	0-3	3
	12	6	20.36	20.40	20.35		3
	12	13	20.48	20.35	20.36		3
	25	0	20.50	20.46	20.41		3

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Table 9-37

LTE Band 66 (AWS) Antenna 3 Maximum Conducted Powers - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.42	23.46	23.37	0	0
	1	7	23.46	23.49	23.44		0
	1	14	23.50	23.50	23.39		0
	8	0	22.47	22.41	22.37	0-1	1
	8	4	22.46	22.44	22.36		1
	8	7	22.47	22.42	22.35		1
	15	0	22.45	22.44	22.34		1
16QAM	1	0	22.19	22.27	22.16	0-1	1
	1	7	22.25	22.28	22.20		1
	1	14	22.28	22.36	22.10		1
	8	0	21.44	21.46	21.38	0-2	2
	8	4	21.42	21.44	21.34		2
	8	7	21.45	21.43	21.32		2
	15	0	21.46	21.40	21.31		2
64QAM	1	0	21.50	21.50	21.48	0-2	2
	1	7	21.49	21.49	21.50		2
	1	14	21.48	21.48	21.49		2
	8	0	20.44	20.44	20.36	0-3	3
	8	4	20.42	20.41	20.31		3
	8	7	20.45	20.43	20.30		3
	15	0	20.46	20.40	20.32		3

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Table 9-38
LTE Band 66 (AWS) Antenna 3 Maximum Conducted Powers - 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.46	23.44	23.39	0	0
	1	2	23.44	23.47	23.33		0
	1	5	23.36	23.50	23.43		0
	3	0	23.47	23.39	23.39		0
	3	2	23.42	23.38	23.34		0
	3	3	23.41	23.42	23.37		0
	6	0	22.43	22.39	22.36	0-1	1
16QAM	1	0	22.19	22.21	22.10	0-1	1
	1	2	22.17	22.27	22.16		1
	1	5	22.26	22.25	22.20		1
	3	0	22.05	22.03	22.00		1
	3	2	22.02	22.04	21.97		1
	3	3	22.03	22.05	21.96		1
	6	0	21.38	21.39	21.33	0-2	2
64QAM	1	0	21.50	21.50	21.49	0-2	2
	1	2	21.49	21.49	21.50		2
	1	5	21.49	21.50	21.48		2
	3	0	21.35	21.37	21.33		2
	3	2	21.37	21.38	21.24		2
	3	3	21.34	21.33	21.27		2
	6	0	20.35	20.34	20.26	0-3	3

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LTE Band 2

Table 9-39

LTE Band 2 (PCS) Antenna 3 Maximum Conducted Powers - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.20	23.03	23.27	0	0
	1	50	23.39	23.21	23.50		0
	1	99	23.28	23.07	23.41		0
	50	0	22.37	22.08	22.32	0-1	1
	50	25	22.35	22.07	22.38		1
	50	50	22.36	22.00	22.27		1
	100	0	22.31	22.02	22.36		1
16QAM	1	0	22.03	21.76	22.04	0-1	1
	1	50	22.15	21.85	22.33		1
	1	99	22.08	22.12	22.25		1
	50	0	21.34	21.29	21.31	0-2	2
	50	25	21.32	21.30	21.40		2
	50	50	21.33	21.23	21.25		2
	100	0	21.28	21.25	21.35		2
64QAM	1	0	21.42	21.48	21.44	0-2	2
	1	50	21.50	21.50	21.50		2
	1	99	21.48	21.49	21.50		2
	50	0	20.32	20.27	20.29	0-3	3
	50	25	20.30	20.26	20.36		3
	50	50	20.32	20.22	20.23		3
	100	0	20.29	20.24	20.31		3

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Table 9-40
LTE Band 2 (PCS) Antenna 3 Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.22	23.11	23.40	0	0
	1	36	23.34	23.28	23.41		0
	1	74	23.33	23.27	23.45		0
	36	0	22.29	22.20	22.31	0-1	1
	36	18	22.27	22.19	22.35		1
	36	37	22.28	22.18	22.30		1
	75	0	22.27	22.16	22.35		1
16QAM	1	0	22.09	21.98	22.17	0-1	1
	1	36	22.13	22.01	22.25		1
	1	74	22.08	22.05	22.30		1
	36	0	21.29	21.21	21.33	0-2	2
	36	18	21.28	21.15	21.35		2
	36	37	21.28	21.17	21.32		2
	75	0	21.29	21.18	21.36		2
64QAM	1	0	21.44	21.48	21.50	0-2	2
	1	36	21.50	21.50	21.49		2
	1	74	21.49	21.49	21.50		2
	36	0	20.29	20.28	20.33	0-3	3
	36	18	20.27	20.27	20.34		3
	36	37	20.28	20.27	20.30		3
	75	0	20.24	20.23	20.31		3

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Table 9-41
LTE Band 2 (PCS) Antenna 3 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.33	23.35	23.49	0	0
	1	25	23.36	23.40	23.50		0
	1	49	23.32	23.36	23.49		0
	25	0	22.31	22.34	22.43	0-1	1
	25	12	22.30	22.32	22.40		1
	25	25	22.28	22.24	22.32		1
	50	0	22.34	22.33	22.43		1
16QAM	1	0	22.13	22.12	22.22	0-1	1
	1	25	22.15	22.17	22.34		1
	1	49	22.17	22.18	22.38		1
	25	0	21.28	21.33	21.41	0-2	2
	25	12	21.27	21.27	21.40		2
	25	25	21.24	21.24	21.30		2
	50	0	21.30	21.30	21.42		2
64QAM	1	0	21.50	21.42	21.49	0-2	2
	1	25	21.49	21.50	21.50		2
	1	49	21.50	21.49	21.50		2
	25	0	20.30	20.33	20.41	0-3	3
	25	12	20.29	20.33	20.39		3
	25	25	20.25	20.26	20.31		3
	50	0	20.30	20.30	20.40		3

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Table 9-42
LTE Band 2 (PCS) Antenna 3 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.32	23.35	23.49	0	0
	1	12	23.34	23.37	23.40		0
	1	24	23.30	23.33	23.50		0
	12	0	22.27	22.35	22.41	0-1	1
	12	6	22.32	22.31	22.39		1
	12	13	22.21	22.27	22.31		1
	25	0	22.28	22.31	22.42		1
16QAM	1	0	22.03	22.17	22.26	0-1	1
	1	12	22.15	22.16	22.22		1
	1	24	22.02	22.13	22.31		1
	12	0	21.28	21.38	21.40	0-2	2
	12	6	21.27	21.31	21.37		2
	12	13	21.19	21.24	21.31		2
	25	0	21.29	21.35	21.38		2
64QAM	1	0	21.44	21.50	21.50	0-2	2
	1	12	21.50	21.49	21.50		2
	1	24	21.48	21.50	21.49		2
	12	0	20.29	20.29	20.40	0-3	3
	12	6	20.28	20.32	20.35		3
	12	13	20.19	20.21	20.25		3
	25	0	20.24	20.30	20.37		3

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Table 9-43
LTE Band 2 (PCS) Antenna 3 Maximum Conducted Powers - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.17	23.28	23.37	0	0
	1	7	23.26	23.32	23.46		0
	1	14	23.25	23.26	23.45		0
	8	0	22.25	22.26	22.34	0-1	1
	8	4	22.23	22.23	22.39		1
	8	7	22.26	22.21	22.37		1
	15	0	22.23	22.22	22.34		1
16QAM	1	0	22.04	22.05	22.16	0-1	1
	1	7	22.08	22.18	22.28		1
	1	14	22.06	22.13	22.21		1
	8	0	21.24	21.28	21.33	0-2	2
	8	4	21.23	21.21	21.39		2
	8	7	21.24	21.22	21.36		2
	15	0	21.25	21.21	21.33		2
64QAM	1	0	21.35	21.44	21.48	0-2	2
	1	7	21.44	21.50	21.50		2
	1	14	21.47	21.43	21.49		2
	8	0	20.21	20.24	20.35	0-3	3
	8	4	20.23	20.19	20.36		3
	8	7	20.22	20.25	20.38		3
	15	0	20.23	20.24	20.32		3

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Table 9-44
LTE Band 2 (PCS) Antenna 3 Maximum Conducted Powers - 1.4 MHz Bandwidth

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.27	23.32	23.42	0	0
	1	2	23.26	23.29	23.48		0
	1	5	23.25	23.28	23.46		0
	3	0	23.27	23.29	23.41		0
	3	2	23.23	23.25	23.39		0
	3	3	23.24	23.30	23.38		0
	6	0	22.22	22.29	22.40		0-1
16QAM	1	0	22.06	22.13	22.25	0-1	1
	1	2	22.05	22.12	22.23		1
	1	5	22.07	22.13	22.26		1
	3	0	21.83	21.92	21.99		1
	3	2	21.81	21.87	21.97		1
	3	3	21.85	21.88	22.01		1
	6	0	21.20	21.27	21.36		0-2
64QAM	1	0	21.39	21.50	21.47	0-2	2
	1	2	21.42	21.49	21.50		2
	1	5	21.39	21.48	21.48		2
	3	0	21.18	21.23	21.33		2
	3	2	21.15	21.18	21.31		2
	3	3	21.18	21.17	21.30		2
	6	0	20.15	20.21	20.29		0-3

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LTE Band 25

Table 9-45

LTE Band 25 (PCS) Maximum Conducted Powers - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.66	25.04	24.97	0	0
	1	50	24.77	25.13	25.17		0
	1	99	24.74	25.04	25.12		0
	50	0	23.94	24.03	24.07	0-1	1
	50	25	23.97	24.00	24.02		1
	50	50	24.03	24.03	23.95		1
16QAM	100	0	23.93	23.98	23.99	1	
	1	0	23.65	23.92	23.86	0-1	1
	1	50	23.70	23.99	24.02		1
	1	99	23.69	23.94	23.90		1
	50	0	22.91	23.02	23.06	0-2	2
	50	25	22.96	22.99	23.02		2
	50	50	23.00	23.02	22.94		2
100	0	22.91	22.97	23.00	2		
64QAM	1	0	23.05	22.99	22.91	0-2	2
	1	50	23.13	23.04	23.09		2
	1	99	23.11	22.98	23.01		2
	50	0	21.88	22.04	22.10	0-3	3
	50	25	21.92	22.02	22.07		3
	50	50	21.97	22.05	21.98		3
	100	0	21.87	21.98	22.00		3

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Table 9-46
LTE Band 25 (PCS) Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26115 (1857.5 MHz)	26365 (1882.5 MHz)	26615 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.11	25.07	25.18	0	0
	1	36	25.14	25.12	25.20		0
	1	74	25.17	25.08	25.10		0
	36	0	24.20	24.12	24.13	0-1	1
	36	18	24.18	24.18	24.14		1
	36	37	24.19	24.15	24.19		1
	75	0	24.18	24.19	24.20		1
16QAM	1	0	24.12	23.85	24.17	0-1	1
	1	36	24.18	23.88	24.16		1
	1	74	24.16	23.80	24.20		1
	36	0	23.16	23.20	23.19	0-2	2
	36	18	23.20	23.14	23.18		2
	36	37	23.19	23.17	23.20		2
	75	0	23.17	23.19	23.20		2
64QAM	1	0	23.20	22.68	23.20	0-2	2
	1	36	23.13	22.85	23.17		2
	1	74	23.14	22.68	23.19		2
	36	0	21.81	21.98	22.08	0-3	3
	36	18	21.87	21.97	22.11		3
	36	37	21.86	21.97	22.07		3
	75	0	21.85	21.88	21.89		3

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Table 9-47
LTE Band 25 (PCS) Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26090 (1855.0 MHz)	26365 (1882.5 MHz)	26640 (1910.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.00	25.18	25.16	0	0
	1	25	25.10	25.20	25.15		0
	1	49	25.06	25.19	25.13		0
	25	0	24.15	24.19	24.18	0-1	1
	25	12	24.16	24.11	24.20		1
	25	25	24.18	24.16	24.19		1
	50	0	24.20	24.18	24.20		1
16QAM	1	0	24.17	23.93	23.85	0-1	1
	1	25	24.16	23.95	23.87		1
	1	49	24.20	24.00	23.85		1
	25	0	23.18	23.20	23.20	0-2	2
	25	12	23.19	23.19	23.19		2
	25	25	23.17	23.19	23.20		2
	50	0	23.20	23.20	23.19		2
64QAM	1	0	22.81	22.75	22.74	0-2	2
	1	25	22.89	22.77	22.82		2
	1	49	22.80	22.75	22.80		2
	25	0	22.00	22.02	22.13	0-3	3
	25	12	22.01	21.99	22.03		3
	25	25	21.97	21.98	22.10		3
	50	0	21.85	21.94	21.98		3

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Table 9-48
LTE Band 25 (PCS) Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26065 (1852.5 MHz)	26365 (1882.5 MHz)	26665 (1912.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.12	25.12	25.20	0	0
	1	12	25.19	25.13	25.14		0
	1	24	25.20	25.10	25.20		0
	12	0	24.17	24.20	24.19	0-1	1
	12	6	24.15	24.12	24.13		1
	12	13	24.16	24.18	24.11		1
	25	0	24.20	24.15	24.20		1
16QAM	1	0	24.19	24.20	24.00	0-1	1
	1	12	24.18	24.10	23.99		1
	1	24	24.13	24.16	23.84		1
	12	0	23.15	23.20	23.16	0-2	2
	12	6	23.11	23.19	23.18		2
	12	13	23.19	23.18	23.19		2
	25	0	23.20	23.13	23.20		2
64QAM	1	0	23.20	23.06	23.04	0-2	2
	1	12	23.19	23.07	23.12		2
	1	24	23.14	23.08	23.11		2
	12	0	21.94	21.91	21.91	0-3	3
	12	6	21.91	21.87	21.91		3
	12	13	21.91	21.82	21.93		3
	25	0	21.86	21.94	21.95		3

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Table 9-49
LTE Band 25 (PCS) Maximum Conducted Powers - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26055 (1851.5 MHz)	26365 (1882.5 MHz)	26675 (1913.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.09	25.17	25.18	0	0
	1	7	25.00	25.15	25.20		0
	1	14	25.10	25.11	25.20		0
	8	0	24.12	24.16	24.16	0-1	1
	8	4	24.18	24.18	24.13		1
	8	7	24.11	24.17	24.11		1
	15	0	24.19	24.20	24.12		1
16QAM	1	0	24.15	24.00	23.90	0-1	1
	1	7	24.16	23.96	23.93		1
	1	14	24.19	23.93	23.86		1
	8	0	23.19	23.16	23.20	0-2	2
	8	4	23.18	23.18	23.14		2
	8	7	23.17	23.16	23.12		2
	15	0	23.20	23.19	23.20		2
64QAM	1	0	22.89	22.75	23.17	0-2	2
	1	7	22.89	22.74	23.15		2
	1	14	22.87	22.68	23.11		2
	8	0	21.86	21.98	22.10	0-3	3
	8	4	21.85	21.93	22.09		3
	8	7	21.85	21.92	22.09		3
	15	0	21.91	21.94	21.96		3

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Table 9-50
LTE Band 25 (PCS) Maximum Conducted Powers - 1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26047 (1850.7 MHz)	26365 (1882.5 MHz)	26683 (1914.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	25.19	25.19	25.14	0	0
	1	2	25.16	25.18	25.16		0
	1	5	25.17	25.20	25.19		0
	3	0	25.16	25.17	25.14		0
	3	2	25.19	25.19	25.16		0
	3	3	25.16	25.19	25.16		0
	6	0	24.20	24.20	24.20	0-1	1
16QAM	1	0	23.92	24.05	24.16	0-1	1
	1	2	23.90	24.07	24.12		1
	1	5	23.94	24.08	24.14		1
	3	0	24.10	24.00	24.18		1
	3	2	24.08	23.97	24.19		1
	3	3	24.06	24.00	24.20		1
	6	0	23.18	23.19	23.18	0-2	2
64QAM	1	0	22.94	22.83	23.11	0-2	2
	1	2	22.93	22.88	23.18		2
	1	5	22.97	22.79	23.16		2
	3	0	22.81	23.00	23.08		2
	3	2	22.82	22.99	23.07		2
	3	3	22.83	22.96	23.08		2
	6	0	21.90	21.85	21.97	0-3	3

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Table 9-51
LTE Band 25 (PCS) Reduced Conducted Powers – 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.88	22.96	22.84	0	0
	1	50	22.91	22.98	22.99		0
	1	99	22.92	22.93	22.94		0
	50	0	23.01	23.04	23.08	0-1	0
	50	25	22.99	23.01	23.04		0
	50	50	23.04	23.05	22.97		0
	100	0	22.96	22.97	22.98		0
16QAM	1	0	23.13	23.14	23.13	0-1	0
	1	50	23.19	23.19	23.16		0
	1	99	23.12	23.13	23.20		0
	50	0	22.93	23.02	23.07	0-2	0
	50	25	23.00	23.04	23.01		0
	50	50	23.07	23.06	22.96		0
	100	0	22.96	23.00	23.02		0
64QAM	1	0	23.01	23.11	23.04	0-2	0
	1	50	23.08	23.15	23.20		0
	1	99	23.08	23.12	23.12		0
	50	0	21.97	22.06	22.06	0-3	1
	50	25	21.98	22.01	22.05		1
	50	50	22.04	22.07	21.97		1
	100	0	22.02	21.98	22.03		1

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Table 9-52
LTE Band 25 (PCS) Reduced Conducted Powers – 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26115 (1857.5 MHz)	26365 (1882.5 MHz)	26615 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.10	23.01	23.05	0	0
	1	36	23.13	23.09	23.15		0
	1	74	23.19	23.01	23.13		0
	36	0	23.09	23.11	23.18	0-1	0
	36	18	23.11	23.08	23.11		0
	36	37	23.14	23.09	23.14		0
	75	0	23.09	23.11	23.13		0
16QAM	1	0	23.03	23.19	23.15	0-1	0
	1	36	23.08	23.11	23.17		0
	1	74	23.12	23.06	23.15		0
	36	0	23.17	23.12	23.14	0-2	0
	36	18	23.11	23.11	23.17		0
	36	37	23.02	23.08	23.05		0
	75	0	23.09	23.10	23.12		0
64QAM	1	0	23.11	23.18	23.04	0-2	0
	1	36	23.04	23.05	23.12		0
	1	74	23.10	23.11	23.11		0
	36	0	22.17	22.13	22.14	0-3	1
	36	18	22.18	22.10	22.17		1
	36	37	22.11	22.10	22.12		1
	75	0	22.12	22.11	22.13		1

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Table 9-53
LTE Band 25 (PCS) Reduced Conducted Powers – 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26090 (1855.0 MHz)	26365 (1882.5 MHz)	26640 (1910.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.00	23.11	23.19	0	0
	1	25	23.05	23.12	23.19		0
	1	49	23.00	23.10	23.17		0
	25	0	23.13	23.14	23.17	0-1	0
	25	12	23.14	23.12	23.11		0
	25	25	23.11	23.11	23.20		0
	50	0	23.15	23.16	23.20		0
16QAM	1	0	23.03	23.16	23.16	0-1	0
	1	25	23.10	23.07	23.09		0
	1	49	23.06	23.19	23.08		0
	25	0	23.05	23.01	23.18	0-2	0
	25	12	23.12	23.11	23.12		0
	25	25	23.11	23.19	23.18		0
	50	0	23.19	23.18	23.18		0
64QAM	1	0	23.14	23.14	23.20	0-2	0
	1	25	23.12	23.14	23.12		0
	1	49	23.19	23.17	23.17		0
	25	0	22.12	22.10	22.04	0-3	1
	25	12	22.12	22.07	22.16		1
	25	25	22.11	22.11	22.03		1
	50	0	22.16	22.17	22.19		1

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Table 9-54
LTE Band 25 (PCS) Reduced Conducted Powers – 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26065 (1852.5 MHz)	26365 (1882.5 MHz)	26665 (1912.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.11	23.09	23.13	0	0
	1	12	23.13	23.12	23.19		0
	1	24	23.11	23.11	23.15		0
	12	0	23.16	23.11	23.12	0-1	0
	12	6	23.15	23.08	23.14		0
	12	13	23.13	23.04	23.17		0
	25	0	23.15	23.12	23.19		0
16QAM	1	0	23.08	23.16	23.03	0-1	0
	1	12	23.07	23.11	23.07		0
	1	24	23.09	23.04	23.12		0
	12	0	23.16	23.07	23.18	0-2	0
	12	6	23.17	23.04	23.01		0
	12	13	23.16	23.20	23.02		0
	25	0	23.13	23.20	23.13		0
64QAM	1	0	23.20	23.20	23.13	0-2	0
	1	12	23.16	23.18	23.18		0
	1	24	23.15	23.10	23.17		0
	12	0	22.19	22.15	22.19	0-3	1
	12	6	22.11	22.11	22.03		1
	12	13	22.12	22.09	22.15		1
	25	0	22.17	22.14	22.11		1

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Table 9-55
LTE Band 25 (PCS) Reduced Conducted Powers – 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26055 (1851.5 MHz)	26365 (1882.5 MHz)	26675 (1913.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.16	23.06	23.14	0	0
	1	7	23.13	23.07	23.18		0
	1	14	23.15	23.06	23.16		0
	8	0	23.11	23.07	23.13	0-1	0
	8	4	23.11	23.04	23.10		0
	8	7	23.10	23.04	23.12		0
	15	0	23.10	23.07	23.13		0
16QAM	1	0	23.18	23.16	23.13	0-1	0
	1	7	23.17	23.12	23.12		0
	1	14	23.11	23.11	23.11		0
	8	0	23.14	23.07	23.13	0-2	0
	8	4	23.17	23.04	23.15		0
	8	7	23.17	23.00	23.17		0
	15	0	23.13	23.10	23.14		0
64QAM	1	0	23.06	23.08	23.04	0-2	0
	1	7	23.04	23.06	23.01		0
	1	14	23.10	23.03	23.07		0
	8	0	22.14	22.06	22.14	0-3	1
	8	4	22.03	22.03	22.13		1
	8	7	22.11	22.00	22.13		1
	15	0	22.06	22.09	22.16		1

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Table 9-56
LTE Band 25 (PCS) Reduced Conducted Powers – 1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26047 (1850.7 MHz)	26365 (1882.5 MHz)	26683 (1914.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.18	23.05	23.14	0	0
	1	2	23.15	23.05	23.17		0
	1	5	23.16	23.08	23.15		0
	3	0	23.15	23.04	23.06		0
	3	2	23.10	23.01	23.08		0
	3	3	23.11	23.02	23.08		0
	6	0	23.13	23.06	23.16	0-1	0
16QAM	1	0	23.19	23.20	23.15	0-1	0
	1	2	23.17	23.20	23.05		0
	1	5	23.18	23.15	23.11		0
	3	0	23.03	23.16	23.02		0
	3	2	23.14	23.13	23.03		0
	3	3	23.01	23.16	23.02		0
	6	0	23.19	23.17	23.03	0-2	0
64QAM	1	0	23.03	23.08	23.11	0-2	0
	1	2	23.04	23.07	23.09		0
	1	5	23.04	23.05	23.10		0
	3	0	23.18	23.14	23.09		0
	3	2	23.20	23.08	23.03		0
	3	3	23.11	23.08	23.02		0
	6	0	22.06	22.05	22.13	0-3	1

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LTE Band 41

Table 9-57
LTE Band 41 PC3 Maximum Conducted Powers - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.57	24.38	24.39	24.38	24.47	0	0
	1	50	24.62	24.46	24.49	24.46	24.60		0
	1	99	24.52	24.38	24.40	24.39	24.56		0
	50	0	24.03	23.98	23.97	24.00	24.11	0-1	1
	50	25	24.13	24.01	24.01	24.03	24.16		1
	50	50	24.17	23.99	23.99	23.99	24.15		1
	100	0	24.08	23.96	23.98	23.97	24.11		1
16QAM	1	0	23.74	23.68	23.87	23.63	23.70	0-1	1
	1	50	23.83	23.76	23.96	23.68	23.81		1
	1	99	23.75	23.70	23.85	23.65	23.78		1
	50	0	23.02	22.97	22.92	22.97	23.10	0-2	2
	50	25	23.14	22.98	22.94	23.02	23.12		2
	50	50	23.19	22.96	22.90	22.99	23.11		2
	100	0	23.07	22.94	22.94	22.96	23.06		2
64QAM	1	0	23.03	22.88	23.08	22.88	22.95	0-2	2
	1	50	23.10	22.95	23.17	22.96	23.07		2
	1	99	23.00	22.87	23.06	22.89	23.05		2
	50	0	22.03	21.97	21.88	22.00	22.10	0-3	3
	50	25	22.16	22.01	21.94	22.04	22.13		3
	50	50	22.20	21.98	21.89	21.99	22.12		3
	100	0	22.09	21.93	21.91	21.94	22.06		3

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Table 9-58
LTE Band 41 PC3 Maximum Conducted Powers - 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.52	24.45	24.27	24.41	24.49	0	0
	1	36	24.62	24.55	24.44	24.55	24.71		0
	1	74	24.49	24.38	24.30	24.42	24.62		0
	36	0	24.02	23.97	23.85	23.95	24.11	0-1	1
	36	18	24.10	24.00	23.89	24.00	24.16		1
	36	37	24.04	23.98	23.86	23.98	24.19		1
16QAM	75	0	24.05	23.94	23.87	23.95	24.15	0-1	1
	1	0	23.88	23.70	23.69	23.45	23.86		1
	1	36	23.98	23.82	23.81	23.59	24.05		1
	1	74	23.82	23.68	23.67	23.45	23.97	0-2	1
	36	0	22.97	23.02	22.81	22.98	23.06		2
	36	18	23.03	23.06	22.85	23.06	23.13		2
	36	37	23.02	23.03	22.84	23.00	23.11		2
	75	0	23.02	22.93	22.80	22.91	23.06		2
64QAM	1	0	22.95	23.08	22.69	22.55	22.89	0-2	2
	1	36	23.02	23.18	22.82	22.68	23.07		2
	1	74	22.85	23.06	22.67	22.58	22.98		2
	36	0	21.94	21.97	21.78	21.91	22.03	0-3	3
	36	18	22.00	22.03	21.83	21.95	22.08		3
	36	37	22.01	21.98	21.84	21.91	22.07		3
	75	0	21.99	21.92	21.83	21.91	22.04		3

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Table 9-59
LTE Band 41 PC3 Maximum Conducted Powers - 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.66	24.71	24.64	24.44	24.67	0	0
	1	25	24.64	24.71	24.67	24.50	24.73		0
	1	49	24.60	24.66	24.63	24.47	24.72		0
	25	0	23.92	24.14	23.99	23.99	24.05	0-1	1
	25	12	24.00	24.09	23.99	24.01	24.07		1
	25	25	24.05	24.10	24.01	23.97	24.11		1
16QAM	50	0	24.02	24.20	24.03	24.04	24.08	0-1	1
	1	0	23.68	23.67	23.65	23.81	23.67		1
	1	25	23.67	23.67	23.72	23.86	23.73		1
	1	49	23.65	23.65	23.63	23.85	23.74	0-2	1
	25	0	22.93	23.07	23.02	23.02	23.09		2
	25	12	23.02	23.05	23.05	23.04	23.08		2
	25	25	23.05	23.06	23.06	23.02	23.13		2
	50	0	22.99	23.06	23.00	22.99	23.01		2
64QAM	1	0	23.10	22.83	23.13	22.82	23.03	0-2	2
	1	25	23.15	22.81	23.12	22.85	23.08		2
	1	49	23.10	22.79	23.16	22.85	23.09		2
	25	0	21.84	22.12	21.92	21.92	21.95	0-3	3
	25	12	21.89	22.11	21.94	21.96	21.95		3
	25	25	21.95	22.09	21.97	21.92	22.00		3
	50	0	21.83	22.08	21.99	21.92	21.94		3

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Table 9-60
LTE Band 41 PC3 Maximum Conducted Powers - 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.78	24.64	24.63	24.43	24.64	0	0
	1	12	24.78	24.64	24.69	24.40	24.67		0
	1	24	24.80	24.61	24.63	24.44	24.67		0
	12	0	24.09	24.12	24.01	23.95	24.08	0-1	1
	12	6	24.10	24.06	23.99	23.95	24.04		1
	12	13	24.07	24.03	23.98	23.96	24.02		1
16QAM	25	0	24.08	24.04	24.00	23.98	24.05	0-1	1
	1	0	24.02	23.91	24.16	23.56	24.12		1
	1	12	24.14	23.90	24.16	23.60	24.18		1
	1	24	24.13	23.88	24.13	23.60	24.15	0-2	1
	12	0	23.02	23.02	22.94	23.02	22.99		2
	12	6	23.00	23.06	22.91	23.00	22.94		2
	12	13	23.02	23.02	22.94	23.01	22.94		2
	25	0	23.04	23.07	23.02	22.97	22.95		2
64QAM	1	0	22.95	23.01	22.87	23.06	22.81	0-2	2
	1	12	22.94	23.01	22.89	23.04	22.87		2
	1	24	22.93	22.99	22.86	23.06	22.86		2
	12	0	22.05	22.08	21.99	21.90	22.00	0-3	3
	12	6	22.05	22.08	21.97	21.89	21.98		3
	12	13	22.04	22.02	21.97	21.89	21.95		3
	25	0	22.02	22.06	21.95	21.92	21.94		3

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Table 9-61
LTE Band 41 PC3 Reduced Conducted Powers – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.20	24.13	24.04	24.08	23.94	0	0
	1	50	24.12	24.18	24.15	24.09	24.08		0
	1	99	24.11	24.12	24.09	23.93	24.11		0
	50	0	24.20	24.14	24.10	24.10	24.07	0-1	0
	50	25	24.10	24.16	24.13	24.06	24.08		0
	50	50	24.10	24.18	24.13	24.08	24.07		0
	100	0	24.15	24.14	24.06	24.01	24.01		0
16QAM	1	0	24.15	24.18	23.98	24.01	23.81	0-1	0
	1	50	24.19	24.16	24.14	24.02	24.03		0
	1	99	24.13	24.16	24.08	23.90	24.04		0
	50	0	23.10	23.19	23.09	22.98	23.06	0-2	1
	50	25	23.19	23.18	23.09	23.03	23.10		1
	50	50	23.19	23.20	23.04	23.02	23.11		1
	100	0	23.13	23.15	23.05	23.03	23.06		1
64QAM	1	0	22.77	22.75	22.70	22.66	22.56	0-2	1
	1	50	22.94	22.84	22.76	22.65	22.69		1
	1	99	22.90	22.61	22.68	22.56	22.62		1
	50	0	22.13	22.16	22.19	22.09	22.05	0-3	2
	50	25	22.20	22.13	22.11	22.11	22.11		2
	50	50	22.19	22.17	22.15	22.08	22.12		2
	100	0	22.15	22.13	22.03	22.00	22.10		2

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Table 9-62
LTE Band 41 PC3 Reduced Conducted Powers – 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.16	24.14	24.07	24.09	23.96	0	0
	1	36	24.18	24.11	24.11	24.13	24.11		0
	1	74	24.16	24.08	24.07	24.11	24.13		0
	36	0	24.10	23.94	24.01	24.01	24.05	0-1	0
	36	18	24.18	23.97	24.07	24.07	24.13		0
	36	37	24.16	23.95	24.04	24.04	24.15		0
	75	0	24.15	23.93	24.03	24.05	24.13		0
16QAM	1	0	24.09	24.02	24.15	23.85	24.12	0-1	0
	1	36	24.20	24.15	24.18	23.96	24.20		0
	1	74	24.05	23.98	24.16	23.85	24.12		0
	36	0	23.06	22.99	22.96	23.07	23.02	0-2	1
	36	18	23.17	23.05	23.02	23.13	23.06		1
	36	37	23.16	23.01	23.01	23.07	23.09		1
	75	0	23.16	22.88	22.98	23.01	23.05		1
64QAM	1	0	23.09	23.06	22.87	22.64	22.83	0-2	1
	1	36	23.16	23.16	23.00	22.79	23.05		1
	1	74	22.99	23.03	22.84	22.67	22.95		1
	36	0	22.08	21.95	21.95	21.96	22.01	0-3	2
	36	18	22.13	21.99	22.00	22.03	22.05		2
	36	37	22.13	21.97	21.97	21.98	22.06		2
	75	0	22.15	21.88	21.98	21.98	22.01		2

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Table 9-63
LTE Band 41 PC3 Reduced Conducted Powers – 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.17	24.19	24.13	24.10	24.03	0	0
	1	25	24.20	24.17	24.05	24.14	24.08		0
	1	49	24.15	24.05	24.11	24.13	24.09		0
	25	0	23.88	24.03	24.08	24.05	24.13	0-1	0
	25	12	23.94	24.06	24.10	24.08	24.11		0
	25	25	24.00	24.12	24.11	24.08	24.14		0
16QAM	50	0	23.95	24.17	24.12	24.14	24.17	0	
	1	0	23.91	24.15	24.07	24.01	24.03	0-1	0
	1	25	23.90	24.12	24.14	24.01	24.09		0
	1	49	23.89	24.08	24.07	24.02	24.12		0
	25	0	22.88	23.20	23.09	23.09	23.14	0-2	1
	25	12	22.96	23.19	23.13	23.11	23.11		1
	25	25	22.99	23.20	23.14	23.11	23.18		1
	50	0	22.96	23.19	23.09	23.10	23.09	1	
64QAM	1	0	23.11	22.99	23.16	22.88	23.09	0-2	1
	1	25	23.15	22.96	23.17	22.95	23.07		1
	1	49	23.12	22.95	23.09	22.93	23.20		1
	25	0	22.18	22.03	22.02	21.99	22.02	0-3	2
	25	12	22.15	22.04	22.05	22.01	22.02		2
	25	25	22.19	22.01	22.03	22.01	22.06		2
	50	0	22.20	22.02	22.06	22.07	22.04		2

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Table 9-64
LTE Band 41 PC3 Reduced Conducted Powers – 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.16	24.19	24.07	24.11	24.06	0	0
	1	12	24.14	24.13	24.05	24.12	24.11		0
	1	24	24.16	24.15	24.13	24.13	24.11		0
	12	0	23.96	24.02	24.12	24.07	23.88	0-1	0
	12	6	23.97	24.00	24.09	24.06	23.87		0
	12	13	23.97	23.98	24.13	24.09	23.88		0
16QAM	25	0	23.97	24.01	24.15	24.11	23.89	0-1	0
	1	0	24.11	24.17	24.18	24.02	24.08		0
	1	12	24.13	24.16	24.18	24.03	24.14		0
	1	24	24.12	24.14	24.19	24.03	24.05	0-2	0
	12	0	23.13	22.99	23.09	23.15	23.08		1
	12	6	23.15	23.19	23.05	23.12	23.05		1
64QAM	12	13	23.14	23.19	23.04	23.16	23.04	0-2	1
	25	0	23.18	23.15	23.09	23.13	23.06		1
	1	0	23.08	23.16	23.01	23.17	22.92		0-2
	1	12	23.08	23.16	23.03	23.18	22.97	1	
	1	24	23.07	23.14	22.98	23.02	22.96	0-3	
	12	0	22.18	22.06	22.13	22.02	22.09		2
12	6	22.18	22.01	22.09	22.01	22.07	2		
64QAM	12	13	22.19	22.10	22.08	22.02	22.07	0-3	2
	25	0	22.14	22.03	22.08	22.07	22.06		2

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Table 9-65
LTE Band 41 PC2 Maximum Conducted Powers - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	26.44	26.17	26.23	26.16	26.23	0	0
	1	50	26.52	26.27	26.33	26.26	26.38		0
	1	99	26.31	26.17	26.24	26.19	26.33		0
	50	0	25.99	25.98	25.95	25.82	26.00	0-1	1
	50	25	26.13	25.99	25.98	25.88	26.01		1
	50	50	26.20	25.99	25.96	25.85	25.99		1
	100	0	26.11	25.94	25.95	25.82	25.95		1

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Table 9-66
LTE Band 41 PC2 Reduced Conducted Powers – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	26.30	26.20	26.21	26.12	26.20	0	0
	1	50	26.56	26.14	26.33	26.13	26.28		0
	1	99	26.41	26.04	26.22	26.03	26.17		0
	50	0	26.46	26.31	26.34	26.16	26.37	0-1	0
	50	25	26.61	26.24	26.38	26.22	26.38		0
	50	50	26.70	26.23	26.34	26.15	26.34		0
	100	0	26.55	26.20	26.30	26.14	26.32		0

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9.4.9 LTE Uplink Carrier Aggregation Conducted Powers

Table 9-67
LTE B41 Uplink Carrier Aggregation Maximum Conducted Powers

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	39750	2506.0	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	24.40	24.52
Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	39750	2506.0	QPSK	1	99	LTE B41 PC2	20	39948	2525.8	QPSK	1	0	26.54	26.31

Table 9-68
LTE B41 Uplink Carrier Aggregation Reduced Conducted Powers

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	39750	2506.0	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	24.00	24.11
CA_41C	LTE B41	20	40185	2549.5	QPSK	50	50	LTE B41	20	40383	2569.3	QPSK	50	0	24.10	24.18
Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	39750	2506.0	QPSK	1	99	LTE B41 PC2	20	39948	2525.8	QPSK	1	0	26.03	26.41
CA_41C	LTE B41 PC2	20	40185	2549.5	QPSK	50	50	LTE B41 PC2	20	40383	2569.3	QPSK	50	0	26.00	26.23

Notes:

- This device supports uplink carrier aggregation for LTE CA_41C with a maximum of two component carriers. For intraband contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
- Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.



