



SAR EVALUATION REPORT

Applicant Name:
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PCTEST Lab, Columbia, MD, USA
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FCC ID: **A3LSMG996U**

APPLICANT: **SAMSUNG ELECTRONICS CO., LTD.**

DUT Type: Portable Handset
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: SM-G996U
Additional Model(s): SM-G996U1

Equipment Class	Band & Mode	Tx Frequency	SAR			
			1g Head (W/kg)	1g Body-Worn (W/kg)	1g Hotspot (W/kg)	10g Phantom (W/kg)
PCE	CDMA/EVDO BC10 (E905)	817.90 - 823.10 MHz	0.31	0.37	0.73	N/A
PCE	CDMA/EVDO BC0 (E204)	824.70 - 848.31 MHz	0.24	0.32	0.82	N/A
PCE	PCS CDMA/EVDO	1851.25 - 1908.75 MHz	0.19	0.78	0.91	2.35
PCE	GSM/GPRS/EDGE R90	824.20 - 848.80 MHz	0.18	0.35	0.85	N/A
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	< 0.1	0.34	1.02	1.68
PCE	UMTS B90	825.40 - 846.60 MHz	0.23	0.43	0.64	N/A
PCE	UMTS 1190	1121.4 - 1126.1 MHz	0.19	0.80	0.77	2.96
PCE	UMTS 1900	1852.4 - 1907.0 MHz	0.18	0.78	0.98	2.59
PCE	LTE Band 71	665.5 - 695.5 MHz	< 0.1	0.22	0.35	N/A
PCE	LTE Band 12	699.7 - 713.3 MHz	0.15	0.22	0.46	N/A
PCE	LTE Band 13	779.5 - 784.5 MHz	0.17	0.28	0.49	N/A
PCE	LTE Band 14	789.5 - 795.5 MHz	0.20	0.30	0.56	N/A
PCE	LTE Band 5 (Cell)	824.7 - 848.3 MHz	0.21	0.34	0.70	N/A
PCE	LTE Band 26 (Cell)	814.7 - 848.3 MHz	0.22	0.34	0.82	N/A
PCE	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	0.24	0.52	0.98	2.50
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	0.16	0.68	0.85	2.10
PCE	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 30	2307.5 - 2312.5 MHz	< 0.1	0.53	0.93	1.26
PCE	LTE Band 7	2502.5 - 2567.5 MHz	< 0.1	0.43	0.31	1.93
CBB	LTE Band 48	2552.5 - 2607.5 MHz	0.60	0.18	0.73	N/A
PCE	LTE Band 41	2486.5 - 2507.5 MHz	0.10	0.41	0.59	2.33
PCE	LTE Band 38	2572.5 - 2617.5 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n71	665.5 - 695.5 MHz	< 0.1	< 0.1	0.30	N/A
PCE	NR Band n12	701.5 - 713.3 MHz	0.14	0.33	0.47	N/A
PCE	NR Band n5 (Cell)	825.5 - 846.5 MHz	0.18	0.32	0.84	N/A
PCE	NR Band n66 (AWS)	1712.5 - 1777.5 MHz	0.45	0.85	0.94	2.42
PCE	NR Band n25 (PCS)	1852.5 - 1912.5 MHz	0.31	0.73	0.84	1.83
PCE	NR Band n2 (PCS)	1852.5 - 1907.5 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n30	2307.5 - 2312.5 MHz	< 0.1	0.60	0.84	1.86
PCE	NR Band n41	2486.05 - 2507.95 MHz	0.05	0.12	0.11	0.49
PCE	NR Band n77	3700 - 3980 MHz	0.62	0.14	0.45	3.15
DTX	2.4 GHz WLAN	2412 - 2482 MHz	0.45	0.14	0.46	N/A
NI	U-NB-1	5300 - 5340 MHz	N/A	N/A	N/A	N/A
NI	U-NB-2A	5300 - 5320 MHz	0.28	0.53	N/A	2.02
NI	U-NB-2C	5300 - 5720 MHz	0.55	0.46	N/A	2.81
NI	U-NB-3	5745 - 5825 MHz	0.29	0.47	0.88	N/A
DTXSDTS	2.4 GHz Bluetooth	2402 - 2480 MHz	0.53	< 0.1	0.10	N/A
Simultaneous SAR per KDB 69763 D01v01R05			1.56	1.55	1.99	3.97

Note: This revised Test Report (S/N: 1M2009140143-01-R2.A3L) 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 Ortañez
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 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 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 n30	Data	2307.5 - 2312.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
NR Band n77	Data	3710.01 - 3969.99 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2462 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz

1.2 Time-Averaging Algorithm for RF Exposure Compliance

This device is enabled with Qualcomm® Smart Transmit feature. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 1.11 – Bibliography).

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Note that WLAN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_{design_target} or PD_{design_target} , below the predefined time-averaged power limit (i.e., P_{limit} for sub-6 radio, and $input.power.limit$ for 5G mmW NR), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN could be found in Section 1.11 - Bibliography).

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI). Note that the device uncertainty for sub-6GHz WWAN is 1.0dB for this EUT.

Exposure Scenario:		Body-Worn	Phablet	Phablet	Head	Hotspot	Earjack	Maximum Tune-up Output Power*
Averaging Volume:		1g	10g	10g	1g	1g	10g	
Spacing:		15 mm	5, 4, 10	0 mm	0 mm	10 mm	0 mm	
DSI:		0	0	1	2	3	4	
Technology/Band	Antenna	Plimit corresponding to 1mW/g (SAR_design_target)						Pmax
CDMA/EVDO BC10	A	30.1		26.6	30.9	26.6	26.6	24.8
CDMA/EVDO BC0	A	29.7		26.5	31.7	26.4	26.5	24.5
CDMA/EVDO BC1	A	25.6		20.0	31.8	18.0	20.0	23.5
GSM/GPRS/EDGE 850 MHz	A	28.8		29.1	32.2	26.8	29.1	25.3
GSM/GPRS/EDGE 1900 MHz	A	25.6		20.1	31.9	18.1	20.1	22.3
UMTS B5	A	29.5		26.5	32.2	26.5	26.5	24.8
UMTS B4	A	24.8		20.5	31.6	18.0	20.5	23.5
UMTS B2	A	25.6		20.5	31.9	18.0	20.5	23.5
LTE FDD B71	A	32.1		26.9	35.5	26.9	26.9	24.8
LTE FDD B12	A	31.2		26.9	33.8	26.9	26.9	24.8
LTE FDD B13	A	30.9		27.5	33.6	27.5	27.5	24.8
LTE FDD B14	A	30.7		27.3	32.8	27.3	27.3	24.8
LTE FDD B26	A	29.8		26.9	32.2	26.6	26.9	24.8
LTE FDD B5	A	29.8		26.9	32.6	26.9	26.9	24.8
LTE FDD B66/4	A	24.9		19.5	30.6	19.0	19.5	23.5
LTE FDD B25/2	A	26.2		19.5	32.4	17.5	19.5	23.5
LTE FDD B30	A	26.8		19.0	37.0	19.0	19.0	23.0
LTE FDD B7	B	27.3		19.0	36.2	19.0	19.0	23.5
LTE TDD B48	G	20.0		20.0	15.0	20.0	20.0	21.5
LTE TDD B38/41 PC3	B	27.6		20.0	34.7	19.0	20.0	22.0
LTE TDD B41 PC2	B	27.6		20.0	34.7	19.0	20.0	23.4
NR FDD n71	A	32.1		27.9	36.1	27.9	27.9	24.8
NR FDD n12	A	30.6		28.6	34.5	28.6	28.6	24.8
NR FDD n5	A	30.6		27.3	33.4	26.3	27.3	24.8
NR FDD n66 Ant A	A	25.1		19.5	31.0	19.0	19.5	24.0
NR FDD n66 Ant I	I	23.6		23.5	17.0	19.0	23.5	23.5
NR FDD n25/2 Ant A	A	26.7		19.5	33.2	17.5	19.5	24.3
NR FDD n25/2 Ant I	I	24.3		23.5	17.0	19.0	23.5	23.5
NR FDD n30	A	26.2		19.0	38.1	19.0	19.0	23.0
NR TDD n41 Ant B	B	18.0		14.0	18.0	13.0	14.0	24.0
NR TDD n41 Ant I PC3	I	20.0		20.0	16.0	18.0	20.0	24.3
NR TDD n41 Ant I PC2	I	20.0		20.0	16.0	18.0	20.0	26.3
NR TDD n77 PC3	G	19.0		19.0	14.0	17.5	19.0	23.5
NR TDD n77 PC2	G	19.0		19.0	14.0	17.5	19.0	25.5

*Note all P_{limit} EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., GSM & LTE TDD).

*Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.

The maximum time-averaged output power (dBm) for any 2G/3G/4G/5G Sub6 WWAN technology, band, and DSI = minimum of " P_{limit} EFS" and "Maximum tune up output power P_{max} " + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

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The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

Measurement Condition: All conducted power and SAR measurements in this report (Part 1 test) were performed by setting *Reserve_power_margin* (Smart Transmit EFS entry) to 0dB.

1.3 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for WLAN operations when 5G NR is active and also during all voice or VoIP held to ear scenarios. 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.

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

CDMA BC10 (815 MHz)				
Power Level		Modulated Average Output Power (in dBm)		
		1x-RTT	EVDO Rev 0	EVDO Rev A
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
DSI = 1 (Phablet Reduced)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
DSI = 2 (Head)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
DSI = 3 (Hotspot)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
DSI = 4 (Earjack)	Max allowed power	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8
CDMA BC0 (835 MHz)				
Power Level		Modulated Average Output Power (in dBm)		
		1x-RTT	EVDO Rev 0	EVDO Rev A
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	25.5	25.5	25.5
	Nominal	24.5	24.5	24.5
DSI = 1 (Phablet Reduced)	Max allowed power	25.5	25.5	25.5
	Nominal	24.5	24.5	24.5
DSI = 2 (Head)	Max allowed power	25.5	25.5	25.5
	Nominal	24.5	24.5	24.5
DSI = 3 (Hotspot)	Max allowed power	25.5	25.5	25.5
	Nominal	24.5	24.5	24.5
DSI = 4 (Earjack)	Max allowed power	25.5	25.5	25.5
	Nominal	24.5	24.5	24.5
CDMA BC1 (1900 MHz)				
Power Level		Modulated Average Output Power (in dBm)		
		1x-RTT	EVDO Rev 0	EVDO Rev A
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	24.5	24.5	24.5
	Nominal	23.5	23.5	23.5
DSI = 1 (Phablet Reduced)	Max allowed power	21.0	21.0	21.0
	Nominal	20.0	20.0	20.0
DSI = 2 (Head)	Max allowed power	24.5	24.5	24.5
	Nominal	23.5	23.5	23.5
DSI = 3 (Hotspot)	Max allowed power	19.0	19.0	19.0
	Nominal	18.0	18.0	18.0
DSI = 4 (Earjack)	Max allowed power	21.0	21.0	21.0
	Nominal	20.0	20.0	20.0

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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
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 1 (Phablet Reduced)	Max allowed power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 2 (Head)	Max allowed power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 3 (Hotspot)	Max allowed power	N/A	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	N/A	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 4 (Earjack)	Max allowed power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
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
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	30.5	30.5	29.5	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.5	29.5	28.5	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 1 (Phablet Reduced)	Max allowed power	30.3	30.3	27.3	25.5	24.3	27.0	25.0	23.0	22.0
	Nominal	29.3	29.3	26.3	24.5	23.3	26.0	24.0	22.0	21.0
DSI = 2 (Head)	Max allowed power	30.5	30.5	29.5	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.5	29.5	28.5	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 3 (Hotspot)	Max allowed power	N/A	28.3	25.3	23.5	22.3	27.0	25.0	23.0	22.0
	Nominal	N/A	27.3	24.3	22.5	21.3	26.0	24.0	22.0	21.0
DSI = 4 (Earjack)	Max allowed power	30.3	30.3	27.3	25.5	24.3	27.0	25.0	23.0	22.0
	Nominal	29.3	29.3	26.3	24.5	23.3	26.0	24.0	22.0	21.0

For GSM, the above powers listed are GSM burst average values.