Figure 9-4
Power Measurement Setup

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9.5 NR Conducted Powers

9.5.1 NR Band n71

Table 9-69
NR Band n71 Maximum Conducted Powers - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.36	0	0.0
	1	53	25.40		0.0
	1	104	25.32		0.0
	50	0	25.33	0-0.5	0.0
	50	28	25.42	0	0.0
	50	56	25.30	0-0.5	0.0
	100	0	25.45		0.0
DFT-s-OFDM QPSK	1	1	25.33	0	0.0
	1	53	25.36		0.0
	1	104	25.29		0.0
	50	0	25.33	0-1	0.0
	50	28	25.46	0	0.0
	50	56	25.44	0-1	0.0
	100	0	25.35		0.0
DFT-s-OFDM 16QAM	1	1	24.07	0-1	1.0
CP-OFDM QPSK	1	1	23.91	0-1.5	1.5

Note: NR Band n71 at 20 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 9-70
NR Band n71 Maximum Conducted Powers - 15 MHz Bandwidth
NR Band n71
15 MHz Bandwidth

NR Band n71 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.31	0	0.0
	1	40	25.30		0.0
	1	77	25.21		0.0
	36	0	25.36	0-0.5	0.0
	36	22	25.35	0	0.0
	36	43	25.23	0-0.5	0.0
	75	0	25.35		0.0
DFT-s-OFDM QPSK	1	1	25.26	0	0.0
	1	40	25.28		0.0
	1	77	25.12		0.0
	36	0	25.35	0-1	0.0
	36	22	25.42	0	0.0
	36	43	25.31	0-1	0.0
	75	0	25.40		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	24.05	0-1	1.0
	1	1	23.82	0-1.5	1.5

Note: NR Band n71 at 15 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 9-71
NR Band n71 Maximum Conducted Powers - 10 MHz Bandwidth

NR Band n71 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	133600 (668 MHz)	136100 (680.5 MHz)	138600 (693 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.62	25.25	25.23	0	0.0
	1	26	25.60	25.36	25.24		0.0
	1	50	25.46	25.25	25.43		0.0
	25	0	25.50	25.34	25.26	0-0.5	0.0
	25	14	25.53	25.32	25.31	0	0.0
	25	27	25.55	25.31	25.22	0-0.5	0.0
	50	0	25.48	25.33	25.24		0.0
DFT-s-OFDM QPSK	1	1	25.46	25.29	25.13	0	0.0
	1	26	25.47	25.27	25.23		0.0
	1	50	25.43	25.24	25.31		0.0
	25	0	25.39	25.38	25.34	0-1	0.0
	25	14	25.51	25.33	25.39	0	0.0
	25	27	25.52	25.37	25.31	0-1	0.0
	50	0	25.44	25.39	25.37		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	24.09	24.05	24.16	0-1	1.0
	1	1	23.94	23.88	23.88	0-1.5	1.5

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Table 9-72
NR Band n71 Maximum Conducted Powers - 5 MHz Bandwidth

NR Band n71 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	133100 (665.5 MHz)	136100 (680.5 MHz)	139100 (695.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.65	25.38	25.29	0	0.0
	1	13	25.55	25.31	25.27		0.0
	1	23	25.49	25.26	25.31		0.0
	12	0	25.50	25.39	25.22	0-0.5	0.0
	12	7	25.49	25.39	25.28	0	0.0
	12	13	25.46	25.31	25.32	0-0.5	0.0
	25	0	25.49	25.32	25.24		0.0
DFT-s-OFDM QPSK	1	1	25.53	25.31	25.23	0	0.0
	1	13	25.42	25.30	25.26		0.0
	1	23	25.40	25.19	25.32		0.0
	12	0	25.46	25.43	25.34	0-1	0.0
	12	7	25.44	25.36	25.35	0	0.0
	12	13	25.39	25.32	25.35	0-1	0.0
	25	0	25.42	25.32	25.29		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	24.16	24.04	24.27	0-1	1.0
	1	1	24.01	23.91	23.95	0-1.5	1.5

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9.5.2

NR Band n66 (AWS)

Table 9-73

NR Band n66 (AWS) SA Antenna 2 Maximum Conducted Powers - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.61	0	0.0
	1	108	25.08		0.0
	1	214	24.70		0.0
	108	0	24.92	0-0.5	0.0
	108	54	25.08	0	0.0
	108	108	25.02	0-0.5	0.0
	216	0	24.93		0.0
DFT-s-OFDM QPSK	1	1	24.67	0	0.0
	1	108	25.19		0.0
	1	214	24.63		0.0
	108	0	24.95	0-1	0.0
	108	54	25.04	0	0.0
	108	108	25.02	0-1	0.0
	216	0	24.90		0.0
DFT-s-OFDM 16QAM	1	1	23.45	0-1	1.0
CP-OFDM QPSK	1	1	23.15	0-1.5	1.5

Note: NR Band n66 at 40 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-74
NR Band n66 (AWS) SA Antenna 2 Maximum Conducted Powers - 20 MHz Bandwidth

NR Band n66 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.08	25.04	24.85	0	0.0
	1	53	25.20	25.13	24.96		0.0
	1	104	25.19	25.16	25.00		0.0
	50	0	25.03	24.94	25.02	0-0.5	0.0
	50	28	25.20	25.12	25.04	0	0.0
	50	56	25.18	25.09	25.01	0-0.5	0.0
	100	0	25.13	25.10	25.05		0.0
DFT-s-OFDM QPSK	1	1	25.00	25.06	24.89	0	0.0
	1	53	25.20	25.13	25.04		0.0
	1	104	25.12	25.08	25.09		0.0
	50	0	24.64	25.02	25.11	0-1	0.0
	50	28	24.88	25.11	25.12	0	0.0
	50	56	24.95	25.08	25.08	0-1	0.0
	100	0	24.92	25.05	25.07		0.0
DFT-s-OFDM 16QAM	1	1	23.67	23.82	23.74	0-1	1.0
CP-OFDM QPSK	1	1	23.39	23.52	23.40	0-1.5	1.5

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Table 9-75
NR Band n66 (AWS) SA Antenna 2 Maximum Conducted Powers - 15 MHz Bandwidth

NR Band n66 15 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	343500 (1717.5 MHz)	349000 (1745 MHz)	354500 (1772.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.91	24.78	24.84	0	0.0
	1	40	25.13	25.14	25.07		0.0
	1	77	25.07	25.06	25.09		0.0
	36	0	24.87	25.07	25.03	0-0.5	0.0
	36	22	25.08	25.11	25.14	0	0.0
	36	43	25.20	25.06	25.16	0-0.5	0.0
	75	0	25.09	25.10	25.12		0.0
DFT-s-OFDM QPSK	1	1	24.83	24.88	24.90	0	0.0
	1	40	25.06	25.09	24.99		0.0
	1	77	24.93	25.04	25.00		0.0
	36	0	24.92	24.76	25.11	0-1	0.0
	36	22	25.01	24.99	25.09	0	0.0
	36	43	25.06	24.98	25.13	0-1	0.0
	75	0	25.11	24.92	25.12		0.0
DFT-s-OFDM 16QAM	1	1	23.68	23.53	23.70	0-1	1.0
CP-OFDM QPSK	1	1	23.36	23.40	23.36	0-1.5	1.5

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Table 9-76
NR Band n66 (AWS) SA Antenna 2 Maximum Conducted Powers - 10 MHz Bandwidth

NR Band n66 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	343000 (1715 MHz)	349000 (1745 MHz)	355000 (1775 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.00	24.88	24.97	0	0.0
	1	26	25.20	25.17	25.04		0.0
	1	50	25.17	25.14	25.06		0.0
	25	0	24.96	25.07	25.13	0-0.5	0.0
	25	14	25.09	25.10	24.95	0	0.0
	25	27	25.11	25.11	25.09	0-0.5	0.0
	50	0	25.08	25.06	25.06		0.0
DFT-s-OFDM QPSK	1	1	24.96	24.98	24.93	0	0.0
	1	26	25.08	25.13	25.04		0.0
	1	50	25.11	25.03	25.03		0.0
	25	0	25.00	24.93	25.09	0-1	0.0
	25	14	25.07	25.06	25.04	0	0.0
	25	27	25.10	25.12	25.07	0-1	0.0
	50	0	25.03	25.06	25.06		0.0
DFT-s-OFDM 16QAM	1	1	23.74	23.73	23.74	0-1	1.0
CP-OFDM QPSK	1	1	23.43	23.43	23.41	0-1.5	1.5

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Table 9-77
NR Band n66 (AWS) SA Antenna 2 Maximum Conducted Powers - 5 MHz Bandwidth

NR Band n66 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	342500 (1712.5 MHz)	349000 (1745 MHz)	355500 (1777.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.98	25.16	24.92	0	0.0
	1	13	24.89	25.11	25.06		0.0
	1	23	24.97	25.09	25.04		0.0
	12	0	25.07	25.05	25.04	0-0.5	0.0
	12	7	25.06	25.02	25.06	0	0.0
	12	13	25.08	25.02	25.01	0-0.5	0.0
	25	0	25.02	25.06	25.05		0.0
DFT-s-OFDM QPSK	1	1	24.99	24.98	24.77	0	0.0
	1	13	24.95	25.00	24.98		0.0
	1	23	25.06	25.09	25.05		0.0
	12	0	25.01	25.07	25.08	0-1	0.0
	12	7	25.03	25.03	25.04	0	0.0
	12	13	25.01	25.00	25.01	0-1	0.0
	25	0	25.02	25.03	25.02		0.0
DFT-s-OFDM 16QAM	1	1	23.74	23.81	23.73	0-1	1.0
CP-OFDM QPSK	1	1	23.46	23.56	23.49	0-1.5	1.5

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Table 9-78
NR Band n66 (AWS) SA Antenna 2 Reduced Conducted Powers - 40 MHz Bandwidth
NR Band n66
40 MHz Bandwidth

Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.29	0	0.0
	1	108	22.66		0.0
	1	214	22.23		0.0
	108	0	22.66	0-0.5	0.0
	108	54	22.81	0	0.0
	108	108	22.79	0-0.5	0.0
	216	0	22.72		0.0
DFT-s-OFDM QPSK	1	1	22.45	0	0.0
	1	108	23.01		0.0
	1	214	22.50		0.0
	108	0	22.84	0-1	0.0
	108	54	22.95	0	0.0
	108	108	22.90	0-1	0.0
	216	0	22.79		0.0
DFT-s-OFDM 16QAM	1	1	22.30	0-1	0.0
CP-OFDM QPSK	1	1	22.51	0-1.5	0.0

Note: NR Band n66 at 40 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-79
NR Band n66 (AWS) SA Antenna 2 Reduced Conducted Powers - 20 MHz Bandwidth

NR Band n66 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.83	22.75	22.78	0	0.0
	1	53	23.04	22.81	22.89		0.0
	1	104	22.92	22.76	22.86		0.0
	50	0	22.72	22.65	22.79	0-0.5	0.0
	50	28	22.87	22.74	22.85	0	0.0
	50	56	22.91	22.75	22.77	0-0.5	0.0
	100	0	22.89	22.79	22.82		0.0
DFT-s-OFDM QPSK	1	1	22.90	22.73	22.76	0	0.0
	1	53	23.04	22.84	22.91		0.0
	1	104	23.05	22.82	22.98		0.0
	50	0	22.79	22.83	22.93	0-1	0.0
	50	28	22.95	22.97	22.94	0	0.0
	50	56	22.99	22.94	22.96	0-1	0.0
	100	0	23.02	22.89	22.96		0.0
DFT-s-OFDM 16QAM	1	1	22.63	22.68	22.52	0-1	0.0
CP-OFDM QPSK	1	1	22.92	22.94	22.86	0-1.5	0.0

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Table 9-80
NR Band n66 (AWS) SA Antenna 2 Reduced Conducted Powers - 15 MHz Bandwidth

NR Band n66 15 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	343500 (1717.5 MHz)	349000 (1745 MHz)	354500 (1772.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.71	22.65	22.70	0	0.0
	1	40	22.92	22.82	22.60		0.0
	1	77	22.93	22.73	22.89		0.0
	36	0	22.73	22.83	22.71	0-0.5	0.0
	36	22	22.83	22.84	22.70	0	0.0
	36	43	22.88	22.79	22.78	0-0.5	0.0
	75	0	22.81	22.78	22.82		0.0
DFT-s-OFDM QPSK	1	1	22.69	22.73	22.56	0	0.0
	1	40	22.71	22.85	22.37		0.0
	1	77	22.81	22.86	22.64		0.0
	36	0	22.56	22.89	22.60	0-1	0.0
	36	22	22.59	22.92	22.44	0	0.0
	36	43	22.70	22.85	22.50	0-1	0.0
	75	0	22.52	22.93	22.51		0.0
DFT-s-OFDM 16QAM	1	1	22.56	22.66	22.57	0-1	0.0
CP-OFDM QPSK	1	1	22.76	22.80	22.75	0-1.5	0.0

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Table 9-81
NR Band n66 (AWS) SA Antenna 2 Reduced Conducted Powers - 10 MHz Bandwidth

NR Band n66 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	343000 (1715 MHz)	349000 (1745 MHz)	355000 (1775 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.63	22.57	22.82	0	0.0
	1	26	22.98	22.63	22.96		0.0
	1	50	22.99	22.74	22.91		0.0
	25	0	22.72	22.82	22.97	0-0.5	0.0
	25	14	22.93	22.50	22.93	0	0.0
	25	27	22.85	22.69	22.96	0-0.5	0.0
	50	0	22.83	22.23	22.91		0.0
DFT-s-OFDM QPSK	1	1	22.74	22.59	22.88	0	0.0
	1	26	22.90	22.44	22.94		0.0
	1	50	23.07	22.47	22.93		0.0
	25	0	22.88	22.80	22.97	0-1	0.0
	25	14	22.98	22.89	22.92	0	0.0
	25	27	22.99	22.43	22.95	0-1	0.0
	50	0	22.94	22.87	22.94		0.0
DFT-s-OFDM 16QAM	1	1	22.60	22.46	22.62	0-1	0.0
CP-OFDM QPSK	1	1	22.91	22.67	22.86	0-1.5	0.0

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Table 9-82
NR Band n66 (AWS) SA Antenna 2 Reduced Conducted Powers - 5 MHz Bandwidth

NR Band n66 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	342500 (1712.5 MHz)	349000 (1745 MHz)	355500 (1777.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.94	22.93	22.68	0	0.0
	1	13	22.98	22.78	22.81		0.0
	1	23	23.06	22.85	22.85		0.0
	12	0	22.90	22.79	22.85	0-0.5	0.0
	12	7	22.86	22.82	22.87	0	0.0
	12	13	22.88	22.77	22.87	0-0.5	0.0
	25	0	22.84	22.81	22.84		0.0
DFT-s-OFDM QPSK	1	1	22.84	22.87	22.88	0	0.0
	1	13	22.87	22.91	22.86		0.0
	1	23	22.92	22.89	22.91		0.0
	12	0	22.89	22.94	22.92	0-1	0.0
	12	7	22.91	22.90	22.90	0	0.0
	12	13	22.89	22.83	22.90	0-1	0.0
	25	0	22.94	22.58	22.92		0.0
DFT-s-OFDM 16QAM	1	1	22.72	22.59	22.64	0-1	0.0
CP-OFDM QPSK	1	1	22.98	22.88	22.94	0-1.5	0.0

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Table 9-83
NR Band n66 (AWS) NSA & SA Antenna 3 Maximum Conducted Powers - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.55	0	0.0
	1	108	25.07		0.0
	1	214	24.64		0.0
	108	0	25.03	0-0.5	0.0
	108	54	25.12	0	0.0
	108	108	25.08	0-0.5	0.0
	216	0	25.01		0.0
DFT-s-OFDM QPSK	1	1	24.54	0	0.0
	1	108	25.08		0.0
	1	214	24.63		0.0
	108	0	25.01	0-1	0.0
	108	54	25.08	0	0.0
	108	108	25.05	0-1	0.0
	216	0	24.96		0.0
DFT-s-OFDM 16QAM	1	1	23.57	0-1	1.0
CP-OFDM QPSK	1	1	23.46	0-1.5	1.5

Note: NR Band n66 at 40 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-84
NR Band n66 (AWS) NSA & SA Antenna 3 Maximum Conducted Powers - 20 MHz Bandwidth

NR Band n66 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.04	24.96	24.93	0	0.0
	1	53	25.09	25.07	25.01		0.0
	1	104	25.13	24.97	25.05		0.0
	50	0	24.99	25.07	25.06	0-0.5	0.0
	50	28	25.10	25.10	25.06	0	0.0
	50	56	25.06	24.96	24.97	0-0.5	0.0
	100	0	25.09	25.06	25.06		0.0
DFT-s-OFDM QPSK	1	1	24.96	24.95	24.98	0	0.0
	1	53	25.04	25.04	25.00		0.0
	1	104	25.03	24.96	25.03		0.0
	50	0	24.97	25.08	25.05	0-1	0.0
	50	28	25.08	25.12	25.05	0	0.0
	50	56	25.06	24.99	24.96	0-1	0.0
	100	0	25.07	25.05	25.06		0.0
DFT-s-OFDM 16QAM	1	1	24.06	23.97	24.04	0-1	1.0
CP-OFDM QPSK	1	1	23.70	23.70	23.69	0-1.5	1.5

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Table 9-85
NR Band n66 (AWS) NSA & SA Antenna 3 Maximum Conducted Powers - 15 MHz Bandwidth

NR Band n66 15 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	343500 (1717.5 MHz)	349000 (1745 MHz)	354500 (1772.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.94	24.88	24.88	0	0.0
	1	40	25.08	24.96	24.95		0.0
	1	77	25.05	24.97	24.98		0.0
	36	0	25.03	25.07	25.09	0-0.5	0.0
	36	22	24.98	25.06	25.03	0	0.0
	36	43	25.02	25.02	25.07	0-0.5	0.0
	75	0	25.03	25.00	25.04		0.0
DFT-s-OFDM QPSK	1	1	24.86	24.89	24.94	0	0.0
	1	40	25.00	24.95	24.94		0.0
	1	77	24.95	24.91	25.02		0.0
	36	0	25.03	25.09	25.10	0-1	0.0
	36	22	25.10	25.10	25.02	0	0.0
	36	43	25.04	25.04	25.08	0-1	0.0
	75	0	24.98	25.01	25.06		0.0
DFT-s-OFDM 16QAM	1	1	23.94	23.93	23.95	0-1	1.0
CP-OFDM QPSK	1	1	23.70	23.61	23.70	0-1.5	1.5

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Table 9-86
NR Band n66 (AWS) NSA & SA Antenna 3 Maximum Conducted Powers - 10 MHz Bandwidth

NR Band n66 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	343000 (1715 MHz)	349000 (1745 MHz)	355000 (1775 MHz)		
Conducted Power [dBm]							
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.97	24.96	24.95	0	0.0
	1	26	25.03	25.06	24.99		0.0
	1	50	25.06	25.08	25.01		0.0
	25	0	25.00	25.09	25.10	0-0.5	0.0
	25	14	25.04	25.08	25.03	0	0.0
	25	27	25.09	25.10	25.06	0-0.5	0.0
	50	0	25.05	25.11	25.05		0.0
DFT-s-OFDM QPSK	1	1	24.96	24.92	24.90	0	0.0
	1	26	24.98	25.02	24.99		0.0
	1	50	25.05	25.01	25.00		0.0
	25	0	25.04	25.08	25.06	0-1	0.0
	25	14	25.07	25.10	24.99	0	0.0
	25	27	25.08	25.06	25.05	0-1	0.0
	50	0	25.06	25.05	25.04		0.0
DFT-s-OFDM 16QAM	1	1	24.02	24.00	23.97	0-1	1.0
CP-OFDM QPSK	1	1	23.69	23.70	23.70	0-1.5	1.5

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Table 9-87
NR Band n66 (AWS) NSA & SA Antenna 3 Maximum Conducted Powers - 5 MHz Bandwidth

NR Band n66 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	342500 (1712.5 MHz)	349000 (1745 MHz)	355500 (1777.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.94	25.00	24.95	0	0.0
	1	13	24.99	25.02	24.94		0.0
	1	23	25.00	24.99	25.07		0.0
	12	0	25.06	25.08	25.08	0-0.5	0.0
	12	7	25.04	25.01	25.02	0	0.0
	12	13	25.04	25.02	25.05	0-0.5	0.0
	25	0	25.01	24.97	25.03		0.0
DFT-s-OFDM QPSK	1	1	24.96	24.91	24.96	0	0.0
	1	13	24.93	24.99	24.97		0.0
	1	23	24.86	24.93	25.03		0.0
	12	0	25.04	25.04	25.06	0-1	0.0
	12	7	25.04	25.00	25.02	0	0.0
	12	13	25.03	24.96	25.02	0-1	0.0
	25	0	25.00	24.99	25.01		0.0
DFT-s-OFDM 16QAM	1	1	24.03	23.95	24.01	0-1	1.0
CP-OFDM QPSK	1	1	23.70	23.69	23.70	0-1.5	1.5

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Table 9-88
NR Band n66 (AWS) NSA & SA Antenna 3 Reduced Conducted Powers - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.86	0	0.0
	1	108	23.17		0.0
	1	214	22.78		0.0
	108	0	23.11	0-0.5	0.0
	108	54	23.17	0	0.0
	108	108	23.16	0-0.5	0.0
	216	0	23.01		0.0
DFT-s-OFDM QPSK	1	1	22.64	0	0.0
	1	108	23.06		0.0
	1	214	22.72		0.0
	108	0	23.06	0-1	0.0
	108	54	23.14	0	0.0
	108	108	23.10	0-1	0.0
	216	0	23.00		0.0
DFT-s-OFDM 16QAM	1	1	22.42	0-1	0.0
CP-OFDM QPSK	1	1	22.84	0-1.5	0.0

Note: NR Band n66 at 40 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-89
NR Band n66 (AWS) NSA & SA Antenna 3 Reduced Conducted Powers - 20 MHz Bandwidth

NR Band n66 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.10	23.03	23.04	0	0.0
	1	53	23.19	23.13	23.13		0.0
	1	104	23.18	23.08	23.13		0.0
	50	0	23.04	23.14	23.10	0-0.5	0.0
	50	28	23.13	23.15	23.12	0	0.0
	50	56	23.12	23.03	23.05	0-0.5	0.0
	100	0	23.14	23.11	23.11		0.0
DFT-s-OFDM QPSK	1	1	22.99	23.01	23.05	0	0.0
	1	53	23.00	23.05	23.02		0.0
	1	104	23.10	23.03	23.04		0.0
	50	0	23.05	23.12	23.11	0-1	0.0
	50	28	23.16	23.15	23.10	0	0.0
	50	56	23.11	23.06	23.03	0-1	0.0
	100	0	23.14	23.14	23.12		0.0
DFT-s-OFDM 16QAM	1	1	22.83	22.82	22.77	0-1	0.0
CP-OFDM QPSK	1	1	22.76	22.97	23.14	0-1.5	0.0

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Table 9-90
NR Band n66 (AWS) NSA & SA Antenna 3 Reduced Conducted Powers - 15 MHz Bandwidth

NR Band n66 15 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	343500 (1717.5 MHz)	349000 (1745 MHz)	354500 (1772.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.03	22.92	23.00	0	0.0
	1	40	23.15	23.02	23.03		0.0
	1	77	23.07	23.05	23.06		0.0
	36	0	23.10	23.14	23.20	0-0.5	0.0
	36	22	23.16	23.09	23.13	0	0.0
	36	43	23.17	23.10	23.05	0-0.5	0.0
	75	0	23.11	23.12	23.11		0.0
DFT-s-OFDM QPSK	1	1	22.99	22.90	22.96	0	0.0
	1	40	23.01	23.08	23.00		0.0
	1	77	22.96	22.96	22.94		0.0
	36	0	23.08	23.13	23.14	0-1	0.0
	36	22	23.14	23.15	23.09	0	0.0
	36	43	23.14	23.12	23.10	0-1	0.0
	75	0	23.06	23.10	23.04		0.0
DFT-s-OFDM 16QAM	1	1	22.73	22.69	22.72	0-1	0.0
CP-OFDM QPSK	1	1	23.01	23.02	23.04	0-1.5	0.0

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Table 9-91
NR Band n66 (AWS) NSA & SA Antenna 3 Reduced Conducted Powers - 10 MHz Bandwidth

NR Band n66 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	343000 (1715 MHz)	349000 (1745 MHz)	355000 (1775 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.04	23.02	23.06	0	0.0
	1	26	23.18	23.08	23.09		0.0
	1	50	23.20	23.13	23.18		0.0
	25	0	23.13	23.16	23.12	0-0.5	0.0
	25	14	23.12	23.10	23.11	0	0.0
	25	27	23.16	23.13	23.09	0-0.5	0.0
	50	0	23.17	23.12	23.07		0.0
DFT-s-OFDM QPSK	1	1	22.97	22.97	22.92	0	0.0
	1	26	23.03	23.05	23.03		0.0
	1	50	23.08	23.10	23.03		0.0
	25	0	23.06	23.13	23.15	0-1	0.0
	25	14	23.13	23.14	23.10	0	0.0
	25	27	23.18	23.15	23.12	0-1	0.0
	50	0	23.16	23.14	23.11		0.0
DFT-s-OFDM 16QAM	1	1	22.78	22.71	22.75	0-1	0.0
CP-OFDM QPSK	1	1	23.11	23.03	23.02	0-1.5	0.0

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Table 9-92
NR Band n66 (AWS) NSA & SA Antenna 3 Reduced Conducted Powers - 5 MHz Bandwidth

NR Band n66 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	342500 (1712.5 MHz)	349000 (1745 MHz)	355500 (1777.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.12	23.13	23.06	0	0.0
	1	13	23.14	23.10	23.19		0.0
	1	23	23.15	23.07	23.08		0.0
	12	0	23.18	23.20	23.17	0-0.5	0.0
	12	7	23.17	23.13	23.13	0	0.0
	12	13	23.19	23.13	23.12	0-0.5	0.0
	25	0	23.16	23.12	23.09		0.0
DFT-s-OFDM QPSK	1	1	23.05	23.00	23.04	0	0.0
	1	13	23.00	23.03	23.06		0.0
	1	23	23.04	23.06	23.03		0.0
	12	0	23.13	23.15	23.10	0-1	0.0
	12	7	23.15	23.10	23.07	0	0.0
	12	13	23.12	23.10	23.08	0-1	0.0
	25	0	23.13	23.13	23.10		0.0
DFT-s-OFDM 16QAM	1	1	22.83	22.82	22.75	0-1	0.0
CP-OFDM QPSK	1	1	23.13	23.08	23.06	0-1.5	0.0

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9.5.3

NR Band n25 (PCS)

Table 9-93

NR Band n25 (PCS) SA Antenna 2 Maximum Conducted Powers - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.55	0	0.0
	1	108	25.03		0.0
	1	214	24.57		0.0
	108	0	24.95	0-0.5	0.0
	108	54	25.02	0	0.0
	108	108	25.01	0-0.5	0.0
	216	0	25.02		0.0
DFT-s-OFDM QPSK	1	1	24.50	0	0.0
	1	108	25.01		0.0
	1	214	24.52		0.0
	108	0	24.93	0-1	0.0
	108	54	25.02	0	0.0
	108	108	25.01	0-1	0.0
	216	0	25.00		0.0
DFT-s-OFDM 16QAM	1	1	23.29	0-1	1.0
CP-OFDM QPSK	1	1	23.02	0-1.5	1.5

Note: NR Band n25 at 40 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-94
NR Band n25 (PCS) SA Maximum Conducted Powers - 30 MHz Bandwidth

NR Band n25 30 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.70	0	0.0
	1	80	25.03		0.0
	1	158	24.71		0.0
	80	0	24.98	0-0.5	0.0
	80	40	24.95	0	0.0
	80	80	24.92	0-0.5	0.0
	160	0	24.96		0.0
DFT-s-OFDM QPSK	1	1	24.63	0	0.0
	1	80	24.99		0.0
	1	158	24.62		0.0
	80	0	24.95	0-1	0.0
	80	40	24.94	0	0.0
	80	80	24.91	0-1	0.0
	160	0	24.92		0.0
DFT-s-OFDM 16QAM	1	1	23.40	0-1	1.0
CP-OFDM QPSK	1	1	23.12	0-1.5	1.5

Note: NR Band n25 at 30 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-95
NR Band n25 (PCS) SA Antenna 2 Maximum Conducted Powers - 25 MHz Bandwidth
NR Band n25
25 MHz Bandwidth

Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.84	0	0.0
	1	67	24.97		0.0
	1	131	24.83		0.0
	64	0	24.95	0-0.5	0.0
	64	35	24.93	0	0.0
	64	69	24.91	0-0.5	0.0
	128	0	24.97		0.0
DFT-s-OFDM QPSK	1	1	24.81	0	0.0
	1	67	24.96		0.0
	1	131	24.81		0.0
	64	0	24.95	0-1	0.0
	64	35	24.93	0	0.0
	64	69	24.91	0-1	0.0
	128	0	24.96		0.0
DFT-s-OFDM 16QAM	1	1	23.58	0-1	1.0
CP-OFDM QPSK	1	1	23.27	0-1.5	1.5

Note: NR Band n25 at 25 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-96
NR Band n25 (PCS) SA Antenna 2 Maximum Conducted Powers - 20 MHz Bandwidth

NR Band n25 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	372000 (1860 MHz)	376500 (1882.5 MHz)	381000 (1905 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.86	24.91	24.78	0	0.0
	1	53	24.97	24.98	25.02		0.0
	1	104	24.98	24.93	25.09		0.0
	50	0	24.91	24.97	24.94	0-0.5	0.0
	50	28	24.94	24.98	24.97	0	0.0
	50	56	24.95	25.00	24.92	0-0.5	0.0
	100	0	24.93	24.97	24.97		0.0
DFT-s-OFDM QPSK	1	1	24.81	24.86	24.72	0	0.0
	1	53	24.92	24.91	24.95		0.0
	1	104	24.94	24.85	25.01		0.0
	50	0	24.88	24.98	25.03	0-1	0.0
	50	28	24.92	24.97	24.98	0	0.0
	50	56	24.96	25.01	24.93	0-1	0.0
	100	0	24.91	24.96	24.97		0.0
DFT-s-OFDM 16QAM	1	1	23.55	23.61	23.48	0-1	1.0
CP-OFDM QPSK	1	1	23.29	23.33	23.27	0-1.5	1.5

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Table 9-97
NR Band n25 (PCS) SA Antenna 2 Maximum Conducted Powers - 15 MHz Bandwidth

NR Band n25 15 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	371500 (1857.5 MHz)	376500 (1882.5 MHz)	381500 (1907.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.83	24.83	24.77	0	0.0
	1	40	24.94	24.85	24.93		0.0
	1	77	24.82	24.84	25.08		0.0
	36	0	24.96	24.94	25.11	0-0.5	0.0
	36	22	24.94	24.93	25.04	0	0.0
	36	43	24.95	24.92	24.97	0-0.5	0.0
	75	0	24.97	24.95	24.96		0.0
DFT-s-OFDM QPSK	1	1	24.74	24.76	24.73	0	0.0
	1	40	24.91	24.78	24.90		0.0
	1	77	24.78	24.76	24.88		0.0
	36	0	24.90	24.96	25.01	0-1	0.0
	36	22	24.95	24.94	24.95	0	0.0
	36	43	24.90	24.95	25.02	0-1	0.0
	75	0	24.97	24.96	24.98		0.0
DFT-s-OFDM 16QAM	1	1	23.50	23.57	23.46	0-1	1.0
CP-OFDM QPSK	1	1	23.24	23.29	23.18	0-1.5	1.5

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Table 9-98
NR Band n25 (PCS) SA Antenna 2 Maximum Conducted Powers - 10 MHz Bandwidth

NR Band n25 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	371000 (1855 MHz)	376500 (1882.5 MHz)	382000 (1910 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.83	24.67	24.54	0	0.0
	1	26	24.92	24.82	24.82		0.0
	1	50	24.88	24.80	24.90		0.0
	25	0	24.89	24.93	24.96	0-0.5	0.0
	25	14	24.95	24.90	24.93	0	0.0
	25	27	24.63	24.93	24.99	0-0.5	0.0
	50	0	24.74	24.89	24.86		0.0
DFT-s-OFDM QPSK	1	1	24.35	24.75	24.68	0	0.0
	1	26	24.66	24.83	24.95		0.0
	1	50	24.70	24.81	24.99		0.0
	25	0	24.78	24.92	24.96	0-1	0.0
	25	14	24.84	24.91	24.94	0	0.0
	25	27	24.86	24.90	25.02	0-1	0.0
	50	0	24.87	24.86	24.90		0.0
DFT-s-OFDM 16QAM	1	1	23.44	23.50	23.57	0-1	1.0
CP-OFDM QPSK	1	1	23.21	23.28	23.29	0-1.5	1.5

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Table 9-99
NR Band n25 (PCS) SA Antenna 2 Maximum Conducted Powers - 5 MHz Bandwidth

NR Band n25 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	370500 (1852.5 MHz)	376500 (1882.5 MHz)	382500 (1912.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.71	24.58	24.84	0	0.0
	1	13	24.85	24.67	24.94		0.0
	1	23	24.87	24.74	25.10		0.0
	12	0	24.85	24.72	24.90	0-0.5	0.0
	12	7	24.86	24.77	24.98	0	0.0
	12	13	24.85	24.75	25.01	0-0.5	0.0
	25	0	24.86	24.74	24.91		0.0
DFT-s-OFDM QPSK	1	1	24.83	24.82	24.83	0	0.0
	1	13	24.89	24.79	24.99		0.0
	1	23	24.84	24.80	24.96		0.0
	12	0	24.88	24.85	24.94	0-1	0.0
	12	7	24.82	24.81	24.96	0	0.0
	12	13	24.79	24.80	24.97	0-1	0.0
	25	0	24.84	24.58	24.88		0.0
DFT-s-OFDM 16QAM	1	1	23.53	23.52	23.58	0-1	1.0
CP-OFDM QPSK	1	1	23.35	23.35	23.38	0-1.5	1.5

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Table 9-100
NR Band n25 (PCS) SA Antenna 2 Reduced Conducted Powers - 40 MHz Bandwidth
NR Band n25
40 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.07	0	0.0
	1	108	22.60		0.0
	1	214	22.06		0.0
	108	0	22.58	0-0.5	0.0
	108	54	22.62	0	0.0
	108	108	22.61	0-0.5	0.0
	216	0	22.64		0.0
DFT-s-OFDM QPSK	1	1	22.20	0	0.0
	1	108	22.65		0.0
	1	214	22.10		0.0
	108	0	22.58	0-1	0.0
	108	54	22.65	0	0.0
	108	108	22.59	0-1	0.0
	216	0	22.64		0.0
DFT-s-OFDM 16QAM	1	1	21.93	0-1	0.0
CP-OFDM QPSK	1	1	22.36	0-1.5	0.0

Note: NR Band n25 at 40 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-101
NR Band n25 (PCS) SA Antenna 2 Reduced Conducted Powers - 30 MHz Bandwidth
NR Band n25
30 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.56	0	0.0
	1	80	23.09		0.0
	1	158	22.64		0.0
	80	0	23.01	0-0.5	0.0
	80	40	22.85	0	0.0
	80	80	22.91	0-0.5	0.0
	160	0	23.07		0.0
DFT-s-OFDM QPSK	1	1	22.64	0	0.0
	1	80	23.03		0.0
	1	158	22.67		0.0
	80	0	22.98	0-1	0.0
	80	40	22.97	0	0.0
	80	80	22.99	0-1	0.0
	160	0	22.95		0.0
DFT-s-OFDM 16QAM	1	1	22.42	0-1	0.0
CP-OFDM QPSK	1	1	22.73	0-1.5	0.0

Note: NR Band n25 at 30 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-102
NR Band n25 (PCS) SA Antenna 2 Reduced Conducted Powers - 25 MHz Bandwidth
NR Band n25
25 MHz Bandwidth

Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.71	0	0.0
	1	67	23.05		0.0
	1	131	22.96		0.0
	64	0	22.85	0-0.5	0.0
	64	35	22.98	0	0.0
	64	69	22.81	0-0.5	0.0
	128	0	23.03		0.0
DFT-s-OFDM QPSK	1	1	22.85	0	0.0
	1	67	23.01		0.0
	1	131	22.96		0.0
	64	0	23.02	0-1	0.0
	64	35	23.03	0	0.0
	64	69	23.01	0-1	0.0
	128	0	23.00		0.0
DFT-s-OFDM 16QAM	1	1	22.66	0-1	0.0
CP-OFDM QPSK	1	1	22.84	0-1.5	0.0

Note: NR Band n25 at 25 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-103
NR Band n25 (PCS) SA Antenna 2 Reduced Conducted Powers - 20 MHz Bandwidth

NR Band n25 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	372000 (1860 MHz)	376500 (1882.5 MHz)	381000 (1905 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.63	22.70	22.65	0	0.0
	1	53	22.85	22.80	22.90		0.0
	1	104	22.88	22.74	22.99		0.0
	50	0	22.76	22.73	22.97	0-0.5	0.0
	50	28	22.85	22.76	23.00	0	0.0
	50	56	22.86	22.81	22.94	0-0.5	0.0
	100	0	22.88	22.76	22.95		0.0
DFT-s-OFDM QPSK	1	1	22.82	22.72	22.70	0	0.0
	1	53	23.00	22.79	22.89		0.0
	1	104	22.95	22.80	22.98		0.0
	50	0	22.83	22.84	22.75	0-1	0.0
	50	28	22.87	22.86	23.02	0	0.0
	50	56	22.91	22.89	22.93	0-1	0.0
	100	0	22.88	22.83	22.96		0.0
DFT-s-OFDM 16QAM	1	1	22.51	22.56	22.57	0-1	0.0
CP-OFDM QPSK	1	1	22.85	22.84	22.82	0-1.5	0.0

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Table 9-104
NR Band n25 (PCS) SA Antenna 2 Reduced Conducted Powers - 15 MHz Bandwidth

NR Band n25 15 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	371500 (1857.5 MHz)	376500 (1882.5 MHz)	381500 (1907.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.61	22.58	22.57	0	0.0
	1	40	22.80	22.83	22.82		0.0
	1	77	22.69	22.60	22.83		0.0
	36	0	22.61	22.69	22.79	0-0.5	0.0
	36	22	22.74	22.87	22.76	0	0.0
	36	43	22.77	22.85	22.93	0-0.5	0.0
	75	0	22.87	22.78	22.89		0.0
DFT-s-OFDM QPSK	1	1	22.58	22.43	22.72	0	0.0
	1	40	22.73	22.59	22.85		0.0
	1	77	22.68	22.67	22.90		0.0
	36	0	22.80	22.85	23.02	0-1	0.0
	36	22	22.76	22.88	22.97	0	0.0
	36	43	22.76	22.94	23.12	0-1	0.0
	75	0	22.75	22.93	22.96		0.0
DFT-s-OFDM 16QAM	1	1	22.23	22.42	22.48	0-1	0.0
CP-OFDM QPSK	1	1	22.52	22.74	22.73	0-1.5	0.0

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Table 9-105
NR Band n25 (PCS) SA Antenna 2 Reduced Conducted Powers - 10 MHz Bandwidth

NR Band n25 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	371000 (1855 MHz)	376500 (1882.5 MHz)	382000 (1910 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.83	22.75	22.82	0	0.0
	1	26	23.01	22.91	23.02		0.0
	1	50	22.95	22.88	23.03		0.0
	25	0	22.92	22.84	23.13	0-0.5	0.0
	25	14	22.94	22.87	23.02	0	0.0
	25	27	22.98	22.95	23.09	0-0.5	0.0
	50	0	22.96	22.93	23.02		0.0
DFT-s-OFDM QPSK	1	1	22.74	22.84	22.93	0	0.0
	1	26	22.90	22.87	22.98		0.0
	1	50	22.93	22.86	23.01		0.0
	25	0	22.94	22.94	23.09	0-1	0.0
	25	14	23.01	22.88	23.06	0	0.0
	25	27	22.96	22.90	23.14	0-1	0.0
	50	0	22.95	22.91	23.00		0.0
DFT-s-OFDM 16QAM	1	1	22.54	22.58	22.69	0-1	0.0
CP-OFDM QPSK	1	1	22.88	22.90	22.87	0-1.5	0.0

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Table 9-106
NR Band n25 (PCS) SA Antenna 2 Reduced Conducted Powers - 5 MHz Bandwidth

NR Band n25 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	370500 (1852.5 MHz)	376500 (1882.5 MHz)	382500 (1912.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.80	22.90	22.90	0	0.0
	1	13	22.95	22.86	22.96		0.0
	1	23	22.94	22.94	23.01		0.0
	12	0	22.91	22.88	22.98	0-0.5	0.0
	12	7	22.88	22.83	22.87	0	0.0
	12	13	22.87	22.88	22.80	0-0.5	0.0
	25	0	22.97	22.94	22.94		0.0
DFT-s-OFDM QPSK	1	1	22.85	22.83	22.92	0	0.0
	1	13	22.94	22.86	22.93		0.0
	1	23	22.95	22.87	23.00		0.0
	12	0	22.95	22.88	22.97	0-1	0.0
	12	7	22.78	22.84	23.00	0	0.0
	12	13	22.90	22.87	23.03	0-1	0.0
	25	0	22.93	22.90	22.98		0.0
DFT-s-OFDM 16QAM	1	1	22.54	22.62	22.72	0-1	0.0
CP-OFDM QPSK	1	1	22.91	22.95	22.95	0-1.5	0.0

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Table 9-107
NR Band n25 (PCS) NSA & SA Antenna 3 Maximum Conducted Powers - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.54	0	0.0
	1	108	25.13		0.0
	1	214	24.68		0.0
	108	0	25.05	0-0.5	0.0
	108	54	25.17	0	0.0
	108	108	25.07	0-0.5	0.0
	216	0	25.03		0.0
DFT-s-OFDM QPSK	1	1	24.56	0	0.0
	1	108	25.16		0.0
	1	214	24.69		0.0
	108	0	25.03	0-1	0.0
	108	54	25.17	0	0.0
	108	108	25.08	0-1	0.0
	216	0	25.03		0.0
DFT-s-OFDM 16QAM	1	1	23.69	0-1	1.0
CP-OFDM QPSK	1	1	23.42	0-1.5	1.5

Note: NR Band n25 at 40 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-108
NR Band n25 (PCS) NSA & SA Antenna 3 Maximum Conducted Powers - 30 MHz Bandwidth

NR Band n25 30 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.79	0	0
	1	80	25.19		0
	1	158	24.82		0
	80	0	25.18	0-0.5	0
	80	40	25.20	0	0
	80	80	25.17	0-0.5	0
	160	0	25.18		0
DFT-s-OFDM QPSK	1	1	24.80	0	0
	1	80	25.16		0
	1	158	24.89		0
	80	0	25.17	0-1	0
	80	40	25.20	0	0
	80	80	25.17	0-1	0
	160	0	25.16		0
DFT-s-OFDM 16QAM	1	1	23.84	0-1	1
CP-OFDM QPSK	1	1	23.70	0-1.5	1.5

Note: NR Band n25 at 30 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-109
NR Band n25 (PCS) NSA & SA Antenna 3 Maximum Conducted Powers - 25 MHz Bandwidth

NR Band n25 25 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.03	0	0.0
	1	67	25.19		0.0
	1	131	25.13		0.0
	64	0	25.19	0-0.5	0.0
	64	35	25.20	0	0.0
	64	69	25.18	0-0.5	0.0
	128	0	25.20		0.0
DFT-s-OFDM QPSK	1	1	25.05	0	0.0
	1	67	25.20		0.0
	1	131	25.17		0.0
	64	0	25.19	0-1	0.0
	64	35	25.20	0	0.0
	64	69	25.19	0-1	0.0
	128	0	25.20		0.0
DFT-s-OFDM 16QAM	1	1	24.04	0-1	1.0
CP-OFDM QPSK	1	1	23.49	0-1.5	1.5

Note: NR Band n25 at 25 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-110
NR Band n25 (PCS) NSA & SA Antenna 3 Maximum Conducted Powers - 20 MHz Bandwidth

NR Band n25 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	372000 (1860 MHz)	376500 (1882.5 MHz)	381000 (1905 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.05	25.01	25.12	0	0.0
	1	53	25.19	25.19	25.19		0.0
	1	104	25.20	25.18	25.20		0.0
	50	0	25.20	25.18	25.18	0-0.5	0.0
	50	28	25.19	25.20	25.19	0	0.0
	50	56	25.20	25.17	25.07	0-0.5	0.0
	100	0	25.20	25.20	25.20		0.0
DFT-s-OFDM QPSK	1	1	24.98	25.09	25.18	0	0.0
	1	53	25.19	25.16	25.19		0.0
	1	104	25.14	25.15	25.20		0.0
	50	0	25.20	25.19	25.19	0-1	0.0
	50	28	25.18	25.20	25.19	0	0.0
	50	56	25.19	25.18	25.08	0-1	0.0
	100	0	25.20	25.19	25.18		0.0
DFT-s-OFDM 16QAM	1	1	24.12	24.13	24.14	0-1	1.0
CP-OFDM QPSK	1	1	23.38	23.46	23.50	0-1.5	1.5

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Table 9-111
NR Band n25 (PCS) NSA & SA Antenna 3 Maximum Conducted Powers - 15 MHz Bandwidth

NR Band n25 15 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	371500 (1857.5 MHz)	376500 (1882.5 MHz)	381500 (1907.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.95	25.04	25.02	0	0.0
	1	40	25.11	25.16	25.13		0.0
	1	77	25.04	25.18	25.20		0.0
	36	0	25.20	25.20	25.19	0-0.5	0.0
	36	22	25.19	25.20	25.20	0	0.0
	36	43	25.18	25.19	25.18	0-0.5	0.0
	75	0	25.13	25.19	25.20		0.0
DFT-s-OFDM QPSK	1	1	24.89	25.03	24.98	0	0.0
	1	40	25.12	25.09	25.15		0.0
	1	77	24.97	25.07	25.16		0.0
	36	0	25.19	25.20	25.20	0-1	0.0
	36	22	25.20	25.19	25.20	0	0.0
	36	43	25.19	25.17	25.18	0-1	0.0
	75	0	25.15	25.18	25.20		0.0
DFT-s-OFDM 16QAM	1	1	23.95	24.05	24.03	0-1	1.0
CP-OFDM QPSK	1	1	23.40	23.43	23.47	0-1.5	1.5

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Table 9-112
NR Band n25 (PCS) NSA & SA Antenna 3 Maximum Conducted Powers - 10 MHz Bandwidth

NR Band n25 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	371000 (1855 MHz)	376500 (1882.5 MHz)	382000 (1910 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.05	24.96	25.07	0	0.0
	1	26	25.16	25.13	25.20		0.0
	1	50	25.18	25.11	25.19		0.0
	25	0	25.17	25.17	25.20	0-0.5	0.0
	25	14	25.17	25.18	25.20	0	0.0
	25	27	25.13	25.15	25.17	0-0.5	0.0
	50	0	25.18	25.14	25.20		0.0
DFT-s-OFDM QPSK	1	1	25.01	24.97	25.07	0	0.0
	1	26	25.08	25.09	25.19		0.0
	1	50	25.14	25.12	25.20		0.0
	25	0	25.18	25.18	25.20	0-1	0.0
	25	14	25.19	25.15	25.19	0	0.0
	25	27	25.14	25.14	25.18	0-1	0.0
	50	0	25.16	25.16	25.20		0.0
DFT-s-OFDM 16QAM	1	1	23.99	24.04	24.06	0-1	1.0
CP-OFDM QPSK	1	1	23.41	23.48	23.49	0-1.5	1.5

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Table 9-113
NR Band n25 (PCS) NSA & SA Antenna 3 Maximum Conducted Powers - 5 MHz Bandwidth

NR Band n25 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	370500 (1852.5 MHz)	376500 (1882.5 MHz)	382500 (1912.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.09	25.06	25.13	0	0.0
	1	13	25.17	25.12	25.19		0.0
	1	23	25.16	25.10	25.20		0.0
	12	0	25.20	25.15	25.20	0-0.5	0.0
	12	7	25.18	25.16	25.17	0	0.0
	12	13	25.14	25.13	25.18	0-0.5	0.0
	25	0	25.17	25.16	25.20		0.0
DFT-s-OFDM QPSK	1	1	25.09	25.03	25.11	0	0.0
	1	13	25.11	25.10	25.20		0.0
	1	23	25.12	25.14	25.19		0.0
	12	0	25.19	25.16	25.20	0-1	0.0
	12	7	25.19	25.13	25.18	0	0.0
	12	13	25.15	25.13	25.18	0-1	0.0
	25	0	25.13	25.14	25.20		0.0
DFT-s-OFDM 16QAM	1	1	24.12	24.11	24.20	0-1	1.0
CP-OFDM QPSK	1	1	23.39	23.46	23.50	0-1.5	1.5

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Table 9-114
NR Band n25 (PCS) NSA & SA Antenna 3 Reduced Conducted Powers - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.51	0	0.0
	1	108	23.15		0.0
	1	214	22.64		0.0
	108	0	22.99	0-0.5	0.0
	108	54	23.15	0	0.0
	108	108	23.04	0-0.5	0.0
	216	0	23.02		0.0
DFT-s-OFDM QPSK	1	1	22.58	0	0.0
	1	108	23.14		0.0
	1	214	22.61		0.0
	108	0	23.01	0-1	0.0
	108	54	23.16	0	0.0
	108	108	23.07	0-1	0.0
	216	0	22.98		0.0
DFT-s-OFDM 16QAM	1	1	22.34	0-1	0.0
CP-OFDM QPSK	1	1	22.71	0-1.5	0.0

Note: NR Band n25 at 40 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-115
NR Band n25 (PCS) NSA & SA Antenna 3 Reduced Conducted Powers - 30 MHz Bandwidth

NR Band n25 30 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.70	0	0.0
	1	80	23.14		0.0
	1	158	22.85		0.0
	80	0	23.13	0-0.5	0.0
	80	40	23.20	0	0.0
	80	80	23.11	0-0.5	0.0
	160	0	23.13		0.0
DFT-s-OFDM QPSK	1	1	22.77	0	0.0
	1	80	23.20		0.0
	1	158	22.88		0.0
	80	0	23.12	0-1	0.0
	80	40	23.20	0	0.0
	80	80	23.16	0-1	0.0
	160	0	23.16		0.0
DFT-s-OFDM 16QAM	1	1	22.49	0-1	0.0
CP-OFDM QPSK	1	1	22.80	0-1.5	0.0

Note: NR Band n25 at 30 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-116
NR Band n25 (PCS) NSA & SA Antenna 3 Reduced Conducted Powers - 25 MHz Bandwidth

NR Band n25 25 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.97	0	0.0
	1	67	23.14		0.0
	1	131	23.11		0.0
	64	0	23.15	0-0.5	0.0
	64	35	23.20	0	0.0
	64	69	23.13	0-0.5	0.0
	128	0	23.19		0.0
DFT-s-OFDM QPSK	1	1	23.03	0	0.0
	1	67	23.18		0.0
	1	131	23.13		0.0
	64	0	23.18	0-1	0.0
	64	35	23.20	0	0.0
	64	69	23.18	0-1	0.0
	128	0	23.15		0.0
DFT-s-OFDM 16QAM	1	1	22.84	0-1	0.0
CP-OFDM QPSK	1	1	23.10	0-1.5	0.0

Note: NR Band n25 at 25 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 9-117
NR Band n25 (PCS) NSA & SA Antenna 3 Reduced Conducted Powers - 20 MHz Bandwidth

NR Band n25 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	372000 (1860 MHz)	376500 (1882.5 MHz)	381000 (1905 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.09	23.04	23.10	0	0.0
	1	53	23.20	23.14	23.20		0.0
	1	104	23.13	23.19	23.20		0.0
	50	0	23.20	23.14	23.19	0-0.5	0.0
	50	28	23.19	23.19	23.20	0	0.0
	50	56	23.19	23.10	23.06	0-0.5	0.0
	100	0	23.18	23.17	23.20		0.0
DFT-s-OFDM QPSK	1	1	22.98	23.01	23.06	0	0.0
	1	53	23.10	23.07	23.18		0.0
	1	104	23.12	23.16	23.20		0.0
	50	0	23.20	23.14	23.19	0-1	0.0
	50	28	23.18	23.20	23.20	0	0.0
	50	56	23.20	23.13	23.05	0-1	0.0
	100	0	23.19	23.18	23.20		0.0
DFT-s-OFDM 16QAM	1	1	22.74	22.82	22.87	0-1	0.0
CP-OFDM QPSK	1	1	23.07	23.09	23.16	0-1.5	0.0

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Table 9-118
NR Band n25 (PCS) NSA & SA Antenna 3 Reduced Conducted Powers - 15 MHz Bandwidth

NR Band n25 15 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	371500 (1857.5 MHz)	376500 (1882.5 MHz)	381500 (1907.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.03	23.01	23.03	0	0.0
	1	40	23.20	23.04	23.18		0.0
	1	77	23.08	23.13	23.20		0.0
	36	0	23.18	23.18	23.19	0-0.5	0.0
	36	22	23.19	23.17	23.20	0	0.0
	36	43	23.17	23.11	23.16	0-0.5	0.0
	75	0	23.16	23.17	23.20		0.0
DFT-s-OFDM QPSK	1	1	22.93	23.02	22.95	0	0.0
	1	40	23.08	23.07	23.12		0.0
	1	77	23.04	23.05	23.20		0.0
	36	0	23.20	23.20	23.19	0-1	0.0
	36	22	23.19	23.19	23.20	0	0.0
	36	43	23.16	23.12	23.16	0-1	0.0
	75	0	23.17	23.16	23.20		0.0
DFT-s-OFDM 16QAM	1	1	22.71	22.79	22.76	0-1	0.0
CP-OFDM QPSK	1	1	23.05	23.07	23.08	0-1.5	0.0

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Table 9-119
NR Band n25 (PCS) NSA & SA Antenna 3 Reduced Conducted Powers - 10 MHz Bandwidth

NR Band n25 10 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	371000 (1855 MHz)	376500 (1882.5 MHz)	382000 (1910 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.08	23.02	23.16	0	0.0
	1	26	23.20	23.11	23.20		0.0
	1	50	23.19	23.14	23.19		0.0
	25	0	23.15	23.17	23.20	0-0.5	0.0
	25	14	23.20	23.15	23.18	0	0.0
	25	27	23.18	23.10	23.20	0-0.5	0.0
	50	0	23.20	23.14	23.19		0.0
DFT-s-OFDM QPSK	1	1	22.93	22.97	23.06	0	0.0
	1	26	23.12	23.09	23.20		0.0
	1	50	23.10	23.11	23.18		0.0
	25	0	23.18	23.19	23.20	0-1	0.0
	25	14	23.20	23.18	23.19	0	0.0
	25	27	23.19	23.14	23.18	0-1	0.0
	50	0	23.17	23.17	23.20		0.0
DFT-s-OFDM 16QAM	1	1	22.86	22.76	22.83	0-1	0.0
CP-OFDM QPSK	1	1	23.09	23.08	23.15	0-1.5	0.0

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Table 9-120
NR Band n25 (PCS) NSA & SA Antenna 3 Reduced Conducted Powers - 5 MHz Bandwidth

NR Band n25 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	370500 (1852.5 MHz)	376500 (1882.5 MHz)	382500 (1912.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.02	23.09	23.16	0	0.0
	1	13	23.16	23.15	23.20		0.0
	1	23	23.20	23.16	23.19		0.0
	12	0	23.18	23.18	23.20	0-0.5	0.0
	12	7	23.20	23.16	23.18	0	0.0
	12	13	23.15	23.17	23.19	0-0.5	0.0
	25	0	23.16	23.18	23.20		0.0
DFT-s-OFDM QPSK	1	1	23.04	23.06	23.09	0	0.0
	1	13	23.07	23.02	23.18		0.0
	1	23	22.95	23.07	23.20		0.0
	12	0	23.16	23.12	23.20	0-1	0.0
	12	7	23.14	23.11	23.19	0	0.0
	12	13	23.10	23.12	23.18	0-1	0.0
	25	0	23.15	23.17	23.19		0.0
DFT-s-OFDM 16QAM	1	1	22.77	22.83	22.87	0-1	0.0
CP-OFDM QPSK	1	1	23.16	23.13	23.20	0-1.5	0.0

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NR Band n41

Table 9-121
NR Band n41 PC2 Maximum Conducted Powers - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	26.48	0	0.0
	1	137	27.56		0.0
	1	271	26.54		0.0
	135	0	26.82	0-0.5	0.5
	135	69	27.53	0	0.0
	135	138	26.77	0-0.5	0.5
	270	0	26.78		0.5
DFT-s-OFDM QPSK	1	1	26.53	0	0.0
	1	137	27.61		0.0
	1	271	26.67		0.0
	135	0	26.33	0-1	1.0
	135	69	27.58	0	0.0
	135	138	26.21	0-1	1.0
	270	0	26.29		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	26.22	0-1	1.0
	1	1	26.08	0-1.5	1.5

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 9-122
NR Band n41 PC2 Maximum Conducted Powers - 90 MHz Bandwidth

NR Band n41 90 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	508200 (2541 MHz)	528996 (2644.98 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	26.52	26.54	0	0.0
	1	123	26.98	27.10		0.0
	1	243	26.38	27.02		0.0
	120	0	26.47	26.82	0-0.5	0.5
	120	63	27.15	27.43	0	0.0
	120	125	26.52	26.87	0-0.5	0.5
	243	0	26.45	26.86		0.5
DFT-s-OFDM QPSK	1	1	26.62	26.78	0	0.0
	1	123	27.57	27.34		0.0
	1	243	26.59	27.16		0.0
	120	0	26.18	26.32	0-1	1.0
	120	63	27.42	27.44	0	0.0
	120	125	26.23	26.29	0-1	1.0
	243	0	26.21	26.35		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	26.23	26.40		1.0
	1	1	25.98	26.15	0-1.5	1.5

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Table 9-123
NR Band n41 PC2 Maximum Conducted Powers - 80 MHz Bandwidth

NR Band n41 80 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507204 (2536.02 MHz)	529998 (2649.99 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	26.90	26.78	0	0.0
	1	109	27.42	27.40		0.0
	1	215	26.92	27.38		0.0
	108	0	26.72	26.86	0-0.5	0.5
	108	55	27.44	27.47	0	0.0
	108	109	26.86	26.94	0-0.5	0.5
	216	0	26.91	27.05		0.5
DFT-s-OFDM QPSK	1	1	26.88	26.91	0	0.0
	1	109	27.51	27.56		0.0
	1	215	27.19	27.32		0.0
	108	0	26.27	26.26	0-1	1.0
	108	55	27.48	27.38	0	0.0
	108	109	26.35	26.42	0-1	1.0
	216	0	26.38	26.47		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	26.67	26.57	0-1	1.0
	1	1	26.20	26.15	0-1.5	1.5

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Table 9-124
NR Band n41 PC2 Maximum Conducted Powers - 60 MHz Bandwidth

NR Band n41 60 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	505200 (2526 MHz)	518598 (2592.99 MHz)	531996 (2659.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	27.18	26.77	26.76	0	0.0
	1	81	27.12	27.29	27.24		0.0
	1	160	26.91	26.95	27.69		0.0
	81	0	26.79	26.91	26.74	0-0.5	0.5
	81	41	27.39	27.43	27.38	0	0.0
	81	81	26.82	26.79	26.99	0-0.5	0.5
	162	0	26.85	26.92	26.86		0.5
DFT-s-OFDM QPSK	1	1	27.02	27.05	26.91	0	0.0
	1	81	27.43	27.49	27.66		0.0
	1	160	27.20	27.35	27.62		0.0
	81	0	26.34	26.47	26.32	0-1	1.0
	81	41	27.35	27.48	27.34	0	0.0
	81	81	26.28	26.36	26.40	0-1	1.0
	162	0	26.33	26.42	26.26		1.0
DFT-s-OFDM 16QAM	1	1	26.62	26.42	26.62	0-1	1.0
CP-OFDM QPSK	1	1	26.20	26.17	26.19	0-1.5	1.5

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Table 9-125
NR Band n41 PC2 Maximum Conducted Powers - 50 MHz Bandwidth

NR Band n41 50 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	504204 (2521.02 MHz)	518598 (2592.99 MHz)	532998 (2664.99 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	27.09	27.28	27.04	0	0.0
	1	67	27.34	27.29	27.42		0.0
	1	131	27.19	27.10	27.47		0.0
	64	0	26.82	26.95	26.85	0-0.5	0.5
	64	35	27.33	27.46	27.46	0	0.0
	64	69	26.85	26.91	27.10	0-0.5	0.5
	128	0	26.96	27.03	27.02		0.5
DFT-s-OFDM QPSK	1	1	27.39	27.43	27.31	0	0.0
	1	67	27.43	27.49	27.51		0.0
	1	131	27.27	27.51	27.60		0.0
	64	0	26.28	26.48	26.32	0-1	1.0
	64	35	27.32	27.44	27.43	0	0.0
	64	69	26.28	26.42	26.49	0-1	1.0
	128	0	26.37	26.39	26.44		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	26.53	26.70	26.57	0-1	1.0
	1	1	26.20	26.19	26.17	0-1.5	1.5

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Table 9-126
NR Band n41 PC2 Maximum Conducted Powers - 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	503202 (2516.01 MHz)	513468 (2567.34 MHz)	523734 (2618.67 MHz)	534000 (2670 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	26.89	26.74	26.86	26.93	0	0.0
	1	53	27.28	27.32	27.11	27.41		0.0
	1	104	27.01	27.05	27.03	27.37		0.0
	50	0	26.79	26.84	26.87	26.72	0-0.5	0.5
	50	28	27.30	27.54	27.38	27.49	0	0.0
	50	56	26.79	26.82	26.69	26.92	0-0.5	0.5
	100	0	26.76	26.91	26.88	26.85		0.5
DFT-s-OFDM QPSK	1	1	27.09	27.03	27.13	26.99	0	0.0
	1	53	27.51	27.60	27.53	27.41		0.0
	1	104	27.18	27.22	26.97	27.33		0.0
	50	0	26.30	26.34	26.40	26.22	0-1	1.0
	50	28	27.27	27.46	27.33	27.35	0	0.0
	50	56	26.12	26.27	26.21	26.43	0-1	1.0
	100	0	26.23	26.35	26.34	26.33		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	26.56	26.53	26.58	26.32	0-1	1.0
	1	1	25.85	25.91	25.77	26.19	0-1.5	1.5

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Table 9-127
NR Band n41 PC2 Maximum Conducted Powers - 30 MHz Bandwidth

NR Band n41 30 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	502200 (2511 MHz)	510402 (2552.01 MHz)	518598 (2592.99 MHz)	526800 (2634 MHz)	534996 (2674.98 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM $\pi/2$ BPSK	1	1	27.30	26.85	26.78	27.03	27.07	0	0.0
	1	39	27.01	27.09	27.29	26.96	27.58		0.0
	1	76	27.10	27.14	27.23	27.02	27.42		0.0
	36	0	27.15	27.19	26.91	27.18	27.12	0-0.5	0.5
	36	21	27.58	27.64	27.42	27.67	27.58	0	0.0
	36	42	27.02	27.11	26.89	27.12	27.18	0-0.5	0.5
	75	0	27.20	26.97	26.64	27.17	27.20		0.5
DFT-s-OFDM QPSK	1	1	27.27	27.12	27.21	27.11	27.08	0	0.0
	1	39	27.52	27.53	27.43	27.38	27.62		0.0
	1	76	27.14	27.02	27.48	27.16	27.42		0.0
	36	0	26.65	26.64	26.42	26.69	26.31	0-1	1.0
	36	21	27.59	27.54	27.38	27.58	27.59	0	0.0
	36	42	26.45	26.42	26.33	26.66	26.54	0-1	1.0
	75	0	26.62	26.38	26.41	26.64	26.59		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	26.69	26.70	26.50	26.67	26.51	0-1	1.0
	1	1	26.11	25.99	26.15	26.20	26.19	0-1.5	1.5

Table 9-128
NR Band n41 PC2 Maximum Conducted Powers - 20 MHz Bandwidth

NR Band n41 20 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
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)		
			Conducted Power [dBm]						
DFT-s-OFDM $\pi/2$ BPSK	1	1	27.29	27.15	27.23	27.14	27.38	0	0.0
	1	26	27.38	27.27	27.35	27.23	27.65		0.0
	1	49	27.09	27.10	27.34	26.95	27.02		0.0
	25	0	26.76	26.82	27.19	26.77	26.99	0-0.5	0.5
	25	13	27.28	27.32	27.37	27.33	27.48	0	0.0
	25	26	26.73	26.84	26.85	26.73	27.06	0-0.5	0.5
	50	0	26.78	26.79	26.83	26.82	27.04		0.5
DFT-s-OFDM QPSK	1	1	27.45	27.38	27.47	27.42	27.56	0	0.0
	1	26	27.51	27.46	27.46	27.39	27.67		0.0
	1	49	27.32	27.33	27.49	27.23	27.65		0.0
	25	0	26.19	26.27	26.36	26.32	26.46	0-1	1.0
	25	13	27.28	27.35	27.34	27.34	27.39	0	0.0
	25	26	26.16	26.29	26.37	26.25	26.44	0-1	1.0
	50	0	26.20	26.34	26.39	26.29	26.45		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	26.70	26.53	26.68	26.69	26.49	0-1	1.0
	1	1	26.20	26.19	26.20	26.16	26.18	0-1.5	1.5

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Table 9-129
NR Band n41 PC2 Maximum Conducted Powers - 15 MHz Bandwidth

NR Band n41 15 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	500700 (2503.5 MHz)	509652 (2548.26 MHz)	518598 (2592.99 MHz)	527550 (2637.75 MHz)	536502 (2682.51 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM $\pi/2$ BPSK	1	1	27.24	26.95	27.23	27.10	27.33	0	0.0
	1	19	27.36	27.35	27.15	27.28	27.68		0.0
	1	36	27.29	27.13	27.27	26.95	27.29		0.0
	18	0	27.08	26.87	26.91	26.82	27.13	0-0.5	0.5
	18	10	27.55	27.40	27.38	27.39	27.60	0	0.0
	18	20	26.97	26.84	26.92	26.81	27.09	0-0.5	0.5
36	0	26.90	26.88	26.88	26.85	27.02	0.5		
DFT-s-OFDM QPSK	1	1	27.43	27.36	27.37	27.32	27.46	0	0.0
	1	19	27.51	27.38	27.40	27.41	27.70		0.0
	1	36	27.39	27.27	27.58	27.25	27.57		0.0
	18	0	26.38	26.48	26.35	26.33	26.58	0-1	1.0
	18	10	27.46	27.36	27.39	27.35	27.62	0	0.0
	18	20	26.34	26.35	26.43	26.28	26.66	0-1	1.0
36	0	26.39	26.33	26.35	26.37	26.50	1.0		
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	26.61	26.67	26.57	26.65	26.63	0-1	1.0
	1	1	26.11	26.14	26.19	25.99	26.13	0-1.5	1.5

Table 9-130
NR Band n41 PC2 Maximum Conducted Powers - 10 MHz Bandwidth

NR Band n41									
10 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	500202 (2501.01 MHz)	509400 (2547 MHz)	518598 (2592.99 MHz)	527802 (2639.01 MHz)	537000 (2685 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM $\pi/2$ BPSK	1	1	26.97	27.43	27.21	27.06	27.18	0	0.0
	1	12	27.34	27.30	27.16	27.13	27.59		0.0
	1	22	27.29	27.24	27.27	27.08	27.55		0.0
	12	0	26.92	26.88	26.84	26.79	27.15	0-0.5	0.5
	12	6	27.53	27.36	27.32	27.28	27.51	0	0.0
	12	12	27.05	26.84	26.81	26.82	27.09	0-0.5	0.5
24	0	26.84	26.85	26.85	26.78	27.08	0.5		
DFT-s-OFDM QPSK	1	1	27.48	27.32	27.32	27.30	27.49	0	0.0
	1	12	27.51	27.42	27.36	27.39	27.61		0.0
	1	22	27.46	27.38	27.42	27.33	27.58		0.0
	12	0	26.40	26.36	26.29	26.28	26.61	0-1	1.0
	12	6	27.35	27.29	27.25	27.35	27.63	0	0.0
	12	12	26.37	26.31	26.28	26.18	26.64	0-1	1.0
	24	0	26.28	26.33	26.30	26.34	26.56		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	26.41	26.39	26.54	26.60	26.50	0-1	1.0
	1	1	25.97	26.05	26.19	26.04	26.12	0-1.5	1.5

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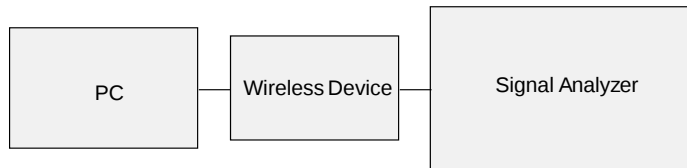


Figure 9-5
Power Measurement Setup

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9.6 WLAN Conducted Powers

Table 9-131
2.4 GHz WLAN Maximum Average RF Power – Ant 1

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	20.87	16.41	15.63
2422	3	N/A	19.43	18.30
2437	6	20.90	19.44	18.19
2452	9	N/A	19.40	18.25
2462	11	20.90	16.84	15.67

Table 9-132
2.4 GHz WLAN Maximum Average RF Power – Ant 2

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	20.74	16.38	15.82
2422	3	N/A	19.28	18.20
2437	6	20.90	19.11	18.05
2452	9	N/A	19.14	18.11
2462	11	20.86	16.68	15.55

Table 9-133
2.4 GHz WLAN Reduced Average RF Power – Ant 1

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	15.63	14.85	14.64
2437	6	15.80	14.62	14.68
2462	11	15.51	14.58	14.35

Table 9-134
2.4 GHz WLAN Reduced Average RF Power – Ant 2

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	15.86	14.65	14.93
2437	6	15.53	14.44	14.65
2462	11	15.57	14.59	14.70

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Table 9-135
2.4 GHz WLAN Reduced Average RF Power – MIMO

2.4GHz 802.11b Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	20.87	20.74	23.82
2437	6	20.90	20.90	23.91
2462	11	20.90	20.86	23.89

Table 9-136
5 GHz WLAN Maximum Average RF Power – Ant 1

5GHz (20MHz) Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11a	802.11n	802.11ac
		Average	Average	Average
5180	36	17.27	17.15	17.08
5200	40	19.32	19.11	19.13
5220	44	17.10	16.98	17.01
5240	48	17.12	16.99	16.94
5260	52	17.15	16.99	17.00
5280	56	19.34	19.23	19.24
5300	60	17.11	16.98	16.92
5320	64	17.15	16.94	16.98
5500	100	17.20	16.97	16.96
5600	120	16.65	16.54	16.51
5620	124	16.57	16.36	16.42
5700	140	16.88	16.68	16.65
5720	144	16.87	16.72	16.71
5745	149	16.72	16.52	16.56
5785	157	19.07	18.90	18.88
5825	165	18.88	18.70	18.70

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Table 9-137
5 GHz WLAN Maximum Average RF Power – Ant 2

5GHz (20MHz) Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11a	802.11n	802.11ac
		Average	Average	Average
5180	36	16.59	16.40	16.50
5200	40	18.58	18.59	18.55
5220	44	16.58	16.36	16.35
5240	48	16.71	16.59	16.55
5260	52	16.68	16.50	16.49
5280	56	18.61	18.46	18.47
5300	60	16.68	16.51	16.46
5320	64	16.67	16.47	16.47
5500	100	17.06	16.84	16.80
5600	120	16.35	16.36	16.31
5620	124	16.53	16.40	16.42
5700	140	16.86	16.72	16.66
5720	144	16.87	16.66	16.70
5745	149	17.02	16.84	16.83
5785	157	18.99	18.90	18.87
5825	165	18.82	18.70	18.65

Table 9-138
5 GHz WLAN Maximum Average RF Power – MIMO

5GHz (20MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5180	36	17.15	16.40	19.80
5200	40	19.11	18.59	21.87
5220	44	16.98	16.36	19.69
5240	48	16.99	16.59	19.80
5260	52	16.99	16.50	19.76
5280	56	19.23	18.46	21.87
5300	60	16.98	16.51	19.76
5320	64	16.94	16.47	19.72
5500	100	16.97	16.84	19.92
5600	120	16.54	16.36	19.46
5620	124	16.36	16.40	19.39
5720	144	16.72	16.66	19.70
5745	149	16.52	16.84	19.69
5785	157	18.90	18.90	21.91
5825	165	18.70	18.70	21.71

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Table 9-139
5 GHz WLAN Reduced Average RF Power– Ant 1

5GHz (20MHz) Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11a	802.11n	802.11ac
		Average	Average	Average
5180	36	14.82	14.72	14.61
5200	40	16.61	16.82	16.83
5220	44	14.65	14.51	14.54
5240	48	14.63	14.94	14.93
5260	52	14.62	14.54	14.53
5280	56	16.91	16.76	16.72
5300	60	14.69	14.54	14.45
5320	64	14.53	14.84	14.69
5745	149	14.57	14.81	14.75
5785	157	16.70	16.90	16.91
5825	165	16.72	16.97	16.98

5GHz (40MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11n	802.11ac
		Average	Average
5510	102	13.22	13.25
5550	110	14.81	14.84
5590	118	14.49	14.53
5630	126	14.85	14.83
5710	142	14.50	14.53

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Table 9-140
5 GHz WLAN Reduced Average RF Power– Ant 2

5GHz (20MHz) Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11a	802.11n	802.11ac
		Average	Average	Average
5180	36	14.53	14.64	14.64
5200	40	16.78	16.71	16.60
5220	44	14.97	14.65	14.63
5240	48	14.62	14.91	14.73
5260	52	14.64	14.85	14.81
5280	56	16.90	16.65	16.70
5300	60	14.65	14.84	14.99
5320	64	14.52	14.73	14.94
5745	149	14.74	14.87	14.91
5785	157	16.80	16.52	16.99
5825	165	16.75	16.94	16.98

5GHz (40MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11n	802.11ac
		Average	Average
5510	102	13.43	13.42
5550	110	14.94	14.91
5590	118	14.54	14.68
5630	126	14.79	14.79
5710	142	14.72	14.76

Table 9-141
5 GHz WLAN Reduced Average RF Power– MIMO

5GHz (20MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5180	36	14.72	14.64	17.69
5200	40	16.82	16.71	19.78
5220	44	14.51	14.65	17.59
5240	48	14.94	14.91	17.94
5260	52	14.54	14.85	17.71
5280	56	16.76	16.65	19.72
5300	60	14.54	14.84	17.70
5320	64	14.84	14.73	17.80
5745	149	14.81	14.87	17.85
5765	153	14.80	14.86	17.84
5785	157	16.90	16.52	19.72
5825	165	16.97	16.94	19.97

5GHz (40MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5510	102	13.22	13.43	16.34
5550	110	14.81	14.94	17.89
5590	118	14.49	14.54	17.53
5630	126	14.85	14.79	17.83
5710	142	14.50	14.72	17.62

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

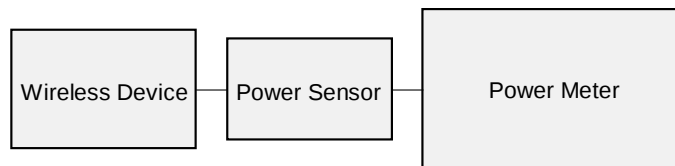


Figure 9-6
Power Measurement Setup

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9.7 Bluetooth Conducted Powers

Table 9-142
Bluetooth Average RF Power

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	9.18	8.275
2441	1.0	39	10.38	10.921
2480	1.0	78	8.96	7.873
2402	2.0	0	9.18	8.287
2441	2.0	39	10.44	11.077
2480	2.0	78	9.03	8.002
2402	3.0	0	9.27	8.460
2441	3.0	39	10.52	11.263
2480	3.0	78	9.15	8.226

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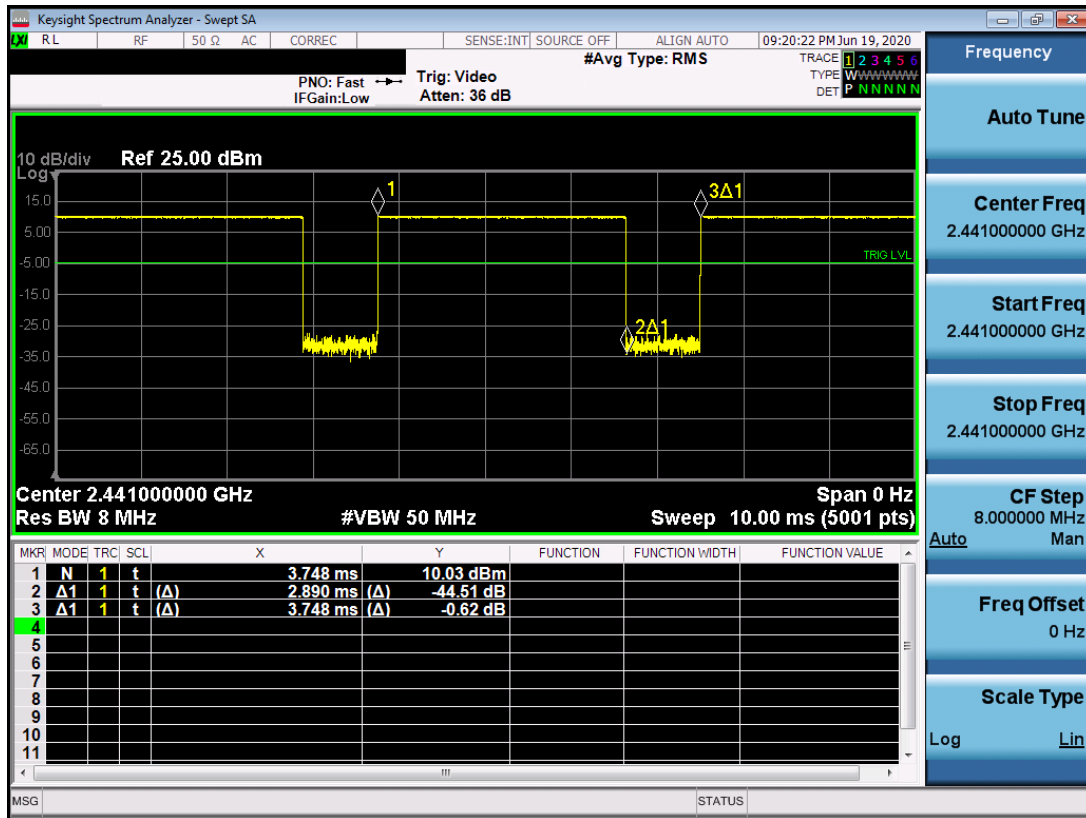


Figure 9-7
Bluetooth Transmission Plot

Equation 9-1
Bluetooth Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.89 \text{ ms}}{3.75 \text{ ms}} * 100\% = 77.1\%$$

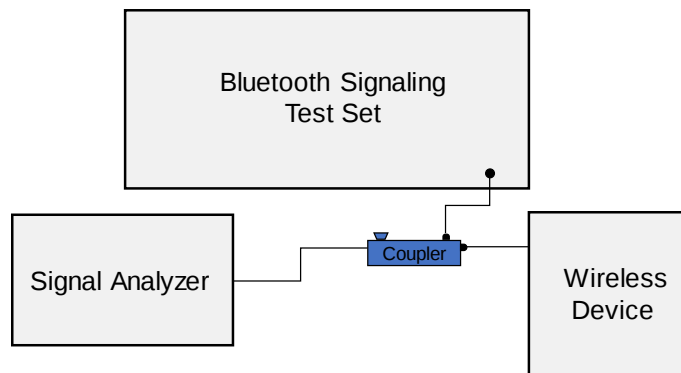


Figure 9-8
Power Measurement Setup

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10 SYSTEM VERIFICATION

10.1 Tissue Verification

Table 10-1
Measured Tissue Properties - Head

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
07/05/2020	750 Head	21.9	680	0.855	43.225	0.888	42.305	-3.72%	2.17%
			695	0.862	43.179	0.889	42.227	-3.04%	2.25%
			700	0.864	43.165	0.889	42.201	-2.81%	2.28%
			710	0.869	43.144	0.890	42.149	-2.36%	2.36%
			725	0.875	43.111	0.891	42.071	-1.80%	2.47%
			750	0.883	43.064	0.894	41.942	-1.23%	2.68%
			770	0.887	43.007	0.895	41.838	-0.89%	2.79%
			785	0.891	42.948	0.896	41.760	-0.56%	2.84%
			800	0.895	42.886	0.897	41.682	-0.22%	2.89%
07/06/2020	835 Head	23.0	820	0.897	42.804	0.899	41.578	-0.22%	2.95%
			835	0.903	42.758	0.900	41.500	0.33%	3.03%
			850	0.909	42.721	0.916	41.500	-0.76%	2.94%
07/11/2020	1750 Head	22.5	1710	1.300	41.079	1.348	40.142	-3.56%	2.33%
			1720	1.306	41.066	1.354	40.126	-3.55%	2.34%
			1745	1.319	41.032	1.368	40.087	-3.58%	2.36%
			1750	1.321	41.025	1.371	40.079	-3.65%	2.36%
			1770	1.333	40.996	1.383	40.047	-3.62%	2.37%
			1790	1.343	40.971	1.394	40.016	-3.66%	2.39%
			1710	1.308	41.998	1.348	40.142	-2.97%	4.62%
08/10/2020	1750 Head	22.1	1720	1.315	41.991	1.354	40.126	-2.88%	4.65%
			1745	1.332	41.975	1.368	40.087	-2.63%	4.71%
			1750	1.336	41.972	1.371	40.079	-2.55%	4.72%
			1770	1.349	41.952	1.383	40.047	-2.46%	4.76%
			1790	1.360	41.912	1.394	40.016	-2.44%	4.74%
07/03/2020	1900 Head	21.3	1850	1.340	40.157	1.400	40.000	-4.29%	0.39%
			1860	1.346	40.142	1.400	40.000	-3.86%	0.36%
			1880	1.359	40.110	1.400	40.000	-2.93%	0.27%
			1900	1.371	40.081	1.400	40.000	-2.07%	0.20%
			1905	1.374	40.076	1.400	40.000	-1.86%	0.19%
			1910	1.377	40.069	1.400	40.000	-1.64%	0.17%
07/07/2020	1900 Head	22.0	1850	1.374	40.950	1.400	40.000	-1.86%	2.38%
			1860	1.379	40.935	1.400	40.000	-1.50%	2.34%
			1880	1.391	40.907	1.400	40.000	-0.64%	2.27%
			1900	1.403	40.885	1.400	40.000	0.21%	2.21%
			1905	1.405	40.881	1.400	40.000	0.36%	2.20%
			1910	1.408	40.879	1.400	40.000	0.57%	2.20%
08/10/2020	1900 Head	22.1	1850	1.399	41.764	1.400	40.000	-0.07%	4.41%
			1860	1.405	41.754	1.400	40.000	0.36%	4.38%
			1880	1.416	41.743	1.400	40.000	1.14%	4.36%
			1900	1.427	41.722	1.400	40.000	1.93%	4.31%
			1905	1.430	41.714	1.400	40.000	2.14%	4.29%
			1910	1.434	41.706	1.400	40.000	2.43%	4.27%
7/9/2020	2450 Head	22.8	2400	1.826	39.303	1.756	39.289	3.99%	0.04%
			2450	1.882	39.119	1.800	39.200	4.56%	-0.21%
			2480	1.914	39.024	1.833	39.162	4.42%	-0.35%
07/20/2020	2450 Head	22.0	2400	1.746	40.788	1.756	39.289	-0.57%	3.82%
			2450	1.788	40.696	1.800	39.200	-0.67%	3.82%
			2480	1.809	40.656	1.833	39.162	-1.31%	3.81%

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Table 10-2
Measured Tissue Properties – Head Continued

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
08/04/2020	2450 Head	24.1	2600	2.045	38.138	1.964	39.009	4.12%	-2.23%
			2650	2.103	37.931	2.018	38.945	4.21%	-2.60%
			2680	2.139	37.809	2.051	38.907	4.29%	-2.82%
			2700	2.163	37.728	2.073	38.882	4.34%	-2.97%
08/10/2020	2450 Head	23.8	2400	1.822	38.828	1.756	39.289	3.76%	-1.17%
			2450	1.877	38.602	1.800	39.200	4.28%	-1.53%
			2480	1.914	38.493	1.833	39.162	4.42%	-1.71%
			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%
			2550	1.996	38.203	1.909	39.073	4.56%	-2.23%
			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%
08/12/2020	5200-5800 Head	23.3	5180	4.426	35.925	4.635	36.009	-4.51%	-0.23%
			5200	4.429	35.883	4.655	35.986	-4.85%	-0.29%
			5210	4.436	35.848	4.666	35.975	-4.93%	-0.35%
			5220	4.454	35.825	4.676	35.963	-4.75%	-0.38%
			5240	4.487	35.798	4.696	35.940	-4.45%	-0.40%
			5250	4.502	35.772	4.706	35.929	-4.33%	-0.44%
			5270	4.520	35.761	4.727	35.906	-4.38%	-0.40%
			5280	4.534	35.757	4.737	35.894	-4.29%	-0.38%
			5290	4.546	35.745	4.748	35.883	-4.25%	-0.38%
			5300	4.559	35.698	4.758	35.871	-4.18%	-0.48%
			5310	4.564	35.697	4.768	35.860	-4.28%	-0.45%
			5320	4.571	35.694	4.778	35.849	-4.33%	-0.43%
			5500	4.759	35.374	4.963	35.643	-4.11%	-0.75%
			5510	4.773	35.364	4.973	35.632	-4.02%	-0.75%
			5530	4.799	35.356	4.994	35.609	-3.90%	-0.71%
			5540	4.811	35.333	5.004	35.597	-3.86%	-0.74%
			5550	4.819	35.310	5.014	35.586	-3.89%	-0.78%
			5560	4.820	35.289	5.024	35.574	-4.06%	-0.80%
			5580	4.846	35.246	5.045	35.551	-3.94%	-0.86%
			5600	4.873	35.202	5.065	35.529	-3.79%	-0.92%
			5610	4.891	35.174	5.076	35.518	-3.64%	-0.97%
			5620	4.909	35.144	5.086	35.506	-3.48%	-1.02%
			5640	4.933	35.154	5.106	35.483	-3.39%	-0.93%
			5660	4.949	35.127	5.127	35.460	-3.47%	-0.94%
			5670	4.955	35.098	5.137	35.449	-3.54%	-0.99%
			5680	4.962	35.081	5.147	35.437	-3.59%	-1.00%
			5690	4.979	35.065	5.158	35.426	-3.47%	-1.02%
			5700	4.994	35.044	5.168	35.414	-3.37%	-1.04%
			5720	5.024	35.012	5.188	35.391	-3.16%	-1.07%
			5745	5.045	34.978	5.214	35.363	-3.24%	-1.09%
			5750	5.047	34.965	5.219	35.357	-3.30%	-1.11%
			5755	5.050	34.963	5.224	35.351	-3.33%	-1.10%
			5765	5.057	34.946	5.234	35.340	-3.38%	-1.11%
			5775	5.064	34.945	5.245	35.329	-3.45%	-1.09%
			5785	5.076	34.940	5.255	35.317	-3.41%	-1.07%
			5795	5.086	34.901	5.265	35.305	-3.40%	-1.14%
			5800	5.091	34.890	5.270	35.300	-3.40%	-1.16%
			5805	5.100	34.885	5.275	35.294	-3.32%	-1.16%
			5825	5.128	34.871	5.296	35.271	-3.17%	-1.13%