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	3GPP DC-HSDPA Rel 8
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	25.8	24.8	24.8	24.8
	Nominal	24.8	23.8	23.8	23.8
DSI = 1 (Phablet Reduced)	Max allowed power	25.8	24.8	24.8	24.8
	Nominal	24.8	23.8	23.8	23.8
DSI = 2 (Head)	Max allowed power	25.8	24.8	24.8	24.8
	Nominal	24.8	23.8	23.8	23.8
DSI = 3 (Hotspot)	Max allowed power	25.8	24.8	24.8	24.8
	Nominal	24.8	23.8	23.8	23.8
DSI = 4 (Earjack)	Max allowed power	25.8	24.8	24.8	24.8
	Nominal	24.8	23.8	23.8	23.8

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	3GPP DC-HSDPA Rel 8
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	24.5	23.5	23.5	23.5
	Nominal	23.5	22.5	22.5	22.5
DSI = 1 (Phablet Reduced)	Max allowed power	21.5	20.5	20.5	20.5
	Nominal	20.5	19.5	19.5	19.5
DSI = 2 (Head)	Max allowed power	24.5	23.5	23.5	23.5
	Nominal	23.5	22.5	22.5	22.5
DSI = 3 (Hotspot)	Max allowed power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 4 (Earjack)	Max allowed power	21.5	20.5	20.5	20.5
	Nominal	20.5	19.5	19.5	19.5

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	3GPP DC-HSDPA Rel 8
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	24.5	23.5	23.5	23.5
	Nominal	23.5	22.5	22.5	22.5
DSI = 1 (Phablet Reduced)	Max allowed power	21.5	20.5	20.5	20.5
	Nominal	20.5	19.5	19.5	19.5
DSI = 2 (Head)	Max allowed power	24.5	23.5	23.5	23.5
	Nominal	23.5	22.5	22.5	22.5
DSI = 3 (Hotspot)	Max allowed power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 4 (Earjack)	Max allowed power	21.5	20.5	20.5	20.5
	Nominal	20.5	19.5	19.5	19.5

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Mode / Band		Modulated Average Output Power (in dBm)				
		DSI = 0 (Body-Worn or Phablet Max)	DSI = 1 (Phablet Reduced)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
LTE FDD Band 71	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 12	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 13	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 14	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 26	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 5	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 66	Max allowed	24.5	20.5	24.5	20.0	20.5
	Nominal	23.5	19.5	23.5	19.0	19.5
LTE FDD Band 4	Max allowed	24.5	20.5	24.5	20.0	20.5
	Nominal	23.5	19.5	23.5	19.0	19.5
LTE FDD Band 25	Max allowed	24.5	20.5	24.5	18.5	20.5
	Nominal	23.5	19.5	23.5	17.5	19.5
LTE FDD Band 2	Max allowed	24.5	20.5	24.5	18.5	20.5
	Nominal	23.5	19.5	23.5	17.5	19.5
LTE FDD Band 30	Max allowed	24.0	20.0	24.0	20.0	20.0
	Nominal	23.0	19.0	23.0	19.0	19.0
LTE FDD Band 7	Max allowed	24.5	20.0	24.5	20.0	20.0
	Nominal	23.5	19.0	23.5	19.0	19.0
LTE TDD Band 48	Max allowed	23.0	23.0	18.0	23.0	23.0
	Nominal	22.0	22.0	17.0	22.0	22.0
LTE TDD Band 41	Max allowed	25.0	23.0	25.0	22.0	23.0
	Nominal	24.0	22.0	24.0	21.0	22.0
LTE TDD Band 41 (PC2)	Max allowed	28.0	24.6	28.0	23.6	24.6
	Nominal	27.0	23.6	27.0	22.6	23.6
LTE TDD Band 38	Max allowed	25.0	23.0	25.0	22.0	23.0
	Nominal	24.0	22.0	24.0	21.0	22.0
Mode / Band		Modulated Average Output Power (in dBm)				
		DSI = 0 (Body-Worn or Phablet Max)	DSI = 1 (Phablet Reduced)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
NR FDD Band 71	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
NR FDD Band 12	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
NR FDD Band 5	Max allowed	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8
NR FDD Band 66 (Ant A)	Max allowed	25.0	20.5	25.0	20.0	20.5
	Nominal	24.0	19.5	24.0	19.0	19.5
NR FDD Band 25 (Ant A)	Max allowed	25.3	20.5	25.3	18.5	20.5
	Nominal	24.3	19.5	24.3	17.5	19.5
NR FDD Band 2 (Ant A)	Max allowed	25.3	20.5	25.3	18.5	20.5
	Nominal	24.3	19.5	24.3	17.5	19.5
NR FDD Band 30	Max allowed	24.0	20.0	24.0	20.0	20.0
	Nominal	23.0	19.0	23.0	19.0	19.0
NR TDD Band 41 (Ant B)	Max allowed	19.0	15.0	19.0	14.0	15.0
	Nominal	18.0	14.0	18.0	13.0	14.0
NR TDD Band 77	Max allowed	20.0	20.0	15.0	18.5	20.0
	Nominal	19.0	19.0	14.0	17.5	19.0

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Mode / Band		Modulated Average Output Power (in dBm)				
		DSI = 0 (Body-Worn or Phablet Max)	DSI = 1 (Phablet Reduced)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
NR FDD Band 66 (Ant I)	Max allowed	24.5	24.5	18.0	20.0	24.5
	Nominal	23.5	23.5	17.0	19.0	23.5
NR FDD Band 25 (Ant I)	Max allowed	24.5	24.5	18.0	20.0	24.5
	Nominal	23.5	23.5	17.0	19.0	23.5
NR FDD Band 2 (Ant I)	Max allowed	24.5	24.5	18.0	20.0	24.5
	Nominal	23.5	23.5	17.0	19.0	23.5
NR TDD Band 41 (Ant I)	Max allowed	21.0	21.0	17.0	19.0	21.0
	Nominal	20.0	20.0	16.0	18.0	20.0

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

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1.4.2

2.4 GHz Maximum Bluetooth and SISO/MIMO WLAN Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix H

Mode	Band	IEEE 802.11 (in dBm)																					
		SISO								SISO								MIMO					
		Antenna 1								Antenna 2													
		b		g		n		ax (SU)		b		g		n		ax (SU)		g (CDD + STBC)		n (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WiFi	2.45 GHz	21.0	20.0	18.5	17.5	18.5	17.5	18.0	17.0	19.5	18.5	17.5	16.5	17.5	16.5	17.0	16.0	21.0	20.0	21.0	20.0	18.0	17.0
				ch. 1: 16.5	15.5	ch. 1: 16.5	15.5	ch. 1: 15.5	14.5			ch. 1: 16.5	15.5	ch. 1: 16.5	15.5	ch. 1: 15.5	14.5	ch. 1: 19.5	18.5	ch. 1: 19.5	18.5	ch. 1: 15.5	14.5
				ch. 10: 16.5		15.5	ch. 10: 16.5	15.5	ch. 10: 16.5	15.5			ch. 10: 16.5		15.5	ch. 10: 16.5	15.5			ch. 10: 19.5	18.5	ch. 10: 16.5	15.5
				ch. 11: 16.5	15.5	ch. 11: 16.5	15.5	ch. 11: 13.5	12.5			ch. 11: 16.5	15.5	ch. 11: 16.5	15.5	ch. 11: 13.5	12.5	ch. 11: 19.5	18.5	ch. 11: 19.5	18.5	ch. 11: 13.5	12.5

Mode / Band		Modulated Average (dBm)
Bluetooth	Maximum	18.0
	Nominal	17.0
Bluetooth (EDR)	Maximum	12.0
	Nominal	11.0
Bluetooth LE 2Mbps	Maximum	10.0
	Nominal	9.0
Bluetooth LE 1 Bbps, 125/500 Kbps	Maximum	10.0
	Nominal	9.0

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1.4.3

2.4 GHz Reduced WLAN Output Powers

Note: Targets for 802.11ax RU operations can be found in Appendix H

The below table is applicable in the following conditions:

- Head Conditions
- Head conditions with simultaneous conditions with 5G NR
- Simultaneous conditions with 5 GHz WLAN
- Simultaneous conditions with 5G NR
- Simultaneous conditions with 5G NR and 5 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)																					
		SISO								SISO								MIMO					
		Antenna 1								Antenna 2													
		b		g		n		ax (SU)		b		g		n		ax (SU)		g (CDD + STBC)		n (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WiFi	2.45 GHz	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0 ch. 1: 15.5 ch. 11: 13.5	16.0	15.0	16.0	15.0	16.0	15.0 ch. 1: 15.5 ch. 11: 13.5	16.0	15.0	19.0	18.0	19.0	18.0	18.0	17.0 ch. 1: 15.5 ch. 2: 16.5 ch. 10: 16.5 ch. 11: 13.5

The below table is applicable in the following conditions:

- Head Conditions during simultaneous conditions with 5 GHz WLAN
- Head Conditions during simultaneous conditions with 5G NR and 5 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)																					
		SISO								SISO								MIMO					
		Antenna 1								Antenna 2													
		b		g		n		ax (SU)		b		g		n		ax (SU)		g (CDD + STBC)		n (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
2.4 GHz WiFi	2.45 GHz	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	16.0	15.0	16.0	15.0	16.0 ch. 1: 15.5 ch. 11: 13.5	14.5 12.5