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Table 10-3
Measured Tissue Properties – Body

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
07/01/2020	750 Body	21.8	680	0.929	54.129	0.958	55.804	-3.03%	-3.00%
			695	0.934	54.096	0.959	55.745	-2.61%	-2.96%
			700	0.936	54.087	0.959	55.726	-2.40%	-2.94%
			710	0.940	54.063	0.960	55.687	-2.08%	-2.92%
			725	0.945	54.025	0.961	55.629	-1.66%	-2.88%
			750	0.955	53.959	0.964	55.531	-0.93%	-2.83%
			770	0.962	53.924	0.965	55.453	-0.31%	-2.76%
			785	0.967	53.904	0.966	55.395	0.10%	-2.69%
07/04/2020	835 Body	21.3	800	0.973	53.879	0.967	55.336	0.62%	-2.63%
			820	0.935	53.809	0.969	55.258	-3.51%	-2.62%
			835	0.951	53.647	0.970	55.200	-1.96%	-2.81%
			850	0.967	53.503	0.988	55.154	-2.13%	-2.99%
07/06/2020	835 Body	21.7	820	0.935	54.697	0.969	55.258	-3.51%	-1.02%
			835	0.951	54.538	0.970	55.200	-1.96%	-1.20%
			850	0.967	54.389	0.988	55.154	-2.13%	-1.39%
07/08/2020	835 Body	21.8	820	0.947	54.053	0.969	55.258	-2.27%	-2.18%
			835	0.963	53.903	0.970	55.200	-0.72%	-2.35%
			850	0.979	53.760	0.988	55.154	-0.91%	-2.53%
08/10/2020	835 Body	23.3	820	0.941	53.313	0.969	55.258	-2.89%	-3.52%
			835	0.956	53.169	0.970	55.200	-1.44%	-3.68%
			850	0.971	53.018	0.988	55.154	-1.72%	-3.87%
07/20/2020	1750 Body	21.9	1710	1.463	51.916	1.463	53.537	0.00%	-3.03%
			1720	1.474	51.880	1.469	53.511	0.34%	-3.05%
			1745	1.502	51.777	1.485	53.445	1.14%	-3.12%
			1750	1.507	51.756	1.488	53.432	1.28%	-3.14%
			1770	1.529	51.676	1.501	53.379	1.87%	-3.19%
			1790	1.551	51.606	1.514	53.326	2.44%	-3.23%
07/26/2020	1750 Body	21.4	1710	1.469	51.295	1.463	53.537	0.41%	-4.19%
			1720	1.481	51.251	1.469	53.511	0.82%	-4.22%
			1745	1.508	51.136	1.485	53.445	1.55%	-4.32%
			1750	1.514	51.115	1.488	53.432	1.75%	-4.34%
			1770	1.535	51.035	1.501	53.379	2.27%	-4.39%
			1790	1.557	50.960	1.514	53.326	2.84%	-4.44%
07/29/2020	1750 Body	22.0	1710	1.449	51.279	1.463	53.537	-0.96%	-4.22%
			1720	1.460	51.241	1.469	53.511	-0.61%	-4.24%
			1745	1.488	51.138	1.485	53.445	0.20%	-4.32%
			1750	1.493	51.117	1.488	53.432	0.34%	-4.33%
			1770	1.515	51.035	1.501	53.379	0.93%	-4.39%
			1790	1.537	50.956	1.514	53.326	1.52%	-4.44%
08/05/2020	1750 Body	23.2	1710	1.460	52.354	1.463	53.537	-0.21%	-2.21%
			1720	1.471	52.318	1.469	53.511	0.14%	-2.23%
			1745	1.498	52.240	1.485	53.445	0.88%	-2.25%
			1750	1.503	52.226	1.488	53.432	1.01%	-2.26%
			1770	1.525	52.161	1.501	53.379	1.60%	-2.28%
			1790	1.547	52.092	1.514	53.326	2.18%	-2.31%
08/17/2020	1750 Body	21.9	1710	1.491	51.975	1.463	53.537	1.91%	-2.92%
			1720	1.502	51.940	1.469	53.511	2.25%	-2.94%
			1745	1.530	51.849	1.485	53.445	3.03%	-2.99%
			1750	1.536	51.830	1.488	53.432	3.23%	-3.00%
			1770	1.560	51.757	1.501	53.379	3.93%	-3.04%
			1790	1.583	51.682	1.514	53.326	4.56%	-3.08%
08/17/2020	1750 Body	21.9	1710	1.491	51.975	1.463	53.537	1.91%	-2.92%
			1720	1.502	51.940	1.469	53.511	2.25%	-2.94%
			1745	1.530	51.849	1.485	53.445	3.03%	-2.99%
			1750	1.536	51.830	1.488	53.432	3.23%	-3.00%
			1770	1.560	51.757	1.501	53.379	3.93%	-3.04%
			1790	1.583	51.682	1.514	53.326	4.56%	-3.08%

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Table 10-4
Measured Tissue Properties – Body Continued

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
07/22/2020	1900 Body	23.5	1850	1.509	54.041	1.520	53.300	-0.72%	1.39%
			1860	1.520	54.013	1.520	53.300	0.00%	1.34%
			1880	1.542	53.956	1.520	53.300	1.45%	1.23%
			1900	1.564	53.890	1.520	53.300	2.89%	1.11%
			1905	1.570	53.871	1.520	53.300	3.29%	1.07%
			1910	1.575	53.855	1.520	53.300	3.62%	1.04%
07/27/2020	1900 Body	24.5	1850	1.468	52.960	1.520	53.300	-3.42%	-0.64%
			1860	1.478	52.927	1.520	53.300	-2.76%	-0.70%
			1880	1.499	52.867	1.520	53.300	-1.38%	-0.81%
			1900	1.521	52.810	1.520	53.300	0.07%	-0.92%
			1905	1.526	52.797	1.520	53.300	0.39%	-0.94%
			1910	1.532	52.783	1.520	53.300	0.79%	-0.97%
08/03/2020	1900 Body	24.6	1850	1.485	51.868	1.520	53.300	-2.30%	-2.69%
			1860	1.495	51.837	1.520	53.300	-1.64%	-2.74%
			1880	1.517	51.774	1.520	53.300	-0.20%	-2.86%
			1900	1.539	51.711	1.520	53.300	1.25%	-2.98%
			1905	1.544	51.695	1.520	53.300	1.58%	-3.01%
			1910	1.550	51.680	1.520	53.300	1.97%	-3.04%
08/06/2020	1900 Body	23.8	1850	1.488	52.497	1.520	53.300	-2.11%	-1.51%
			1860	1.499	52.465	1.520	53.300	-1.38%	-1.57%
			1880	1.520	52.403	1.520	53.300	0.00%	-1.68%
			1900	1.541	52.348	1.520	53.300	1.38%	-1.79%
			1905	1.547	52.334	1.520	53.300	1.78%	-1.81%
			1910	1.552	52.321	1.520	53.300	2.11%	-1.84%
08/08/2020	1900 Body	23.2	1850	1.510	51.783	1.520	53.300	-0.66%	-2.85%
			1860	1.520	51.743	1.520	53.300	0.00%	-2.92%
			1880	1.542	51.671	1.520	53.300	1.45%	-3.06%
			1900	1.565	51.604	1.520	53.300	2.96%	-3.18%
			1905	1.571	51.587	1.520	53.300	3.36%	-3.21%
			1910	1.577	51.571	1.520	53.300	3.75%	-3.24%
08/10/2020	1900 Body	22.7	1850	1.524	51.623	1.520	53.300	0.26%	-3.15%
			1860	1.535	51.583	1.520	53.300	0.99%	-3.22%
			1880	1.558	51.514	1.520	53.300	2.50%	-3.35%
			1900	1.581	51.444	1.520	53.300	4.01%	-3.48%
			1905	1.587	51.426	1.520	53.300	4.41%	-3.52%
			1910	1.592	51.408	1.520	53.300	4.74%	-3.55%
08/12/2020	1900 Body	24.3	1850	1.522	52.121	1.520	53.300	0.13%	-2.21%
			1860	1.534	52.087	1.520	53.300	0.92%	-2.28%
			1880	1.554	52.028	1.520	53.300	2.24%	-2.39%
			1900	1.575	51.965	1.520	53.300	3.62%	-2.50%
			1905	1.581	51.949	1.520	53.300	4.01%	-2.53%
			1910	1.587	51.936	1.520	53.300	4.41%	-2.56%
07/23/2020	2450 Body	22.6	2400	1.942	51.056	1.902	52.767	2.10%	-3.24%
			2450	2.008	50.859	1.950	52.700	2.97%	-3.49%
			2480	2.049	50.742	1.993	52.662	2.81%	-3.65%
			2400	1.959	51.741	1.902	52.767	3.00%	-1.94%
08/03/2020	2450 Body	23.8	2450	2.026	51.539	1.950	52.700	3.90%	-2.20%
			2480	2.067	51.418	1.993	52.662	3.71%	-2.36%
			2500	2.095	51.345	2.021	52.636	3.66%	-2.45%
			2510	2.108	51.308	2.035	52.623	3.59%	-2.50%
			2535	2.141	51.203	2.071	52.592	3.38%	-2.64%
			2550	2.162	51.133	2.092	52.573	3.35%	-2.74%
			2560	2.176	51.087	2.106	52.560	3.32%	-2.80%
			2600	2.233	50.936	2.163	52.509	3.24%	-3.00%
			2650	2.302	50.731	2.234	52.445	3.04%	-3.27%
			2680	2.344	50.600	2.277	52.407	2.94%	-3.45%
			2700	2.372	50.530	2.305	52.382	2.91%	-3.54%
			2400	1.988	51.250	1.902	52.767	4.52%	-2.87%
08/07/2020	2450 Body	24.0	2450	2.045	51.115	1.950	52.700	4.87%	-3.01%
			2480	2.080	51.039	1.993	52.662	4.37%	-3.08%
			2500	2.103	50.985	2.021	52.636	4.06%	-3.14%
			2510	2.114	50.957	2.035	52.623	3.88%	-3.17%
			2535	2.144	50.885	2.071	52.592	3.52%	-3.25%
			2550	2.164	50.845	2.092	52.573	3.44%	-3.29%
			2560	2.177	50.820	2.106	52.560	3.37%	-3.31%
			2600	2.226	50.699	2.163	52.509	2.91%	-3.45%
			2650	2.287	50.544	2.234	52.445	2.37%	-3.62%
			2680	2.325	50.447	2.277	52.407	2.11%	-3.74%
			2700	2.348	50.381	2.305	52.382	1.87%	-3.82%

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Table 10-5
Measured Tissue Properties – Body Continued

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
08/10/2020	2450 Body	23.9	2400	1.986	52.814	1.902	52.767	4.42%	0.09%
			2450	2.044	52.657	1.950	52.700	4.82%	-0.08%
			2480	2.081	52.579	1.993	52.662	4.42%	-0.16%
			2500	2.105	52.528	2.021	52.636	4.16%	-0.21%
			2510	2.116	52.502	2.035	52.623	3.98%	-0.23%
			2535	2.145	52.425	2.071	52.592	3.57%	-0.32%
			2550	2.163	52.378	2.092	52.573	3.39%	-0.37%
			2560	2.176	52.349	2.106	52.560	3.32%	-0.40%
			2600	2.227	52.236	2.163	52.509	2.96%	-0.52%
			2650	2.286	52.084	2.234	52.445	2.33%	-0.69%
			2680	2.323	51.990	2.277	52.407	2.02%	-0.80%
			2700	2.348	51.920	2.305	52.382	1.87%	-0.88%
08/17/2020	2450 Body	23.1	2400	1.989	53.102	1.902	52.767	4.57%	0.63%
			2450	2.046	52.976	1.950	52.700	4.92%	0.52%
			2480	2.081	52.895	1.993	52.662	4.42%	0.44%
07/19/2020	5200-5800 Body	23.5	5180	5.383	47.153	5.276	49.041	2.03%	-3.85%
			5190	5.396	47.147	5.288	49.028	2.04%	-3.84%
			5200	5.408	47.143	5.299	49.014	2.06%	-3.82%
			5210	5.420	47.127	5.311	49.001	2.05%	-3.82%
			5220	5.430	47.095	5.323	48.987	2.01%	-3.86%
			5240	5.455	47.027	5.346	48.960	2.04%	-3.95%
			5250	5.469	47.002	5.358	48.947	2.07%	-3.97%
			5260	5.484	46.985	5.369	48.933	2.14%	-3.98%
			5270	5.498	46.976	5.381	48.919	2.17%	-3.97%
			5280	5.516	46.971	5.393	48.906	2.28%	-3.96%
			5290	5.534	46.968	5.404	48.892	2.41%	-3.94%
			5300	5.547	46.956	5.416	48.879	2.42%	-3.93%
			5310	5.555	46.946	5.428	48.865	2.34%	-3.93%
			5320	5.564	46.922	5.439	48.851	2.30%	-3.95%
			5500	5.801	46.600	5.650	48.607	2.67%	-4.13%
			5510	5.817	46.588	5.661	48.594	2.76%	-4.13%
			5520	5.831	46.585	5.673	48.580	2.79%	-4.11%
			5530	5.846	46.585	5.685	48.566	2.83%	-4.08%
			5540	5.856	46.563	5.696	48.553	2.81%	-4.10%
			5550	5.863	46.536	5.708	48.539	2.72%	-4.13%
			5560	5.870	46.509	5.720	48.526	2.62%	-4.16%
			5580	5.904	46.478	5.743	48.499	2.80%	-4.17%
			5600	5.937	46.434	5.766	48.471	2.97%	-4.20%
			5610	5.949	46.413	5.778	48.458	2.96%	-4.22%
			5620	5.964	46.402	5.790	48.444	3.01%	-4.22%
			5640	5.994	46.387	5.813	48.417	3.11%	-4.19%
			5660	6.018	46.347	5.837	48.390	3.10%	-4.22%
			5670	6.029	46.326	5.848	48.376	3.10%	-4.24%
			5680	6.040	46.303	5.860	48.363	3.07%	-4.26%
			5690	6.053	46.286	5.872	48.349	3.08%	-4.27%
			5700	6.069	46.268	5.883	48.336	3.16%	-4.28%
			5710	6.086	46.258	5.895	48.322	3.24%	-4.27%
			5720	6.101	46.241	5.907	48.309	3.28%	-4.28%
			5745	6.136	46.202	5.936	48.275	3.37%	-4.29%
			5750	6.143	46.198	5.942	48.268	3.38%	-4.29%
			5755	6.149	46.194	5.947	48.261	3.40%	-4.28%
			5765	6.162	46.184	5.959	48.248	3.41%	-4.28%
			5775	6.175	46.171	5.971	48.234	3.42%	-4.28%
			5785	6.187	46.154	5.982	48.220	3.43%	-4.28%
			5795	6.199	46.129	5.994	48.207	3.42%	-4.31%
			5800	6.206	46.120	6.000	48.200	3.43%	-4.32%
			5805	6.214	46.113	6.006	48.193	3.46%	-4.32%
			5825	6.244	46.074	6.029	48.166	3.57%	-4.34%

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Table 10-6
Measured Tissue Properties – Body Continued

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
08/10/2020	5200-5800 Body	23.1	5180	5.321	48.064	5.276	49.041	0.85%	-1.99%
			5190	5.332	48.051	5.288	49.028	0.83%	-1.99%
			5200	5.341	48.029	5.299	49.014	0.79%	-2.01%
			5210	5.351	48.013	5.311	49.001	0.75%	-2.02%
			5220	5.366	48.002	5.323	48.987	0.81%	-2.01%
			5240	5.401	47.974	5.346	48.960	1.03%	-2.01%
			5250	5.413	47.949	5.358	48.947	1.03%	-2.04%
			5260	5.422	47.940	5.369	48.933	0.99%	-2.03%
			5270	5.437	47.929	5.381	48.919	1.04%	-2.02%
			5280	5.455	47.903	5.393	48.906	1.15%	-2.05%
			5290	5.468	47.879	5.404	48.892	1.18%	-2.07%
			5300	5.476	47.860	5.416	48.879	1.11%	-2.08%
			5310	5.485	47.853	5.428	48.865	1.05%	-2.07%
			5320	5.499	47.838	5.439	48.851	1.10%	-2.07%
			5500	5.743	47.534	5.650	48.607	1.65%	-2.21%
			5510	5.756	47.533	5.661	48.594	1.68%	-2.18%
			5520	5.770	47.533	5.673	48.580	1.71%	-2.16%
			5530	5.782	47.519	5.685	48.566	1.71%	-2.16%
			5540	5.789	47.501	5.696	48.553	1.63%	-2.17%
			5550	5.796	47.478	5.708	48.539	1.54%	-2.19%
			5560	5.810	47.465	5.720	48.526	1.57%	-2.19%
			5580	5.851	47.411	5.743	48.499	1.88%	-2.24%
			5600	5.879	47.363	5.766	48.471	1.96%	-2.29%
			5610	5.892	47.355	5.778	48.458	1.97%	-2.28%
			5620	5.909	47.348	5.790	48.444	2.06%	-2.26%
			5640	5.938	47.337	5.813	48.417	2.15%	-2.23%
			5660	5.955	47.312	5.837	48.390	2.02%	-2.23%
			5670	5.971	47.291	5.848	48.376	2.10%	-2.24%
			5680	5.985	47.265	5.860	48.363	2.13%	-2.27%
			5690	5.998	47.234	5.872	48.349	2.15%	-2.31%
			5700	6.015	47.215	5.883	48.336	2.24%	-2.32%
			5710	6.035	47.201	5.895	48.322	2.37%	-2.32%
			5720	6.050	47.185	5.907	48.309	2.42%	-2.33%
			5745	6.074	47.156	5.936	48.275	2.32%	-2.32%
			5750	6.080	47.158	5.942	48.268	2.32%	-2.30%
			5755	6.088	47.160	5.947	48.261	2.37%	-2.28%
			5765	6.103	47.156	5.959	48.248	2.42%	-2.26%
			5775	6.120	47.134	5.971	48.234	2.50%	-2.28%
			5785	6.136	47.101	5.982	48.220	2.57%	-2.32%
			5795	6.149	47.086	5.994	48.207	2.59%	-2.33%
			5800	6.159	47.080	6.000	48.200	2.65%	-2.32%
			5805	6.166	47.072	6.006	48.193	2.66%	-2.33%
			5825	6.196	47.018	6.029	48.166	2.77%	-2.38%
08/16/2020	5200-5800 Body	22.6	5500	5.801	46.759	5.650	48.607	2.67%	-3.80%
			5600	5.937	46.607	5.766	48.471	2.97%	-3.85%
			5750	6.140	46.354	5.942	48.268	3.33%	-3.97%
			5785	6.184	46.317	5.982	48.220	3.38%	-3.95%

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 $\pm 10\%$ 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 10-7
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	750	HEAD	07/05/2020	20.3	21.9	0.200	1003	3589	1.670	8.780	8.350	-4.90%
L	835	HEAD	07/06/2020	24.9	22.5	0.200	4d132	7406	1.930	9.650	9.650	0.00%
L	1750	HEAD	07/11/2020	23.1	22.5	0.100	1150	7406	3.760	36.500	37.600	3.01%
L	1750	HEAD	08/10/2020	24.3	22.1	0.100	1150	7406	3.670	36.500	36.700	0.55%
L	1900	HEAD	07/03/2020	23.4	21.3	0.100	5d148	7410	4.170	39.100	41.700	6.65%
L	1900	HEAD	07/07/2020	24.8	22.5	0.100	5d148	7406	3.950	39.100	39.500	1.02%
L	1900	HEAD	08/10/2020	24.3	22.1	0.100	5d148	7406	4.220	39.100	42.200	7.93%
RK	2450	HEAD	07/09/2020	22.5	22.8	0.100	882	7565	5.300	52.900	53.000	0.19%
E	2450	HEAD	07/20/2020	22.7	21.7	0.100	797	3589	5.110	52.700	51.100	-3.04%
E	2450	HEAD	08/10/2020	24.0	22.5	0.100	981	3589	5.310	52.300	53.100	1.53%
E	2600	HEAD	08/04/2020	22.8	22.3	0.100	1064	3589	5.860	58.100	58.600	0.86%
E	2600	HEAD	08/10/2020	24.0	22.5	0.100	1064	3589	5.880	58.100	58.800	1.20%
H	5250	HEAD	08/12/2020	24.0	23.3	0.050	1057	7357	3.690	79.200	73.800	-6.82%
H	5600	HEAD	08/12/2020	24.0	23.3	0.050	1057	7357	3.970	84.100	79.400	-5.59%
H	5750	HEAD	08/12/2020	24.0	23.3	0.050	1057	7357	3.930	80.500	78.600	-2.36%
L	750	BODY	07/01/2020	23.7	22.0	0.200	1054	7410	1.800	8.530	9.000	5.51%
P	835	BODY	07/04/2020	21.9	21.9	0.200	4d132	7551	1.980	9.960	9.900	-0.60%
P	835	BODY	07/06/2020	22.0	21.7	0.200	4d132	7551	2.020	9.960	10.100	1.41%
P	835	BODY	07/08/2020	22.0	21.8	0.200	4d132	7551	2.010	9.960	10.050	0.90%
D	835	BODY	08/10/2020	24.1	23.3	0.200	4d133	7488	1.910	9.750	9.550	-2.05%
L	1750	BODY	07/20/2020	24.3	21.9	0.100	1148	7406	3.880	36.300	38.800	6.89%
L	1750	BODY	07/26/2020	22.5	21.8	0.100	1148	7406	3.890	36.300	38.900	7.16%
G	1750	BODY	08/05/2020	21.7	22.2	0.100	1148	7538	3.650	36.300	36.500	0.55%
L	1750	BODY	08/17/2020	24.9	21.9	0.100	1150	7406	3.880	36.600	38.800	6.01%
J	1900	BODY	07/22/2020	22.7	23.5	0.100	5d080	7571	4.270	39.200	42.700	8.93%
J	1900	BODY	07/27/2020	22.7	22.5	0.100	5d080	7571	4.180	39.200	41.800	6.63%
J	1900	BODY	08/03/2020	21.1	22.6	0.100	5d080	7571	4.110	39.200	41.100	4.85%
J	1900	BODY	08/06/2020	22.1	21.9	0.100	5d149	7571	4.230	39.400	42.300	7.36%
J	1900	BODY	08/12/2020	21.9	22.3	0.100	5d149	7571	4.120	39.400	41.200	4.57%
O	2450	BODY	07/23/2020	25.0	23.2	0.100	981	7552	4.840	50.900	48.400	-4.91%
K	2450	BODY	08/07/2020	23.1	22.0	0.100	981	7409	5.190	50.900	51.900	1.96%
K	2450	BODY	08/17/2020	22.0	22.0	0.100	981	7409	5.300	50.900	53.000	4.13%
O	2600	BODY	08/03/2020	23.1	22.8	0.100	1004	7552	5.250	54.800	52.500	-4.20%
K	2600	BODY	08/07/2020	23.1	22.0	0.100	1064	7409	5.660	55.600	56.600	1.80%
G	5250	BODY	08/10/2020	23.1	23.1	0.050	1237	7538	3.600	75.600	72.000	-4.76%
G	5600	BODY	08/10/2020	23.1	23.1	0.050	1237	7538	3.920	78.500	78.400	-0.13%
G	5750	BODY	08/10/2020	23.1	23.1	0.050	1237	7538	3.730	75.900	74.600	-1.71%
G	5600	BODY	08/16/2020	22.1	22.6	0.050	1237	7538	3.720	78.500	74.400	-5.22%
G	5750	BODY	08/16/2020	22.1	22.6	0.050	1237	7538	3.570	75.900	71.400	-5.93%

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Table 10-8
System Verification Results – 10g

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 _{10g} (W/kg)	1 W Target SAR _{10g} (W/kg)	1 W Normalized SAR _{10g} (W/kg)	Deviation _{10g} (%)
L	1750	BODY	07/26/2020	22.5	21.8	0.100	1148	7406	2.050	19.300	20.500	6.22%
L	1750	BODY	07/29/2020	23.1	22.0	0.100	1148	7406	1.930	19.300	19.300	0.00%
L	1750	BODY	08/17/2020	24.9	21.9	0.100	1150	7406	2.030	19.400	20.300	4.64%
J	1900	BODY	08/03/2020	21.1	22.6	0.100	5d080	7571	2.080	20.600	20.800	0.97%
H	1900	BODY	08/08/2020	22.2	22.5	0.100	5d149	7357	2.000	20.700	20.000	-3.38%
H	1900	BODY	08/10/2020	24.0	22.7	0.100	5d149	7357	2.170	20.700	21.700	4.83%
K	2450	BODY	08/10/2020	23.2	22.2	0.100	981	7409	2.400	24.200	24.000	-0.83%
K	2600	BODY	08/10/2020	23.2	22.2	0.100	1064	7409	2.480	25.000	24.800	-0.80%
G	5250	BODY	07/19/2020	21.1	22.7	0.050	1237	7538	1.030	21.200	20.600	-2.83%
G	5600	BODY	07/19/2020	21.1	22.7	0.050	1237	7538	1.100	22.000	22.000	0.00%
G	5750	BODY	07/19/2020	21.1	22.7	0.050	1237	7538	1.010	21.200	20.200	-4.72%

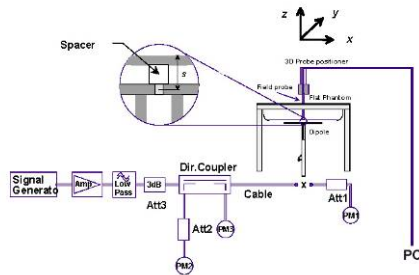


Figure 10-1
System Verification Setup Diagram



Figure 10-2
System Verification Setup Photo

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11 SAR DATA SUMMARY

11.1 Standalone Head SAR Data

Table 11-1
CDMA BC10 (§90S) Head SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
820.10	564	CDMA BC10 (S90S)	RC3 / SO55	24.7	24.51	0.13	Right	Cheek	01670	1:1	0.091	1.045	0.095	
820.10	564	CDMA BC10 (S90S)	RC3 / SO55	24.7	24.51	0.11	Right	Tilt	01670	1:1	0.067	1.045	0.070	
820.10	564	CDMA BC10 (S90S)	RC3 / SO55	24.7	24.51	0.04	Left	Cheek	01670	1:1	0.141	1.045	0.147	A1
820.10	564	CDMA BC10 (S90S)	RC3 / SO55	24.7	24.51	-0.15	Left	Tilt	01670	1:1	0.065	1.045	0.068	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. A	24.7	24.45	0.21	Right	Cheek	01670	1:1	0.090	1.059	0.095	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. A	24.7	24.45	-0.14	Right	Tilt	01670	1:1	0.068	1.059	0.072	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. A	24.7	24.45	0.03	Left	Cheek	01670	1:1	0.138	1.059	0.146	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. A	24.7	24.45	0.04	Left	Tilt	01670	1:1	0.067	1.059	0.071	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-2
CDMA BC0 (§22H) Head SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	24.7	24.49	0.18	Right	Cheek	01670	1:1	0.103	1.050	0.108	
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	24.7	24.49	0.13	Right	Tilt	01670	1:1	0.061	1.050	0.064	
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	24.7	24.49	0.02	Left	Cheek	01670	1:1	0.119	1.050	0.125	A2
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	24.7	24.49	0.00	Left	Tilt	01670	1:1	0.049	1.050	0.051	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	24.7	24.50	0.09	Right	Cheek	01670	1:1	0.101	1.047	0.106	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	24.7	24.50	0.04	Right	Tilt	01670	1:1	0.061	1.047	0.064	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	24.7	24.50	0.04	Left	Cheek	01670	1:1	0.115	1.047	0.120	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	24.7	24.50	-0.02	Left	Tilt	01670	1:1	0.051	1.047	0.053	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 11-3
PCS CDMA Head SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
1880.00	600	PCS CDMA	RC3 / SO55	24.7	24.56	0.13	Right	Cheek	01670	1:1	0.088	1.033	0.091	
1880.00	600	PCS CDMA	RC3 / SO55	24.7	24.56	-0.20	Right	Tilt	01670	1:1	0.038	1.033	0.039	
1880.00	600	PCS CDMA	RC3 / SO55	24.7	24.56	0.12	Left	Cheek	01670	1:1	0.075	1.033	0.077	
1880.00	600	PCS CDMA	RC3 / SO55	24.7	24.56	-0.03	Left	Tilt	01670	1:1	0.051	1.033	0.053	
1880.00	600	PCS CDMA	EVDO Rev. A	24.7	24.55	0.17	Right	Cheek	01670	1:1	0.088	1.035	0.091	A3
1880.00	600	PCS CDMA	EVDO Rev. A	24.7	24.55	0.17	Right	Tilt	01670	1:1	0.035	1.035	0.036	
1880.00	600	PCS CDMA	EVDO Rev. A	24.7	24.55	0.08	Left	Cheek	01670	1:1	0.079	1.035	0.082	
1880.00	600	PCS CDMA	EVDO Rev. A	24.7	24.55	0.20	Left	Tilt	01670	1:1	0.055	1.035	0.057	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-4
GSM 850 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	# of Time Slots	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
836.60	190	GSM 850	GSM	33.7	33.24	-0.11	Right	Cheek	01670	1	1:8.3	0.097	1.112	0.108	
836.60	190	GSM 850	GSM	33.7	33.24	-0.20	Right	Tilt	01670	1	1:8.3	0.049	1.112	0.054	
836.60	190	GSM 850	GSM	33.7	33.24	0.01	Left	Cheek	01670	1	1:8.3	0.109	1.112	0.121	
836.60	190	GSM 850	GSM	33.7	33.24	0.07	Left	Tilt	01670	1	1:8.3	0.054	1.112	0.060	
836.60	190	GSM 850	GPRS	29.2	29.01	-0.16	Right	Cheek	01670	4	1:2.076	0.120	1.045	0.125	
836.60	190	GSM 850	GPRS	29.2	29.01	-0.19	Right	Tilt	01670	4	1:2.076	0.059	1.045	0.062	
836.60	190	GSM 850	GPRS	29.2	29.01	0.12	Left	Cheek	01670	4	1:2.076	0.152	1.045	0.159	A4
836.60	190	GSM 850	GPRS	29.2	29.01	0.08	Left	Tilt	01670	4	1:2.076	0.069	1.045	0.072	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 11-5
GSM 1900 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	# of Time Slots	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1880.00	661	GSM 1900	GSM	30.7	30.70	0.01	Right	Cheek	01670	1	1:8.3	0.032	1.000	0.032	
1880.00	661	GSM 1900	GSM	30.7	30.70	0.21	Right	Tilt	01670	1	1:8.3	0.014	1.000	0.014	
1880.00	661	GSM 1900	GSM	30.7	30.70	-0.15	Left	Cheek	01670	1	1:8.3	0.028	1.000	0.028	
1880.00	661	GSM 1900	GSM	30.7	30.70	0.19	Left	Tilt	01670	1	1:8.3	0.017	1.000	0.017	
1880.00	661	GSM 1900	GPRS	27.2	27.16	0.21	Right	Cheek	01670	3	1:2.76	0.041	1.009	0.041	A5
1880.00	661	GSM 1900	GPRS	27.2	27.16	0.16	Right	Tilt	01670	3	1:2.76	0.020	1.009	0.020	
1880.00	661	GSM 1900	GPRS	27.2	27.16	0.10	Left	Cheek	01670	3	1:2.76	0.035	1.009	0.035	
1880.00	661	GSM 1900	GPRS	27.2	27.16	0.18	Left	Tilt	01670	3	1:2.76	0.022	1.009	0.022	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-6
UMTS 850 Head SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
836.60	4183	UMTS 850	RMC	24.7	24.41	-0.15	Right	Cheek	01696	1:1	0.087	1.069	0.093	
836.60	4183	UMTS 850	RMC	24.7	24.41	0.03	Right	Tilt	01696	1:1	0.053	1.069	0.057	
836.60	4183	UMTS 850	RMC	24.7	24.41	-0.02	Left	Cheek	01696	1:1	0.111	1.069	0.119	A6
836.60	4183	UMTS 850	RMC	24.7	24.41	-0.10	Left	Tilt	01696	1:1	0.050	1.069	0.053	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-7
UMTS 1750 Head SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
1732.40	1412	UMTS 1750	RMC	24.7	24.69	0.07	Right	Cheek	01688	1:1	0.140	1.002	0.140	A7
1732.40	1412	UMTS 1750	RMC	24.7	24.69	0.20	Right	Tilt	01688	1:1	0.044	1.002	0.044	
1732.40	1412	UMTS 1750	RMC	24.7	24.69	0.09	Left	Cheek	01688	1:1	0.095	1.002	0.095	
1732.40	1412	UMTS 1750	RMC	24.7	24.69	0.14	Left	Tilt	01688	1:1	0.077	1.002	0.077	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 11-8
UMTS 1900 Head SAR

MEASUREMENT RESULTS														
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.										(W/kg)		(W/kg)	
1880.00	9400	UMTS 1900	RMC	24.7	24.65	0.18	Right	Cheek	01670	1:1	0.078	1.012	0.079	A8
1880.00	9400	UMTS 1900	RMC	24.7	24.65	0.15	Right	Tilt	01670	1:1	0.039	1.012	0.039	
1880.00	9400	UMTS 1900	RMC	24.7	24.65	-0.08	Left	Cheek	01670	1:1	0.073	1.012	0.074	
1880.00	9400	UMTS 1900	RMC	24.7	24.65	-0.07	Left	Tilt	01670	1:1	0.042	1.012	0.043	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 11-9
LTE Band 71 Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
680.50	133297	Mid	LTE Band 71	20	25.5	25.44	0.02	0	Right	Cheek	QPSK	1	50	01704	1:1	0.116	1.014	0.118	A9
680.50	133297	Mid	LTE Band 71	20	24.5	24.34	0.07	1	Right	Cheek	QPSK	50	25	01704	1:1	0.089	1.038	0.092	
680.50	133297	Mid	LTE Band 71	20	25.5	25.44	0.19	0	Right	Tilt	QPSK	1	50	01704	1:1	0.051	1.014	0.052	
680.50	133297	Mid	LTE Band 71	20	24.5	24.34	0.21	1	Right	Tilt	QPSK	50	25	01704	1:1	0.034	1.038	0.035	
680.50	133297	Mid	LTE Band 71	20	25.5	25.44	0.03	0	Left	Cheek	QPSK	1	50	01704	1:1	0.102	1.014	0.103	
680.50	133297	Mid	LTE Band 71	20	24.5	24.34	0.05	1	Left	Cheek	QPSK	50	25	01704	1:1	0.080	1.038	0.083	
680.50	133297	Mid	LTE Band 71	20	25.5	25.44	0.06	0	Left	Tilt	QPSK	1	50	01704	1:1	0.036	1.014	0.037	
680.50	133297	Mid	LTE Band 71	20	24.5	24.34	0.16	1	Left	Tilt	QPSK	50	25	01704	1:1	0.029	1.038	0.030	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-10
LTE Band 12 Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
707.50	23095	Mid	LTE Band 12	10	25.5	25.46	0.18	0	Right	Cheek	QPSK	1	25	01704	1:1	0.140	1.009	0.141	A10
707.50	23095	Mid	LTE Band 12	10	24.5	24.49	0.08	1	Right	Cheek	QPSK	25	25	01704	1:1	0.102	1.002	0.102	
707.50	23095	Mid	LTE Band 12	10	25.5	25.46	0.16	0	Right	Tilt	QPSK	1	25	01704	1:1	0.059	1.009	0.060	
707.50	23095	Mid	LTE Band 12	10	24.5	24.49	0.14	1	Right	Tilt	QPSK	25	25	01704	1:1	0.038	1.002	0.038	
707.50	23095	Mid	LTE Band 12	10	25.5	25.46	-0.02	0	Left	Cheek	QPSK	1	25	01704	1:1	0.129	1.009	0.130	
707.50	23095	Mid	LTE Band 12	10	24.5	24.49	0.06	1	Left	Cheek	QPSK	25	25	01704	1:1	0.093	1.002	0.093	
707.50	23095	Mid	LTE Band 12	10	25.5	25.46	0.04	0	Left	Tilt	QPSK	1	25	01704	1:1	0.061	1.009	0.062	
707.50	23095	Mid	LTE Band 12	10	24.5	24.49	0.19	1	Left	Tilt	QPSK	25	25	01704	1:1	0.036	1.002	0.036	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 11-11
LTE Band 13 Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
782.00	23230	Mid	LTE Band 13	10	25.5	25.22	0.14	0	Right	Cheek	QPSK	1	0	01704	1:1	0.094	1.067	0.100	A11
782.00	23230	Mid	LTE Band 13	10	24.5	24.34	0.13	1	Right	Cheek	QPSK	25	12	01704	1:1	0.078	1.038	0.081	
782.00	23230	Mid	LTE Band 13	10	25.5	25.22	0.15	0	Right	Tilt	QPSK	1	0	01704	1:1	0.051	1.067	0.054	
782.00	23230	Mid	LTE Band 13	10	24.5	24.34	-0.14	1	Right	Tilt	QPSK	25	12	01704	1:1	0.044	1.038	0.046	
782.00	23230	Mid	LTE Band 13	10	25.5	25.22	0.06	0	Left	Cheek	QPSK	1	0	01704	1:1	0.094	1.067	0.100	
782.00	23230	Mid	LTE Band 13	10	24.5	24.34	0.08	1	Left	Cheek	QPSK	25	12	01704	1:1	0.084	1.038	0.087	
782.00	23230	Mid	LTE Band 13	10	25.5	25.22	0.13	0	Left	Tilt	QPSK	1	0	01704	1:1	0.038	1.067	0.041	
782.00	23230	Mid	LTE Band 13	10	24.5	24.34	0.16	1	Left	Tilt	QPSK	25	12	01704	1:1	0.033	1.038	0.034	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table 11-12
LTE Band 26 (Cell) Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.13	0.00	0	Right	Cheek	QPSK	1	36	01696	1:1	0.100	1.089	0.109	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.23	0.17	1	Right	Cheek	QPSK	36	0	01696	1:1	0.073	1.064	0.078	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.13	0.19	0	Right	Tilt	QPSK	1	36	01696	1:1	0.056	1.089	0.061	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.23	0.19	1	Right	Tilt	QPSK	36	0	01696	1:1	0.044	1.064	0.047	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.13	0.03	0	Left	Cheek	QPSK	1	36	01696	1:1	0.125	1.089	0.136	A12
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.23	0.18	1	Left	Cheek	QPSK	36	0	01696	1:1	0.101	1.064	0.107	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.13	0.15	0	Left	Tilt	QPSK	1	36	01696	1:1	0.053	1.089	0.058	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.23	-0.09	1	Left	Tilt	QPSK	36	0	01696	1:1	0.042	1.064	0.045	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-13
LTE Band 66 (AWS) Head SAR – Ant 2

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1770.00	132572	High	LTE Band 66 (AWS)	20	25.2	25.10	-0.06	0	Right	Cheek	QPSK	1	0	01696	1:1	0.171	1.023	0.175	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.2	24.08	0.16	1	Right	Cheek	QPSK	50	0	01696	1:1	0.109	1.028	0.112	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.2	25.10	0.17	0	Right	Tilt	QPSK	1	0	01696	1:1	0.050	1.023	0.051	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.2	24.08	0.16	1	Right	Tilt	QPSK	50	0	01696	1:1	0.035	1.028	0.036	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.2	25.10	0.10	0	Left	Cheek	QPSK	1	0	01696	1:1	0.085	1.023	0.087	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.2	24.08	0.15	1	Left	Cheek	QPSK	50	0	01696	1:1	0.065	1.028	0.067	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.2	25.10	-0.19	0	Left	Tilt	QPSK	1	0	01696	1:1	0.077	1.023	0.079	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.2	24.08	0.13	1	Left	Tilt	QPSK	50	0	01696	1:1	0.049	1.028	0.050	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																			
Spatial Peak										Head									
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g) averaged over 1 gram									

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Table 11-14
LTE Band 66 (AWS) Head SAR – Ant 3