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1.4.4

5 GHz Maximum SISO/MIMO WLAN Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix H

Mode	Band	IEEE 802.11 (in dBm)																			
		SISO								SISO								MIMO			
		Antenna 1								Antenna 2											
		a		n		ac		ax (SU)		a		n		ac		ax (SU)		a (CDD+STBC)	n (CDD+STBC, SDM)	ac (CDD+STBC, SDM)	ax (SU) (CDD+STBC, SDM)
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WiFi (20MHz BW)	5200 MHz	18.5	17.5	18.5	17.5	18.5	17.5	18.0	17.0	17.5	16.5	17.5	16.5	17.5	16.5	17.0	16.0	21.0	20.0	21.0	20.0
								Ch. 36: 15.5	14.5							Ch. 36: 15.5	14.5	Ch. 36: 20.5	19.5	Ch. 36: 20.0	19.0
	5300 MHz	18.5	17.5	18.5	17.5	18.5	17.5	18.0	17.0	17.5	16.5	17.5	16.5	17.5	16.5	17.0	16.0	21.0	20.0	21.0	20.0
		Ch. 64: 17.5	16.5	Ch. 64: 17.0	16.0	Ch. 64: 17.0	16.0	Ch. 64: 15.0	14.0	Ch. 64: 17.0	16.0	Ch. 64: 17.0	16.0	Ch. 64: 15.0	14.0	Ch. 64: 20.0	19.0	Ch. 64: 20.0	19.0	Ch. 64: 20.0	19.0
5 GHz WiFi (40MHz BW)	5500 MHz	18.5	17.5	18.5	17.5	18.5	17.5	18.0	17.0	17.5	16.5	17.5	16.5	17.5	16.5	17.0	16.0	21.0	20.0	21.0	20.0
		Ch. 100: 16.5	15.5	Ch. 100: 16.5	15.5	Ch. 100: 16.5	15.5	Ch. 100: 16.0	15.0	Ch. 100: 16.5	15.5	Ch. 100: 16.5	15.5	Ch. 100: 16.5	15.5	Ch. 100: 16.0	15.0	Ch. 100: 19.5	18.5	Ch. 100: 19.5	18.5
	5800 MHz	18.5	17.5	18.5	17.5	18.5	17.5	18.0	17.0	17.5	16.5	17.5	16.5	17.5	16.5	17.0	16.0	21.0	20.0	21.0	20.0
																		21.0	20.0	21.0	20.0
5 GHz WiFi (80MHz BW)	5200 MHz			17.5	16.5	17.5	16.5	17.0	16.0			16.5	15.5	16.5	15.5	16.0	15.0			20.0	19.0
				Ch. 38: 14.5	13.5	Ch. 38: 14.5	13.5	Ch. 38: 13.5	12.5			Ch. 38: 14.5	13.5	Ch. 38: 14.5	13.5	Ch. 38: 13.5	12.5			Ch. 38: 17.5	16.5
	5300 MHz			17.5	16.5	17.5	16.5	17.0	16.0			16.5	15.5	16.5	15.5	16.0	15.0			20.0	19.0
				Ch. 62: 13.5	12.5	Ch. 62: 13.5	12.5	Ch. 62: 13.5	12.5			Ch. 62: 13.5	12.5	Ch. 62: 13.5	12.5	Ch. 62: 13.5	12.5			Ch. 62: 16.5	15.5
5 GHz WiFi (80MHz BW)	5500 MHz			17.5	16.5	17.5	16.5	17.0	16.0			16.5	15.5	16.5	15.5	16.0	15.0			20.0	19.0
				Ch. 102: 14.5	13.5	Ch. 102: 14.5	13.5	Ch. 102: 13.5	12.5			Ch. 102: 14.5	13.5	Ch. 102: 14.5	13.5	Ch. 102: 13.5	12.5			Ch. 102: 17.5	16.5
	5800 MHz			17.5	16.5	17.5	16.5	17.0	16.0			16.5	15.5	16.5	15.5	16.0	15.0			20.0	19.0
																				20.0	19.0
5 GHz WiFi (80MHz BW)	5200 MHz					13.0	12.0	13.0	12.0					13.0	12.0	13.0	12.0			16.0	15.0
	5300 MHz					13.0	12.0	12.5	11.5					13.0	12.0	12.5	11.5			16.0	15.0
	5500 MHz					16.5	15.5	16.0	15.0					15.5	14.5	15.0	14.0			19.0	18.0
	5800 MHz					Ch. 106: 13.5	12.5	Ch. 106: 12.5	11.5					Ch. 106: 13.5	12.5	Ch. 106: 12.5	11.5			Ch. 106: 16.5	15.5
5 GHz WiFi (80MHz BW)	5200 MHz					16.5	15.5	16.0	15.0					15.5	14.5	15.0	14.0			19.0	18.0
	5300 MHz					16.5	15.5	16.0	15.0					15.5	14.5	15.0	14.0			19.0	18.0
	5500 MHz					16.5	15.5	16.0	15.0					15.5	14.5	15.0	14.0			19.0	18.0
	5800 MHz					16.5	15.5	16.0	15.0					15.5	14.5	15.0	14.0			19.0	18.0

1.4.5

5 GHz Reduced WLAN Output Powers

Note: Targets for 802.11ax RU operations can be found in Appendix H

The below table is applicable in the following conditions:

- Head Conditions
- Simultaneous conditions with 2.4 GHz WLAN
- Simultaneous conditions with 5G NR(FR1)
- Head Conditions during simultaneous conditions with 2.4 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)																			
		SISO								SISO								MIMO			
		Antenna 1								Antenna 2											
		a		n		ac		ax (SU)		a		n		ac		ax (SU)		a (CDD+STBC)	n (CDD+STBC, SDM)	ac (CDD+STBC, SDM)	ax (SU) (CDD+STBC, SDM)
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WiFi (20MHz BW)	5200 MHz	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	16.0	15.0	16.0	15.0
																				Ch. 36: 15.5	14.5
	5300 MHz	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	16.0	15.0	16.0	15.0
																				Ch. 64: 15.0	14.0
5 GHz WiFi (40MHz BW)	5500 MHz	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	16.0	15.0	16.0	15.0
																				16.0	15.0
	5800 MHz	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	16.0	15.0	16.0	15.0
																				16.0	15.0
5 GHz WiFi (80MHz BW)	5200 MHz			13.0	12.0	13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0	13.0	12.0			16.0	15.0
				Ch. 38: 13.5	12.5	Ch. 38: 13.5	12.5	Ch. 38: 12.5	11.5			Ch. 38: 13.5	12.5	Ch. 38: 13.5	12.5	Ch. 38: 12.5	11.5			Ch. 38: 16.5	15.5
	5300 MHz			13.0	12.0	13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0	13.0	12.0			16.0	15.0
				Ch. 62: 13.5	12.5	Ch. 62: 13.5	12.5	Ch. 62: 12.5	11.5			Ch. 62: 13.5	12.5	Ch. 62: 13.5	12.5	Ch. 62: 12.5	11.5			Ch. 62: 16.5	15.5
5 GHz WiFi (80MHz BW)	5500 MHz			13.0	12.0	13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0	13.0	12.0			16.0	15.0
				Ch. 102: 13.5	12.5	Ch. 102: 13.5	12.5	Ch. 102: 12.5	11.5			Ch. 102: 13.5	12.5	Ch. 102: 13.5	12.5	Ch. 102: 12.5	11.5			Ch. 102: 16.5	15.5
	5800 MHz			13.0	12.0	13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0	13.0	12.0			16.0	15.0
																				16.0	15.0

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The below table is applicable in the following conditions:

- Simultaneous conditions with 2.4 GHz WLAN and 5G NR
- Simultaneous conditions with 5G NR(FR2)
- Head Conditions during simultaneous conditions with 5G NR
- Head Conditions during simultaneous conditions with 5G NR and 2.4 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)																							
		SISO								SISO								MIMO							
		Antenna 1								Antenna 2															
		a		n		ac		ax (SU)		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WiFi (20MHz BW)	5200 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	5300 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	5500 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	5800 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WiFi (40MHz BW)	5200 MHz			11.0	10.0	11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	5300 MHz			11.0	10.0	11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	5500 MHz			11.0	10.0	11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	5800 MHz			11.0	10.0	11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WiFi (80MHz BW)	5200 MHz					11.0	10.0	11.0	10.0					11.0	10.0	11.0	10.0					14.0	13.0	14.0	12.0
	5300 MHz					11.0	10.0	11.0	10.0					11.0	10.0	11.0	10.0					14.0	13.0	12.5	11.5
	5500 MHz					11.0	10.0	11.0	10.0					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
	5800 MHz					11.0	10.0	11.0	10.0					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0

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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 (990S)	Yes	Yes	No	Yes	Yes	Yes
EVDO BC10 (922H)	Yes	Yes	No	Yes	Yes	Yes
PCS EMD	Yes	Yes	No	Yes	Yes	Yes
GPS 850	Yes	Yes	No	Yes	Yes	Yes
GPS 1900	Yes	Yes	No	Yes	Yes	Yes
UMTS 850	Yes	Yes	No	Yes	Yes	Yes
UMTS 1750	Yes	Yes	No	Yes	Yes	Yes
UMTS 1900	Yes	Yes	No	Yes	Yes	Yes
LTE Band 71	Yes	Yes	No	Yes	Yes	Yes
LTE Band 12	Yes	Yes	No	Yes	Yes	Yes
LTE Band 13	Yes	Yes	No	Yes	Yes	Yes
LTE Band 14	Yes	Yes	No	Yes	Yes	Yes
LTE Band 5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 26 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 66 (AWS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 25 (PCS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 30	Yes	Yes	No	Yes	Yes	Yes
LTE Band 7	Yes	Yes	No	Yes	No	Yes
LTE Band 48	Yes	Yes	No	No	Yes	No
LTE Band 41	Yes	Yes	No	Yes	No	Yes
NR Band n71	Yes	Yes	No	Yes	Yes	Yes
NR Band n12	Yes	Yes	No	Yes	Yes	Yes
NR Band n5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS) Antenna I	Yes	Yes	Yes	No	Yes	No
NR Band n25 (PCS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n25 (PCS) Antenna I	Yes	Yes	Yes	No	Yes	No
NR Band n30	Yes	Yes	No	Yes	Yes	Yes
NR Band n41 Antenna B	Yes	Yes	No	Yes	No	Yes
NR Band n41 Antenna I	Yes	Yes	Yes	No	Yes	No
NR Band n77	Yes	Yes	No	No	Yes	No
2.4 GHz WLAN Ant 1	Yes	Yes	No	No	No	Yes
2.4 GHz WLAN Ant 2	Yes	Yes	No	No	No	Yes
2.4 GHz WLAN MIMO	Yes	Yes	No	No	No	Yes
5 GHz WLAN Ant 1	Yes	Yes	No	No	No	Yes
5 GHz WLAN Ant 2	Yes	Yes	Yes	No	No	Yes
5 GHz WLAN MIMO	Yes	Yes	Yes	No	No	Yes
Bluetooth	Yes	Yes	No	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-1, 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.

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.

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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 WLAN	Yes	Yes	N/A	Yes	
2	1x CDMA voice + 5 GHz WLAN	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 WLAN MIMO	Yes	Yes	N/A	Yes	
5	1x CDMA voice + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
6	1x CDMA voice + 2.4 GHz Bluetooth + 5 GHz WLAN	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
7	1x CDMA voice + 2.4 GHz Bluetooth + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
8	1x CDMA voice + 2.4 GHz WLAN + 5 GHz WLAN	Yes	Yes	N/A	Yes	
9	1x CDMA voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
10	GSM voice + 2.4 GHz WLAN	Yes	Yes	N/A	Yes	
11	GSM voice + 5 GHz WLAN	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 WLAN MIMO	Yes	Yes	N/A	Yes	
14	GSM voice + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
15	GSM voice + 2.4 GHz Bluetooth + 5 GHz WLAN	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
16	GSM voice + 2.4 GHz Bluetooth + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
17	GSM voice + 2.4 GHz WLAN + 5 GHz WLAN	Yes	Yes	N/A	Yes	
18	GSM voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
19	UMTS + 2.4 GHz WLAN	Yes	Yes	Yes	Yes	
20	UMTS + 5 GHz WLAN	Yes	Yes	Yes	Yes	
21	UMTS + 2.4 GHz Bluetooth	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
22	UMTS + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
23	UMTS + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
24	UMTS + 2.4 GHz Bluetooth + 5 GHz WLAN	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
25	UMTS + 2.4 GHz Bluetooth + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
26	UMTS + 2.4 GHz WLAN + 5 GHz WLAN	Yes	Yes	Yes	Yes	
27	UMTS + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
28	LTE + 2.4 GHz WLAN	Yes	Yes	Yes	Yes	
29	LTE + 5 GHz WLAN	Yes	Yes	Yes	Yes	
30	LTE + 2.4 GHz Bluetooth	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
31	LTE + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
32	LTE + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
33	LTE + 2.4 GHz Bluetooth + 5 GHz WLAN	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
34	LTE + 2.4 GHz Bluetooth + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
35	LTE + 2.4 GHz WLAN + 5 GHz WLAN	Yes	Yes	Yes	Yes	
36	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
37	LTE + NR	Yes	Yes	N/A	Yes	
38	LTE + NR + 2.4 GHz WLAN	Yes	Yes	Yes	Yes	
39	LTE + NR + 5 GHz WLAN	Yes	Yes	Yes	Yes	
40	LTE + NR + 2.4 GHz Bluetooth	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
41	LTE + NR + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
42	LTE + NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
43	LTE + NR + 2.4 GHz Bluetooth + 5 GHz WLAN	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
44	LTE + NR + 2.4 GHz Bluetooth + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
45	LTE + NR + 2.4 GHz WLAN + 5 GHz WLAN	Yes	Yes	Yes	Yes	
46	LTE + NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
47	NR + 2.4 GHz WLAN	Yes	Yes	Yes	Yes	
48	NR + 5 GHz WLAN	Yes	Yes	Yes	Yes	
49	NR + 2.4 GHz Bluetooth	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
50	NR + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
51	NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
52	NR + 2.4 GHz Bluetooth + 5 GHz WLAN	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
53	NR + 2.4 GHz Bluetooth + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
54	NR + 2.4 GHz WLAN + 5 GHz WLAN	Yes	Yes	Yes	Yes	
55	NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
56	CDMA/EVDO data + 2.4 GHz WLAN	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
57	CDMA/EVDO data + 5 GHz WLAN	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
58	CDMA/EVDO data + 2.4 GHz Bluetooth	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
59	CDMA/EVDO data + 2.4 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
60	CDMA/EVDO data + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
61	CDMA/EVDO data + 2.4 GHz Bluetooth + 5 GHz WLAN	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
62	CDMA/EVDO data + 2.4 GHz Bluetooth + 5 GHz WLAN MIMO	Yes*^	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
63	CDMA/EVDO data + 2.4 GHz WLAN + 5 GHz WLAN	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
64	CDMA/EVDO data + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
65	GPRS/EDGE + 2.4 GHz WLAN	N/A	N/A	Yes	Yes	
66	GPRS/EDGE + 5 GHz WLAN	N/A	N/A	Yes	Yes	
67	GPRS/EDGE + 2.4 GHz Bluetooth	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
68	GPRS/EDGE + 2.4 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
69	GPRS/EDGE + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
70	GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz WLAN	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
71	GPRS/EDGE + 2.4 GHz Bluetooth + 5 GHz WLAN MIMO	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
72	GPRS/EDGE + 2.4 GHz WLAN + 5 GHz WLAN	N/A	N/A	Yes	Yes	
73	GPRS/EDGE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	

- 2.4 GHz WLAN and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
- All licensed modes share the same antenna path and cannot transmit simultaneously.
- 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.

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4. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
5. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII2A, and U-NII2C were not evaluated for wireless router conditions.
6. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
7. This device supports VoWIFI.
8. This device supports Bluetooth Tethering.
9. This device supports VoLTE.
10. LTE + 5G NR FR1 Scenarios are limited to LTE Anchor Bands, LTE 2/5/12/13/14/25/30/41/48/66.
11. 5G NR FR2 n260 and n261 cannot transmit simultaneously.
12. LTE + 5G NR FR2 n260 and n261 operations are possible only with LTE 2/5/12/13/14/30/48/66 under EN-DC mode.

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, 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-1, U-NII-2A & U-NII-2C WIFI, only 2.4 GHz WLAN, 2.4 GHz Bluetooth, 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.

This device supports IEEE 802.11ax with the following features:

- a) Up to 80 MHz Bandwidth only for 5 GHz
- 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 for 5 GHz
- g) MU-MIMO UL Operations are not supported

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-1, U-NII-2A & U-NII-2C WLAN, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

Per April 2019 TCB Workshop Notes, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

(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.

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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.

CDMA 1X Advanced technology was not required for SAR since the maximum allowed output powers for 1x Advanced was not more than 0.25 dB higher than the maximum powers for 1x and the measured SAR in any 1x mode exposure conditions was not greater than 1.2 W/kg per FCC KDB Publication 941225 D01v03r01.

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.

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.

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.

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 both Power Class 2 (PC2) and Power Class 3 (PC3) for LTE Band 41. Per May 2017 TCB Workshop Notes, SAR tests were performed with Power Class 3 (given the specific UL/DL limitations for Power Class 2). Additionally, SAR testing for the power class 2 condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 14.2).

This device supports LTE Carrier Aggregation (CA) for LTE Band 5, LTE Band 66, LTE Band 48, and 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 64QAM and 256QAM on the uplink and 256QAM on the downlink for LTE Operations. Conducted powers for 64QAM and 256QAM uplink configurations were measured per Section 5.1 of FCC KDB Publication 941225D05v02r05. SAR was not required for 64QAM or 256QAM since the highest maximum output power for 64QAM and 256QAM 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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This device supports 5G NR for Bands n260, and n261. RF Exposure assessment and simultaneous transmission analysis for these bands can be found in the Near Field PD Report (report SN can be found in Section 1.11 – Bibliography).

NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.

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, LTE Band 41 Power Class 2/3)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax, Dynamic Antenna Tuning)

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.

1.11 Bibliography

Report Type	Report Serial Number
PD Exposure Part 0 Test Report	Revision A.
Near Field PD Report (Part 1)	1M2009140143-22-R2.A3L
RF Exposure Part 0 Test Report	1M2009140143-27-R2.A3L
RF Exposure Part 2 Test Report	1M2009140143-23-R1.A3L
RF Exposure Compliance Summary Report	1M2009140143-24-R1.A3L

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LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 71 (665.5 - 696.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 26 (Cell) (814.7 - 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)				
	LTE Band 30 (2307.5 - 2312.5 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 48 (3552.5 - 3697.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
	LTE Band 38 (2572.5 - 2617.5 MHz)				
Channel Bandwidths	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 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 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				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 30: 5 MHz, 10 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 38: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (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)	683 (133297)	698 (133422)		
LTE Band 71: 15 MHz	670.5 (133187)	685.5 (133297)	699.5 (133397)		
LTE Band 71: 20 MHz	673 (133222)	689.5 (133297)	698 (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 13: 5 MHz	779.5 (23205)	782 (23230)	784.5 (23255)		
LTE Band 13: 10 MHz	N/A	784 (23230)	N/A		
LTE Band 14: 5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)		
LTE Band 14: 10 MHz	N/A	793 (23330)	N/A		
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 26 (Cell): 1.4 MHz	814.7 (20697)	831.5 (20685)	848.3 (27033)		
LTE Band 26 (Cell): 3 MHz	815.5 (20705)	831.5 (20685)	847.5 (27025)		
LTE Band 26 (Cell): 5 MHz	816.5 (20715)	831.5 (20685)	846.5 (27015)		
LTE Band 26 (Cell): 10 MHz	819 (20740)	831.5 (20685)	844 (26990)		
LTE Band 26 (Cell): 15 MHz	821.5 (20765)	831.5 (20685)	841.5 (26965)		
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)	1745 (132322)	1779.3 (132665)		
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 30: 5 MHz	2307.5 (27485)	2310 (27710)	2312.5 (27735)		
LTE Band 30: 10 MHz	N/A	2310 (27710)	N/A		
LTE Band 7: 5 MHz	2502.5 (20775)	2535 (21100)	2567.5 (21425)		
LTE Band 7: 10 MHz	2505 (20800)	2535 (21100)	2565 (21400)		
LTE Band 7: 15 MHz	2507.5 (20825)	2535 (21100)	2562.5 (21375)		
LTE Band 7: 20 MHz	2510 (20850)	2535 (21100)	2560 (21350)		
LTE Band 48: 5 MHz	3552.5 (55295)	3600.8 (55748)	N/A	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3649.3 (56223)	3695 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)	3690 (56640)
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)
LTE Band 38: 5 MHz		2572.5 (37775)	2595 (38000)	2617.5 (38225)	
LTE Band 38: 10 MHz		2575 (37800)	2595 (38000)	2615 (38200)	
LTE Band 38: 15 MHz		2577.5 (37825)	2595 (38000)	2612.5 (38175)	
LTE Band 38: 20 MHz		2580 (37850)	2595 (38000)	2610 (38150)	
UE Category	DL UE Cat 20, UL UE Cat 19				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
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 16. It supports carrier aggregation, downlink MIMO, LAA features as shown in Section 9 and Appendix F. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information					
Form Factor	Portable Handset				
Frequency Range of each NR transmission band	NR Band n71 (665.5 - 695.5 MHz)				
	NR Band n12 (701.5 - 713.5 MHz)				
	NR Band n5 (Cell) (826.5 - 846.5 MHz)				
	NR Band n66 (AWS) (1712.5 - 1777.5 MHz)				
	NR Band n25 (PCS) (1852.5 - 1912.5 MHz)				
	NR Band n2 (PCS) (1852.5 - 1907.5 MHz)				
	NR Band n30 (2307.5 - 2312.5 MHz)				
	NR Band n41 (2506.02 - 2679.99 MHz)				
Channel Bandwidths	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n12: 5 MHz, 10 MHz, 15 MHz				
	NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz				
	NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz				
	NR Band n2 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n30: 5 MHz, 10 MHz				
	NR Band n41: 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 n12: 5 MHz	701.5 (140300)		707.5 (141500)		713.5 (142700)
NR Band n12: 10 MHz	704 (140800)		707.5 (141500)		711 (142200)
NR Band n12: 15 MHz	706.5 (141300)		707.5 (141500)		708.5 (141700)
NR Band n5 (Cell): 5 MHz	826.5 (165300)		836.5 (167300)		846.5 (169300)
NR Band n5 (Cell): 10 MHz	829 (165800)		836.5 (167300)		844 (168800)
NR Band n5 (Cell): 15 MHz	831.5 (166300)		836.5 (167300)		841.5 (168300)
NR Band n5 (Cell): 20 MHz	834 (166800)		836.5 (167300)		839 (167800)
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): 30 MHz	1725 (345000)		1745 (349000)		1765 (353000)
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 n2 (PCS): 5 MHz	1852.5 (370500)		1880 (376000)		1907.5 (381500)
NR Band n2 (PCS): 10 MHz	1855 (371000)		1880 (376000)		1905 (381000)
NR Band n2 (PCS): 15 MHz	1857.5 (371500)		1880 (376000)		1902.5 (380500)
NR Band n2 (PCS): 20 MHz	1860 (372000)		1880 (376000)		1900 (380000)
NR Band n30: 5 MHz	2307.5 (461500)		2310 (462000)		2312.5 (462500)
NR Band n30: 10 MHz	N/A		2310 (462000)		N/A
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/n12/n5/n66/n25/n2/n30	15 kHz				
SCS for NR Band n41	30 kHz				
Modulations Supported in UL	DFT-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM				
NR MPR Permanently implemented per 3GPP TS 38.101	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
EN-DC and NR SA 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 n12	LTE Band 2/66				
LTE Anchor Bands for NR Band n5 (Cell)	LTE Band 2/30/48/66				
LTE Anchor Bands for NR Band n66 (AWS)	LTE Band 2/5/12/13/14/30/48				
LTE Anchor Bands for NR Band n25 (PCS)	LTE Band 12/66				
LTE Anchor Bands for NR Band n2 (PCS)	LTE Band 5/12/13/14/30/48/66				
LTE Anchor Bands for NR Band n30	N/A				
LTE Anchor Bands for NR Band n41	LTE Band 2/12/25/41/66				

NR Information					
Form Factor	Portable Handset				
Frequency Range of each NR transmission band	NR Band n77 (3700 - 3980 MHz)				
Channel Bandwidths	NR Band n77: 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz				
Channel Numbers and Frequencies (MHz)					
NR Band n77: 20 MHz	3710.01 (647334)	3762 (650800)	3813.99 (654266)	3866.01 (657734)	3918 (661200)
NR Band n77: 30 MHz	3715.02 (647668)	3765 (651000)	3815.01 (654334)	3864.99 (657666)	3915 (661000)
NR Band n77: 40 MHz	3720 (648000)	3768 (651200)	3816 (654400)	3864 (657600)	3912 (660800)
NR Band n77: 50 MHz	3725.01 (648334)	3782.49 (652166)	3840 (656000)		3897.51 (658834)
NR Band n77: 60 MHz	3730.02 (648668)	3803.34 (653556)	N/A	N/A	3876.66 (658444)
NR Band n77: 70 MHz	3735 (649000)	3804.99 (653666)	N/A	N/A	3875.01 (658334)
NR Band n77: 80 MHz	3740.01 (649334)	N/A	3840 (656000)	N/A	3939.99 (662666)
NR Band n77: 90 MHz	3745.02 (649668)	N/A	3840 (656000)	N/A	3934.98 (662332)
NR Band n77: 100 MHz	3750 (650000)	N/A	N/A	N/A	3930 (662000)
SCS for NR Band n77	30 kHz				
Modulations Supported in UL	DFT-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM				
NR MPR Permanently implemented per 3GPP T 38.101	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
EN-DC and NR SA Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Anchor Bands for NR Band n77	LTE Band 2/5/12/13/14/30/66				

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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.