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.5	23.50	-0.05	0	Right	Cheek	QPSK	1	50	01704	1:1	0.180	1.000	0.180	A13
1745.00	132322	Mid	LTE Band 66 (AWS)	20	22.5	22.50	0.02	1	Right	Cheek	QPSK	50	0	01704	1:1	0.122	1.000	0.122	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.5	23.50	0.06	0	Right	Tilt	QPSK	1	50	01704	1:1	0.056	1.000	0.056	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	22.5	22.50	0.10	1	Right	Tilt	QPSK	50	0	01704	1:1	0.041	1.000	0.041	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.5	23.50	0.10	0	Left	Cheek	QPSK	1	50	01704	1:1	0.097	1.000	0.097	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	22.5	22.50	0.16	1	Left	Cheek	QPSK	50	0	01704	1:1	0.071	1.000	0.071	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.5	23.50	0.21	0	Left	Tilt	QPSK	1	50	01704	1:1	0.062	1.000	0.062	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	22.5	22.50	0.09	1	Left	Tilt	QPSK	50	0	01704	1:1	0.047	1.000	0.047	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-15
LTE Band 25 (PCS) Head SAR – Ant 2

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1905.00	26590	High	LTE Band 25 (PCS)	20	25.2	25.17	0.11	0	Right	Cheek	QPSK	1	50	01696	1:1	0.097	1.007	0.098	A14
1905.00	26590	High	LTE Band 25 (PCS)	20	24.2	24.07	0.12	1	Right	Cheek	QPSK	50	0	01696	1:1	0.075	1.030	0.077	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.2	25.17	0.12	0	Right	Tilt	QPSK	1	50	01696	1:1	0.037	1.007	0.037	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.2	24.07	0.14	1	Right	Tilt	QPSK	50	0	01696	1:1	0.026	1.030	0.027	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.2	25.17	0.15	0	Left	Cheek	QPSK	1	50	01696	1:1	0.086	1.007	0.087	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.2	24.07	0.14	1	Left	Cheek	QPSK	50	0	01696	1:1	0.070	1.030	0.072	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.2	25.17	0.06	0	Left	Tilt	QPSK	1	50	01696	1:1	0.060	1.007	0.060	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.2	24.07	0.19	1	Left	Tilt	QPSK	50	0	01696	1:1	0.049	1.030	0.050	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-16
LTE Band 2 (PCS) Head SAR – Ant 3

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1900.00	19100	High	LTE Band 2 (PCS)	20	23.5	23.50	0.10	0	Right	Cheek	QPSK	1	50	01704	1:1	0.169	1.000	0.169	A15
1900.00	19100	High	LTE Band 2 (PCS)	20	22.5	22.38	0.14	1	Right	Cheek	QPSK	50	25	01704	1:1	0.141	1.028	0.145	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.5	23.50	0.14	0	Right	Tilt	QPSK	1	50	01704	1:1	0.100	1.000	0.100	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.5	22.38	0.04	1	Right	Tilt	QPSK	50	25	01704	1:1	0.080	1.028	0.082	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.5	23.50	0.11	0	Left	Cheek	QPSK	1	50	01704	1:1	0.124	1.000	0.124	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.5	22.38	0.20	1	Left	Cheek	QPSK	50	25	01704	1:1	0.092	1.028	0.095	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.5	23.50	0.19	0	Left	Tilt	QPSK	1	50	01704	1:1	0.085	1.000	0.085	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.5	22.38	0.06	1	Left	Tilt	QPSK	50	25	01704	1:1	0.069	1.028	0.071	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 11-17
LTE Band 41 Head SAR

MEASUREMENT RESULTS																					
1 CC Uplink 2 CC Uplink, Power Class	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR(1g)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.														(W/kg)		(W/kg)		
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	25.2	24.62	0.17	0	Right	Cheek	QPSK	1	50	01704	1:158	0.034	1.143	0.039	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	24.2	24.17	0.12	1	Right	Cheek	QPSK	50	50	01704	1:158	0.029	1.007	0.029	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	25.2	24.62	0.11	0	Right	Tilt	QPSK	1	50	01704	1:158	0.014	1.143	0.016	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	24.2	24.17	0.13	1	Right	Tilt	QPSK	50	50	01704	1:158	0.009	1.007	0.009	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	25.2	24.62	0.19	0	Left	Cheek	QPSK	1	50	01704	1:158	0.043	1.143	0.049	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	25.2	24.52	0.11	0	Left	Cheek	QPSK	1	99	01704	1:158	0.046	1.169	0.054	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	24.2	24.17	0.15	1	Left	Cheek	QPSK	50	50	01704	1:158	0.034	1.007	0.034	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	27.7	26.52	0.21	0	Left	Cheek	QPSK	1	50	01704	1:231	0.047	1.312	0.062	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	27.7	26.31	0.02	0	Left	Cheek	QPSK	1	99	01704	1:231	0.050	1.377	0.069	A16
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	LTE Band 41	20	25.2	24.40	-0.02	0	Left	Cheek	QPSK	1	99	01704	1:158	0.038	1.202	0.046	
	SCC	2525.80	39948	Low									QPSK	1	0						
2 CC Uplink - Power Class 2	PCC	2506.00	39750	Low	LTE Band 41	20	27.7	26.54	0.10	0	Left	Cheek	QPSK	1	99	01704	1:231	0.045	1.306	0.059	
	SCC	2525.80	39948	Low									QPSK	1	0						
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	25.2	24.62	0.17	0	Left	Tilt	QPSK	1	50	01704	1:158	0.015	1.143	0.017	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	24.2	24.17	0.14	1	Left	Tilt	QPSK	50	50	01704	1:158	0.013	1.007	0.013	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-18
NR Band n71 Head SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.														(W/kg)			
680.50	136100	Mid	NR Band n71	20	25.7	25.36	0.03	0	Right	Cheek	DFT-S-OFDM QPSK	1	53	01738	1.1	0.136	1.081	0.147
680.50	136100	Mid	NR Band n71	20	25.7	25.46	0.08	0	Right	Cheek	DFT-S-OFDM QPSK	50	28	01738	1.1	0.129	1.057	0.136
680.50	136100	Mid	NR Band n71	20	24.2	23.91	-0.12	1.5	Right	Cheek	CP-OFDM QPSK	1	1	01738	1.1	0.079	1.069	0.084
680.50	136100	Mid	NR Band n71	20	25.7	25.36	0.14	0	Right	Tilt	DFT-S-OFDM QPSK	1	53	01738	1.1	0.053	1.081	0.057
680.50	136100	Mid	NR Band n71	20	25.7	25.46	0.12	0	Right	Tilt	DFT-S-OFDM QPSK	50	28	01738	1.1	0.049	1.057	0.052
680.50	136100	Mid	NR Band n71	20	25.7	25.36	0.10	0	Left	Cheek	DFT-S-OFDM QPSK	1	53	01738	1.1	0.130	1.081	0.141
680.50	136100	Mid	NR Band n71	20	25.7	25.46	0.01	0	Left	Cheek	DFT-S-OFDM QPSK	50	28	01738	1.1	0.125	1.057	0.132
680.50	136100	Mid	NR Band n71	20	25.7	25.36	0.20	0	Left	Tilt	DFT-S-OFDM QPSK	1	53	01738	1.1	0.047	1.081	0.051
680.50	136100	Mid	NR Band n71	20	25.7	25.46	0.19	0	Left	Tilt	DFT-S-OFDM QPSK	50	28	01738	1.1	0.047	1.057	0.050
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 11-19
NR Band n66 (AWS) Antenna 2 Standalone Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.19	0.14	0	Right	Cheek	DFT-S-OFDM QPSK	1	108	01738	1:1	0.178	1.002	0.178	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.04	0.05	0	Right	Cheek	DFT-S-OFDM QPSK	108	54	01738	1:1	0.169	1.038	0.175	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.7	23.15	0.00	1.5	Right	Cheek	CP-OFDM QPSK	1	1	01738	1:1	0.099	1.135	0.112	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.19	0.02	0	Right	Tilt	DFT-S-OFDM QPSK	1	108	01738	1:1	0.064	1.002	0.064	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.04	0.12	0	Right	Tilt	DFT-S-OFDM QPSK	108	54	01738	1:1	0.070	1.038	0.073	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.19	0.09	0	Left	Cheek	DFT-S-OFDM QPSK	1	108	01738	1:1	0.108	1.002	0.108	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.04	-0.05	0	Left	Cheek	DFT-S-OFDM QPSK	108	54	01738	1:1	0.100	1.038	0.104	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.19	0.19	0	Left	Tilt	DFT-S-OFDM QPSK	1	108	01738	1:1	0.073	1.002	0.073	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.04	0.10	0	Left	Tilt	DFT-S-OFDM QPSK	108	54	01738	1:1	0.088	1.038	0.091	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																			
Spatial Peak									Head										
Uncontrolled Exposure/General Population									1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-20
NR Band n66 (AWS) Antenna 3 Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.08	0.01	0	Right	Cheek	DFT-S-OFDM QPSK	1	108	01738	1:1	0.235	1.028	0.242	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.08	0.15	0	Right	Cheek	DFT-S-OFDM QPSK	108	54	01738	1:1	0.247	1.028	0.254	A18
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.7	23.46	0.05	1.5	Right	Cheek	CP-OFDM QPSK	1	1	01738	1:1	0.140	1.057	0.148	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.08	0.14	0	Right	Tilt	DFT-S-OFDM QPSK	1	108	01738	1:1	0.104	1.028	0.107	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.08	0.14	0	Right	Tilt	DFT-S-OFDM QPSK	108	54	01738	1:1	0.102	1.028	0.105	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.08	0.09	0	Left	Cheek	DFT-S-OFDM QPSK	1	108	01738	1:1	0.133	1.028	0.137	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.08	0.04	0	Left	Cheek	DFT-S-OFDM QPSK	108	54	01738	1:1	0.143	1.028	0.147	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.08	0.19	0	Left	Tilt	DFT-S-OFDM QPSK	1	108	01738	1:1	0.143	1.028	0.147	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.08	0.09	0	Left	Tilt	DFT-S-OFDM QPSK	108	54	01738	1:1	0.153	1.028	0.157	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-21
NR Band n25 (PCS) Antenna 2 Standalone Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.01	0.15	0	Right	Cheek	DFT-S-OFDM QPSK	1	108	01720	1:1	0.105	1.045	0.110	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.02	0.09	0	Right	Cheek	DFT-S-OFDM QPSK	108	54	01720	1:1	0.114	1.042	0.119	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.7	23.02	0.14	1.5	Right	Cheek	CP-OFDM QPSK	1	1	01720	1:1	0.064	1.169	0.075	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.01	0.21	0	Right	Tilt	DFT-S-OFDM QPSK	1	108	01720	1:1	0.055	1.045	0.057	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.02	0.17	0	Right	Tilt	DFT-S-OFDM QPSK	108	54	01720	1:1	0.050	1.042	0.052	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.01	0.06	0	Left	Cheek	DFT-S-OFDM QPSK	1	108	01720	1:1	0.092	1.045	0.096	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.02	0.12	0	Left	Cheek	DFT-S-OFDM QPSK	108	54	01720	1:1	0.093	1.042	0.097	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.01	0.16	0	Left	Tilt	DFT-S-OFDM QPSK	1	108	01720	1:1	0.061	1.045	0.064	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.02	0.12	0	Left	Tilt	DFT-S-OFDM QPSK	108	54	01720	1:1	0.065	1.042	0.068	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 11-22
NR Band n25 (PCS) Antenna 3 Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.16	0.15	0	Right	Cheek	DFT-S-OFDM QPSK	1	108	01720	1:1	0.345	1.009	0.348	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.17	0.07	0	Right	Cheek	DFT-S-OFDM QPSK	108	54	01720	1:1	0.348	1.007	0.350	A19
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.7	23.42	0.10	1.5	Right	Cheek	CP-OFDM QPSK	1	1	01720	1:1	0.245	1.067	0.261	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.16	0.02	0	Right	Tilt	DFT-S-OFDM QPSK	1	108	01720	1:1	0.137	1.009	0.138	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.17	0.12	0	Right	Tilt	DFT-S-OFDM QPSK	108	54	01720	1:1	0.146	1.007	0.147	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.16	0.09	0	Left	Cheek	DFT-S-OFDM QPSK	1	108	01720	1:1	0.173	1.009	0.175	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.17	0.10	0	Left	Cheek	DFT-S-OFDM QPSK	108	54	01720	1:1	0.186	1.007	0.187	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.16	-0.18	0	Left	Tilt	DFT-S-OFDM QPSK	1	108	01720	1:1	0.181	1.009	0.183	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.17	0.01	0	Left	Tilt	DFT-S-OFDM QPSK	108	54	01720	1:1	0.188	1.007	0.189	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-23
NR Band n41 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)			(W/kg)		
2592.99	518598	Mid	NR Band n41	100	27.7	27.61	-0.09	0	Right	Cheek	DFT-S-OFDM QPSK	1	137	01738	21.43	0.090	1.021	1.010	0.093	
2592.99	518598	Mid	NR Band n41	100	27.7	27.58	-0.09	0	Right	Cheek	DFT-S-OFDM QPSK	135	69	01738	21.43	0.101	1.028	1.010	0.105	
2592.99	518598	Mid	NR Band n41	100	27.7	27.61	-0.21	0	Right	Tilt	DFT-S-OFDM QPSK	1	137	01738	21.43	0.025	1.021	1.010	0.026	
2592.99	518598	Mid	NR Band n41	100	27.7	27.58	0.12	0	Right	Tilt	DFT-S-OFDM QPSK	135	69	01738	21.43	0.037	1.028	1.010	0.038	
2592.99	518598	Mid	NR Band n41	100	27.7	27.61	0.08	0	Left	Cheek	DFT-S-OFDM QPSK	1	137	01738	21.43	0.087	1.021	1.010	0.090	
2592.99	518598	Mid	NR Band n41	100	27.7	27.58	0.12	0	Left	Cheek	DFT-S-OFDM QPSK	135	69	01738	21.43	0.118	1.028	1.010	0.122	A20
2592.99	518598	Mid	NR Band n41	100	26.2	26.08	-0.04	1.5	Left	Cheek	CP-OFDM QPSK	1	1	01738	21.43	0.080	1.028	1.010	0.083	
2592.99	518598	Mid	NR Band n41	100	27.7	27.61	-0.12	0	Left	Tilt	DFT-S-OFDM QPSK	1	137	01738	21.43	0.056	1.021	1.010	0.058	
2592.99	518598	Mid	NR Band n41	100	27.7	27.58	0.04	0	Left	Tilt	DFT-S-OFDM QPSK	135	69	01738	21.43	0.062	1.028	1.010	0.064	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram											

Note: The reported SAR was scaled to the 23.57% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 23.57% per the manufacturer.

Table 11-24
DTS Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2437	6	802.11b	DSSS	22	16.0	15.80	0.18	Right	Cheek	1	04732	1	99.7	0.534	0.338	1.047	1.003	0.355	A21
2437	6	802.11b	DSSS	22	16.0	15.80	-0.17	Right	Tilt	1	04732	1	99.7	0.254	-	1.047	1.003	-	
2437	6	802.11b	DSSS	22	16.0	15.80	0.15	Left	Cheek	1	04732	1	99.7	0.118	-	1.047	1.003	-	
2437	6	802.11b	DSSS	22	16.0	15.80	-0.10	Left	Tilt	1	04732	1	99.7	0.100	-	1.047	1.003	-	
2412	1	802.11b	DSSS	22	16.0	15.86	-0.04	Right	Cheek	2	04732	1	99.7	0.468	0.334	1.033	1.003	0.346	
2412	1	802.11b	DSSS	22	16.0	15.86	0.06	Right	Tilt	2	04732	1	99.7	0.348	0.284	1.033	1.003	0.294	
2412	1	802.11b	DSSS	22	16.0	15.86	-0.17	Left	Cheek	2	04732	1	99.7	0.254	-	1.033	1.003	-	
2412	1	802.11b	DSSS	22	16.0	15.86	0.16	Left	Tilt	2	04732	1	99.7	0.275	-	1.033	1.003	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

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**Table 11-25
NII Head SAR**

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Dual Display Configuration	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														W/kg	(W/kg)	(W/kg)	(W/kg)		
5280	56	802.11a	OFDM	20	17.0	16.91	0.06	Right	Cheek	1	-	01498	6	97.6	0.682	0.256	1.021	1.025	0.268	
5280	56	802.11a	OFDM	20	17.0	16.91	0.16	Right	Tilt	1	-	01498	6	97.6	0.487	-	1.021	1.025	-	
5280	56	802.11a	OFDM	20	17.0	16.91	-0.05	Left	Cheek	1	-	01498	6	97.6	0.394	-	1.021	1.025	-	
5280	56	802.11a	OFDM	20	17.0	16.91	0.14	Left	Tilt	1	-	01498	6	97.6	0.394	-	1.021	1.025	-	
5280	56	802.11a	OFDM	20	17.0	16.90	0.11	Right	Cheek	2	-	01498	6	97.8	0.736	0.336	1.023	1.022	0.351	
5280	56	802.11a	OFDM	20	17.0	16.90	0.10	Right	Tilt	2	-	01498	6	97.8	0.675	-	1.023	1.022	-	
5280	56	802.11a	OFDM	20	17.0	16.90	0.12	Left	Cheek	2	-	01498	6	97.8	0.521	-	1.023	1.022	-	
5280	56	802.11a	OFDM	20	17.0	16.90	0.15	Left	Tilt	2	-	01498	6	97.8	0.422	-	1.023	1.022	-	
5630	126	802.11n	OFDM	40	15.0	14.85	0.19	Right	Cheek	1	-	01498	13.5	95.0	0.078	-	1.035	1.053	-	
5630	126	802.11n	OFDM	40	15.0	14.85	0.15	Right	Tilt	1	-	01498	13.5	95.0	0.079	0.041	1.035	1.053	0.045	
5630	126	802.11n	OFDM	40	15.0	14.85	0.16	Left	Cheek	1	-	01498	13.5	95.0	0.061	-	1.035	1.053	-	
5630	126	802.11n	OFDM	40	15.0	14.85	0.12	Left	Tilt	1	-	01498	13.5	95.0	0.074	-	1.035	1.053	-	
5550	110	802.11n	OFDM	40	15.0	14.94	0.12	Right	Cheek	2	-	01498	13.5	95.2	0.522	0.199	1.014	1.050	0.212	
5550	110	802.11n	OFDM	40	15.0	14.94	0.17	Right	Tilt	2	-	01498	13.5	95.2	0.444	-	1.014	1.050	-	
5550	110	802.11n	OFDM	40	15.0	14.94	0.15	Left	Cheek	2	-	01498	13.5	95.2	0.302	-	1.014	1.050	-	
5550	110	802.11n	OFDM	40	15.0	14.94	0.19	Left	Tilt	2	-	01498	13.5	95.2	0.291	-	1.014	1.050	-	
5825	165	802.11a	OFDM	20	17.0	16.72	0.12	Right	Cheek	1	-	01498	6	97.6	0.226	-	1.067	1.025	-	
5825	165	802.11a	OFDM	20	17.0	16.72	0.18	Right	Tilt	1	-	01498	6	97.6	0.250	0.122	1.067	1.025	0.133	
5825	165	802.11a	OFDM	20	17.0	16.72	0.14	Left	Cheek	1	-	01498	6	97.6	0.176	-	1.067	1.025	-	
5825	165	802.11a	OFDM	20	17.0	16.72	0.12	Left	Tilt	1	-	01498	6	97.6	0.195	-	1.067	1.025	-	
5785	157	802.11a	OFDM	20	17.0	16.80	-0.01	Right	Cheek	2	-	01498	6	97.8	0.797	0.369	1.047	1.022	0.395	
5785	157	802.11a	OFDM	20	17.0	16.80	0.13	Right	Cheek	2	1	01498	6	97.8	0.050	0.014	1.047	1.022	0.015	
5785	157	802.11a	OFDM	20	17.0	16.80	-0.17	Right	Cheek	2	3	01498	6	97.8	0.314	0.428	1.047	1.022	0.458	A22
5785	157	802.11a	OFDM	20	17.0	16.80	0.04	Right	Tilt	2	-	01498	6	97.8	0.599	-	1.047	1.022	-	
5785	157	802.11a	OFDM	20	17.0	16.80	0.19	Left	Cheek	2	-	01498	6	97.8	0.593	-	1.047	1.022	-	
5785	157	802.11a	OFDM	20	17.0	16.80	0.11	Left	Tilt	2	-	01498	6	97.8	0.567	-	1.047	1.022	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram											

Note: 1) Green entries represent additional Head SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Head SAR Position (DD #3: 360 degrees)

**Table 11-26
DSS Head SAR**

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)			(W/kg)	
2441.00	39	Bluetooth	FHSS	11.0	10.38	-0.05	Right	Cheek	01456	1	77.1	0.038	1.153	1.297	0.057	A23
2441.00	39	Bluetooth	FHSS	11.0	10.38	-0.14	Right	Tilt	01456	1	77.1	0.020	1.153	1.297	0.030	
2441.00	39	Bluetooth	FHSS	11.0	10.38	-0.15	Left	Cheek	01456	1	77.1	0.010	1.153	1.297	0.015	
2441.00	39	Bluetooth	FHSS	11.0	10.38	0.03	Left	Tilt	01456	1	77.1	0.005	1.153	1.297	0.007	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram								

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11.2 Standalone Body-Worn SAR Data

Table 11-27
GSM/UMTS/CDMA Body-Worn SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
820.10	564	CDMA BC10 (S90S)	TDSO / SO32	24.7	24.34	-0.12	10 mm	01688	N/A	1:1	back	0.308	1.086	0.334	A24
836.52	384	CDMA BC0 (S22H)	TDSO / SO32	24.7	24.58	-0.06	10 mm	01688	N/A	1:1	back	0.493	1.028	0.507	A26
1851.25	25	PCS CDMA	TDSO / SO32	24.7	24.40	0.18	10 mm	01670	N/A	1:1	back	0.661	1.072	0.709	
1880.00	600	PCS CDMA	TDSO / SO32	24.7	24.50	-0.12	10 mm	01670	N/A	1:1	back	0.585	1.047	0.612	
1908.75	1175	PCS CDMA	TDSO / SO32	24.7	24.38	0.04	10 mm	01670	N/A	1:1	back	0.677	1.076	0.728	A28
836.60	190	GSM 850	GSM	33.7	33.24	-0.03	10 mm	01688	1	1:8.3	back	0.471	1.112	0.524	
824.20	128	GSM 850	GPRS	29.2	28.95	-0.01	10 mm	01688	4	1:2.076	back	0.579	1.059	0.613	
836.60	190	GSM 850	GPRS	29.2	29.01	0.00	10 mm	01688	4	1:2.076	back	0.574	1.045	0.600	
848.80	251	GSM 850	GPRS	29.2	29.09	-0.01	10 mm	01688	4	1:2.076	back	0.645	1.026	0.662	A30
1880.00	661	GSM 1900	GSM	30.7	30.70	0.08	10 mm	01670	1	1:8.3	back	0.274	1.000	0.274	
1880.00	661	GSM 1900	GPRS	27.2	27.16	0.07	10 mm	01670	3	1:2.76	back	0.342	1.009	0.345	A31
836.60	4183	UMTS 850	RMC	24.7	24.41	0.00	10 mm	01688	N/A	1:1	back	0.519	1.069	0.555	A33
1712.40	1312	UMTS 1750	RMC	24.7	24.70	0.08	10 mm	01670	N/A	1:1	back	0.831	1.000	0.831	
1732.40	1412	UMTS 1750	RMC	24.7	24.69	0.08	10 mm	01670	N/A	1:1	back	0.845	1.002	0.847	
1752.60	1513	UMTS 1750	RMC	24.7	24.68	0.00	10 mm	01670	N/A	1:1	back	0.903	1.005	0.908	A34
1852.40	9262	UMTS 1900	RMC	24.7	24.66	0.08	10 mm	01670	N/A	1:1	back	0.696	1.009	0.702	A36
1880.00	9400	UMTS 1900	RMC	24.7	24.65	0.05	10 mm	01670	N/A	1:1	back	0.635	1.012	0.643	
1907.60	9538	UMTS 1900	RMC	24.7	24.70	0.05	10 mm	01670	N/A	1:1	back	0.655	1.000	0.655	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak															
Uncontrolled Exposure/General Population															

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Table 11-28
LTE Body-Worn SAR

MEASUREMENT RESULTS																			
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	(W/kg)														(W/kg)			
680.50	133297	Mid	LTE Band 71	20	25.5	25.44	0.01	0	01696	QPSK	1	50	10 mm	back	1:1	0.310	1.014	0.314	A38
680.50	133297	Mid	LTE Band 71	20	24.5	24.34	0.00	1	01696	QPSK	50	25	10 mm	back	1:1	0.243	1.038	0.252	
707.50	23095	Mid	LTE Band 12	10	25.5	25.46	-0.05	0	01696	QPSK	1	25	10 mm	back	1:1	0.304	1.009	0.307	A39
707.50	23095	Mid	LTE Band 12	10	24.5	24.49	-0.02	1	01696	QPSK	25	25	10 mm	back	1:1	0.273	1.002	0.274	
782.00	23230	Mid	LTE Band 13	10	25.5	25.22	-0.15	0	01696	QPSK	1	0	10 mm	back	1:1	0.330	1.067	0.352	A40
782.00	23230	Mid	LTE Band 13	10	24.5	24.34	0.05	1	01696	QPSK	25	12	10 mm	back	1:1	0.269	1.038	0.279	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.13	-0.02	0	01712	QPSK	1	36	10 mm	back	1:1	0.468	1.089	0.510	A41
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.23	-0.04	1	01712	QPSK	36	0	10 mm	back	1:1	0.400	1.064	0.426	
1720.00	132072	Low	LTE Band 66 (AWS)	20	25.2	25.06	0.16	0	01696	QPSK	1	50	10 mm	back	1:1	0.961	1.033	0.993	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.2	24.91	0.06	0	01696	QPSK	1	50	10 mm	back	1:1	1.010	1.069	1.080	A42
1770.00	132572	High	LTE Band 66 (AWS)	20	25.2	25.10	-0.20	0	01696	QPSK	1	0	10 mm	back	1:1	0.950	1.023	0.972	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.2	24.08	-0.17	1	01696	QPSK	50	0	10 mm	back	1:1	0.777	1.028	0.799	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.2	24.00	0.13	1	01696	QPSK	100	0	10 mm	back	1:1	0.781	1.047	0.818	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.2	25.17	0.05	0	01704	QPSK	1	50	10 mm	back	1:1	0.580	1.007	0.584	A44
1905.00	26590	High	LTE Band 25 (PCS)	20	24.2	24.07	0.10	1	01704	QPSK	50	0	10 mm	back	1:1	0.503	1.030	0.518	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-29
LTE Body-Worn SAR – Ant 3

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.5	23.50	-0.04	0	01704	QPSK	1	50	10 mm	back	1:1	0.352	1.000	0.352	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	22.5	22.50	-0.05	1	01704	QPSK	50	0	10 mm	back	1:1	0.285	1.000	0.285	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.5	23.50	0.04	0	01704	QPSK	1	50	10 mm	back	1:1	0.403	1.000	0.403	A46
1900.00	19100	High	LTE Band 2 (PCS)	20	22.5	22.38	0.12	1	01704	QPSK	50	25	10 mm	back	1:1	0.330	1.028	0.339	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 11-30
LTE B41 Body-Worn SAR

MEASUREMENT RESULTS																					
1 CC Uplink 2 CC Uplink, Power Class	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
		MHz	Ch.															(W/kg)		(W/kg)	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	25.2	24.62	-0.20	0	01712	QPSK	1	50	10 mm	back	1:1.58	0.386	1.143	0.441	A48
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	25.2	24.52	-0.16	0	01712	QPSK	1	99	10 mm	back	1:1.58	0.352	1.169	0.411	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	24.2	24.17	0.04	1	01712	QPSK	50	50	10 mm	back	1:1.58	0.327	1.007	0.329	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	27.7	26.52	0.05	0	01712	QPSK	1	50	10 mm	back	1:2.31	0.370	1.312	0.485	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	27.7	26.31	0.08	0	01712	QPSK	1	99	10 mm	back	1:2.31	0.357	1.377	0.492	
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	LTE Band 41	20	25.2	24.40	0.03	0	01712	QPSK	1	99	10 mm	back	1:1.58	0.309	1.202	0.371	
2 CC Uplink - Power Class 3	SCC	2525.80	39948	Low		20							1	0							
2 CC Uplink - Power Class 2	PCC	2506.00	39750	Low	LTE Band 41	20	27.7	26.54	0.03	0	01712	QPSK	1	99	10 mm	back	1:2.31	0.345	1.306	0.451	
2 CC Uplink - Power Class 2	SCC	2525.80	39948	Low		20							1	0							
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak										Body											
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g)											
										averaged over 1 gram											

Table 11-31
NR Band n71 Body-Worn SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
680.50	136100	Mid	NR Band n71	20	25.7	25.36	0.00	0	01720	DFT-S-OFDM QPSK	1	53	10 mm	back	1:1	0.395	1.081	0.427	A50
680.50	136100	Mid	NR Band n71	20	25.7	25.46	-0.08	0	01720	DFT-S-OFDM QPSK	50	28	10 mm	back	1:1	0.393	1.057	0.415	
680.50	136100	Mid	NR Band n71	20	24.2	23.91	-0.03	1.5	01720	CP-OFDM QPSK	1	1	10 mm	back	1:1	0.255	1.069	0.273	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-32
NR Band n66 Standalone Body-Worn SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Position	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.19	0.00	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	back	1:1	1.140	1.002	1.142	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.04	-0.04	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	back	1:1	1.150	1.038	1.194	A51
1745.00	349000	Mid	NR Band n66 (AWS)	40	1	25.2	25.04	0.20	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	back	1:1	0.921	1.038	0.956	
1745.00	349000	Mid	NR Band n66 (AWS)	40	2	25.2	25.04	-0.04	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	back	1:1	1.010	1.038	1.048	
1745.00	349000	Mid	NR Band n66 (AWS)	40	3	25.2	25.04	0.07	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	back	1:1	0.402	1.038	0.417	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.7	23.15	-0.02	1.5	01720	CP-OFDM QPSK	1	1	10 mm	back	1:1	0.662	1.135	0.751	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	24.90	-0.05	0	01720	DFT-S-OFDM QPSK	216	0	10 mm	back	1:1	0.886	1.072	0.950	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.04	-0.05	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	back	1:1	1.140	1.038	1.183	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: 1) Green entries represent additional Body Worn SAR Position (DD #1: 0 degrees) 2) Purple entries represent additional Body Worn SAR Position (DD #2: 180 degrees) 3) Orange entries represent additional Body Worn SAR Position (DD #3: 360 degrees) 4) Blue entry represents variability measurement.

Table 11-33
NR Band n25 Standalone Body-Worn SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1882.50	376500	Mid	NR band n25 (PCS)	40	25.2	25.01	0.06	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	back	1:1	0.790	1.045	0.826	A53
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.02	0.15	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	back	1:1	0.773	1.042	0.805	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.7	23.02	0.09	1.5	01720	CP-OFDM QPSK	1	1	10 mm	back	1:1	0.534	1.169	0.624	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.00	0.14	0	01720	DFT-S-OFDM QPSK	216	0	10 mm	back	1:1	0.624	1.047	0.653	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																			

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Table 11-34
NR Band n41 Standalone Body-Worn SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)			(W/kg)		
2592.99	518598	Mid	NR Band n41	100	27.7	27.61	0.00	0	01738	DFT-S-OFDM QPSK	1	137	10 mm	back	21.43	0.591	1.021	1.010	0.609	
2592.99	518598	Mid	NR Band n41	100	27.7	27.58	-0.13	0	01738	DFT-S-OFDM QPSK	135	69	10 mm	back	21.43	0.636	1.028	1.010	0.660	A65
2592.99	518598	Mid	NR Band n41	100	26.2	26.08	-0.06	1.5	01738	CP-OFDM QPSK	1	1	10 mm	back	21.43	0.416	1.028	1.010	0.432	
2592.99	518598	Mid	NR Band n41	100	26.7	26.29	-0.02	1	01738	DFT-S-OFDM QPSK	270	0	10 mm	back	21.43	0.567	1.099	1.010	0.629	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Body 1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population									averaged over 1 gram											

Note: The reported SAR was scaled to the 23.57% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 23.57% per the manufacturer.

Table 11-35
NR Band n66 Antenna 3 Body-Worn SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.08	-0.06	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	back	1:1	0.730	1.028	0.750	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	25.08	-0.09	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	back	1:1	0.756	1.028	0.777	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.7	23.46	-0.01	1.5	01720	CP-OFDM QPSK	1	1	10 mm	back	1:1	0.440	1.057	0.465	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.2	24.96	-0.06	0	01720	DFT-S-OFDM QPSK	216	0	10 mm	back	1:1	0.635	1.057	0.671	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																			

Table 11-36
NR Band n25 Antenna 3 Body-Worn SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.16	-0.18	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	back	1:1	0.721	1.009	0.727	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.2	25.17	-0.20	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	back	1:1	0.786	1.007	0.792	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.7	23.42	-0.20	1.5	01720	CP-OFDM QPSK	1	1	10 mm	back	1:1	0.509	1.067	0.543	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																			

Table 11-37
DTS Body-Worn SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2437	6	802.11b	DSSS	22	21.0	20.90	-0.04	10 mm	1	04732	1	back	99.7	0.335	0.224	1.023	1.003	0.230	
2437	6	802.11b	DSSS	22	21.0	20.90	0.07	10 mm	2	04732	1	back	99.7	0.423	0.282	1.023	1.003	0.289	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-38
DTS Body-Worn SAR for Conditions with EN-DC Active

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												W/kg	(W/kg)			(W/kg)	
2437	6	802.11b	DSSS	22	16.0	15.80	-0.20	10 mm	1	1	back	99.7	0.101	0.066	1.047	1.003	0.069	
2412	1	802.11b	DSSS	22	16.0	15.86	-0.16	10 mm	2	1	back	99.7	0.099	0.073	1.033	1.003	0.076	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-39
DTS MIMO Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															(W/kg)	(W/kg)			(W/kg)	
2437	6	802.11b	DSSS	22	21.0	20.90	21.0	20.90	-0.01	10 mm	MIMO	01456	1	back	99.7	0.727	0.498	1.023	1.003	0.511	A56
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: To achieve the 24.0 dBm maximum allowed MIMO power shown in the documentation for channel 6, each antenna transmits at a maximum allowed power of 21.0 dBm.

Table 11-40
NII Body-Worn SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
5280	56	802.11a	OFDM	20	19.5	19.34	0.01	10 mm	1	01464	6	back	97.6	1.423	0.720	1.038	1.025	0.766	
5280	56	802.11a	OFDM	20	19.5	18.61	0.06	10 mm	2	01464	6	back	97.8	0.476	0.207	1.227	1.022	0.260	
5700	140	802.11a	OFDM	20	17.8	16.88	0.03	10 mm	1	01464	6	back	97.6	0.724	0.377	1.236	1.025	0.478	
5700	140	802.11a	OFDM	20	17.8	16.86	0.03	10 mm	2	01464	6	back	97.8	0.535	0.258	1.242	1.022	0.327	
5745	149	802.11a	OFDM	20	17.7	16.72	-0.15	10 mm	1	01464	6	back	97.6	0.859	0.456	1.253	1.025	0.586	
5785	157	802.11a	OFDM	20	19.9	19.07	-0.18	10 mm	1	01464	6	back	97.6	1.387	0.707	1.211	1.025	0.878	
5825	165	802.11a	OFDM	20	19.8	18.88	-0.18	10 mm	1	01464	6	back	97.6	1.387	0.735	1.236	1.025	0.931	
5785	157	802.11a	OFDM	20	19.9	18.99	0.00	10 mm	2	01464	6	back	97.8	0.751	0.330	1.233	1.022	0.416	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-41
NII Body-Worn SAR for Conditions with EN-DC Active

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
5280	56	802.11a	OFDM	20	17.0	16.91	-0.05	10 mm	1	01464	6	back	97.6	1.023	0.522	1.021	1.025	0.546	
5280	56	802.11a	OFDM	20	17.0	16.90	0.15	10 mm	2	01464	6	back	97.8	0.311	0.131	1.023	1.022	0.137	
5630	126	802.11n	OFDM	40	15.0	14.85	-0.12	10 mm	1	01464	13.5	back	95.0	0.519	0.276	1.035	1.053	0.301	
5550	110	802.11n	OFDM	40	15.0	14.94	0.14	10 mm	2	01464	13.5	back	95.2	0.392	0.169	1.014	1.050	0.180	
5825	165	802.11a	OFDM	20	17.0	16.72	-0.03	10 mm	1	01464	6	back	97.6	0.938	0.520	1.067	1.025	0.569	
5785	157	802.11a	OFDM	20	17.0	16.80	0.12	10 mm	2	01464	6	back	97.8	0.382	0.191	1.047	1.022	0.204	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak Uncontrolled Exposure/General Population																			

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Table 11-42
NII MIMO Body-Worn SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan
MHz	Ch.															W/kg
5260	52	802.11n	OFDM	20	17.4	16.99	17.4	16.50	-0.04	10 mm	MIMO	01464	13	back	97.6	1.141
5280	56	802.11n	OFDM	20	19.5	19.23	19.5	18.46	0.04	10 mm	MIMO	01464	13	back	97.6	1.805
5320	64	802.11n	OFDM	20	17.4	16.94	17.4	16.47	0.03	10 mm	MIMO	01464	13	back	97.6	1.309
5500	100	802.11n	OFDM	20	17.8	16.97	17.8	16.84	-0.03	10 mm	MIMO	01464	13	back	97.6	1.790
5600	120	802.11n	OFDM	20	17.3	16.54	17.3	16.36	-0.18	10 mm	MIMO	01464	13	back	97.6	1.763
5720	144	802.11n	OFDM	20	17.6	16.72	17.6	16.66	-0.05	10 mm	MIMO	01464	13	back	97.6	1.332
5745	149	802.11n	OFDM	20	17.4	16.52	17.4	16.84	-0.17	10 mm	MIMO	01464	13	back	97.6	1.434
5785	157	802.11n	OFDM	20	19.9	18.90	19.9	18.90	-0.15	10 mm	MIMO	01464	13	back	97.6	1.740
5825	165	802.11n	OFDM	20	19.6	16.70	19.6	18.70	-0.10	10 mm	MIMO	01464	13	back	97.6	1.923
5500	100	802.11n	OFDM	20	17.8	16.97	17.8	16.84	-0.04	10 mm	MIMO	01464	13	back	97.6	1.765
5785	157	802.11n	OFDM	20	19.9	18.90	19.9	18.90	-0.17	10 mm	MIMO	01464	13	back	97.6	2.008
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note:

To achieve the 20.4 dBm maximum allowed MIMO power shown in the documentation for channel 52 & 64, each antenna transmits at a maximum allowed power of 17.4 dBm.

To achieve the 22.5 dBm maximum allowed MIMO power shown in the documentation for channel 56, each antenna transmits at a maximum allowed power of 19.5 dBm.

To achieve the 20.8 dBm maximum allowed MIMO power shown in the documentation for channel 100, each antenna transmits at a maximum allowed power of 17.8 dBm.

To achieve the 20.3 dBm maximum allowed MIMO power shown in the documentation for channel 120, each antenna transmits at a maximum allowed power of 17.3 dBm.

To achieve the 20.6 dBm maximum allowed MIMO power shown in the documentation for channel 144, each antenna transmits at a maximum allowed power of 17.6 dBm.

To achieve the 20.4 dBm maximum allowed MIMO power shown in the documentation for channel 149, each antenna transmits at a maximum allowed power of 17.4 dBm.

To achieve the 22.9 dBm maximum allowed MIMO power shown in the documentation for channel 157, each antenna transmits at a maximum allowed power of 19.9 dBm.

To achieve the 22.6 dBm maximum allowed MIMO power shown in the documentation for channel 165, each antenna transmits at a maximum allowed power of 19.6 dBm.

Blue entries represent variability measurements.

Table 11-43
DSS Body-Worn SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.											(W/kg)				
2441	39	Bluetooth	FHSS	11.0	10.38	-0.08	10 mm	01456	1	back	77.1	0.022	1.153	1.297	0.033	A59
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram						

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11.3 Standalone Hotspot SAR Data

Table 11-44
GPRS/UMTS/CDMA Hotspot SAR Data

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Dual Display Configuration	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
Mhz	Ch.																	
820.10	564	CDMA BC10 (9905)	EVDO Rev. 0	24.7	24.44	0.03	10 mm	Ant 1	-	01688	N/A	1:1	back	0.465	1.062	0.494	A25	
820.10	564	CDMA BC10 (9905)	EVDO Rev. 0	24.7	24.44	0.02	10 mm	Ant 1	-	01688	N/A	1:1	front	0.404	1.062	0.429		
820.10	564	CDMA BC10 (9905)	EVDO Rev. 0	24.7	24.44	-0.07	10 mm	Ant 1	-	01688	N/A	1:1	bottom	0.216	1.062	0.229		
820.10	564	CDMA BC10 (9905)	EVDO Rev. 0	24.7	24.44	0.07	10 mm	Ant 1	-	01688	N/A	1:1	right	0.167	1.062	0.177		
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	24.7	24.53	-0.04	10 mm	Ant 1	-	01688	N/A	1:1	back	0.549	1.040	0.571	A27	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	24.7	24.53	0.03	10 mm	Ant 1	-	01688	N/A	1:1	front	0.492	1.040	0.512		
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	24.7	24.53	0.04	10 mm	Ant 1	-	01688	N/A	1:1	bottom	0.234	1.040	0.243		
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	24.7	24.53	-0.02	10 mm	Ant 1	-	01688	N/A	1:1	right	0.227	1.040	0.236		
1880.00	600	PCS CDMA	EVDO Rev. 0	22.7	22.66	0.04	10 mm	Ant 2	-	01670	N/A	1:1	back	0.400	1.009	0.404		
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	-0.02	10 mm	Ant 2	1	01670	N/A	1:1	back	0.566	1.042	0.590		
1880.00	600	PCS CDMA	EVDO Rev. 0	22.7	22.66	-0.01	10 mm	Ant 2	-	01670	N/A	1:1	front	0.286	1.009	0.289		
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	-0.01	10 mm	Ant 2	3	01670	N/A	1:1	front	0.702	1.042	0.731		
1851.25	25	PCS CDMA	EVDO Rev. 0	22.7	22.58	-0.04	10 mm	Ant 2	-	01670	N/A	1:1	bottom	0.733	1.028	0.754		
1880.00	600	PCS CDMA	EVDO Rev. 0	22.7	22.66	-0.02	10 mm	Ant 2	-	01670	N/A	1:1	bottom	0.855	1.009	0.863		
1908.75	1175	PCS CDMA	EVDO Rev. 0	22.7	22.62	-0.05	10 mm	Ant 2	-	01670	N/A	1:1	bottom	0.919	1.019	0.936	A29	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.7	24.48	-0.02	10 mm	Ant 2	1	01670	N/A	1:1	bottom	0.828	1.052	0.871		
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	0.01	10 mm	Ant 2	1	01670	N/A	1:1	bottom	0.765	1.042	0.797		
1908.75	1175	PCS CDMA	EVDO Rev. 0	24.7	24.49	0.03	10 mm	Ant 2	1	01670	N/A	1:1	bottom	0.648	1.050	0.680		
1880.00	600	PCS CDMA	EVDO Rev. 0	22.7	22.66	-0.12	10 mm	Ant 2	-	01670	N/A	1:1	left	0.092	1.009	0.093		
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	-0.01	10 mm	Ant 2	1	01670	N/A	1:1	left	0.087	1.042	0.091		
824.20	128	GSM 850	GPRS	29.2	28.95	-0.01	10 mm	Ant 1	-	01688	4	1:2.076	back	0.579	1.059	0.613		
836.60	190	GSM 850	GPRS	29.2	29.01	0.00	10 mm	Ant 1	-	01688	4	1:2.076	back	0.574	1.045	0.600		
848.80	251	GSM 850	GPRS	29.2	29.09	-0.01	10 mm	Ant 1	-	01688	4	1:2.076	back	0.645	1.026	0.662	A30	
824.20	128	GSM 850	GPRS	29.2	28.95	0.05	10 mm	Ant 1	-	01688	4	1:2.076	front	0.569	1.059	0.603		
836.60	190	GSM 850	GPRS	29.2	29.01	0.12	10 mm	Ant 1	-	01688	4	1:2.076	front	0.606	1.045	0.633		
848.80	251	GSM 850	GPRS	29.2	29.09	-0.01	10 mm	Ant 1	-	01688	4	1:2.076	front	0.628	1.026	0.644		
836.60	190	GSM 850	GPRS	29.2	29.01	0.03	10 mm	Ant 1	-	01688	4	1:2.076	bottom	0.338	1.045	0.353		
836.60	190	GSM 850	GPRS	29.2	29.01	0.01	10 mm	Ant 1	-	01688	4	1:2.076	right	0.344	1.045	0.359		
1880.00	661	GSM 1900	GPRS	27.2	27.16	0.07	10 mm	Ant 2	-	01670	3	1:2.76	back	0.342	1.009	0.345		
1880.00	661	GSM 1900	GPRS	27.2	27.16	-0.06	10 mm	Ant 2	-	01670	3	1:2.76	front	0.277	1.009	0.279		
1850.20	512	GSM 1900	GPRS	27.2	27.03	-0.01	10 mm	Ant 2	-	01670	3	1:2.76	bottom	0.546	1.040	0.568		
1880.00	661	GSM 1900	GPRS	27.2	27.16	-0.03	10 mm	Ant 2	-	01670	3	1:2.76	bottom	0.674	1.009	0.680		
1909.80	810	GSM 1900	GPRS	27.2	27.07	-0.07	10 mm	Ant 2	-	01670	3	1:2.76	bottom	0.750	1.030	0.773	A32	
1880.00	661	GSM 1900	GPRS	27.2	27.16	-0.07	10 mm	Ant 2	-	01670	3	1:2.76	left	0.067	1.009	0.068		
836.60	4183	UMTS 850	RMC	24.7	24.41	0.00	10 mm	Ant 1	-	01688	N/A	1:1	back	0.519	1.069	0.555	A33	
836.60	4183	UMTS 850	RMC	24.7	24.41	-0.03	10 mm	Ant 1	-	01688	N/A	1:1	front	0.458	1.069	0.490		
836.60	4183	UMTS 850	RMC	24.7	24.41	0.01	10 mm	Ant 1	-	01688	N/A	1:1	bottom	0.231	1.069	0.247		
836.60	4183	UMTS 850	RMC	24.7	24.41	-0.02	10 mm	Ant 1	-	01688	N/A	1:1	right	0.221	1.069	0.236		
1732.40	1412	UMTS 1750	RMC	22.7	22.68	-0.06	10 mm	Ant 2	-	01670	N/A	1:1	back	0.526	1.005	0.529		
1732.40	1412	UMTS 1750	RMC	24.7	24.69	0.02	10 mm	Ant 2	1	01670	N/A	1:1	back	0.481	1.002	0.482		
1732.40	1412	UMTS 1750	RMC	22.7	22.68	0.01	10 mm	Ant 2	-	01670	N/A	1:1	front	0.444	1.005	0.446		
1732.40	1412	UMTS 1750	RMC	24.7	24.69	-0.03	10 mm	Ant 2	3	01670	N/A	1:1	front	0.503	1.002	0.504		
1712.40	1312	UMTS 1750	RMC	22.7	22.70	-0.06	10 mm	Ant 2	-	01670	N/A	1:1	bottom	0.814	1.000	0.814		
1732.40	1412	UMTS 1750	RMC	22.7	22.68	-0.03	10 mm	Ant 2	-	01670	N/A	1:1	bottom	0.826	1.005	0.830		
1752.60	1513	UMTS 1750	RMC	22.7	22.68	-0.08	10 mm	Ant 2	-	01670	N/A	1:1	bottom	0.897	1.005	0.901	A35	
1732.40	1412	UMTS 1750	RMC	24.7	24.69	0.03	10 mm	Ant 2	1	01670	N/A	1:1	bottom	0.498	1.002	0.499		
1732.40	1412	UMTS 1750	RMC	22.7	22.68	-0.09	10 mm	Ant 2	-	01670	N/A	1:1	left	0.169	1.005	0.170		
1732.40	1412	UMTS 1750	RMC	24.7	24.69	0.06	10 mm	Ant 2	1	01670	N/A	1:1	left	0.063	1.002	0.063		
1880.00	9400	UMTS 1900	RMC	22.7	22.61	0.08	10 mm	Ant 2	-	01670	N/A	1:1	back	0.609	1.021	0.622		
1880.00	9400	UMTS 1900	RMC	24.7	24.65	-0.01	10 mm	Ant 2	1	01670	N/A	1:1	back	0.575	1.012	0.582		
1880.00	9400	UMTS 1900	RMC	22.7	22.61	0.04	10 mm	Ant 2	-	01670	N/A	1:1	front	0.470	1.021	0.480		
1880.00	9400	UMTS 1900	RMC	24.7	24.65	0.05	10 mm	Ant 2	3	01670	N/A	1:1	front	0.651	1.012	0.659		
1852.40	9262	UMTS 1900	RMC	22.7	22.67	-0.02	10 mm	Ant 2	-	01670	N/A	1:1	bottom	0.687	1.007	0.692		
1880.00	9400	UMTS 1900	RMC	22.7	22.61	0.00	10 mm	Ant 2	-	01670	N/A	1:1	bottom	0.778	1.021	0.794		
1907.60	9538	UMTS 1900	RMC	22.7	22.70	0.00	10 mm	Ant 2	-	01670	N/A	1:1	bottom	0.845	1.000	0.845	A37	
1880.00	9400	UMTS 1900	RMC	24.7	24.65	0.18	10 mm	Ant 2	1	01670	N/A	1:1	bottom	0.597	1.012	0.604		
1880.00	9400	UMTS 1900	RMC	22.7	22.61	-0.05	10 mm	Ant 2	-	01670	N/A	1:1	left	0.133	1.021	0.136		
1880.00	9400	UMTS 1900	RMC	24.7	24.65	0.10	10 mm	Ant 2	1	01670	N/A	1:1	left	0.071	1.012	0.072		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body											
Spatial Peak							1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population							averaged over 1 gram											

Note: 1) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

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Table 11-45
LTE Band 71 Hotspot SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
680.50	133297	Mid	LTE Band 71	20	25.5	25.44	0.01	0	01696	QPSK	1	50	10 mm	back	1:1	0.310	1.014	0.314	A38
680.50	133297	Mid	LTE Band 71	20	24.5	24.34	0.00	1	01696	QPSK	50	25	10 mm	back	1:1	0.243	1.038	0.252	
680.50	133297	Mid	LTE Band 71	20	25.5	25.44	-0.02	0	01696	QPSK	1	50	10 mm	front	1:1	0.259	1.014	0.263	
680.50	133297	Mid	LTE Band 71	20	24.5	24.34	0.01	1	01696	QPSK	50	25	10 mm	front	1:1	0.201	1.038	0.209	
680.50	133297	Mid	LTE Band 71	20	25.5	25.44	-0.04	0	01696	QPSK	1	50	10 mm	bottom	1:1	0.123	1.014	0.125	
680.50	133297	Mid	LTE Band 71	20	24.5	24.34	0.00	1	01696	QPSK	50	25	10 mm	bottom	1:1	0.110	1.038	0.114	
680.50	133297	Mid	LTE Band 71	20	25.5	25.44	0.04	0	01696	QPSK	1	50	10 mm	right	1:1	0.214	1.014	0.217	
680.50	133297	Mid	LTE Band 71	20	24.5	24.34	-0.04	1	01696	QPSK	50	25	10 mm	right	1:1	0.178	1.038	0.185	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-46
LTE Band 12 Hotspot SAR

MEASUREMENT RESULTS																			
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
																(W/kg)		(W/kg)	
707.50	23095	Mid	LTE Band 12	10	25.5	25.46	-0.05	0	01696	QPSK	1	25	10 mm	back	1:1	0.304	1.009	0.307	A39
707.50	23095	Mid	LTE Band 12	10	24.5	24.49	-0.02	1	01696	QPSK	25	25	10 mm	back	1:1	0.273	1.002	0.274	
707.50	23095	Mid	LTE Band 12	10	25.5	25.46	0.02	0	01696	QPSK	1	25	10 mm	front	1:1	0.277	1.009	0.279	
707.50	23095	Mid	LTE Band 12	10	24.5	24.49	0.00	1	01696	QPSK	25	25	10 mm	front	1:1	0.262	1.002	0.263	
707.50	23095	Mid	LTE Band 12	10	25.5	25.46	-0.01	0	01696	QPSK	1	25	10 mm	bottom	1:1	0.152	1.009	0.153	
707.50	23095	Mid	LTE Band 12	10	24.5	24.49	-0.03	1	01696	QPSK	25	25	10 mm	bottom	1:1	0.138	1.002	0.138	
707.50	23095	Mid	LTE Band 12	10	25.5	25.46	0.02	0	01696	QPSK	1	25	10 mm	right	1:1	0.146	1.009	0.147	
707.50	23095	Mid	LTE Band 12	10	24.5	24.49	-0.12	1	01696	QPSK	25	25	10 mm	right	1:1	0.129	1.002	0.129	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body											
Spatial Peak								1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population								averaged over 1 gram											

Table 11-47
LTE Band 13 Hotspot SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
782.00	23230	Mid	LTE Band 13	10	25.5	25.22	-0.15	0	01696	QPSK	1	0	10 mm	back	1:1	0.330	1.067	0.352	A40
782.00	23230	Mid	LTE Band 13	10	24.5	24.34	0.05	1	01696	QPSK	25	12	10 mm	back	1:1	0.269	1.038	0.279	
782.00	23230	Mid	LTE Band 13	10	25.5	25.22	0.01	0	01696	QPSK	1	0	10 mm	front	1:1	0.292	1.067	0.312	
782.00	23230	Mid	LTE Band 13	10	24.5	24.34	0.01	1	01696	QPSK	25	12	10 mm	front	1:1	0.235	1.038	0.244	
782.00	23230	Mid	LTE Band 13	10	25.5	25.22	-0.03	0	01696	QPSK	1	0	10 mm	bottom	1:1	0.176	1.067	0.188	
782.00	23230	Mid	LTE Band 13	10	24.5	24.34	-0.07	1	01696	QPSK	25	12	10 mm	bottom	1:1	0.163	1.038	0.169	
782.00	23230	Mid	LTE Band 13	10	25.5	25.22	-0.08	0	01696	QPSK	1	0	10 mm	right	1:1	0.094	1.067	0.100	
782.00	23230	Mid	LTE Band 13	10	24.5	24.34	-0.20	1	01696	QPSK	25	12	10 mm	right	1:1	0.085	1.038	0.088	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-48
LTE Band 26 (Cell) Hotspot SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.13	-0.02	0	01712	QPSK	1	36	10 mm	back	1:1	0.468	1.089	0.510	A41
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.23	-0.04	1	01712	QPSK	36	0	10 mm	back	1:1	0.400	1.064	0.426	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.13	-0.03	0	01712	QPSK	1	36	10 mm	front	1:1	0.427	1.089	0.465	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.23	0.02	1	01712	QPSK	36	0	10 mm	front	1:1	0.367	1.064	0.390	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.13	-0.02	0	01712	QPSK	1	36	10 mm	bottom	1:1	0.246	1.089	0.268	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.23	0.03	1	01712	QPSK	36	0	10 mm	bottom	1:1	0.222	1.064	0.236	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.5	25.13	-0.01	0	01712	QPSK	1	36	10 mm	right	1:1	0.231	1.089	0.252	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.5	24.23	-0.05	1	01712	QPSK	36	0	10 mm	right	1:1	0.196	1.064	0.209	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-49
LTE Band 66 (AWS) Hotspot SAR – Ant 2

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Configuration	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)		Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.															(W/kg)			(W/kg)	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.78	0.04	0	01704	QPSK	1	50	10 mm	back	1:1	0.557	1.102	0.614	
1720.00	132072	Low	LTE Band 66 (AWS)	20	1	25.2	25.06	-0.01	0	01696	QPSK	1	50	10 mm	back	1:1	0.776	1.033	0.802	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	1	25.2	24.91	0.04	0	01696	QPSK	1	50	10 mm	back	1:1	0.777	1.069	0.831	
1770.00	132572	High	LTE Band 66 (AWS)	20	1	25.2	25.10	-0.04	0	01696	QPSK	1	0	10 mm	back	1:1	0.795	1.023	0.813	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.76	0.07	0	01704	QPSK	50	0	10 mm	back	1:1	0.531	1.107	0.588	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.78	-0.07	0	01704	QPSK	1	50	10 mm	front	1:1	0.478	1.102	0.527	
1770.00	132572	High	LTE Band 66 (AWS)	20	3	25.2	25.10	-0.01	0	01696	QPSK	1	0	10 mm	front	1:1	0.672	1.023	0.687	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.76	-0.04	0	01704	QPSK	50	0	10 mm	front	1:1	0.456	1.107	0.505	
1720.00	132072	Low	LTE Band 66 (AWS)	20	-	23.2	22.74	-0.09	0	01704	QPSK	1	50	10 mm	bottom	1:1	0.694	1.112	0.772	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.78	-0.11	0	01704	QPSK	1	50	10 mm	bottom	1:1	0.833	1.102	0.918	
1770.00	132572	High	LTE Band 66 (AWS)	20	-	23.2	22.76	0.12	0	01704	QPSK	1	50	10 mm	bottom	1:1	0.946	1.107	1.047	A43
1720.00	132072	Low	LTE Band 66 (AWS)	20	1	25.2	25.06	-0.05	0	01696	QPSK	1	50	10 mm	bottom	1:1	0.718	1.033	0.742	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	1	25.2	24.91	0.00	0	01696	QPSK	1	50	10 mm	bottom	1:1	0.907	1.069	0.970	
1770.00	132572	High	LTE Band 66 (AWS)	20	1	25.2	25.10	-0.06	0	01696	QPSK	1	0	10 mm	bottom	1:1	0.836	1.023	0.855	
1720.00	132072	Low	LTE Band 66 (AWS)	20	-	23.2	22.73	-0.10	0	01704	QPSK	50	50	10 mm	bottom	1:1	0.683	1.114	0.761	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.76	-0.12	0	01704	QPSK	50	0	10 mm	bottom	1:1	0.797	1.107	0.882	
1770.00	132572	High	LTE Band 66 (AWS)	20	-	23.2	22.70	0.08	0	01704	QPSK	50	25	10 mm	bottom	1:1	0.876	1.122	0.983	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.71	-0.11	0	01704	QPSK	100	0	10 mm	bottom	1:1	0.817	1.119	0.914	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.78	-0.02	0	01704	QPSK	1	50	10 mm	left	1:1	0.176	1.102	0.194	
1770.00	132572	High	LTE Band 66 (AWS)	20	1	25.2	25.10	-0.03	0	01696	QPSK	1	0	10 mm	left	1:1	0.105	1.023	0.107	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.76	-0.01	0	01704	QPSK	50	0	10 mm	left	1:1	0.172	1.107	0.190	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak										Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																				

Note: 1) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

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Table 11-50
LTE Band 66 (AWS) Hotspot SAR – Ant 3

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.5	23.50	-0.04	0	01704	QPSK	1	50	10 mm	back	1:1	0.352	1.000	0.352	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	22.5	22.50	-0.05	1	01704	QPSK	50	0	10 mm	back	1:1	0.285	1.000	0.285	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.5	23.50	-0.06	0	01704	QPSK	1	50	10 mm	front	1:1	0.359	1.000	0.359	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	22.5	22.50	0.02	1	01704	QPSK	50	0	10 mm	front	1:1	0.262	1.000	0.262	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.5	23.50	-0.02	0	01704	QPSK	1	50	10 mm	bottom	1:1	0.141	1.000	0.141	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	22.5	22.50	-0.12	1	01704	QPSK	50	0	10 mm	bottom	1:1	0.099	1.000	0.099	
1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	23.49	-0.03	0	01704	QPSK	1	50	10 mm	right	1:1	0.617	1.002	0.618	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	23.5	23.50	0.03	0	01704	QPSK	1	50	10 mm	right	1:1	0.745	1.000	0.745	
1770.00	132572	High	LTE Band 66 (AWS)	20	23.5	23.49	0.01	0	01704	QPSK	1	50	10 mm	right	1:1	0.806	1.002	0.808	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	22.5	22.50	0.02	1	01704	QPSK	50	0	10 mm	right	1:1	0.579	1.000	0.579	
1720.00	132072	Low	LTE Band 66 (AWS)	20	22.5	22.49	0.00	1	01704	QPSK	100	0	10 mm	right	1:1	0.519	1.002	0.520	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body										
Spatial Peak									1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population									averaged over 1 gram										

Table 11-51
LTE Band 25 (PCS) Hotspot SAR – Ant 2

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Configuration	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	22.99	-0.06	0	01704	QPSK	1	50	10 mm	back	1:1	0.415	1.050	0.436	
1905.00	26590	High	LTE Band 25 (PCS)	20	1	25.2	25.17	0.08	0	01704	QPSK	1	50	10 mm	back	1:1	0.637	1.007	0.641	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	23.08	0.12	0	01704	QPSK	50	0	10 mm	back	1:1	0.440	1.028	0.452	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	22.99	0.06	0	01704	QPSK	1	50	10 mm	front	1:1	0.328	1.050	0.344	
1905.00	26590	High	LTE Band 25 (PCS)	20	3	25.2	25.17	-0.19	0	01704	QPSK	1	50	10 mm	front	1:1	0.742	1.007	0.747	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	23.08	0.14	0	01704	QPSK	50	0	10 mm	front	1:1	0.345	1.028	0.355	
1860.00	26140	Low	LTE Band 25 (PCS)	20	-	23.2	22.92	-0.03	0	01704	QPSK	1	99	10 mm	bottom	1:1	0.854	1.067	0.911	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	-	23.2	22.98	0.03	0	01704	QPSK	1	50	10 mm	bottom	1:1	0.838	1.052	0.882	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	22.99	-0.05	0	01704	QPSK	1	50	10 mm	bottom	1:1	0.903	1.050	0.948	
1905.00	26590	High	LTE Band 25 (PCS)	20	1	25.2	25.17	0.17	0	01704	QPSK	1	50	10 mm	bottom	1:1	0.542	1.007	0.546	
1860.00	26140	Low	LTE Band 25 (PCS)	20	-	23.2	23.04	0.04	0	01704	QPSK	50	50	10 mm	bottom	1:1	0.857	1.038	0.890	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	-	23.2	23.05	-0.02	0	01704	QPSK	50	50	10 mm	bottom	1:1	0.904	1.035	0.936	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	23.08	0.04	0	01704	QPSK	50	0	10 mm	bottom	1:1	0.973	1.028	1.000	A45
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	22.98	-0.02	0	01704	QPSK	100	0	10 mm	bottom	1:1	0.860	1.052	0.905	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	22.99	0.01	0	01704	QPSK	1	50	10 mm	left	1:1	0.112	1.050	0.118	
1905.00	26590	High	LTE Band 25 (PCS)	20	1	25.2	25.17	0.15	0	01704	QPSK	1	50	10 mm	left	1:1	0.077	1.007	0.078	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	23.08	0.02	0	01704	QPSK	50	0	10 mm	left	1:1	0.120	1.028	0.123	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Body											
Uncontrolled Exposure/General Population									1.6 W/kg (mW/g)											
									averaged over 1 gram											

Note: 1) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

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Table 11-52
LTE Band 2 (PCS) Hotspot SAR – Ant 3

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.5	23.50	0.04	0	Ant 3	01704	QPSK	1	50	10 mm	back	1:1	1.000	0.403	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.5	22.38	0.12	1	Ant 3	01704	QPSK	50	25	10 mm	back	1:1	1.028	0.339	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.5	23.50	0.05	0	Ant 3	01704	QPSK	1	50	10 mm	front	1:1	1.000	0.346	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.5	22.38	-0.05	1	Ant 3	01704	QPSK	50	25	10 mm	front	1:1	1.028	0.286	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.5	23.50	-0.02	0	Ant 3	01704	QPSK	1	50	10 mm	bottom	1:1	1.000	0.274	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.5	22.38	-0.11	1	Ant 3	01704	QPSK	50	25	10 mm	bottom	1:1	1.028	0.212	
1860.00	18700	Low	LTE Band 2 (PCS)	20	23.5	23.39	-0.09	0	Ant 3	01704	QPSK	1	50	10 mm	right	1:1	1.026	1.057	A47
1880.00	18900	Mid	LTE Band 2 (PCS)	20	23.5	23.21	0.09	0	Ant 3	01704	QPSK	1	50	10 mm	right	1:1	1.069	1.068	
1900.00	19100	High	LTE Band 2 (PCS)	20	23.5	23.50	-0.02	0	Ant 3	01704	QPSK	1	50	10 mm	right	1:1	1.000	1.000	
1860.00	18700	Low	LTE Band 2 (PCS)	20	22.5	22.37	-0.18	1	Ant 3	01704	QPSK	50	0	10 mm	right	1:1	1.030	0.789	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	22.5	22.08	0.18	1	Ant 3	01704	QPSK	50	0	10 mm	right	1:1	1.102	0.874	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.5	22.38	-0.18	1	Ant 3	01704	QPSK	50	25	10 mm	right	1:1	1.028	0.813	
1900.00	19100	High	LTE Band 2 (PCS)	20	22.5	22.36	-0.21	1	Ant 3	01704	QPSK	100	0	10 mm	right	1:1	1.033	0.818	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-53
LTE Band 41 Hotspot SAR

MEASUREMENT RESULTS																			
1 CC Uplink - Power Class	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Configuration #	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Reported SAR (1g)
		MHz	Ch.															(W/kg)	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	-0.02	0	01712	QPSK	1	0	10 mm	back	1:1.58	0.310
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	1	25.2	24.62	0.11	0	01712	QPSK	1	50	10 mm	back	1:1.58	0.232
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	0.10	0	01712	QPSK	50	0	10 mm	back	1:1.58	0.252
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	0.07	0	01712	QPSK	1	0	10 mm	front	1:1.58	0.182
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	3	25.2	24.62	0.01	0	01712	QPSK	1	50	10 mm	front	1:1.58	0.240
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	0.05	0	01712	QPSK	50	0	10 mm	front	1:1.58	0.181
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	0.01	0	01712	QPSK	1	0	10 mm	bottom	1:1.58	0.552
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.11	0.00	0	01712	QPSK	1	99	10 mm	bottom	1:1.58	0.587
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	1	25.2	24.62	0.07	0	01712	QPSK	1	50	10 mm	bottom	1:1.58	0.275
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	-0.03	0	01712	QPSK	50	0	10 mm	bottom	1:1.58	0.527
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	-	26.7	26.30	0.15	0	01712	QPSK	1	0	10 mm	bottom	1:2.31	0.632
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	-	26.7	26.41	0.10	0	01712	QPSK	1	99	10 mm	bottom	1:2.31	0.628
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.00	-0.05	0	01712	QPSK	1	99	10 mm	bottom	1:1.58	0.529
2 CC Uplink - Power Class 3	SCC	2525.80	39948	Low	LTE Band 41	20	-	26.7	26.03	0.13	0	01712	QPSK	1	0	10 mm	bottom	1:1.58	0.589
2 CC Uplink - Power Class 2	PCC	2506.00	39750	Low	LTE Band 41	20	-	26.7	26.03	0.13	0	01712	QPSK	1	99	10 mm	bottom	1:2.31	0.589
2 CC Uplink - Power Class 2	SCC	2525.80	39948	Low	LTE Band 41	20	-	26.7	26.03	0.13	0	01712	QPSK	1	0	10 mm	bottom	1:2.31	0.589
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	0.18	0	01712	QPSK	1	0	10 mm	left	1:1.58	0.089
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	1	25.2	24.62	0.20	0	01712	QPSK	1	50	10 mm	left	1:1.58	0.035
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	0.12	0	01712	QPSK	50	0	10 mm	left	1:1.58	0.094
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: 1) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

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Table 11-54
NR Band n71 Hotspot SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
680.50	136100	Mid	NR Band n71	20	25.7	25.36	0.00	0	01720	DFT-S-OFDM QPSK	1	53	10 mm	back	1:1	0.395	1.081	0.427	A50
680.50	136100	Mid	NR Band n71	20	25.7	25.46	-0.08	0	01720	DFT-S-OFDM QPSK	50	28	10 mm	back	1:1	0.393	1.057	0.415	
680.50	136100	Mid	NR Band n71	20	24.2	23.91	-0.03	1.5	01720	CP-OFDM QPSK	1	1	10 mm	back	1:1	0.255	1.069	0.273	
680.50	136100	Mid	NR Band n71	20	25.7	25.36	0.01	0	01720	DFT-S-OFDM QPSK	1	53	10 mm	front	1:1	0.335	1.081	0.362	
680.50	136100	Mid	NR Band n71	20	25.7	25.46	-0.03	0	01720	DFT-S-OFDM QPSK	50	28	10 mm	front	1:1	0.329	1.057	0.348	
680.50	136100	Mid	NR Band n71	20	25.7	25.36	-0.11	0	01720	DFT-S-OFDM QPSK	1	53	10 mm	bottom	1:1	0.161	1.081	0.174	
680.50	136100	Mid	NR Band n71	20	25.7	25.46	-0.01	0	01720	DFT-S-OFDM QPSK	50	28	10 mm	bottom	1:1	0.163	1.057	0.172	
680.50	136100	Mid	NR Band n71	20	25.7	25.36	0.14	0	01720	DFT-S-OFDM QPSK	1	53	10 mm	right	1:1	0.302	1.081	0.326	
680.50	136100	Mid	NR Band n71	20	25.7	25.46	-0.02	0	01720	DFT-S-OFDM QPSK	50	28	10 mm	right	1:1	0.292	1.057	0.309	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-55
NR Band n66 (AWS) Antenna 2 Standalone Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Position	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.01	0.06	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	back	1:1	0.724	1.045	0.757	
1745.00	349000	Mid	NR Band n66 (AWS)	40	1	25.2	25.19	0.01	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	back	1:1	0.854	1.002	0.856	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	22.95	0.21	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	back	1:1	0.720	1.059	0.762	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.01	-0.01	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	front	1:1	0.571	1.045	0.597	
1745.00	349000	Mid	NR Band n66 (AWS)	40	3	25.2	25.19	-0.15	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	front	1:1	1.070	1.002	1.072	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	22.95	0.04	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	front	1:1	0.562	1.059	0.595	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.01	0.19	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	bottom	1:1	1.150	1.045	1.202	A52
1745.00	349000	Mid	NR Band n66 (AWS)	40	1	25.2	25.19	-0.16	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	bottom	1:1	0.709	1.002	0.710	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	22.95	-0.02	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	bottom	1:1	1.090	1.059	1.154	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	22.51	0.15	0	01720	CP-OFDM QPSK	1	1	10 mm	bottom	1:1	0.986	1.172	1.156	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	22.79	0.12	0	01720	DFT-S-OFDM QPSK	216	0	10 mm	bottom	1:1	1.110	1.099	1.220	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.01	0.08	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	left	1:1	0.242	1.045	0.253	
1745.00	349000	Mid	NR Band n66 (AWS)	40	1	25.2	25.19	0.07	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	left	1:1	0.100	1.002	0.100	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	22.95	0.00	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	left	1:1	0.228	1.059	0.241	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body											
Spatial Peak									1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population									averaged over 1 gram											

Note: 1) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

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Table 11-56
NR Band n66 (AWS) Antenna 3 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Position	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.06	-0.03	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	back	1:1	0.508	1.033	0.525	
1745.00	349000	Mid	NR Band n66 (AWS)	40	1	25.2	25.08	0.14	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	back	1:1	0.399	1.028	0.410	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.14	-0.07	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	back	1:1	0.520	1.014	0.527	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.06	-0.02	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	front	1:1	0.405	1.033	0.418	
1745.00	349000	Mid	NR Band n66 (AWS)	40	3	25.2	25.08	0.01	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	front	1:1	0.560	1.028	0.576	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.14	0.03	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	front	1:1	0.414	1.014	0.420	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.06	0.03	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	bottom	1:1	0.135	1.033	0.139	
1745.00	349000	Mid	NR Band n66 (AWS)	40	1	25.2	25.08	0.00	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	bottom	1:1	0.178	1.028	0.183	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.14	-0.14	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	bottom	1:1	0.153	1.014	0.155	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.06	-0.15	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	right	1:1	0.893	1.033	0.922	
1745.00	349000	Mid	NR Band n66 (AWS)	40	1	25.2	25.08	-0.12	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	right	1:1	1.110	1.028	1.141	
1745.00	349000	Mid	NR Band n66 (AWS)	40	3	25.2	25.08	-0.07	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	right	1:1	0.986	1.028	1.014	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.14	-0.12	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	right	1:1	0.911	1.014	0.924	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	22.84	-0.17	0	01720	CP-OFDM QPSK	1	1	10 mm	right	1:1	0.592	1.086	0.643	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.00	-0.17	0	01720	DFT-S-OFDM QPSK	216	0	10 mm	right	1:1	0.881	1.047	0.922	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body											
Spatial Peak									1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population									averaged over 1 gram											

Note: 1) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

Table 11-57
NR Band n25 (PCS) Antenna 2 Standalone Hotspot SAR

MEASUREMENT RESULTS																				
No			Mode	Bandwidth [MHz]	Dual Display Position	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
No	Ch.	(W/kg)															(W/kg)			
No	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	0.07	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	back	1:1	0.526	1.135	0.597	
1882.50	376500	Mid	NR Band n25 (PCS)	40	1	25.2	25.01	-0.16	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	back	1:1	0.657	1.045	0.687	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	0.18	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	back	1:1	0.548	1.135	0.622	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	0.09	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	front	1:1	0.374	1.135	0.424	
1882.50	376500	Mid	NR Band n25 (PCS)	40	3	25.2	25.01	0.00	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	front	1:1	0.660	1.045	0.690	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	0.13	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	front	1:1	0.391	1.135	0.444	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	-0.07	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	bottom	1:1	1.140	1.135	1.294	A54
1882.50	376500	Mid	NR Band n25 (PCS)	40	1	25.2	25.01	-0.18	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	bottom	1:1	0.739	1.045	0.772	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	0.02	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	bottom	1:1	1.120	1.135	1.271	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.36	0.03	0	01720	CP-OFDM QPSK	1	1	10 mm	bottom	1:1	1.040	1.213	1.262	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.64	0.12	0	01720	DFT-S-OFDM QPSK	216	0	10 mm	bottom	1:1	1.140	1.138	1.297	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	-0.04	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	left	1:1	0.147	1.135	0.167	
1882.50	376500	Mid	NR Band n25 (PCS)	40	1	25.2	25.01	0.10	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	left	1:1	0.026	1.045	0.027	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	-0.04	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	left	1:1	0.150	1.135	0.170	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	-0.05	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	bottom	1:1	1.130	1.135	1.283	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

Note: 1) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees) 3) Blue entry represents variability measurement.

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Table 11-58
NR Band n25 (PCS) Antenna 3 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Position	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.14	-0.05	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	back	1:1	0.424	1.014	0.430	
1882.50	376500	Mid	NR Band n25 (PCS)	40	1	25.2	25.16	0.12	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	back	1:1	0.546	1.009	0.551	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.16	-0.14	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	back	1:1	0.464	1.009	0.468	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.14	0.00	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	front	1:1	0.314	1.014	0.318	
1882.50	376500	Mid	NR Band n25 (PCS)	40	3	25.2	25.16	0.00	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	front	1:1	0.429	1.009	0.433	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.16	-0.04	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	front	1:1	0.345	1.009	0.348	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.14	-0.02	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	bottom	1:1	0.240	1.014	0.243	
1882.50	376500	Mid	NR Band n25 (PCS)	40	1	25.2	25.16	0.10	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	bottom	1:1	0.135	1.009	0.136	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.16	-0.13	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	bottom	1:1	0.236	1.009	0.238	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.14	-0.13	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	right	1:1	0.976	1.014	0.990	
1882.50	376500	Mid	NR Band n25 (PCS)	40	1	25.2	25.16	-0.01	0	01720	DFT-S-OFDM QPSK	1	108	10 mm	right	1:1	1.090	1.009	1.100	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.16	0.11	0	01720	DFT-S-OFDM QPSK	108	54	10 mm	right	1:1	0.986	1.009	0.995	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.71	0.13	0	01720	CP-OFDM QPSK	1	1	10 mm	right	1:1	0.872	1.119	0.976	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.98	-0.14	0	01720	DFT-S-OFDM QPSK	216	0	10 mm	right	1:1	0.977	1.052	1.028	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak										Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																				

Note: 1) Green entries represent additional Hotspot SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Hotspot SAR Position (DD #3: 360 degrees)

Table 11-59
NR Band n41 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)			(W/kg)		(W/kg)
2592.99	518598	Mid	NR Band n41	100	27.7	27.61	0.00	0	01738	DFT-S-OFDM QPSK	1	137	10 mm	back	21.43	0.591	1.021	1.010	0.609	
2592.99	518598	Mid	NR Band n41	100	27.7	27.58	-0.13	0	01738	DFT-S-OFDM QPSK	135	69	10 mm	back	21.43	0.636	1.028	1.010	0.660	A55
2592.99	518598	Mid	NR Band n41	100	26.2	26.08	-0.06	1.5	01738	CP-OFDM QPSK	1	1	10 mm	back	21.43	0.416	1.028	1.010	0.432	
2592.99	518598	Mid	NR Band n41	100	26.7	26.29	-0.02	1	01738	DFT-S-OFDM QPSK	270	0	10 mm	back	21.43	0.564	1.099	1.010	0.626	
2592.99	518598	Mid	NR Band n41	100	27.7	27.61	0.19	0	01738	DFT-S-OFDM QPSK	1	137	10 mm	front	21.43	0.049	1.021	1.010	0.051	
2592.99	518598	Mid	NR Band n41	100	27.7	27.58	-0.06	0	01738	DFT-S-OFDM QPSK	135	69	10 mm	front	21.43	0.052	1.028	1.010	0.054	
2592.99	518598	Mid	NR Band n41	100	27.7	27.61	-0.06	0	01738	DFT-S-OFDM QPSK	1	137	10 mm	right	21.43	0.270	1.021	1.010	0.278	
2592.99	518598	Mid	NR Band n41	100	27.7	27.58	0.06	0	01738	DFT-S-OFDM QPSK	135	69	10 mm	right	21.43	0.220	1.028	1.010	0.228	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Body												
Uncontrolled Exposure/General Population								1.6 W/kg (mW/g) averaged over 1 gram												

Note: The reported SAR was scaled to the 23.57% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 23.57% per the manufacturer.