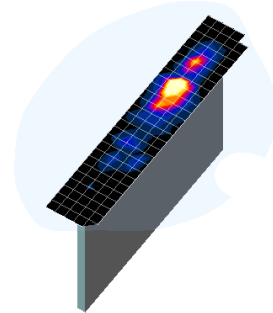


Figure 4-1
Sample SAR Area Scan

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) ($\Delta x_{\text{zoomTV}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤ 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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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.

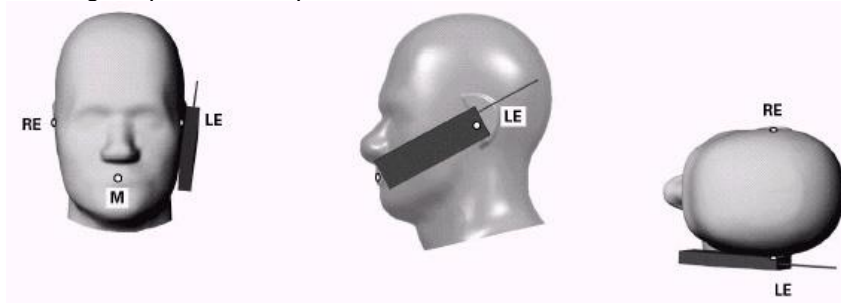


Figure 6-1 Front, Side and Top View of Cheek Position

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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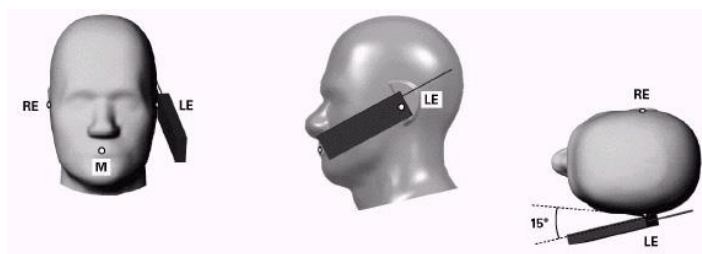


Figure 6-2 Front, Side and Top View of Ear/15° Tilt Position

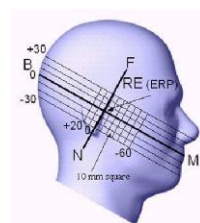


Figure 6-3 Side view w/ relevant markings

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.

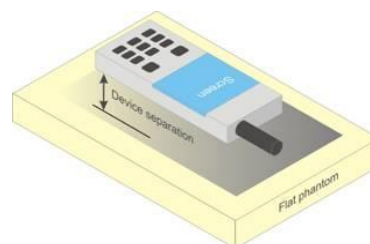


Figure 6-4 Sample Body-Worn Diagram

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

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

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

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

6.6 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 ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) 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

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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. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna ≤ 25 mm from that surface or edge, in direct contact with the phantom, for 10g SAR. The UMPC mini-tablet 1g SAR at 5 mm is not required. When hotspot mode applies, 10g SAR is required only for the surfaces and edges with hotspot mode 1g SAR > 1.2 W/kg.

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.

8.4.6 CDMA2000 1x Advanced

This device additionally supports 1x Advanced. Conducted powers are measured using SO75 with RC8 on the uplink and RC11 on the downlink per FCC KDB Publication 941225 D01v03r01. Smart blanking is disabled for all measurements. The EUT is configured with forward power control Mode 000 and reverse power control at 400 bps. Conducted powers are measured on an Agilent 8960 Series 10 Wireless Communications Test Set, Model E5515C using the CDMA2000 1x Advanced application, Option E1962B-410.

The 3G SAR test reduction procedure is applied to the 1x-Advanced transmission mode with 1x RTT RC3 as the primary mode. When SAR measurement is required, the 1x-Advanced power measurement configurations are used. The 1x Advanced SAR procedures are applied separately to head, body-worn accessory and other exposure conditions.

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, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

8.5.2 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

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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.

8.5.5 SAR Measurements with Rel 6 HSUPA

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.

8.5.6 SAR Measurement Conditions for DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

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.

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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 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 $\frac{1}{2}$ 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

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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 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

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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/ax 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. Per April 2019 TCB Workshop guidance, 802.11ax was considered the highest order 802.11 mode. 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.

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.

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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

All conducted power measurements for 2G/3G/4G/5G Sub6 WWAN technologies and bands in this section were performed by setting *Reserve_power_margin* (Qualcomm® Smart Transmit EFS entry) to 0dB, so that the EUT transmits continuously at minimum (P_{limit} , maximum tune up output power P_{max}).

9.1 CDMA Conducted Powers

Table 9-1
Measured P_{max}

Band	Channel	Rule Part	Frequency	SO55 [dBm]	SO55 [dBm]	SO75 [dBm]	TDSO SO32 [dBm]	TDSO SO32 [dBm]	1x EvDO Rev. 0 [dBm]	1x EvDO Rev. A [dBm]
	F-RC		MHz	RC1	RC3	RC11	FCH+SCH	FCH	(RTAP)	(RETAP)
Cellular	564	90S	820.1	24.77	24.77	24.80	24.75	24.77	24.80	24.82
Cellular	1013	22H	824.7	24.43	24.45	24.57	24.44	24.45	24.46	24.45
	384	22H	836.52	24.55	24.55	24.51	24.56	24.57	24.55	24.58
	777	22H	848.31	24.43	24.48	24.49	24.50	24.52	24.53	24.53
PCS	25	24E	1851.25	23.45	23.47	23.51	23.47	23.47	23.49	23.50
	600	24E	1880	23.12	23.13	23.54	23.14	23.13	23.20	23.18
	1175	24E	1908.75	23.44	23.44	23.48	23.42	23.45	23.46	23.44

Table 9-2
Measured P_{limit} for DSI = 3 (Hotspot Mode)

Band	Channel	Rule Part	Frequency	TDSO SO32 [dBm]	TDSO SO32 [dBm]	1x EvDO Rev. 0 [dBm]	1x EvDO Rev. A [dBm]
	F-RC		MHz	FCH+SCH	FCH	(RTAP)	(RETAP)
PCS	25	24E	1851.25	18.44	18.42	18.45	18.44
	600	24E	1880	18.04	18.06	18.07	18.14
	1175	24E	1908.75	18.33	18.32	18.39	18.37

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Table 9-3
Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active)

Band	Channel	Rule Part	Frequency	SO55 [dBm]	SO55 [dBm]	SO75 [dBm]	TDSO SO32 [dBm]	TDSO SO32 [dBm]	1x EvDO Rev. 0 [dBm]	1x EvDO Rev. A [dBm]
	F-RC		MHz	RC1	RC3	RC11	FCH+SCH	FCH	(RTAP)	(RETAP)
PCS	25	24E	1851.25	20.17	20.15	20.24	20.12	20.13	20.11	20.13
	600	24E	1880	19.81	19.80	20.00	19.76	19.76	19.80	19.81
	1175	24E	1908.75	20.12	20.13	20.19	20.12	20.11	20.13	20.13

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.

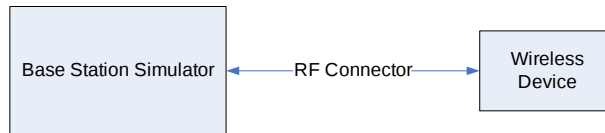


Figure 9-1
Power Measurement Setup

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9.2 GSM Conducted Powers

Table 9-4
Measured P_{max}

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	32.18	32.18	30.62	29.32	27.23	26.51	24.84	22.69	21.89
	190	32.36	32.35	31.02	29.30	27.19	26.75	25.05	23.01	22.05
	251	32.27	32.28	30.93	29.32	27.24	26.52	24.99	22.68	21.85
GSM 1900	512	29.47	29.45	28.14	26.35	24.63	25.62	24.16	22.02	20.97
	661	29.15	29.15	28.03	26.25	24.36	25.51	24.13	22.13	20.95
	810	29.64	29.61	28.38	26.06	24.88	25.57	24.32	22.34	21.21

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	22.98	22.98	24.43	24.89	24.05	17.31	18.65	18.26	18.71
	190	23.16	23.15	24.83	24.87	24.01	17.55	18.86	18.58	18.87
	251	23.07	23.08	24.74	24.89	24.06	17.32	18.80	18.25	18.67
GSM 1900	512	20.27	20.25	21.95	21.92	21.45	16.42	17.97	17.59	17.79
	661	19.95	19.95	21.84	21.82	21.18	16.31	17.94	17.70	17.77
	810	20.44	20.41	22.19	21.63	21.70	16.37	18.13	17.91	18.03

GSM 850	Frame Avg. Targets:	23.30	23.30	25.31	25.07	24.32	17.80	18.81	18.57	18.82
GSM 1900		20.30	20.30	22.31	22.07	21.32	16.80	17.81	17.57	17.82

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Table 9-5
Measured P_{limit} for DSI = 3 (Hotspot mode)

Maximum Burst-Averaged Output Power									
		GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	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 1900	512	27.38	24.37	22.77	21.19	25.62	24.16	22.02	20.97
	661	27.31	24.43	22.64	21.16	25.51	24.13	22.13	20.95
	810	27.75	24.49	22.89	21.27	25.57	24.32	22.34	21.21

Calculated Maximum Frame-Averaged Output Power									
		GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	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 1900	512	18.18	18.18	18.34	18.01	16.42	17.97	17.59	17.79
	661	18.11	18.24	18.21	17.98	16.31	17.94	17.70	17.77
	810	18.55	18.30	18.46	18.09	16.37	18.13	17.91	18.03

GSM 1900	Frame Ava. Targets:	18.10	18.11	18.07	18.12	16.80	17.81	17.57	17.82
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Table 9-6
Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active)

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 1900	512	28.94	28.93	26.00	24.13	22.82	25.62	24.16	22.02	20.97
	661	28.70	28.68	25.83	24.11	22.90	25.51	24.13	22.13	20.95
	810	29.05	29.06	26.01	24.20	23.02	25.57	24.32	22.34	21.21

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 1900	512	19.74	19.73	19.81	19.70	19.64	16.42	17.97	17.59	17.79
	661	19.50	19.48	19.64	19.68	19.72	16.31	17.94	17.70	17.77
	810	19.85	19.86	19.82	19.77	19.84	16.37	18.13	17.91	18.03

GSM 1900	Frame Avg.Targets:	20.10	20.10	20.11	20.07	20.12	16.80	17.81	17.57	17.82
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Note:

- Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged power was calculated from the measured burst-averaged power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- GPRS/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.
- 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.