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Table 11-60
WLAN Hotspot SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2437	6	802.11b	DSSS	22	21.0	20.90	-0.04	10 mm	1	04732	1	back	99.7	0.335	0.224	1.023	1.003	0.230	
2437	6	802.11b	DSSS	22	21.0	20.90	0.10	10 mm	1	04732	1	front	99.7	0.354	0.235	1.023	1.003	0.241	
2437	6	802.11b	DSSS	22	21.0	20.90	0.14	10 mm	1	04732	1	top	99.7	0.209	-	1.023	1.003	-	
2437	6	802.11b	DSSS	22	21.0	20.90	0.06	10 mm	1	04732	1	left	99.7	0.675	0.418	1.023	1.003	0.429	
2437	6	802.11b	DSSS	22	21.0	20.90	0.07	10 mm	2	04732	1	back	99.7	0.423	0.282	1.023	1.003	0.289	
2437	6	802.11b	DSSS	22	21.0	20.90	0.12	10 mm	2	04732	1	front	99.7	0.282	0.180	1.023	1.003	0.185	
2437	6	802.11b	DSSS	22	21.0	20.90	-0.16	10 mm	2	04732	1	top	99.7	0.416	-	1.023	1.003	-	
2437	6	802.11b	DSSS	22	21.0	20.90	0.05	10 mm	2	04732	1	left	99.7	0.062	-	1.023	1.003	-	
5200	40	802.11a	OFDM	20	19.5	19.32	-0.12	10 mm	1	01464	6	back	97.6	1.294	0.617	1.042	1.025	0.659	
5200	40	802.11a	OFDM	20	19.5	19.32	-0.18	10 mm	1	01464	6	front	97.6	0.083	0.034	1.042	1.025	0.036	
5200	40	802.11a	OFDM	20	19.5	19.32	0.00	10 mm	1	01464	6	top	97.6	0.456	0.213	1.042	1.025	0.227	
5200	40	802.11a	OFDM	20	19.5	19.32	-0.12	10 mm	1	01464	6	left	97.6	0.152	-	1.042	1.025	-	
5200	40	802.11a	OFDM	20	19.5	18.58	0.17	10 mm	2	01464	6	back	97.8	0.368	0.168	1.236	1.022	0.212	
5200	40	802.11a	OFDM	20	19.5	18.58	0.20	10 mm	2	01464	6	front	97.8	0.126	0.050	1.236	1.022	0.063	
5200	40	802.11a	OFDM	20	19.5	18.58	0.11	10 mm	2	01464	6	top	97.8	0.236	-	1.236	1.022	-	
5200	40	802.11a	OFDM	20	19.5	18.58	-0.17	10 mm	2	01464	6	left	97.8	0.077	-	1.236	1.022	-	
5745	149	802.11a	OFDM	20	17.7	16.72	-0.15	10 mm	1	01464	6	back	97.6	0.859	0.456	1.253	1.025	0.586	
5785	157	802.11a	OFDM	20	19.9	19.07	-0.18	10 mm	1	01464	6	back	97.6	1.387	0.707	1.211	1.025	0.878	
5825	165	802.11a	OFDM	20	19.8	18.88	-0.18	10 mm	1	01464	6	back	97.6	1.387	0.735	1.236	1.025	0.931	
5785	157	802.11a	OFDM	20	19.9	19.07	0.20	10 mm	1	01464	6	front	97.6	0.027	0.006	1.211	1.025	0.007	
5785	157	802.11a	OFDM	20	19.9	19.07	0.11	10 mm	1	01464	6	top	97.6	0.532	0.229	1.211	1.025	0.284	
5785	157	802.11a	OFDM	20	19.9	19.07	-0.12	10 mm	1	01464	6	left	97.6	0.372	-	1.211	1.025	-	
5785	157	802.11a	OFDM	20	19.9	18.99	0.00	10 mm	2	01464	6	back	97.8	0.751	0.330	1.233	1.022	0.416	
5785	157	802.11a	OFDM	20	19.9	18.99	0.00	10 mm	2	01464	6	front	97.8	0.253	0.113	1.233	1.022	0.142	
5785	157	802.11a	OFDM	20	19.9	18.99	0.11	10 mm	2	01464	6	top	97.8	0.496	0.213	1.233	1.022	0.268	
5785	157	802.11a	OFDM	20	19.9	18.99	0.18	10 mm	2	01464	6	left	97.8	0.338	-	1.233	1.022	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body											
Spatial Peak								1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population								averaged over 1 gram											

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Table 11-61
WLAN Hotspot SAR for Conditions with EN-DC Active

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2437	6	802.11b	DSSS	22	16.0	15.80	-0.20	10 mm	1	01464	1	back	99.7	0.101	0.066	1.047	1.003	0.069	
2437	6	802.11b	DSSS	22	16.0	15.80	0.11	10 mm	1	01464	1	front	99.7	0.087	-	1.047	1.003	-	
2437	6	802.11b	DSSS	22	16.0	15.80	-0.03	10 mm	1	01464	1	top	99.7	0.084	-	1.047	1.003	-	
2437	6	802.11b	DSSS	22	16.0	15.80	-0.11	10 mm	1	01464	1	left	99.7	0.202	0.119	1.047	1.003	0.125	
2412	1	802.11b	DSSS	22	16.0	15.86	-0.16	10 mm	2	01464	1	back	99.7	0.099	0.073	1.033	1.003	0.076	
2412	1	802.11b	DSSS	22	16.0	15.86	-0.14	10 mm	2	01464	1	front	99.7	0.056	-	1.033	1.003	-	
2412	1	802.11b	DSSS	22	16.0	15.86	0.07	10 mm	2	01464	1	top	99.7	0.091	-	1.033	1.003	-	
2412	1	802.11b	DSSS	22	16.0	15.86	-0.15	10 mm	2	01464	1	left	99.7	0.020	-	1.033	1.003	-	
5200	40	802.11a	OFDM	20	17.0	16.61	-0.01	10 mm	1	01464	6	back	97.6	0.644	0.336	1.094	1.025	0.377	
5200	40	802.11a	OFDM	20	17.0	16.61	0.11	10 mm	1	01464	6	front	97.6	0.155	0.049	1.094	1.025	0.055	
5200	40	802.11a	OFDM	20	17.0	16.61	0.15	10 mm	1	01464	6	top	97.6	0.254	0.118	1.094	1.025	0.132	
5200	40	802.11a	OFDM	20	17.0	16.61	0.17	10 mm	1	01464	6	left	97.6	0.225	0.104	1.094	1.025	0.117	
5200	40	802.11a	OFDM	20	17.0	16.78	0.16	10 mm	2	01464	6	back	97.8	0.182	0.103	1.052	1.022	0.111	
5200	40	802.11a	OFDM	20	17.0	16.78	0.20	10 mm	2	01464	6	front	97.8	0.094	0.028	1.052	1.022	0.030	
5200	40	802.11a	OFDM	20	17.0	16.78	0.11	10 mm	2	01464	6	top	97.8	0.155	0.070	1.052	1.022	0.075	
5200	40	802.11a	OFDM	20	17.0	16.78	0.07	10 mm	2	01464	6	left	97.8	0.040	0.015	1.052	1.022	0.016	
5825	165	802.11a	OFDM	20	17.0	16.72	-0.03	10 mm	1	01464	6	back	97.6	0.938	0.520	1.067	1.025	0.569	
5825	165	802.11a	OFDM	20	17.0	16.72	0.20	10 mm	1	01464	6	front	97.6	0.033	0.010	1.067	1.025	0.011	
5825	165	802.11a	OFDM	20	17.0	16.72	0.14	10 mm	1	01464	6	top	97.6	0.325	0.127	1.067	1.025	0.139	
5825	165	802.11a	OFDM	20	17.0	16.72	0.19	10 mm	1	01464	6	left	97.6	0.402	0.163	1.067	1.025	0.178	
5785	157	802.11a	OFDM	20	17.0	16.80	0.12	10 mm	2	01464	6	back	97.8	0.382	0.191	1.047	1.022	0.204	
5785	157	802.11a	OFDM	20	17.0	16.80	0.20	10 mm	2	01464	6	front	97.8	0.116	0.058	1.047	1.022	0.062	
5785	157	802.11a	OFDM	20	17.0	16.80	-0.20	10 mm	2	01464	6	top	97.8	0.262	0.123	1.047	1.022	0.132	
5785	157	802.11a	OFDM	20	17.0	16.80	0.11	10 mm	2	01464	6	left	97.8	0.187	0.080	1.047	1.022	0.086	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body											
Spatial Peak								1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population								averaged over 1 gram											

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Table 11-62
WLAN MIMO Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)	(W/kg)	(W/kg)		
2437	6	802.11b	DSSS	22	21.0	20.90	21.0	20.90	-0.01	10 mm	MIMO	01456	1	back	99.7	0.727	0.498	1.023	1.003	0.511	
2437	6	802.11b	DSSS	22	21.0	20.90	21.0	20.90	0.15	10 mm	MIMO	01456	1	front	99.7	0.495	-	1.023	1.003	-	
2437	6	802.11b	DSSS	22	21.0	20.90	21.0	20.90	0.20	10 mm	MIMO	01456	1	top	99.7	0.825	0.536	1.023	1.003	0.550	
2412	1	802.11b	DSSS	22	21.0	20.87	21.0	20.74	0.13	10 mm	MIMO	01456	1	left	99.7	0.862	0.545	1.062	1.003	0.581	
2437	6	802.11b	DSSS	22	21.0	20.90	21.0	20.90	0.17	10 mm	MIMO	01456	1	left	99.7	1.058	0.638	1.023	1.003	0.655	
2462	11	802.11b	DSSS	22	21.0	20.90	21.0	20.86	0.12	10 mm	MIMO	01456	1	left	99.7	0.927	0.641	1.033	1.003	0.664	A57
5200	40	802.11n	OFDM	20	19.5	19.11	19.5	18.59	0.13	10 mm	MIMO	01464	13	back	97.6	1.403	0.625	1.233	1.025	0.790	
5200	40	802.11n	OFDM	20	19.5	19.11	19.5	18.59	0.20	10 mm	MIMO	01464	13	front	97.6	0.378	0.171	1.233	1.025	0.216	
5200	40	802.11n	OFDM	20	19.5	19.11	19.5	18.59	0.15	10 mm	MIMO	01464	13	top	97.6	0.487	-	1.233	1.025	-	
5200	40	802.11n	OFDM	20	19.5	19.11	19.5	18.59	0.19	10 mm	MIMO	01464	13	left	97.6	0.491	0.222	1.233	1.025	0.281	
5745	149	802.11n	OFDM	20	17.4	16.52	17.4	16.84	-0.17	10 mm	MIMO	01464	13	back	97.6	1.434	0.591	1.225	1.025	0.742	
5785	157	802.11n	OFDM	20	19.9	18.90	19.9	18.90	-0.15	10 mm	MIMO	01464	13	back	97.6	1.740	0.855	1.259	1.025	1.103	A58
5825	165	802.11n	OFDM	20	19.6	18.70	19.6	18.70	-0.10	10 mm	MIMO	01464	13	back	97.6	1.923	0.796	1.230	1.025	1.004	
5785	157	802.11n	OFDM	20	19.9	18.90	19.9	18.90	-0.12	10 mm	MIMO	01464	13	front	97.6	0.283	0.118	1.259	1.025	0.152	
5785	157	802.11n	OFDM	20	19.9	18.90	19.9	18.90	0.17	10 mm	MIMO	01464	13	top	97.6	0.872	0.295	1.259	1.025	0.381	
5785	157	802.11n	OFDM	20	19.9	18.90	19.9	18.90	0.15	10 mm	MIMO	01464	13	left	97.6	0.810	-	1.259	1.025	-	
5785	157	802.11n	OFDM	20	19.9	18.90	19.9	18.90	-0.17	10 mm	MIMO	01464	13	back	97.6	2.008	0.830	1.259	1.025	1.071	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Note: To achieve the 24.0 dBm maximum allowed MIMO power shown in the documentation for channel 1, 6, & 11, each antenna transmits at a maximum allowed power of 21.0 dBm. To achieve the 22.5 dBm maximum allowed MIMO power shown in the documentation for channel 40, each antenna transmits at a maximum allowed power of 19.5 dBm. To achieve the 20.4 dBm maximum allowed MIMO power shown in the documentation for channel 149, each antenna transmits at a maximum allowed power of 17.4 dBm. To achieve the 22.9 dBm maximum allowed MIMO power shown in the documentation for channel 157, each antenna transmits at a maximum allowed power of 19.9 dBm. To achieve the 22.6 dBm maximum allowed MIMO power shown in the documentation for channel 165, each antenna transmits at a maximum allowed power of 19.6 dBm. Blue entries represent variability measurements.

Table 11-63
DSS Hotspot SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)			(W/kg)	
2441	39	Bluetooth	FHSS	11.0	10.38	-0.08	10 mm	01456	1	back	77.1	0.022	1.153	1.297	0.033	
2441	39	Bluetooth	FHSS	11.0	10.38	0.03	10 mm	01456	1	front	77.1	0.019	1.153	1.297	0.028	
2441	39	Bluetooth	FHSS	11.0	10.38	0.08	10 mm	01456	1	top	77.1	0.021	1.153	1.297	0.031	
2441	39	Bluetooth	FHSS	11.0	10.38	-0.13	10 mm	01456	1	left	77.1	0.038	1.153	1.297	0.057	A60
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body									
Spatial Peak							1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population							averaged over 1 gram									

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11.4 Standalone Phablet SAR Data

Table 11-64
UMTS/CDMA Phablet SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Dual Display Configuration	Device Serial Number	Duty Cycle	Side	SAR (10g) (W/kg)	Scaling Factor	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.														
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	0.14	2 mm	-	01688	1:1	back	1.660	1.042	1.730	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.7	24.48	-0.10	0 mm	1	01688	1:1	back	2.660	1.052	2.798	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	-0.10	0 mm	1	01688	1:1	back	2.750	1.042	2.866	
1908.75	1175	PCS CDMA	EVDO Rev. 0	24.7	24.49	-0.18	0 mm	1	01688	1:1	back	2.790	1.050	2.930	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	0.04	1 mm	-	01688	1:1	front	1.430	1.042	1.490	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	-0.13	0 mm	3	01688	1:1	front	1.660	1.042	1.730	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.7	24.48	-0.15	3 mm	-	01688	1:1	bottom	2.250	1.052	2.367	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	-0.12	3 mm	-	01688	1:1	bottom	2.500	1.042	2.605	
1908.75	1175	PCS CDMA	EVDO Rev. 0	24.7	24.49	-0.12	3 mm	-	01688	1:1	bottom	2.480	1.050	2.604	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.7	24.48	-0.12	0 mm	1	01688	1:1	bottom	2.790	1.052	2.935	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	0.19	0 mm	1	01688	1:1	bottom	3.230	1.042	3.366	A61
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	-0.05	0 mm	2	01688	1:1	bottom	2.490	1.042	2.595	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	-0.08	0 mm	3	01688	1:1	bottom	2.360	1.042	2.459	
1908.75	1175	PCS CDMA	EVDO Rev. 0	24.7	24.49	-0.12	0 mm	1	01688	1:1	bottom	2.780	1.050	2.919	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	-0.07	0 mm	-	01688	1:1	left	0.368	1.042	0.383	
1880.00	600	PCS CDMA	EVDO Rev. 0	22.7	22.66	0.08	0 mm	-	01688	1:1	back	1.360	1.009	1.372	
1880.00	600	PCS CDMA	EVDO Rev. 0	22.7	22.66	-0.17	0 mm	-	01688	1:1	front	1.490	1.009	1.503	
1851.25	25	PCS CDMA	EVDO Rev. 0	22.7	22.58	0.20	0 mm	-	01688	1:1	bottom	2.690	1.028	2.765	
1880.00	600	PCS CDMA	EVDO Rev. 0	22.7	22.66	0.13	0 mm	-	01688	1:1	bottom	2.790	1.009	2.815	
1908.75	1175	PCS CDMA	EVDO Rev. 0	22.7	22.62	0.15	0 mm	-	01688	1:1	bottom	2.690	1.019	2.741	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.7	24.52	0.19	0 mm	1	01688	1:1	bottom	3.190	1.042	3.324	
1732.40	1412	UMTS 1750	RMC	24.7	24.69	-0.01	2 mm	-	01670	1:1	back	1.070	1.002	1.072	
1732.40	1412	UMTS 1750	RMC	24.7	24.69	-0.08	0 mm	1	01670	1:1	back	1.650	1.002	1.653	
1732.40	1412	UMTS 1750	RMC	24.7	24.69	-0.04	1 mm	-	01670	1:1	front	1.190	1.002	1.192	
1732.40	1412	UMTS 1750	RMC	24.7	24.69	-0.06	0 mm	3	01670	1:1	front	1.560	1.002	1.563	
1732.40	1412	UMTS 1750	RMC	24.7	24.69	-0.01	3 mm	-	01670	1:1	bottom	1.150	1.002	1.152	
1732.40	1412	UMTS 1750	RMC	24.7	24.69	-0.03	0 mm	1	01670	1:1	bottom	1.090	1.002	1.092	
1732.40	1412	UMTS 1750	RMC	24.7	24.69	-0.07	0 mm	-	01670	1:1	left	0.425	1.002	0.426	
1732.40	1412	UMTS 1750	RMC	22.7	22.68	0.10	0 mm	-	01670	1:1	back	1.790	1.005	1.799	
1732.40	1412	UMTS 1750	RMC	22.7	22.68	-0.05	0 mm	-	01670	1:1	front	1.710	1.005	1.719	
1712.40	1312	UMTS 1750	RMC	22.7	22.70	0.16	0 mm	-	01670	1:1	bottom	1.830	1.000	1.830	
1732.40	1412	UMTS 1750	RMC	22.7	22.68	-0.12	0 mm	-	01670	1:1	bottom	1.940	1.005	1.950	
1752.60	1513	UMTS 1750	RMC	22.7	22.68	0.20	0 mm	-	01670	1:1	bottom	2.160	1.005	2.171	A62
1880.00	9400	UMTS 1900	RMC	24.7	24.65	0.15	2 mm	-	01670	1:1	back	1.750	1.012	1.771	
1852.40	9262	UMTS 1900	RMC	24.7	24.66	-0.03	0 mm	1	01688	1:1	back	2.690	1.009	2.714	
1880.00	9400	UMTS 1900	RMC	24.7	24.65	-0.03	0 mm	1	01688	1:1	back	2.700	1.012	2.732	
1907.60	9538	UMTS 1900	RMC	24.7	24.70	-0.02	0 mm	1	01688	1:1	back	2.820	1.000	2.820	
1880.00	9400	UMTS 1900	RMC	24.7	24.65	0.07	1 mm	-	01670	1:1	front	1.300	1.012	1.316	
1880.00	9400	UMTS 1900	RMC	24.7	24.65	0.14	0 mm	3	01688	1:1	front	1.900	1.012	1.923	
1852.40	9262	UMTS 1900	RMC	24.7	24.66	-0.02	3 mm	-	01670	1:1	bottom	2.320	1.009	2.341	
1880.00	9400	UMTS 1900	RMC	24.7	24.65	0.01	3 mm	-	01670	1:1	bottom	2.350	1.012	2.378	
1907.60	9538	UMTS 1900	RMC	24.7	24.70	-0.04	3 mm	-	01670	1:1	bottom	2.350	1.000	2.350	
1852.40	9262	UMTS 1900	RMC	24.7	24.66	-0.10	0 mm	1	01688	1:1	bottom	2.660	1.009	2.684	
1880.00	9400	UMTS 1900	RMC	24.7	24.65	0.11	0 mm	1	01688	1:1	bottom	2.740	1.012	2.773	
1907.60	9538	UMTS 1900	RMC	24.7	24.70	-0.19	0 mm	1	01688	1:1	bottom	3.060	1.000	3.060	A63
1880.00	9400	UMTS 1900	RMC	24.7	24.65	0.01	0 mm	-	01670	1:1	left	0.376	1.012	0.381	
1880.00	9400	UMTS 1900	RMC	22.7	22.61	0.20	0 mm	-	01670	1:1	back	1.730	1.021	1.766	
1880.00	9400	UMTS 1900	RMC	22.7	22.61	-0.21	0 mm	-	01670	1:1	front	1.220	1.021	1.246	
1852.40	9262	UMTS 1900	RMC	22.7	22.67	0.11	0 mm	-	01670	1:1	bottom	2.580	1.007	2.598	
1880.00	9400	UMTS 1900	RMC	22.7	22.61	0.10	0 mm	-	01670	1:1	bottom	2.510	1.021	2.563	
1907.60	9538	UMTS 1900	RMC	22.7	22.70	0.10	0 mm	-	01670	1:1	bottom	2.510	1.000	2.510	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Phablet								
Spatial Peak							4.0 W/kg (mW/g)								
Uncontrolled Exposure/General Population							averaged over 10 grams								

Note: 1) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 2) Purple entries represent additional Phablet SAR Position (DD #2: 180 degrees) 3) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees) 4) Blue entry represents variability measurement.

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Table 11-65
LTE Band 66 (AWS) Antenna 2 Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Configuration	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR[dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #		
MHz	Ch.															(W/kg)		(W/kg)			
1770.00	132572	High	LTE Band 66 (AWS)	20	-	25.2	25.10	0.02	0	01696	QPSK	1	0	2 mm	back	1:1	1.780	1.023	1.821	A64	
1720.00	132072	Low	LTE Band 66 (AWS)	20	1	25.2	25.06	-0.01	0	01696	QPSK	1	50	0 mm	back	1:1	2.830	1.033	2.923		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	1	25.2	24.91	-0.09	0	01696	QPSK	1	50	0 mm	back	1:1	2.830	1.069	3.025		
1770.00	132572	High	LTE Band 66 (AWS)	20	1	25.2	25.10	-0.12	0	01696	QPSK	1	0	0 mm	back	1:1	2.950	1.023	3.018		
1770.00	132572	High	LTE Band 66 (AWS)	20	-	24.2	24.08	0.05	1	01696	QPSK	50	0	2 mm	back	1:1	1.470	1.028	1.511		
1720.00	132072	Low	LTE Band 66 (AWS)	20	-	25.2	25.06	-0.07	0	01696	QPSK	1	50	1 mm	front	1:1	1.930	1.033	1.994		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	25.2	24.91	-0.04	0	01696	QPSK	1	50	1 mm	front	1:1	2.050	1.069	2.191		
1770.00	132572	High	LTE Band 66 (AWS)	20	-	25.2	25.10	-0.06	0	01696	QPSK	1	0	1 mm	front	1:1	2.070	1.023	2.118		
1720.00	132072	Low	LTE Band 66 (AWS)	20	3	25.2	25.06	-0.12	0	01696	QPSK	1	50	0 mm	front	1:1	2.620	1.033	2.706		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	3	25.2	24.91	-0.12	0	01696	QPSK	1	50	0 mm	front	1:1	2.650	1.069	2.833		
1770.00	132572	High	LTE Band 66 (AWS)	20	3	25.2	25.10	-0.13	0	01696	QPSK	1	0	0 mm	front	1:1	2.550	1.023	2.609		
1770.00	132572	High	LTE Band 66 (AWS)	20	-	24.2	24.08	-0.04	1	01696	QPSK	50	0	1 mm	front	1:1	1.700	1.028	1.748		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	24.2	24.00	-0.06	1	01696	QPSK	100	0	1 mm	front	1:1	1.630	1.047	1.707		
1720.00	132072	Low	LTE Band 66 (AWS)	20	-	25.2	25.06	0.19	0	01696	QPSK	1	50	3 mm	bottom	1:1	2.010	1.033	2.076		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	25.2	24.91	0.15	0	01696	QPSK	1	50	3 mm	bottom	1:1	2.210	1.069	2.362		
1770.00	132572	High	LTE Band 66 (AWS)	20	-	25.2	25.10	-0.02	0	01696	QPSK	1	0	3 mm	bottom	1:1	2.170	1.023	2.220		
1720.00	132072	Low	LTE Band 66 (AWS)	20	1	25.2	25.06	-0.01	0	01696	QPSK	1	50	0 mm	bottom	1:1	2.040	1.033	2.107		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	1	25.2	24.91	-0.04	0	01696	QPSK	1	50	0 mm	bottom	1:1	2.080	1.069	2.224		
1770.00	132572	High	LTE Band 66 (AWS)	20	1	25.2	25.10	-0.06	0	01696	QPSK	1	0	0 mm	bottom	1:1	2.110	1.023	2.159		
1770.00	132572	High	LTE Band 66 (AWS)	20	-	24.2	24.08	0.03	1	01696	QPSK	50	0	3 mm	bottom	1:1	1.760	1.028	1.809		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	24.2	24.00	0.14	1	01696	QPSK	100	0	3 mm	bottom	1:1	1.710	1.047	1.790		
1770.00	132572	High	LTE Band 66 (AWS)	20	-	25.2	25.10	-0.04	0	01696	QPSK	1	0	0 mm	left	1:1	0.763	1.023	0.781		
1770.00	132572	High	LTE Band 66 (AWS)	20	-	24.2	24.08	-0.10	1	01696	QPSK	50	0	0 mm	left	1:1	0.646	1.028	0.664		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.78	0.05	0	01704	QPSK	1	50	0 mm	back	1:1	1.790	1.102	1.973		
1720.00	132072	Low	LTE Band 66 (AWS)	20	-	23.2	22.73	0.12	0	01704	QPSK	50	50	0 mm	back	1:1	1.790	1.114	1.994		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.76	0.04	0	01704	QPSK	50	0	0 mm	back	1:1	1.810	1.107	2.004		
1770.00	132572	High	LTE Band 66 (AWS)	20	-	23.2	22.70	0.09	0	01704	QPSK	50	25	0 mm	back	1:1	1.960	1.122	2.199		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.71	0.13	0	01704	QPSK	100	0	0 mm	back	1:1	1.880	1.119	2.104		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.78	-0.11	0	01704	QPSK	1	50	0 mm	front	1:1	1.660	1.102	1.829		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.76	-0.11	0	01704	QPSK	50	0	0 mm	front	1:1	1.680	1.107	1.860		
1720.00	132072	Low	LTE Band 66 (AWS)	20	-	23.2	22.74	-0.07	0	01704	QPSK	1	50	0 mm	bottom	1:1	1.930	1.112	2.146		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.78	-0.08	0	01704	QPSK	1	50	0 mm	bottom	1:1	2.150	1.102	2.369		
1770.00	132572	High	LTE Band 66 (AWS)	20	-	23.2	22.76	-0.08	0	01704	QPSK	1	50	0 mm	bottom	1:1	2.330	1.107	2.579		
1720.00	132072	Low	LTE Band 66 (AWS)	20	-	23.2	22.73	-0.06	0	01704	QPSK	50	50	0 mm	bottom	1:1	1.970	1.114	2.195		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.76	-0.05	0	01704	QPSK	50	0	0 mm	bottom	1:1	2.150	1.107	2.380		
1770.00	132572	High	LTE Band 66 (AWS)	20	-	23.2	22.70	-0.06	0	01704	QPSK	50	25	0 mm	bottom	1:1	2.350	1.122	2.637		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	-	23.2	22.71	-0.07	0	01704	QPSK	100	0	0 mm	bottom	1:1	2.160	1.119	2.417		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Phablet												
Spatial Peak									4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 10 grams												

Note: 1) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees)

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Table 11-66
LTE Band 25 (PCS) Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Configuration	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR[dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1905.00	26590	High	LTE Band 25 (PCS)	20	-	25.2	25.17	0.17	0	01704	QPSK	1	50	2 mm	back	1:1	1.760	1.007	1.772	
1860.00	26140	Low	LTE Band 25 (PCS)	20	1	25.2	24.77	-0.17	0	01704	QPSK	1	50	0 mm	back	1:1	2.530	1.104	2.793	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	1	25.2	25.13	-0.11	0	01704	QPSK	1	50	0 mm	back	1:1	2.800	1.016	2.845	
1905.00	26590	High	LTE Band 25 (PCS)	20	1	25.2	25.17	-0.20	0	01704	QPSK	1	50	0 mm	back	1:1	2.860	1.007	2.880	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	24.2	24.07	0.12	1	01704	QPSK	50	0	2 mm	back	1:1	1.530	1.030	1.576	
1860.00	26140	Low	LTE Band 25 (PCS)	20	-	25.2	24.77	-0.12	0	01704	QPSK	1	50	1 mm	front	1:1	2.120	1.104	2.340	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	-	25.2	25.13	-0.21	0	01704	QPSK	1	50	1 mm	front	1:1	2.040	1.016	2.073	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	25.2	25.17	-0.14	0	01704	QPSK	1	50	1 mm	front	1:1	2.000	1.007	2.014	
1860.00	26140	Low	LTE Band 25 (PCS)	20	3	25.2	24.77	0.10	0	01704	QPSK	1	50	0 mm	front	1:1	2.170	1.104	2.396	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	3	25.2	25.13	0.09	0	01704	QPSK	1	50	0 mm	front	1:1	2.070	1.016	2.103	
1905.00	26590	High	LTE Band 25 (PCS)	20	3	25.2	25.17	0.08	0	01704	QPSK	1	50	0 mm	front	1:1	2.140	1.007	2.155	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	24.2	24.07	-0.13	1	01704	QPSK	50	0	1 mm	front	1:1	1.800	1.030	1.854	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	24.2	23.99	-0.13	1	01704	QPSK	100	0	1 mm	front	1:1	1.660	1.050	1.743	
1860.00	26140	Low	LTE Band 25 (PCS)	20	-	25.2	24.77	-0.11	0	01704	QPSK	1	50	3 mm	bottom	1:1	2.280	1.104	2.517	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	-	25.2	25.13	-0.09	0	01704	QPSK	1	50	3 mm	bottom	1:1	2.200	1.016	2.235	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	25.2	25.17	-0.07	0	01704	QPSK	1	50	3 mm	bottom	1:1	2.150	1.007	2.165	
1860.00	26140	Low	LTE Band 25 (PCS)	20	1	25.2	24.77	-0.11	0	01704	QPSK	1	50	0 mm	bottom	1:1	2.660	1.104	2.937	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	1	25.2	25.13	-0.21	0	01704	QPSK	1	50	0 mm	bottom	1:1	2.660	1.016	2.703	
1905.00	26590	High	LTE Band 25 (PCS)	20	1	25.2	25.17	-0.16	0	01704	QPSK	1	50	0 mm	bottom	1:1	2.700	1.007	2.719	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	24.2	24.07	-0.08	1	01704	QPSK	50	0	3 mm	bottom	1:1	1.900	1.030	1.957	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	24.2	23.99	-0.09	1	01704	QPSK	100	0	3 mm	bottom	1:1	1.800	1.050	1.890	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	25.2	25.17	-0.02	0	01704	QPSK	1	50	0 mm	left	1:1	0.408	1.007	0.411	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	24.2	24.07	-0.10	1	01704	QPSK	50	0	0 mm	left	1:1	0.342	1.030	0.352	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	22.99	0.13	0	01704	QPSK	1	50	0 mm	back	1:1	1.680	1.050	1.764	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	23.08	0.12	0	01704	QPSK	50	0	0 mm	back	1:1	1.860	1.028	1.912	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	22.99	0.06	0	01704	QPSK	1	50	0 mm	front	1:1	1.190	1.050	1.250	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	23.08	0.00	0	01704	QPSK	50	0	0 mm	front	1:1	1.290	1.028	1.326	
1860.00	26140	Low	LTE Band 25 (PCS)	20	-	23.2	22.92	-0.13	0	01704	QPSK	1	99	0 mm	bottom	1:1	2.720	1.067	2.902	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	-	23.2	22.98	-0.16	0	01704	QPSK	1	50	0 mm	bottom	1:1	2.620	1.052	2.756	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	22.99	-0.17	0	01704	QPSK	1	50	0 mm	bottom	1:1	2.610	1.050	2.741	
1860.00	26140	Low	LTE Band 25 (PCS)	20	-	23.2	23.04	-0.09	0	01704	QPSK	50	50	0 mm	bottom	1:1	2.820	1.038	2.927	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	-	23.2	23.05	-0.15	0	01704	QPSK	50	50	0 mm	bottom	1:1	2.810	1.035	2.908	
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	23.08	-0.15	0	01704	QPSK	50	0	0 mm	bottom	1:1	2.870	1.028	2.950	A65
1905.00	26590	High	LTE Band 25 (PCS)	20	-	23.2	22.98	-0.18	0	01704	QPSK	100	0	0 mm	bottom	1:1	2.680	1.052	2.819	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Phablet											
Spatial Peak									4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population									averaged over 10 grams											

Note: 1) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees)

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Table 11-67
LTE Band 41 Phablet SAR

MEASUREMENT RESULTS																						
1 CC Uplink / 2 CC Uplink, Power Class	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Configuration	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [10g]	Scaling Factor	Reported SAR [10g]	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	25.2	24.62	0.06	0	01712	QPSK	1	50	2 mm	back	1:1.58	0.805	1.143	0.920	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	1	25.2	24.62	-0.03	0	01712	QPSK	1	50	0 mm	back	1:1.58	1.050	1.143	1.200	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.17	0.04	1	01712	QPSK	50	50	2 mm	back	1:1.58	0.666	1.007	0.671	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	25.2	24.62	-0.04	0	01712	QPSK	1	50	1 mm	front	1:1.58	0.730	1.143	0.834	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	3	25.2	24.62	-0.14	0	01712	QPSK	1	50	0 mm	front	1:1.58	2.080	1.143	2.377	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	3	25.2	24.46	-0.16	0	01712	QPSK	1	50	0 mm	front	1:1.58	2.080	1.186	2.467	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	3	25.2	24.49	-0.13	0	01712	QPSK	1	50	0 mm	front	1:1.58	2.110	1.178	2.486	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	3	25.2	24.46	-0.15	0	01712	QPSK	1	50	0 mm	front	1:1.58	2.030	1.186	2.408	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	3	25.2	24.60	-0.17	0	01712	QPSK	1	50	0 mm	front	1:1.58	1.800	1.148	2.066	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.17	-0.01	1	01712	QPSK	50	50	1 mm	front	1:1.58	0.586	1.007	0.590	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	25.2	24.62	-0.13	0	01712	QPSK	1	50	3 mm	bottom	1:1.58	1.240	1.143	1.417	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	1	25.2	24.62	-0.11	0	01712	QPSK	1	50	0 mm	bottom	1:1.58	0.984	1.143	1.125	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.17	-0.13	1	01712	QPSK	50	50	3 mm	bottom	1:1.58	1.050	1.007	1.057	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	25.2	24.62	-0.19	0	01712	QPSK	1	50	0 mm	left	1:1.58	0.253	1.143	0.289	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.17	0.16	1	01712	QPSK	50	50	0 mm	left	1:1.58	0.212	1.007	0.213	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	-0.14	0	01712	QPSK	1	0	0 mm	back	1:1.58	1.900	1.000	1.900	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	-	24.2	24.18	-0.15	0	01712	QPSK	1	50	0 mm	back	1:1.58	1.930	1.005	1.940	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	-	24.2	24.15	-0.14	0	01712	QPSK	1	50	0 mm	back	1:1.58	2.040	1.012	2.064	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	-	24.2	24.09	-0.10	0	01712	QPSK	1	50	0 mm	back	1:1.58	2.120	1.026	2.175	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	-	24.2	24.11	-0.15	0	01712	QPSK	1	99	0 mm	back	1:1.58	1.910	1.021	1.950	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	-0.13	0	01712	QPSK	50	0	0 mm	back	1:1.58	1.930	1.000	1.930	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	-	24.2	24.18	-0.13	0	01712	QPSK	50	50	0 mm	back	1:1.58	1.970	1.005	1.980	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	-	24.2	24.13	-0.17	0	01712	QPSK	50	50	0 mm	back	1:1.58	2.080	1.016	2.113	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	-	24.2	24.10	-0.15	0	01712	QPSK	50	0	0 mm	back	1:1.58	2.180	1.023	2.230	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	-	24.2	24.08	-0.12	0	01712	QPSK	50	25	0 mm	back	1:1.58	2.000	1.028	2.056	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.15	-0.14	0	01712	QPSK	100	0	0 mm	back	1:1.58	1.960	1.012	1.984	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	-0.11	0	01712	QPSK	1	0	0 mm	front	1:1.58	1.330	1.000	1.330	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	-0.11	0	01712	QPSK	50	0	0 mm	front	1:1.58	1.340	1.000	1.340	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	-0.15	0	01712	QPSK	1	0	0 mm	bottom	1:1.58	2.370	1.000	2.370	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	-	24.2	24.18	-0.15	0	01712	QPSK	1	50	0 mm	bottom	1:1.58	2.340	1.005	2.352	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	-	24.2	24.15	-0.19	0	01712	QPSK	1	50	0 mm	bottom	1:1.58	2.330	1.012	2.358	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	-	24.2	24.09	-0.11	0	01712	QPSK	1	50	0 mm	bottom	1:1.58	2.220	1.026	2.278	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	-	24.2	24.11	-0.13	0	01712	QPSK	1	99	0 mm	bottom	1:1.58	1.930	1.021	1.971	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	-0.13	0	01712	QPSK	50	0	0 mm	bottom	1:1.58	2.420	1.000	2.420	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	-	24.2	24.18	-0.19	0	01712	QPSK	50	50	0 mm	bottom	1:1.58	2.410	1.005	2.422	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	-	24.2	24.13	-0.17	0	01712	QPSK	50	50	0 mm	bottom	1:1.58	2.360	1.016	2.398	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	-	24.2	24.10	-0.18	0	01712	QPSK	50	0	0 mm	bottom	1:1.58	2.300	1.023	2.353	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	-	24.2	24.08	-0.16	0	01712	QPSK	50	25	0 mm	bottom	1:1.58	2.060	1.028	2.118	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.15	-0.13	0	01712	QPSK	100	0	0 mm	bottom	1:1.58	2.290	1.012	2.317	
1 CC Uplink - Power Class 2	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	-	26.7	26.23	-0.07	0	01712	QPSK	50	50	0 mm	bottom	1:2.31	2.550	1.114	2.841	A66
2 CC Uplink - Power Class 3	PCC	2549.50	40185	Low-Mid	LTE Band 41	20	-	24.2	24.10	-0.20	0	01712	QPSK	50	50	0 mm	bottom	1:1.58	2.270	1.023	2.322	
2 CC Uplink - Power Class 3	SCC	2569.30	40383	Low-Mid		20																
2 CC Uplink - Power Class 2	PCC	2549.50	40185	Low-Mid		20																
2 CC Uplink - Power Class 2	SCC	2569.30	40383	Low-Mid		20																
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	-	24.2	24.20	-0.13	0	01712	QPSK	50	0	0 mm	bottom	1:1.58	2.410	1.000	2.410	
1 CC Uplink - Power Class 2	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	-	26.7	26.23	-0.07	0	01712	QPSK	50	50	0 mm	bottom	1:2.31	2.540	1.114	2.830	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Phablet												
Spatial Peak										4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 10 grams												

Note: 1) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees) 3) Blue entries represent variability measurements.

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Table 11-68
NR n66 (AWS) Antenna 2 Standalone Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Position	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.19	0.12	0	01720	DFT-S-OFDM QPSK	1	108	2 mm	back	1:1	2.550	1.002	2.555	
1745.00	349000	Mid	NR Band n66 (AWS)	40	1	25.2	25.19	0.13	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	back	1:1	2.890	1.002	2.896	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.04	0.14	0	01720	DFT-S-OFDM QPSK	108	54	2 mm	back	1:1	2.520	1.038	2.616	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	24.90	0.13	0	01720	DFT-S-OFDM QPSK	216	0	2 mm	back	1:1	1.820	1.072	1.951	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.19	0.04	0	01720	DFT-S-OFDM QPSK	1	108	1 mm	front	1:1	2.890	1.002	2.896	
1745.00	349000	Mid	NR Band n66 (AWS)	40	3	25.2	25.19	0.07	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	front	1:1	3.190	1.002	3.196	A67
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.04	0.12	0	01720	DFT-S-OFDM QPSK	108	54	1 mm	front	1:1	2.730	1.038	2.834	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.7	23.15	0.06	1.5	01720	CP-OFDM QPSK	1	1	1 mm	front	1:1	1.630	1.135	1.850	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	24.90	0.11	0	01720	DFT-S-OFDM QPSK	216	0	1 mm	front	1:1	2.090	1.072	2.240	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.19	-0.03	0	01720	DFT-S-OFDM QPSK	1	108	3 mm	bottom	1:1	2.510	1.002	2.515	
1745.00	349000	Mid	NR Band n66 (AWS)	40	1	25.2	25.19	-0.07	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	bottom	1:1	2.350	1.002	2.355	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.04	-0.02	0	01720	DFT-S-OFDM QPSK	108	54	3 mm	bottom	1:1	2.390	1.038	2.481	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	24.90	0.10	0	01720	DFT-S-OFDM QPSK	216	0	3 mm	bottom	1:1	1.800	1.072	1.930	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.19	-0.18	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	left	1:1	0.958	1.002	0.960	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.04	0.11	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	left	1:1	0.986	1.038	1.023	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.01	-0.06	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	back	1:1	2.400	1.045	2.508	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	22.95	-0.02	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	back	1:1	2.400	1.059	2.542	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	22.79	0.00	0	01720	DFT-S-OFDM QPSK	216	0	0 mm	back	1:1	2.420	1.099	2.660	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.01	-0.10	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	front	1:1	2.360	1.045	2.466	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	22.95	-0.06	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	front	1:1	2.410	1.059	2.552	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	22.79	-0.02	0	01720	DFT-S-OFDM QPSK	216	0	0 mm	front	1:1	2.340	1.099	2.572	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.01	0.01	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	bottom	1:1	2.600	1.045	2.717	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	22.95	0.12	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	bottom	1:1	2.660	1.059	2.817	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	22.79	0.14	0	01720	DFT-S-OFDM QPSK	216	0	0 mm	bottom	1:1	2.550	1.099	2.802	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																				
Spatial Peak										Phablet										
Uncontrolled Exposure/General Population										4.0 W/kg (mW/g) averaged over 10 grams										

Note: 1) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees) 3) Blue entry represents variability measurement.