GSM Class: B
GPRS Multislot class: 33 (Max 4 Tx uplink slots)
EDGE Multislot class: 33 (Max 4 Tx uplink slots)
DTM Multislot Class: N/A

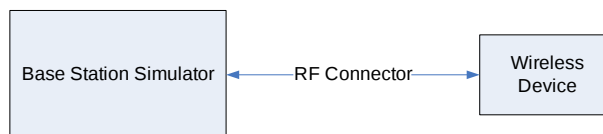


Figure 9-2
Power Measurement Setup

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9.3 UMTS Conducted Powers

Table 9-7
Measured P_{max}

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	24.60	24.64	24.97	23.43	23.53	23.34	23.30	22.92	23.19	-
99		12.2 kbps AMR	24.71	24.80	24.70	23.54	23.62	23.46	23.46	23.12	23.22	-
6	HSDPA	Subtest 1	23.82	23.89	23.81	22.73	22.59	22.71	22.80	22.40	22.67	0
6		Subtest 2	23.85	23.75	23.80	22.72	22.86	22.66	22.87	22.40	22.72	0
6		Subtest 3	23.33	23.38	23.32	22.25	22.36	22.11	22.36	21.90	22.16	0.5
6		Subtest 4	23.31	23.42	23.25	22.23	22.05	22.17	22.26	21.72	22.09	0.5
6	HSUPA	Subtest 1	23.74	23.75	23.72	22.60	22.68	22.49	22.59	22.18	22.47	0
6		Subtest 2	21.71	21.74	21.69	20.55	20.65	20.46	20.55	20.18	20.44	2
6		Subtest 3	22.73	22.77	22.70	21.58	21.64	21.50	21.60	21.17	21.47	1
6		Subtest 4	21.14	21.17	21.10	20.62	20.67	20.45	20.53	20.18	20.46	2
6		Subtest 5	23.74	23.79	23.71	22.62	22.69	22.53	22.51	22.11	22.40	0
8	DC-HSDPA	Subtest 1	23.86	23.88	23.80	22.71	22.83	22.66	22.82	22.41	22.51	0
8		Subtest 2	23.83	23.85	23.83	22.75	22.82	22.67	22.80	22.40	22.74	0
8		Subtest 3	23.41	23.38	23.31	22.31	22.39	22.26	22.34	21.95	21.92	0.5
8		Subtest 4	23.34	23.43	23.32	22.20	22.38	22.19	22.19	21.95	22.21	0.5

Table 9-8
Measured P_{limit} for DSI = 3 (Hotspot mode)

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	18.01	18.15	18.07	17.99	17.62	17.87	-
99		12.2 kbps AMR	18.00	18.14	18.05	18.00	17.61	17.85	-
6	HSDPA	Subtest 1	17.16	17.19	17.15	16.93	16.54	16.84	0
6		Subtest 2	17.11	17.18	17.14	16.88	16.55	16.79	0
6		Subtest 3	16.67	16.63	16.60	16.40	15.99	16.29	0.5
6		Subtest 4	16.56	16.73	16.59	16.43	15.98	16.30	0.5
6	HSUPA	Subtest 1	17.16	17.24	17.08	16.80	16.40	16.65	0
6		Subtest 2	14.83	14.92	14.78	14.97	14.55	14.85	2
6		Subtest 3	15.83	15.92	15.77	15.94	15.50	15.81	1
6		Subtest 4	14.81	14.94	14.77	14.89	14.52	14.82	2
6		Subtest 5	16.85	16.91	16.76	16.92	16.52	16.83	0
8	DC-HSDPA	Subtest 1	16.86	16.84	16.84	16.92	16.54	16.81	0
8		Subtest 2	16.89	17.00	16.75	16.86	16.46	16.77	0
8		Subtest 3	16.50	16.18	16.33	16.37	15.98	16.24	0.5
8		Subtest 4	16.32	16.53	16.32	16.39	15.97	16.27	0.5

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Table 9-9
Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active)

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	20.70	20.75	20.53	20.61	20.23	20.46	-
99		12.2 kbps AMR	20.65	20.72	20.53	20.60	20.20	20.45	-
6	HSDPA	Subtest 1	19.64	19.71	19.58	19.66	19.10	19.36	0
6		Subtest 2	19.62	19.54	19.57	19.82	19.29	19.53	0
6		Subtest 3	19.10	19.04	19.00	19.22	18.80	19.20	0.5
6		Subtest 4	19.04	19.18	19.01	19.20	18.82	19.11	0.5
6	HSUPA	Subtest 1	19.68	19.74	19.56	19.73	19.30	19.59	0
6		Subtest 2	17.67	17.76	17.54	17.59	17.16	17.43	2
6		Subtest 3	18.53	18.63	18.44	18.58	18.14	18.48	1
6		Subtest 4	17.64	17.72	17.60	17.53	17.20	17.34	2
6		Subtest 5	19.53	19.60	19.44	19.59	19.13	19.44	0
8	DC-HSDPA	Subtest 1	19.52	19.60	19.44	19.54	19.15	19.46	0
8		Subtest 2	19.58	19.71	19.49	19.59	19.17	19.50	0
8		Subtest 3	19.01	18.99	19.04	19.15	18.70	18.99	0.5
8		Subtest 4	18.97	18.96	19.03	19.09	18.67	19.00	0.5

DC-HSDPA considerations

- 3GPP Specification 34.121-1 Release 8 Ver 8.10.0 was used for DC-HSDPA guidance
- H-Set 12 (QPSK) was confirmed to be used during DC-HSDPA measurements
- The DUT supports UE category 24 for HSDPA

It is expected by the manufacturer that MPR for some HSPA subtests may be up to 1 dB more than specified by 3GPP, but also as low as 0 dB according to the chipset implementation in this model.

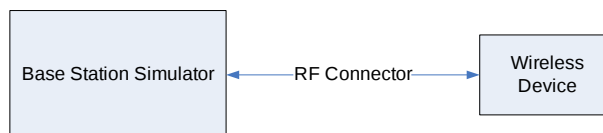


Figure 9-3
Power Measurement Setup

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9.4 LTE Conducted Powers

9.4.1

LTE Band 71

Table 9-10
LTE Band 71 Measured $P_{\max}$ for all DSI - 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	25.02	0	0
	1	50	24.97		0
	1	99	24.96		0
	50	0	24.12	0-1	1
	50	25	24.23		1
	50	50	24.09		1
	100	0	24.15		1
16QAM	1	0	24.03	0-1	1
	1	50	24.08		1
	1	99	24.03		1
	50	0	23.16	0-2	2
	50	25	23.29		2
	50	50	23.15		2
	100	0	23.18		2
64QAM	1	0	23.80	0-2	2
	1	50	23.79		2
	1	99	23.44		2
	50	0	22.09	0-3	3
	50	25	22.31		3
	50	50	22.13		3
	100	0	22.16		3
256QAM	1	0	19.95	0-5	5
	1	50	20.20		5
	1	99	19.81		5
	50	0	20.02		5
	50	25	20.16		5
	50	50	19.99		5
	100	0	20.10		5

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 9-11
LTE Band 71 Measured P_{max} for all DSI - 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	24.95	0	0
	1	36	24.97		0
	1	74	25.10		0
	36	0	24.20	0-1	1
	36	18	24.10		1
	36	37	23.92		1
	75	0	23.94		1
16QAM	1	0	24.15	0-1	1
	1	36	24.13		1
	1	74	24.01		1
	36	0	22.99	0-2	2
	36	18	23.05		2
	36	37	22.92		2
	75	0	22.93		2
64QAM	1	0	23.31	0-2	2
	1	36	23.70		2
	1	74	23.37		2
	36	0	21.98	0-3	3
	36	18	22.05		3
	36	37	22.00		3
	75	0	22.12		3
256QAM	1	0	20.01	0-5	5
	1	36	20.12		5
	1	74	20.10		5
	36	0	19.98		5
	36	18	19.96		5
	36	37	20.02		5
	75	0	20.04		5

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 9-12
LTE Band 71 Measured P_{max} for all DSI - 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	25.07	24.99	24.99	0	0
	1	25	24.96	24.95	25.01		0
	1	49	24.92	24.80	24.89		0
	25	0	24.04	24.03	24.10	0-1	1
	25	12	24.10	24.02	23.98		1
	25	25	24.04	23.89	24.03		1
	50	0	24.07	23.92	23.96		1
16QAM	1	0	23.92	24.13	24.21	0-1	1
	1	25	24.10	24.09	24.01		1
	1	49	23.89	23.98	23.99		1
	25	0	23.15	23.17	22.84	0-2	2
	25	12	23.24	23.08	22.85		2
	25	25	23.14	23.01	23.21		2
	50	0	23.10	22.92	22.97		2
64QAM	1	0	22.97	22.86	22.93	0-2	2
	1	25	23.22	23.33	23.01		2
	1	49	23.12	23.10	23.15		2
	25	0	22.17	21.93	21.89	0-3	3
	25	12	22.22	22.05	21.84		3
	25	25	22.16	21.98	21.96		3
	50	0	22.12	21.98	21.89		3
256QAM	1	0	20.01	20.01	19.89	0-5	5
	1	25	20.01	20.02	19.98		5
	1	49	20.01	20.03	19.88		5
	25	0	20.01	20.07	20.12		5
	25	12	20.01	20.04	19.98		5
	25	25	20.00	20.05	19.87		5
	50	0	19.98	20.06	19.99		5

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Table 9-13
LTE Band 71 Measured P_{max} for all DSI - 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	25.02	24.92	24.98	0	0
	1	12	25.04	25.10	24.89		0
	1	24	25.03	24.96	24.96		0
	12	0	24.12	24.22	24.14	0-1	1
	12	6	24.18	24.04	23.96		1
	12	13	24.12	23.98	23.89		1
	25	0	24.11	23.98	23.95		1
16QAM	1	0	24.12	24.30	24.28	0-1	1
	1	12	24.26	24.23	23.99		1
	1	24	24.14	24.27	24.25		1
	12	0	23.20	23.08	23.00	0-2	2
	12	6	23.26	23.18	23.29		2
	12	13	23.21	23.12	23.17		2
	25	0	23.09	23.11	23.10		2
64QAM	1	0	23.12	23.14	23.19	0-2	2
	1	12	23.30	23.29	23.06		2
	1	24	23.21	23.14	23.11		2
	12	0	22.23	21.95	21.86	0-3	3
	12	6	22.22	22.05	21.96		3
	12	13	22.17	21.90	22.02		3
	25	0	22.17	21.99	21.96		3
256QAM	1	0	20.00	20.00	19.93	0-5	5
	1	12	19.95	20.03	19.90		5
	1	24	19.98	20.00	19.88		5
	12	0	19.96	19.99	19.90		5
	12	6	20.00	20.00	19.94		5
	12	13	19.96	20.00	19.93		5
	25	0	19.98	19.99	19.94		5

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LTE Band 12

Table 9-14
LTE Band 12 Measured $P_{\max}$ for all DSI - 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	25.11	0	0
	1	25	25.16		0
	1	49	25.10		0
	25	0	24.18	0-1	1
	25	12	24.31		1
	25	25	24.21		1
	50	0	24.12		1
16QAM	1	0	24.53	0-1	1
	1	25	24.50		1
	1	49	24.37		1
	25	0	23.16	0-2	2
	25	12	23.29		2
	25	25	23.15		2
	50	0	23.16		2
64QAM	1	0	23.37	0-2	2
	1	25	23.31		2
	1	49	23.29		2
	25	0	22.18	0-3	3
	25	12	22.29		3
	25	25	22.14		3
	50	0	22.17		3
256QAM	1	0	19.90	0-5	5
	1	25	20.22		5
	1	49	19.88		5
	25	0	20.12		5
	25	12	20.32		5
	25	25	20.19		5
	50	0	20.17		5

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 9-15
LTE Band 12 Measured P_{max} for all DSI - 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	25.02	25.00	24.97	0	0
	1	12	25.02	25.07	25.00		0
	1	24	24.99	25.03	24.98		0
	12	0	24.15	24.05	23.99	0-1	1
	12	6	24.17	24.13	24.07		1
	12	13	24.10	24.09	24.08		1
	25	0	24.13	24.14	24.01		1
16QAM	1	0	24.22	24.55	24.09	0-1	1
	1	12	24.18	24.45	24.13		1
	1	24	24.27	24.56	24.29		1
	12	0	23.17	23.10	23.22	0-2	2
	12	6	23.15	23.19	23.10		2
	12	13	23.11	23.12	23.00		2
	25	0	23.06	23.14	23.08		2
64QAM	1	0	23.45	23.17	23.03	0-2	2
	1	12	23.41	23.33	23.05		2
	1	24	23.31	23.13	23.04		2
	12	0	22.19	22.10	22.01	0-3	3
	12	6	22.12	22.08	22.15		3
	12	13	22.09	22.00	22.08		3
	25	0	22.07	22.10	22.03		3
256QAM	1	0	20.16	20.26	20.22	0-5	5
	1	12	20.18	20.26	20.12		5
	1	24	20.16	20.28	20.13		5
	12	0	20.26	20.27	20.09		5
	12	6	20.25	20.26	20.25		5
	12	13	20.14	20.26	20.15		5
	25	0	20.22	20.26	20.16		5

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Table 9-16
LTE Band 12 Measured P_{max} for all DSI - 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	25.00	24.97	25.06	0	0
	1	7	24.92	24.95	24.98		0
	1	14	24.90	25.12	25.11		0
	8	0	24.07	24.01	24.23	0-1	1
	8	4	24.04	24.09	24.14		1
	8	7	24.03	24.12	24.21		1
	15	0	24.01	24.05	24.17		1
16QAM	1	0	24.48	24.08	24.26	0-1	1
	1	7	24.39	24.10	24.36		1
	1	14	24.41	24.16	24.15		1
	8	0	23.18	23.10	22.89	0-2	2
	8	4	23.13	23.06	22.83		2
	8	7	23.14	23.03	23.09		2
	15	0	23.05	23.09	23.14		2
64QAM	1	0	23.14	23.21	23.22	0-2	2
	1	7	23.10	23.23	22.99		2
	1	14	23.12	23.20	23.28		2
	8	0	22.13	22.03	22.26	0-3	3
	8	4	22.15	22.11	22.12		3
	8	7	22.03	22.05	22.05		3
	15	0	22.13	22.08	22.14		3
256QAM	1	0	20.32	20.45	20.13	0-5	5
	1	7	20.29	20.43	20.05		5
	1	14	20.32	20.46	20.09		5
	8	0	20.27	20.46	20.06		5
	8	4	20.22	20.33	20.12		5
	8	7	20.23	20.35	20.10		5
	15	0	20.26	20.30	20.23		5

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Table 9-17
LTE Band 12 Measured P_{max} for all DSI - 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	25.12	24.82	25.02	0	0
	1	2	24.99	24.85	25.22		0
	1	5	24.91	24.88	25.11		0
	3	0	24.94	24.92	25.14		0
	3	2	25.00	25.03	25.23		0
	3	3	24.93	24.94	25.13		0
	6	0	24.15	23.89	23.89		0-1
16QAM	1	0	24.12	24.21	24.35	0-1	1
	1	2	24.35	24.22	24.23		1
	1	5	24.36	24.40	24.14		1
	3	0	24.31	24.24	24.20		1
	3	2	24.25	24.00	24.19		1
	3	3	24.31	24.10	24.19		1
	6	0	23.78	23.55	23.44		0-2
64QAM	1	0	23.45	23.15	23.13	0-2	2
	1	2	23.44	23.08	23.29		2
	1	5	23.19	23.06	23.23		2
	3	0	23.22	23.09	23.07		2
	3	2	23.06	23.10	23.24		2
	3	3	23.15	23.20	23.27		2
	6	0	21.98	21.76	21.77		0-3
256QAM	1	0	20.23	20.24	20.22	0-5	5
	1	2	20.13	20.22	20.14		5
	1	5	20.15	20.19	20.30		5
	3	0	20.14	20.15	20.28		5
	3	2	20.15	20.25	20.12		5
	3	3	20.17	20.14	20.31		5
	6	0	20.27	20.17	20.23		5

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LTE Band 13

Table 9-18
LTE Band 13 Measured $P_{\max}$ for all DSI - 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	25.05	0	0
	1	25	25.13		0
	1	49	25.16		0
	25	0	24.08	0-1	1
	25	12	24.22		1
	25	25	24.18		1
	50	0	24.08		1
16QAM	1	0	24.42	0-1	1
	1	25	24.53		1
	1	49	24.58		1
	25	0	23.15	0-2	2
	25	12	23.21		2
	25	25	23.19		2
	50	0	23.09		2
64QAM	1	0	23.00	0-2	2
	1	25	23.42		2
	1	49	23.39		2
	25	0	22.14	0-3	3
	25	12	22.27		3
	25	25	22.28		3
	50	0	22.07		3
256QAM	1	0	19.80	0-5	5
	1	25	20.30		5
	1	49	20.01		5
	25	0	20.04		5
	25	12	20.19		5
	25	25	20.22		5
	50	0	20.13		5

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Table 9-19
LTE Band 13 Measured $P_{\max}$ for all DSI - 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	25.02	0	0
	1	12	25.14		0
	1	24	25.16		0
	12	0	24.23	0-1	1
	12	6	24.31		1
	12	13	24.34		1
	25	0	24.27		1
16QAM	1	0	24.24	0-1	1
	1	12	24.27		1
	1	24	24.41		1
	12	0	23.10	0-2	2
	12	6	23.30		2
	12	13	23.18		2
	25	0	23.12		2
64QAM	1	0	23.19	0-2	2
	1	12	23.27		2
	1	24	23.30		2
	12	0	22.06	0-3	3
	12	6	22.16		3
	12	13	22.17		3
	25	0	22.07		3
256QAM	1	0	19.91	0-5	5
	1	12	20.12		5
	1	24	20.02		5
	12	0	19.89		5
	12	6	19.95		5
	12	13	20.27		5
	25	0	20.14		5

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 14

Table 9-20
LTE Band 14 Measured $P_{\max}$ for all DSI - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	25.14	0	0
	1	25	25.09		0
	1	49	25.17		0
	25	0	24.09	0-1	1
	25	12	24.15		1
	25	25	24.08		1
	50	0	24.04		1
16QAM	1	0	24.44	0-1	1
	1	25	24.38		1
	1	49	24.38		1
	25	0	23.11	0-2	2
	25	12	23.16		2
	25	25	23.12		2
	50	0	23.08		2
64QAM	1	0	23.41	0-2	2
	1	25	23.38		2
	1	49	23.39		2
	25	0	22.13	0-3	3
	25	12	22.20		3
	25	25	22.11		3
	50	0	22.13		3
256QAM	1	0	19.82	0-5	5
	1	25	20.34		5
	1	49	20.02		5
	25	0	20.11		5
	25	12	20.14		5
	25	25	20.13		5
	50	0	20.08		5

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Table 9-21
LTE Band 14 Measured P_{max} for all DSI - 5 MHz Bandwidth

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.76	0	0
	1	12	24.86		0
	1	24	24.78		0
	12	0	24.04	0-1	1
	12	6	24.02		1
	12	13	23.98		1
	25	0	24.00		1
16QAM	1	0	24.04	0-1	1
	1	12	24.09		1
	1	24	24.03		1
	12	0	23.09	0-2	2
	12	6	23.14		2
	12	13	23.03		2
	25	0	22.99		2
64QAM	1	0	23.10	0-2	2
	1	12	23.28		2
	1	24	23.13		2
	12	0	22.04	0-3	3
	12	6	22.05		3
	12	13	22.06		3
	25	0	22.02		3
256QAM	1	0	19.92	0-5	5
	1	12	20.30		5
	1	24	20.12		5
	12	0	20.12		5
	12	6	20.15		5
	12	13	20.15		5
	25	0	20.19		5

Note: LTE Band 14 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 (Cell)

Table 9-22
LTE Band 26 (Cell) Measured $P_{\max}$ for all DSI - 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	24.92	0	0
	1	36	24.98		0
	1	74	24.90		0
	36	0	23.91	0-1	1
	36	18	23.96		1
	36	37	23.94		1
	75	0	23.93		1
16QAM	1	0	24.13	0-1	1
	1	36	24.11		1
	1	74	24.06		1
	36	0	22.96	0-2	2
	36	18	22.92		2
	36	37	22.98		2
	75	0	22.94		2
64QAM	1	0	23.09	0-2	2
	1	36	23.17		2
	1	74	23.05		2
	36	0	21.95	0-3	3
	36	18	22.01		3
	36	37	21.99		3
	75	0	21.93		3
256QAM	1	0	19.77	0-5	5
	1	36	20.12		5
	1	74	19.92		5
	36	0	19.93		5
	36	18	20.06		5
	36	37	20.07		5
	75	0	19.91		5

Note: LTE Band 26 (Cell) 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 9-23
LTE Band 26 (Cell) Measured P_{max} for all DSI - 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	24.85	24.84	24.96	0	0
	1	25	24.74	24.94	24.91		0
	1	49	24.79	24.95	24.91		0
	25	0	23.78	23.91	23.92	0-1	1
	25	12	23.99	23.98	24.11		1
	25	25	23.88	23.98	24.00		1
	50	0	23.91	23.88	24.02		1
16QAM	1	0	24.10	24.35	24.09	0-1	1
	1	25	24.11	24.33	24.16		1
	1	49	24.13	24.40	24.28		1
	25	0	22.91	22.98	23.03	0-2	2
	25	12	23.08	23.08	23.15		2
	25	25	22.99	23.07	23.09		2
	50	0	22.94	22.94	23.00		2
64QAM	1	0	22.99	22.82	23.27	0-2	2
	1	25	23.02	22.89	23.16		2
	1	49	23.09	22.88	23.01		2
	25	0	21.89	21.97	21.99	0-3	3
	25	12	22.08	22.11	22.03		3
	25	25	21.98	22.11	21.96		3
	50	0	21.92	21.90	21.97		3
256QAM	1	0	19.89	19.94	19.88	0-5	5
	1	25	19.91	19.93	19.91		5
	1	49	19.82	19.94	19.95		5
	25	0	19.88	19.90	20.03		5
	25	12	20.02	19.92	20.02		5
	25	25	20.12	19.93	20.02		5
	50	0	19.82	19.91	20.00		5