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Table 11-69
NR n66 (AWS) Antenna 3 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Position	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.08	0.15	0	01738	DFT-S-OFDM QPSK	1	108	2 mm	back	1:1	1.630	1.028	1.676	
1745.00	349000	Mid	NR Band n66 (AWS)	40	1	25.2	25.08	0.10	0	01738	DFT-S-OFDM QPSK	1	108	0 mm	back	1:1	1.770	1.028	1.820	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.08	0.08	0	01738	DFT-S-OFDM QPSK	108	54	2 mm	back	1:1	1.660	1.028	1.706	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.08	-0.17	0	01738	DFT-S-OFDM QPSK	1	108	1 mm	front	1:1	1.550	1.028	1.593	
1745.00	349000	Mid	NR Band n66 (AWS)	40	3	25.2	25.08	0.03	0	01738	DFT-S-OFDM QPSK	1	108	0 mm	front	1:1	2.200	1.028	2.262	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.08	0.11	0	01738	DFT-S-OFDM QPSK	108	54	1 mm	front	1:1	1.510	1.028	1.552	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.08	0.01	0	01738	DFT-S-OFDM QPSK	1	108	3 mm	bottom	1:1	0.200	1.028	0.206	
1745.00	349000	Mid	NR Band n66 (AWS)	40	1	25.2	25.08	0.13	0	01738	DFT-S-OFDM QPSK	1	108	0 mm	bottom	1:1	0.530	1.028	0.545	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.08	0.08	0	01738	DFT-S-OFDM QPSK	108	54	3 mm	bottom	1:1	0.218	1.028	0.224	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.08	0.00	0	01738	DFT-S-OFDM QPSK	1	108	2 mm	right	1:1	2.380	1.028	2.447	
1745.00	349000	Mid	NR Band n66 (AWS)	40	1	25.2	25.08	-0.10	0	01738	DFT-S-OFDM QPSK	1	108	0 mm	right	1:1	3.180	1.028	3.269	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	25.08	-0.13	0	01738	DFT-S-OFDM QPSK	108	54	2 mm	right	1:1	2.370	1.028	2.436	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.7	23.46	0.01	1.5	01738	CP-OFDM QPSK	1	1	2 mm	right	1:1	1.580	1.057	1.670	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	25.2	24.96	0.01	0	01738	DFT-S-OFDM QPSK	216	0	2 mm	right	1:1	2.080	1.057	2.199	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.06	-0.17	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	back	1:1	2.250	1.033	2.324	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.14	-0.10	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	back	1:1	2.410	1.014	2.444	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.00	0.09	0	01720	DFT-S-OFDM QPSK	216	0	0 mm	back	1:1	2.330	1.047	2.440	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.06	-0.06	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	front	1:1	1.710	1.033	1.766	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.14	-0.07	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	front	1:1	1.830	1.014	1.856	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.06	0.04	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	bottom	1:1	0.297	1.033	0.307	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.14	-0.13	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	bottom	1:1	0.329	1.014	0.334	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.06	0.10	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	right	1:1	2.650	1.033	2.737	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.14	-0.19	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	right	1:1	2.850	1.014	2.890	
1745.00	349000	Mid	NR Band n66 (AWS)	40	-	23.2	23.00	-0.15	0	01720	DFT-S-OFDM QPSK	216	0	0 mm	right	1:1	2.800	1.047	2.932	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Phablet										
Spatial Peak										4.0 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 10 grams										

Note: 1) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees)

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Table 11-70
NR n25 (PCS) Antenna 2 Standalone Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Position	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.01	-0.19	0	01720	DFT-S-OFDM QPSK	1	108	2 mm	back	1:1	1.770	1.045	1.850	
1882.50	376500	Mid	NR Band n25 (PCS)	40	1	25.2	25.01	-0.02	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	back	1:1	3.200	1.045	3.344	A68
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.02	0.15	0	01720	DFT-S-OFDM QPSK	108	54	2 mm	back	1:1	2.010	1.042	2.094	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.00	0.13	0	01720	DFT-S-OFDM QPSK	216	0	2 mm	back	1:1	1.510	1.047	1.581	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.01	-0.05	0	01720	DFT-S-OFDM QPSK	1	108	1 mm	front	1:1	1.530	1.045	1.599	
1882.50	376500	Mid	NR Band n25 (PCS)	40	3	25.2	25.01	-0.17	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	front	1:1	1.940	1.045	2.027	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.02	-0.04	0	01720	DFT-S-OFDM QPSK	108	54	1 mm	front	1:1	1.540	1.042	1.605	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.01	-0.08	0	01720	DFT-S-OFDM QPSK	1	108	3 mm	bottom	1:1	2.830	1.045	2.957	
1882.50	376500	Mid	NR Band n25 (PCS)	40	1	25.2	25.01	-0.05	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	bottom	1:1	3.100	1.045	3.240	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.02	-0.13	0	01720	DFT-S-OFDM QPSK	108	54	3 mm	bottom	1:1	2.940	1.042	3.063	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.00	-0.16	0	01720	DFT-S-OFDM QPSK	216	0	3 mm	bottom	1:1	2.250	1.047	2.356	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.01	-0.17	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	left	1:1	0.490	1.045	0.512	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.02	-0.11	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	left	1:1	0.477	1.042	0.497	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	-0.13	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	back	1:1	2.070	1.135	2.349	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	-0.03	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	back	1:1	2.260	1.135	2.565	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.64	-0.09	0	01720	DFT-S-OFDM QPSK	216	0	0 mm	back	1:1	2.270	1.138	2.583	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	-0.17	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	front	1:1	1.660	1.135	1.884	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	-0.18	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	front	1:1	1.700	1.135	1.930	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	0.15	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	bottom	1:1	2.920	1.135	3.314	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.65	0.01	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	bottom	1:1	3.050	1.135	3.462	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.36	-0.15	0	01720	CP-OFDM QPSK	1	1	0 mm	bottom	1:1	2.710	1.213	3.287	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.64	-0.05	0	01720	DFT-S-OFDM QPSK	216	0	0 mm	bottom	1:1	2.970	1.138	3.380	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																				
Spatial Peak										Phablet										
Uncontrolled Exposure/General Population										4.0 W/kg (mW/g) averaged over 10 grams										

Note: 1) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees)

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Table 11-71
NR n25 (PCS) Antenna 3 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Dual Display Position	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.16	0.17	0	01720	DFT-S-OFDM QPSK	1	108	2 mm	back	1:1	1.670	1.009	1.685	
1882.50	376500	Mid	NR Band n25 (PCS)	40	1	25.2	25.16	0.20	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	back	1:1	1.790	1.009	1.806	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.17	0.18	0	01720	DFT-S-OFDM QPSK	108	54	2 mm	back	1:1	1.980	1.007	1.994	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.03	-0.18	0	01720	DFT-S-OFDM QPSK	216	0	2 mm	back	1:1	1.530	1.040	1.591	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.16	0.00	0	01720	DFT-S-OFDM QPSK	1	108	1 mm	front	1:1	2.070	1.009	2.089	
1882.50	376500	Mid	NR Band n25 (PCS)	40	3	25.2	25.16	-0.07	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	front	1:1	2.200	1.009	2.220	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.17	0.01	0	01720	DFT-S-OFDM QPSK	108	54	1 mm	front	1:1	2.040	1.007	2.054	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.03	-0.08	0	01720	DFT-S-OFDM QPSK	216	0	1 mm	front	1:1	2.020	1.040	2.101	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.16	-0.08	0	01720	DFT-S-OFDM QPSK	1	108	3 mm	bottom	1:1	0.389	1.009	0.393	
1882.50	376500	Mid	NR Band n25 (PCS)	40	1	25.2	25.16	-0.10	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	bottom	1:1	0.659	1.009	0.665	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.17	-0.11	0	01720	DFT-S-OFDM QPSK	108	54	3 mm	bottom	1:1	0.420	1.007	0.423	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.16	0.00	0	01720	DFT-S-OFDM QPSK	1	108	2 mm	right	1:1	2.870	1.009	2.896	
1882.50	376500	Mid	NR Band n25 (PCS)	40	1	25.2	25.16	-0.11	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	right	1:1	2.820	1.009	2.845	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.17	-0.05	0	01720	DFT-S-OFDM QPSK	108	54	2 mm	right	1:1	2.970	1.007	2.991	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.7	23.42	0.00	1.5	01720	CP-OFDM QPSK	1	1	2 mm	right	1:1	1.980	1.067	2.113	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	25.2	25.03	-0.17	0	01720	DFT-S-OFDM QPSK	216	0	2 mm	right	1:1	2.410	1.040	2.506	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.14	-0.13	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	back	1:1	1.780	1.014	1.805	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.16	-0.10	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	back	1:1	1.960	1.009	1.978	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.14	0.03	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	front	1:1	1.410	1.014	1.430	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.16	-0.06	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	front	1:1	1.510	1.009	1.524	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.14	-0.10	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	bottom	1:1	0.409	1.014	0.415	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.16	0.18	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	bottom	1:1	0.454	1.009	0.458	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.14	-0.12	0	01720	DFT-S-OFDM QPSK	1	108	0 mm	right	1:1	2.060	1.014	2.089	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	23.16	-0.10	0	01720	DFT-S-OFDM QPSK	108	54	0 mm	right	1:1	2.150	1.009	2.169	
1882.50	376500	Mid	NR Band n25 (PCS)	40	-	23.2	22.98	-0.10	0	01720	DFT-S-OFDM QPSK	216	0	0 mm	right	1:1	2.050	1.052	2.157	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Phablet										
Spatial Peak										4.0 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 10 grams										

Note: 1) Green entries represent additional Phablet SAR Position (DD #1: 0 degrees) 2) Light orange entries represent additional Phablet SAR Position (DD #3: 360 degrees)

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Table 11-72
WLAN Phablet SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
5260	52	802.11a	OFDM	20	17.5	17.15	-0.20	0 mm	1	01464	6	back	97.6	7.465	0.972	1.084	1.025	1.080	A69
5280	56	802.11a	OFDM	20	19.5	19.34	0.12	0 mm	1	01464	6	back	97.6	11.656	1.720	1.038	1.025	1.830	
5300	60	802.11a	OFDM	20	17.6	17.11	-0.20	0 mm	1	01464	6	back	97.6	7.351	1.020	1.119	1.025	1.170	
5280	56	802.11a	OFDM	20	19.5	19.34	-0.18	0 mm	1	01464	6	front	97.6	1.819	0.296	1.038	1.025	0.315	
5280	56	802.11a	OFDM	20	19.5	19.34	0.11	0 mm	1	01464	6	top	97.6	2.949	-	1.038	1.025	-	-
5280	56	802.11a	OFDM	20	19.5	19.34	-0.20	0 mm	1	01464	6	left	97.6	4.357	0.443	1.038	1.025	0.471	-
5280	56	802.11a	OFDM	20	19.5	18.61	-0.10	0 mm	2	01464	6	back	97.8	5.616	0.541	1.227	1.022	0.678	-
5280	56	802.11a	OFDM	20	19.5	18.61	0.19	0 mm	2	01464	6	front	97.8	2.236	0.389	1.227	1.022	0.488	-
5280	56	802.11a	OFDM	20	19.5	18.61	0.19	0 mm	2	01464	6	top	97.8	1.810	-	1.227	1.022	-	-
5280	56	802.11a	OFDM	20	19.5	18.61	-0.17	0 mm	2	01464	6	left	97.8	1.521	0.154	1.227	1.022	0.193	-
5700	140	802.11a	OFDM	20	17.8	16.88	-0.16	0 mm	1	01464	6	back	97.6	8.537	1.020	1.236	1.025	1.292	-
5700	140	802.11a	OFDM	20	17.8	16.88	0.00	0 mm	1	01464	6	front	97.6	0.486	0.055	1.236	1.025	0.070	-
5700	140	802.11a	OFDM	20	17.8	16.88	0.19	0 mm	1	01464	6	top	97.6	1.025	-	1.236	1.025	-	-
5700	140	802.11a	OFDM	20	17.8	16.88	0.00	0 mm	1	01464	6	left	97.6	2.346	0.204	1.236	1.025	0.258	-
5700	140	802.11a	OFDM	20	17.8	16.86	0.20	0 mm	2	01464	6	back	97.8	3.708	0.695	1.242	1.022	0.882	-
5700	140	802.11a	OFDM	20	17.8	16.86	0.18	0 mm	2	01464	6	front	97.8	1.891	0.318	1.242	1.022	0.404	-
5700	140	802.11a	OFDM	20	17.8	16.86	-0.16	0 mm	2	01464	6	top	97.8	1.976	-	1.242	1.022	-	-
5700	140	802.11a	OFDM	20	17.8	16.86	0.20	0 mm	2	01464	6	left	97.8	3.046	0.258	1.242	1.022	0.327	-
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Phablet 4.0 W/kg (mW/g) averaged over 10 grams											

Table 11-73
WLAN MIMO Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5260	52	802.11n	OFDM	20	17.4	16.99	17.4	16.50	-0.14	0 mm	MIMO	01464	13	back	97.6	5.520	0.878	1.230	1.025	1.107	
5280	56	802.11n	OFDM	20	19.5	19.23	19.5	18.46	-0.18	0 mm	MIMO	01464	13	back	97.6	10.783	1.590	1.271	1.025	2.071	
5320	64	802.11n	OFDM	20	17.4	16.94	17.4	16.47	0.16	0 mm	MIMO	01464	13	back	97.6	6.141	0.977	1.239	1.025	1.241	
5280	56	802.11n	OFDM	20	19.5	19.23	19.5	18.46	0.19	0 mm	MIMO	01464	13	front	97.6	2.932	0.600	1.271	1.025	0.782	
5280	56	802.11n	OFDM	20	19.5	19.23	19.5	18.46	-0.13	0 mm	MIMO	01464	13	top	97.6	4.327	-	1.271	1.025	-	
5280	56	802.11n	OFDM	20	19.5	19.23	19.5	18.46	-0.12	0 mm	MIMO	01464	13	left	97.6	5.988	0.570	1.271	1.025	0.743	
5500	100	802.11n	OFDM	20	17.8	16.97	17.8	16.84	0.15	0 mm	MIMO	01464	13	back	97.6	12.163	1.520	1.247	1.025	1.943	
5500	100	802.11n	OFDM	20	17.8	16.97	17.8	16.84	0.20	0 mm	MIMO	01464	13	front	97.6	3.097	0.497	1.247	1.025	0.635	
5500	100	802.11n	OFDM	20	17.8	16.97	17.8	16.84	0.19	0 mm	MIMO	01464	13	top	97.6	3.255	-	1.247	1.025	-	
5500	100	802.11n	OFDM	20	17.8	16.97	17.8	16.84	0.20	0 mm	MIMO	01464	13	left	97.6	6.687	0.575	1.247	1.025	0.735	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Phablet										
Spatial Peak											4.0 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 10 grams										

Note: To achieve the 20.4 dBm maximum allowed MIMO power shown in the documentation for channel 52 and 64, each antenna transmits at a maximum allowed power of 17.4 dBm. To achieve the 22.5 dBm maximum allowed MIMO power shown in the documentation for channel 56, each antenna transmits at a maximum allowed power of 19.5 dBm. To achieve the 20.8 dBm maximum allowed MIMO power shown in the documentation for channel 100, each antenna transmits at a maximum allowed power of 17.8 dBm.

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11.5 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 orange highlights throughout the report represents the highest SAR per FCC Equipment Class reflected on the FCC Grant.
5. 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.
6. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
7. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 10 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
8. Per FCC KDB Publication 648474 D04v01r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was ≤ 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were required.
9. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 12 for variability analysis.
10. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 6.7 for more details).
11. Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is > 160 mm and < 200 mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information)
12. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the 1g thresholds for the equivalent test cases.

GSM Test Notes:

1. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
2. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
3. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.
4. GPRS was additionally evaluated for head and body-worn exposure conditions to address possible VoIP scenarios.

CDMA Notes:

1. Head SAR for CDMA2000 mode was tested under RC3/SO55 per FCC KDB Publication 941225 D01v03r01.
2. Body-Worn SAR was tested with 1x RTT with TDSO / SO32 FCH Only. EVDO Rev0 and RevA and TDSO / SO32 FCH+SCH SAR tests were not required per the 3G SAR Test Reduction Procedure in FCC KDB Publication 941225 D01v03r01.

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3. CDMA Wireless Router SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0 according to KDB 941225 D01v03r01 procedures for data devices. Wireless Router SAR tests for Subtype 2 of Rev.A and 1x RTT configurations were not required per the 3G SAR Test Reduction Policy in KDB Publication 941225 D01v03r01.
4. Head SAR was additionally evaluated using EVDO Rev. A to determine compliance for VoIP operations.
5. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

UMTS Notes:

1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 8.6.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D01v06, when the reported LTE Band 41 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not > 0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. For LTE Band 41, per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.

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.

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3. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
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 slot configuration is synchronized using LTE uplink/downlink frame configuration 2 (extended cyclic prefix uplink duty cycle = 23.33%). SAR testing was performed using FTM mode with transmission duty cycle of 21.43% and additionally scaled to 23.57% per the manufacturer NR slot format.

WLAN Notes:

1. For held-to-ear, hotspot, and phablet operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g evaluations, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 8.7.5 for more information.
3. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 8.7.6 for more information.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
6. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 12 for complete analysis.

Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 100% transmission duty factor to determine compliance. See Section 9.7 for the time domain plot and calculation for the duty factor of the device.
2. Head and Hotspot Bluetooth SAR were evaluated for BT BR tethering applications.

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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

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

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

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.					(W/kg)	(W/kg)		(W/kg)		(W/kg)	
1750	1745.00	349000	NR Band n66 (AWS), 40 MHz Bandwidth, Antenna 2	DFT-S-OFDM QPSK, 108 RB, 54 RB Offset	back	10 mm	1.150	1.140	1.01	N/A	N/A	N/A	N/A
1900	1882.50	376500	NR Band n25 (PCS), 40 MHz Bandwidth, Antenna 2	DFT-S-OFDM QPSK, 1 RB, 108 RB Offset	bottom	10 mm	1.140	1.130	1.01	N/A	N/A	N/A	N/A
5600	5500.00	100	802.11n, 20 MHz Bandwidth	OFDM, MIMO	back	10 mm	0.819	0.761	1.08	N/A	N/A	N/A	N/A
5750	5785.00	157	802.11n, 20 MHz Bandwidth	OFDM , MIMO	back	10 mm	0.855	0.830	1.03	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body							
Spatial Peak						1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population						averaged over 1 gram							

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Table 12-2
Phablet SAR Measurement Variability Results

PHABLET VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Spacing	Measured SAR (10g)	1st Repeated SAR (10g)	Ratio	2nd Repeated SAR (10g)	Ratio	3rd Repeated SAR (10g)	Ratio
	MHz	Ch.					(W/kg)	(W/kg)		(W/kg)		(W/kg)	
1750	1745.00	349000	NR Band n66 (AWS), 40 MHz Bandwidth, Antenna 2, Dual Display Position #3	DFT-S-OFDM QPSK, 1 RB, 108 RB Offset	front	0 mm	3.190	3.100	1.03	N/A	N/A	N/A	N/A
1900	1880.00	600	PCS CDMA, Dual Display Position #1	EVDO Rev. 0	bottom	0 mm	3.230	3.190	1.01	N/A	N/A	N/A	N/A
2450	2506.00	39750	LTE Band 41, 20 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	bottom	0 mm	2.420	2.410	1.00	N/A	N/A	N/A	N/A
2600	2549.50	40185	LTE Band 41, 20 MHz Bandwidth	QPSK, 50 RB, 50 RB Offset	bottom	0 mm	2.550	2.540	1.00	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Phablet							
Spatial Peak						4.0 W/kg (mW/g)							
Uncontrolled Exposure/General Population						averaged over 10 grams							

12.2 Measurement Uncertainty

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

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13 ADDITIONAL TESTING PER FCC GUIDANCE

13.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. When ULCA is active, the linearity between the Power Class 2 with ULCA active and Power Class 3 with ULCA active SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

Table 13-1
LTE Band 41 Head Linearity Data – 1 RB, 99 RB Offset Configuration

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.2	27.7
Measured Output Power (dBm)	24.52	26.31
Measured SAR (W/kg)	0.046	0.05
Measured Power (mW)	283.14	427.56
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	179.23	185.13
% deviation from expected linearity		5.23%

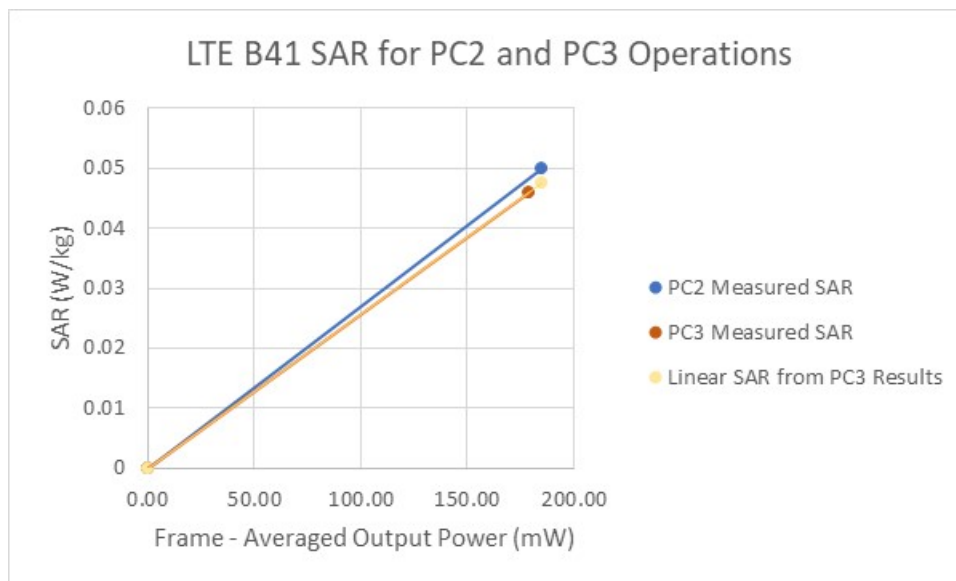


Figure 13-1
LTE Band 41 Head Linearity

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Table 13-2
LTE Band 41 ULCA Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.2	27.7
Measured Output Power (dBm)	24.4	26.54
Measured SAR (W/kg)	0.038	0.045
Measured Power (mW)	275.42	450.82
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	174.34	195.20
% deviation from expected linearity		5.36%

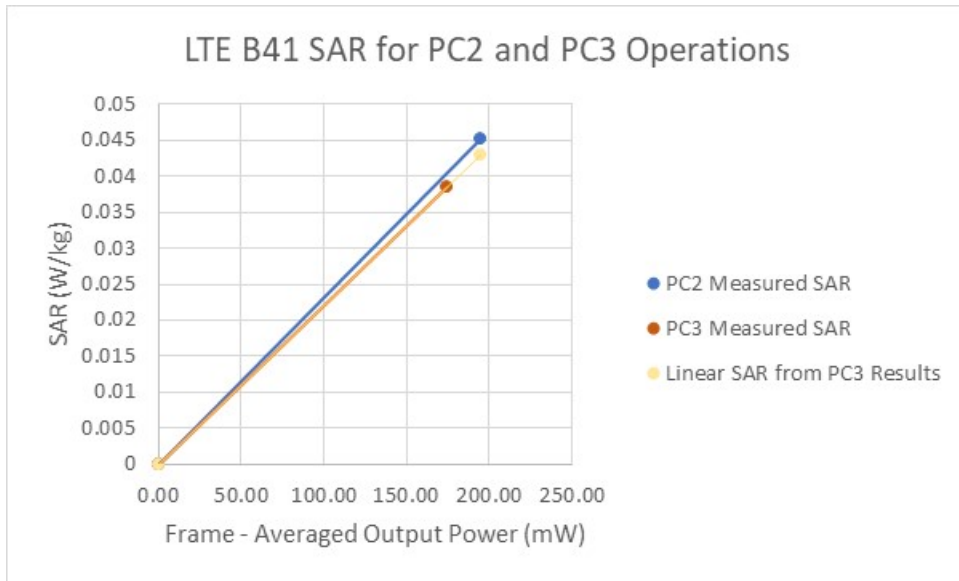


Figure 13-2
LTE Band 41 ULCA Head Linearity

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Table 13-3
LTE Band 41 Body-Worn Linearity Data – 1 RB, 50 RB Offset

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.2	27.7
Measured Output Power (dBm)	24.62	26.52
Measured SAR (W/kg)	0.386	0.37
Measured Power (mW)	289.73	448.75
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	183.40	194.31
% deviation from expected linearity		-9.52%

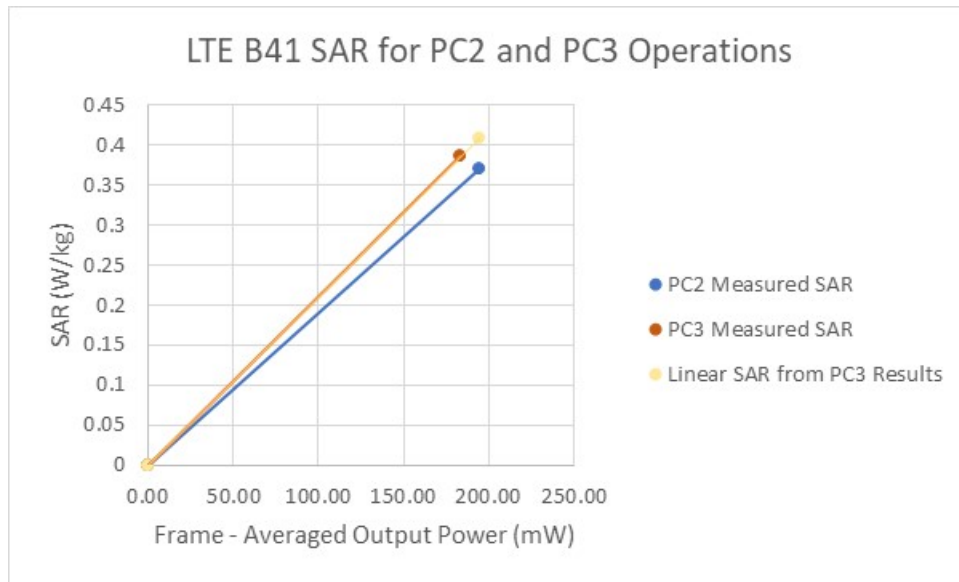


Figure 13-3
LTE Band 41 Body-Worn Linearity

FCC ID: ZNFG900TM	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 13-4
LTE Band 41 ULCA Body-Worn Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.2	27.7
Measured Output Power (dBm)	24.4	26.54
Measured SAR (W/kg)	0.309	0.345
Measured Power (mW)	275.42	450.82
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	174.34	195.20
% deviation from expected linearity		-0.28%

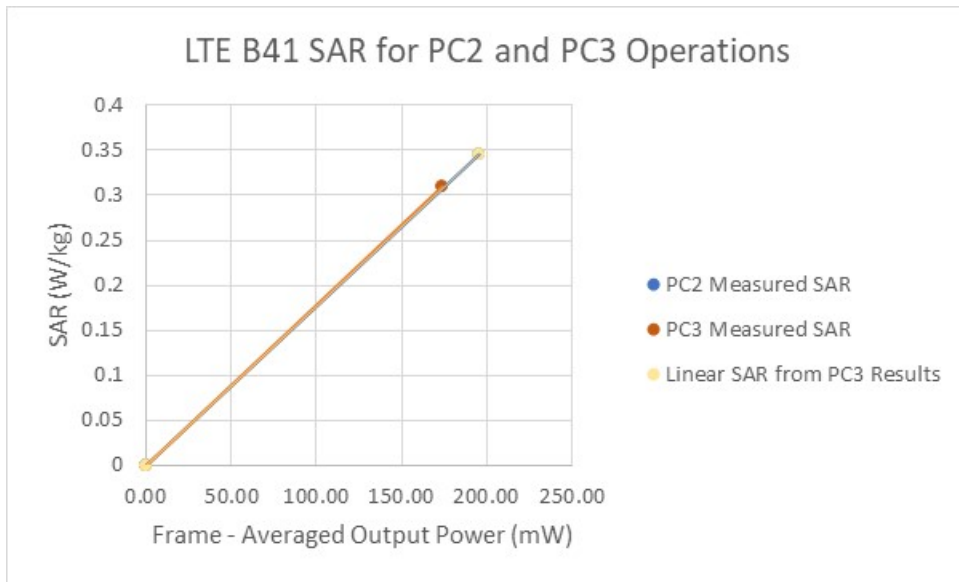


Figure 13-4
LTE Band 41 ULCA Body-Worn Linearity

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Table 13-5
LTE Band 41 Hotspot Linearity Data – 1 RB, 99 RB Offset

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.2	26.7
Measured Output Power (dBm)	24.11	26.41
Measured SAR (W/kg)	0.587	0.628
Measured Power (mW)	257.63	437.52
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	163.08	189.45
% deviation from expected linearity		-7.90%

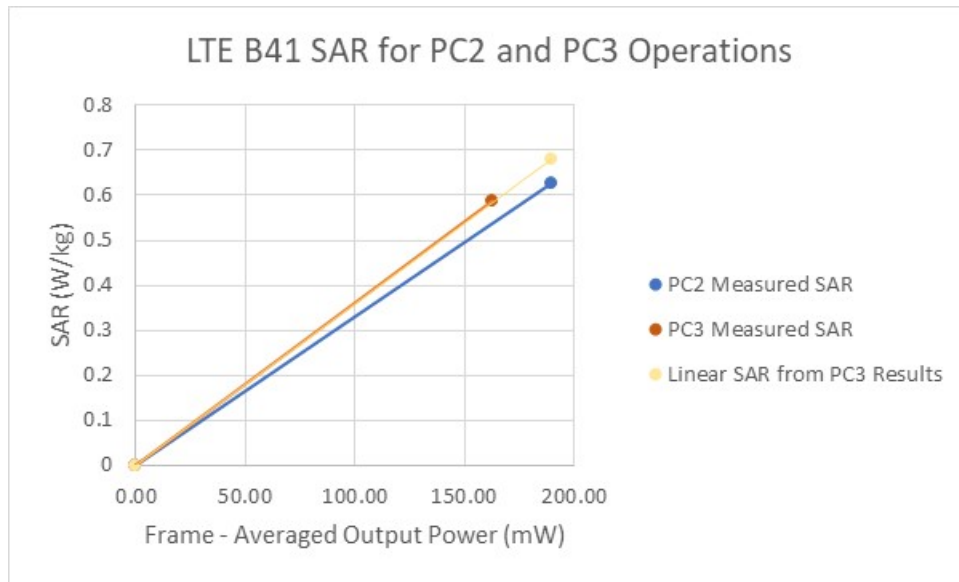


Figure 13-5
LTE Band 41 Hotspot Linearity

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Table 13-6
LTE Band 41 ULCA Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.2	26.7
Measured Output Power (dBm)	24	26.03
Measured SAR (W/kg)	0.529	0.589
Measured Power (mW)	251.19	400.87
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	159.00	173.58
% deviation from expected linearity		1.99%

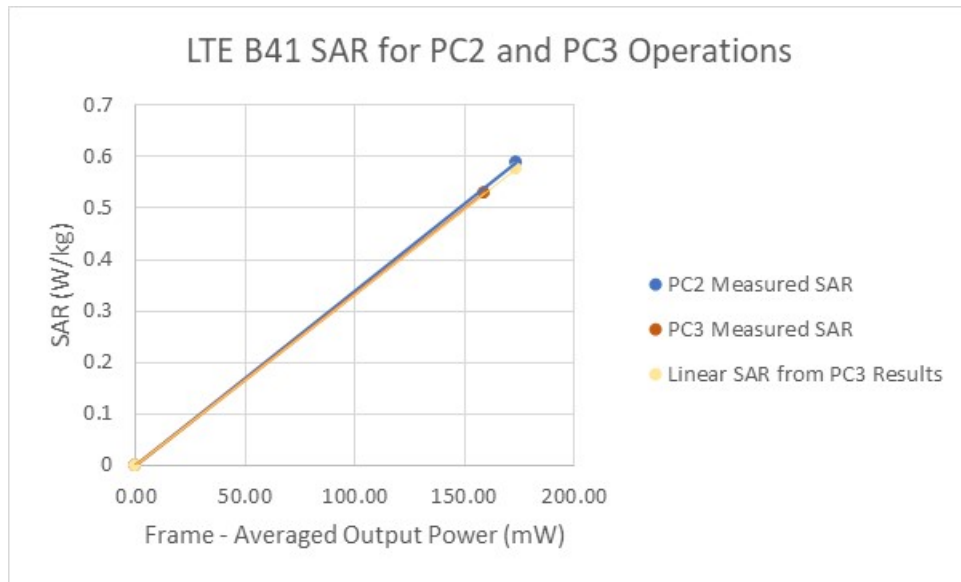


Figure 13-6
LTE Band 41 ULCA Hotspot Linearity

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Table 13-7
LTE Band 41 Phablet Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.2	26.7
Measured Output Power (dBm)	24.18	26.23
Measured SAR (W/kg)	2.41	2.54
Measured Power (mW)	261.82	419.76
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	165.73	181.76
% deviation from expected linearity		-3.90%

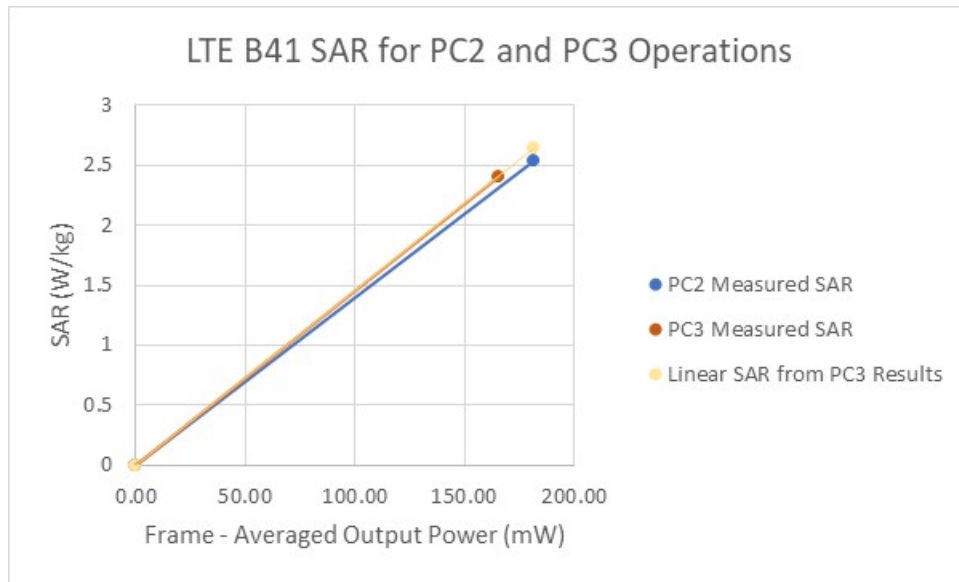


Figure 13-7
LTE Band 41 Phablet Linearity

FCC ID: ZNFG900TM	 Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 13-8
LTE Band 41 ULCA Phablet Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.2	26.7
Measured Output Power (dBm)	24.10	26.00
Measured SAR (W/kg)	2.27	2.55
Measured Power (mW)	257.04	398.11
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	162.71	172.38
% deviation from expected linearity		6.03%

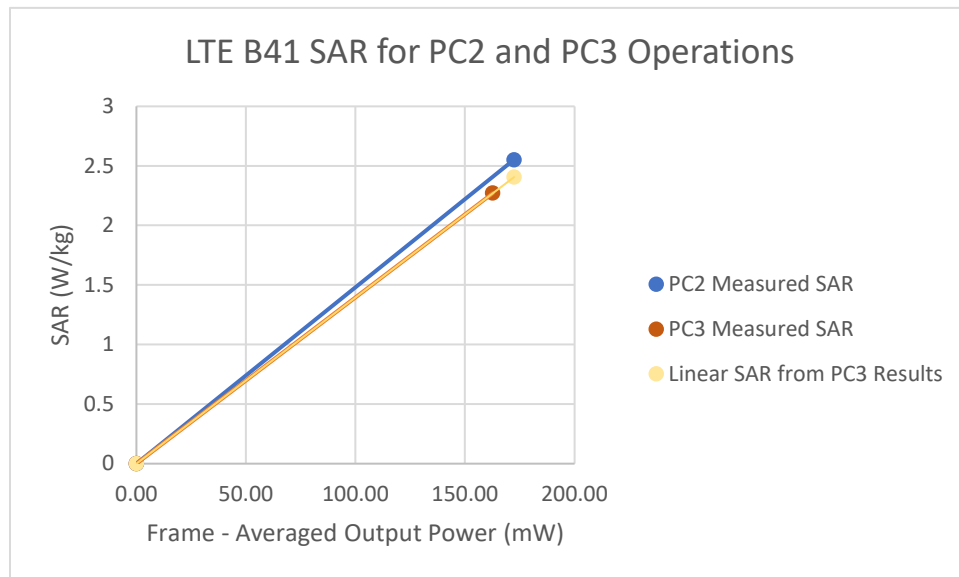


Figure 13-8
LTE ULCA Phablet Linearity

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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8594A	(9kHz-2.9GHz) Spectrum Analyzer	N/A	N/A	N/A	3051A00187
Agilent	E4438C	ESG Vector Signal Generator	9/13/2019	Annual	9/13/2020	MY42081752
Agilent	E4438C	ESG Vector Signal Generator	3/8/2019	Biennial	3/8/2021	MY42082385
Agilent	N5182A	MXG Vector Signal Generator	5/13/2020	Annual	5/13/2021	MY420603
Agilent	8753ES	Network Analyzer	3/5/2020	Annual	3/5/2021	MY40001472
Agilent	8753ES	S-Parameter Network Analyzer	8/26/2019	Annual	8/26/2020	MY40000670
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/19/2019	Annual	9/19/2020	MY40003841
Agilent	E5515C	Wireless Communications Test Set	9/25/2019	Annual	9/25/2020	GB43304278
Agilent	E5515C	Wireless Communications Test Set	1/14/2020	Triennial	1/14/2023	GB43304447
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB44450273
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	343971
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	ML2495A	Power Meter	12/17/2019	Annual	12/17/2020	941001
Anritsu	MA2495A	Power Meter	11/15/2019	Annual	11/15/2020	1038008
Anritsu	MA2411B	Pulse Power Sensor	1/21/2020	Annual	1/21/2021	1202470
Anritsu	MA2411B	Pulse Power Sensor	1/21/2020	Annual	1/21/2021	1339007
Anritsu	MT8821C	Radio Communication Analyzer	3/10/2020	Annual	3/10/2021	620901190
Anritsu	MT8821C	Radio Communication Analyzer	8/16/2019	Annual	8/16/2020	6201144418
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1244524
Anritsu	MA24106A	USB Power Sensor	10/10/2019	Annual	10/10/2020	1344545
Control Company	4352	Long Stem Thermometer	6/26/2019	Biennial	6/26/2021	192282739
Control Company	4352	Long Stem Thermometer	6/26/2019	Biennial	6/26/2021	192282744
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/9/2018	Biennial	10/9/2020	181647802
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/9/2018	Biennial	10/9/2020	181647811
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766777
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766801
Keysight	7720	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight	E4438C	VECTOR SIGNAL GENERATOR	6/21/2020	Annual	6/21/2021	MY459303181
Keysight Technologies	N9020A	MXA Signal Analyzer	12/19/2019	Annual	12/19/2020	MY48010233
Keysight Technologies	N6705B	DC Power Supply	4/27/2019	Biennial	4/27/2021	MY5304069
Keysight Technologies	AT/N6705B	DC Power Supply	N/A	N/A	N/A	MY53001315
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R897590093
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Narda	4014C-6	4 - 8 GHz SMA 5 dB Directional Coupler	CBT	N/A	CBT	N/A
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pattermark	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pattermark	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pattermark	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	1445
Rohde & Schwarz	CMW500	Radio Communication Tester	10/15/2019	Annual	10/15/2020	109366
Rohde & Schwarz	CMW500	Radio Communication Tester	3/27/2020	Annual	3/27/2021	128633
Rohde & Schwarz	2NLE6	Vector Network Analyzer	10/11/2019	Annual	10/11/2020	101307
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	6/23/2020	Annual	6/23/2021	161662
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2/4/2020	Annual	2/4/2021	162125
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	11/14/2019	Annual	11/14/2020	164948
Seekonk	NC-100	Torque Wrench	8/5/2020	Biennial	8/5/2022	N/A
SPEAG	D750V3	750 MHz SAR Dipole	3/11/2020	Annual	3/11/2021	1054
SPEAG	D750V3	750 MHz SAR Dipole	3/16/2020	Annual	3/16/2021	1003
SPEAG	D835V2	835 MHz SAR Dipole	1/13/2020	Annual	1/13/2021	4d132
SPEAG	D835V2	835 MHz SAR Dipole	10/19/2018	Biennial	10/19/2020	4d133
SPEAG	D1750V2	1750 MHz SAR Dipole	5/12/2020	Annual	5/12/2021	1148
SPEAG	D1750V2	1750 MHz SAR Dipole	10/22/2018	Biennial	10/22/2020	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Biennial	10/23/2020	5d180
SPEAG	D1900V2	1900 MHz SAR Dipole	2/21/2019	Biennial	2/21/2021	5d148
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Biennial	10/23/2020	5d149
SPEAG	D2450V2	2450 MHz SAR Dipole	9/11/2017	Triennial	9/11/2020	797
SPEAG	D2450V2	2450 MHz SAR Dipole	2/10/2020	Annual	2/10/2021	882
SPEAG	D2450V2	2450 MHz SAR Dipole	8/16/2018	Biennial	8/16/2020	981
SPEAG	D2600V2	2600 MHz SAR Dipole	4/11/2018	Triennial	4/11/2021	1004
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	1064
SPEAG	D5GHzV2	5 GHz SAR Dipole	1/16/2018	Triennial	1/16/2021	1057
SPEAG	D5GHzV2	5 GHz SAR Dipole	8/10/2018	Biennial	8/10/2020	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/20/2020	Annual	5/20/2021	728
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/11/2019	Annual	7/11/2020	1322
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/15/2020	Annual	7/15/2021	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/17/2019	Annual	9/17/2020	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/18/2020	Annual	6/18/2021	1334
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2020	Annual	4/15/2021	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/12/2019	Annual	9/12/2020	1449
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/13/2019	Annual	11/13/2020	1466
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2020	Annual	1/13/2021	1530
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/5/2019	Annual	12/5/2020	1533
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2020	Annual	1/13/2021	1558
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/14/2020	Annual	5/14/2021	1583
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/12/2020	Annual	5/12/2021	1070
SPEAG	EX3DV4	SAR Probe	1/21/2020	Annual	1/21/2021	3589
SPEAG	EX3DV4	SAR Probe	4/21/2020	Annual	4/21/2021	7357
SPEAG	EX3DV4	SAR Probe	6/23/2020	Annual	6/23/2021	7406
SPEAG	EX3DV4	SAR Probe	6/23/2020	Annual	6/23/2021	7409
SPEAG	EX3DV4	SAR Probe	7/20/2020	Annual	7/20/2021	7410
SPEAG	EX3DV4	SAR Probe	1/21/2020	Annual	1/21/2021	7488
SPEAG	EX3DV4	SAR Probe	5/18/2020	Annual	5/18/2021	7538
SPEAG	EX3DV4	SAR Probe	9/19/2019	Annual	9/19/2020	7551
SPEAG	EX3DV4	SAR Probe	9/19/2019	Annual	9/19/2020	7552
SPEAG	EX3DV4	SAR Probe	11/15/2019	Annual	11/15/2020	7565
SPEAG	EX3DV4	SAR Probe	12/11/2019	Annual	12/11/2020	7571

Note: Equipment was solely used during its calibration period

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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15 MEASUREMENT UNCERTAINTIES

a	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System								
Probe Calibration	6.55	N	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	1.3	N	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	N	1	1.0	1.0	0.3	0.3	∞
System Detection Limits	0.25	R	1.73	1.0	1.0	0.1	0.1	∞
Readout Electronics	0.3	N	1	1.0	1.0	0.3	0.3	∞
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	1.7	∞
RF Ambient Conditions - Reflections	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	R	1.73	1.0	1.0	0.2	0.2	∞
Probe Positioning w/ respect to Phantom	6.7	R	1.73	1.0	1.0	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	4.0	R	1.73	1.0	1.0	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	2.7	N	1	1.0	1.0	2.7	2.7	35
Device Holder Uncertainty	1.67	N	1	1.0	1.0	1.7	1.7	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	∞
Phantom & Tissue Parameters								
Phantom Uncertainty (Shape & Thickness tolerances)	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	4.2	N	1	0.78	0.71	3.3	3.0	10
Liquid Permittivity - measurement uncertainty	4.1	N	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	∞
Liquid Permittivity - Temperature Uncertainty	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	RSS					11.5	11.3	60
Expanded Uncertainty (95% CONFIDENCE LEVEL)	k=2					23.0	22.6	

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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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