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Table 9-24
LTE Band 26 (Cell) Measured P_{max} for all DSI - 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	24.89	25.01	24.97	0	0
	1	12	24.88	25.09	25.02		0
	1	24	24.84	25.11	25.03		0
	12	0	23.94	23.98	24.00	0-1	1
	12	6	24.01	24.00	24.10		1
	12	13	23.95	24.04	24.03		1
	25	0	23.91	23.98	23.99		1
16QAM	1	0	23.84	24.08	24.03	0-1	1
	1	12	24.22	24.19	24.14		1
	1	24	24.13	24.16	24.22		1
	12	0	23.02	23.07	23.05	0-2	2
	12	6	23.08	23.07	23.13		2
	12	13	23.03	23.13	23.10		2
	25	0	22.92	23.01	23.01		2
64QAM	1	0	23.25	23.16	23.48	0-2	2
	1	12	23.41	23.20	23.40		2
	1	24	23.38	23.25	23.37		2
	12	0	22.01	22.00	22.06	0-3	3
	12	6	22.07	22.06	22.01		3
	12	13	22.01	22.09	22.12		3
	25	0	21.96	21.99	21.98		3
256QAM	1	0	19.97	19.99	20.00	0-5	5
	1	12	19.93	20.00	19.99		5
	1	24	19.89	20.00	19.97		5
	12	0	19.92	19.99	19.96		5
	12	6	19.91	19.97	20.01		5
	12	13	19.92	19.98	20.00		5
	25	0	19.93	19.97	20.03		5

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Table 9-25
LTE Band 26 (Cell) Measured P_{max} for all DSI - 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	24.91	24.83	24.90	0	0
	1	7	24.89	24.86	24.94		0
	1	14	24.98	24.89	24.89		0
	8	0	23.90	24.00	23.98	0-1	1
	8	4	23.91	24.04	24.07		1
	8	7	23.90	24.05	24.04		1
	15	0	23.91	23.95	23.96		1
16QAM	1	0	23.97	23.96	23.81	0-1	1
	1	7	23.88	24.14	23.80		1
	1	14	24.07	24.13	23.99		1
	8	0	22.92	22.99	22.96	0-2	2
	8	4	22.93	23.12	23.06		2
	8	7	22.89	23.05	23.00		2
	15	0	22.89	23.02	22.94		2
64QAM	1	0	22.93	23.16	23.23	0-2	2
	1	7	23.06	23.21	23.22		2
	1	14	23.03	23.25	23.09		2
	8	0	21.83	22.03	22.04	0-3	3
	8	4	22.05	22.13	22.12		3
	8	7	22.02	22.08	22.12		3
	15	0	21.98	22.02	22.05		3
256QAM	1	0	20.00	20.14	20.18	0-5	5
	1	7	19.97	20.16	19.96		5
	1	14	19.96	20.01	20.02		5
	8	0	20.10	20.12	20.06		5
	8	4	20.11	20.10	20.12		5
	8	7	19.96	19.98	20.11		5
	15	0	19.95	19.93	20.13		5

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Table 9-26
LTE Band 26 (Cell) Measured P_{max} for all DSI - 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	24.98	24.93	24.89	0	0
	1	2	24.93	25.05	24.84		0
	1	5	24.97	25.02	24.91		0
	3	0	24.88	24.82	24.88		0
	3	2	24.85	24.95	24.90		0
	3	3	24.96	24.86	24.84		0
	6	0	23.80	23.89	23.98	0-1	1
16QAM	1	0	24.31	23.94	23.95	0-1	1
	1	2	24.32	23.84	23.86		1
	1	5	24.23	23.92	23.93		1
	3	0	24.14	24.07	24.05		1
	3	2	24.19	24.22	24.14		1
	3	3	24.11	24.16	24.10		1
	6	0	22.76	23.08	23.14	0-2	2
64QAM	1	0	23.01	23.18	23.08	0-2	2
	1	2	23.02	23.25	23.09		2
	1	5	22.89	23.13	23.08		2
	3	0	22.88	23.23	23.03		2
	3	2	22.94	23.34	23.12		2
	3	3	22.95	23.26	23.03		2
	6	0	21.99	21.91	22.10	0-3	3
256QAM	1	0	20.00	20.00	20.09	0-5	5
	1	2	19.96	19.97	20.06		5
	1	5	19.94	20.04	20.10		5
	3	0	19.93	20.03	20.08		5
	3	2	19.91	20.02	20.05		5
	3	3	19.94	19.99	20.07		5
	6	0	19.95	20.02	20.04		5

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LTE Band 5 (Cell)

Table 9-27
LTE Band 5 (Cell) Measured $P_{\max}$ for all DSI - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.89	0	0
	1	25	24.91		0
	1	49	24.86		0
	25	0	23.94	0-1	1
	25	12	23.92		1
	25	25	23.97		1
	50	0	23.87		1
16QAM	1	0	24.18	0-1	1
	1	25	24.15		1
	1	49	24.13		1
	25	0	22.96	0-2	2
	25	12	22.98		2
	25	25	22.98		2
	50	0	22.89		2
64QAM	1	0	23.02	0-2	2
	1	25	23.12		2
	1	49	23.17		2
	25	0	22.02	0-3	3
	25	12	22.03		3
	25	25	22.01		3
	50	0	21.91		3
256QAM	1	0	19.69	0-5	5
	1	25	20.05		5
	1	49	19.75		5
	25	0	19.93		5
	25	12	20.05		5
	25	25	19.96		5
	50	0	19.91		5

Note: LTE Band 5 (Cell) 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 9-28
LTE Band 5 (Cell) Measured P_{max} for all DSI - 5 MHz Bandwidth

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20425 (826.5 MHz)	20525 (836.5 MHz)	20625 (846.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.86	25.01	24.80	0	0
	1	12	24.94	25.11	24.84		0
	1	24	24.94	25.05	24.80		0
	12	0	23.96	24.07	23.97	0-1	1
	12	6	24.07	24.17	23.99		1
	12	13	24.00	24.12	24.03		1
	25	0	23.98	24.13	24.01		1
16QAM	1	0	24.01	24.25	24.01	0-1	1
	1	12	24.22	24.31	24.19		1
	1	24	24.07	24.32	24.05		1
	12	0	23.05	23.19	23.05	0-2	2
	12	6	23.11	23.25	23.08		2
	12	13	23.06	23.21	23.08		2
	25	0	23.00	23.28	23.01		2
64QAM	1	0	23.23	23.24	23.09	0-2	2
	1	12	23.42	23.35	23.21		2
	1	24	23.19	23.25	23.01		2
	12	0	22.04	22.05	22.05	0-3	3
	12	6	22.13	22.19	22.05		3
	12	13	22.06	22.15	22.09		3
	25	0	22.04	22.18	21.96		3
256QAM	1	0	20.11	20.11	20.01	0-5	5
	1	12	20.08	20.15	19.97		5
	1	24	20.11	20.14	20.02		5
	12	0	20.12	20.12	20.00		5
	12	6	20.04	20.15	19.99		5
	12	13	20.10	20.15	20.01		5
	25	0	20.04	20.13	20.05		5

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Table 9-29
LTE Band 5 (Cell) Measured P_{max} for all DSI - 3 MHz Bandwidth

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20415 (825.5 MHz)	20525 (836.5 MHz)	20635 (847.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.96	24.96	24.86	0	0
	1	7	24.91	24.99	24.90		0
	1	14	24.86	25.05	24.88		0
	8	0	24.01	24.05	24.10	0-1	1
	8	4	24.03	24.11	24.06		1
	8	7	24.00	24.08	24.00		1
	15	0	23.97	24.10	23.98		1
16QAM	1	0	24.01	24.22	23.99	0-1	1
	1	7	23.98	24.30	24.12		1
	1	14	24.05	24.27	23.94		1
	8	0	22.96	23.19	22.96	0-2	2
	8	4	22.98	23.31	23.03		2
	8	7	22.94	23.26	22.98		2
	15	0	22.99	23.21	22.98		2
64QAM	1	0	23.12	22.90	23.18	0-2	2
	1	7	23.17	22.95	23.17		2
	1	14	23.07	22.96	23.08		2
	8	0	21.99	22.15	22.00	0-3	3
	8	4	22.07	22.27	22.17		3
	8	7	22.08	22.24	22.06		3
	15	0	22.02	22.23	22.02		3
256QAM	1	0	20.02	20.12	19.96	0-5	5
	1	7	20.00	20.11	19.97		5
	1	14	19.98	20.13	20.00		5
	8	0	19.98	20.10	20.01		5
	8	4	19.96	20.11	20.01		5
	8	7	19.97	20.10	19.98		5
	15	0	19.96	20.15	19.99		5

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Table 9-30
LTE Band 5 (Cell) Measured P_{max} for all DSI - 1.4 MHz Bandwidth

LTE Band 5 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20407 (824.7 MHz)	20525 (836.5 MHz)	20643 (848.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.80	25.06	24.97	0	0
	1	2	24.85	25.14	24.84		0
	1	5	24.89	25.06	25.10		0
	3	0	24.81	25.04	24.89		0
	3	2	24.90	25.03	24.94		0
	3	3	24.82	24.98	24.85		0
	6	0	23.90	24.05	23.94	0-1	1
16QAM	1	0	24.32	23.84	23.93	0-1	1
	1	2	24.49	23.94	23.87		1
	1	5	24.30	23.87	23.89		1
	3	0	24.22	24.23	24.05		1
	3	2	24.29	24.30	24.14		1
	3	3	24.21	24.25	24.09		1
	6	0	22.87	23.23	23.15	0-2	2
64QAM	1	0	23.08	23.26	23.08	0-2	2
	1	2	22.82	23.38	23.15		2
	1	5	22.71	23.24	23.13		2
	3	0	23.00	23.38	23.03		2
	3	2	23.16	23.40	23.11		2
	3	3	23.01	23.31	22.95		2
	6	0	22.26	22.08	22.05	0-3	3
256QAM	1	0	19.98	20.06	19.98	0-5	5
	1	2	19.93	20.04	19.98		5
	1	5	19.92	20.05	19.95		5
	3	0	19.92	20.06	19.94		5
	3	2	19.92	20.04	19.95		5
	3	3	19.92	20.04	20.00		5
	6	0	19.92	20.04	19.97		5

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LTE Band 66 (AWS)

Table 9-31

LTE Band 66 (AWS) Measured $P_{\max}$ for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	23.49	23.56	23.64	0	0
	1	50	23.76	23.60	23.58		0
	1	99	23.50	23.40	23.51		0
	50	0	22.78	22.75	22.63	0-1	1
	50	25	22.83	22.72	22.82		1
	50	50	22.70	22.73	22.68		1
	100	0	22.75	22.74	22.59	1	
16QAM	1	0	22.61	22.34	22.61	0-1	1
	1	50	22.61	22.40	22.68		1
	1	99	22.63	22.39	22.64		1
	50	0	21.84	21.78	21.66	0-2	2
	50	25	21.92	21.81	21.77		2
	50	50	21.81	21.63	21.67		2
	100	0	21.78	21.73	21.59	2	
64QAM	1	0	21.68	22.00	21.67	0-2	2
	1	50	21.68	22.10	21.96		2
	1	99	21.92	21.81	21.86		2
	50	0	20.86	20.77	20.73	0-3	3
	50	25	20.90	20.83	20.77		3
	50	50	20.74	20.59	20.67		3
	100	0	20.83	20.72	20.62	3	
256QAM	1	0	18.62	18.56	18.37	0-5	5
	1	50	18.83	18.65	18.66		5
	1	99	18.84	18.41	18.68		5
	50	0	18.83	18.65	18.62		5
	50	25	18.87	18.74	18.75		5
	50	50	18.74	18.64	18.64		5
	100	0	18.76	18.69	18.63		5

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Table 9-32
LTE Band 66 (AWS) Measured $P_{\max}$ for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	23.67	23.70	23.61	0	0
	1	36	23.83	23.55	23.70		0
	1	74	23.56	23.65	23.61		0
	36	0	22.78	22.57	22.81	0-1	1
	36	18	22.85	22.69	22.84		1
	36	37	22.73	22.59	22.83		1
	75	0	22.74	22.62	22.76		1
16QAM	1	0	22.75	22.81	22.77	0-1	1
	1	36	22.87	22.96	22.82		1
	1	74	22.59	22.82	22.70		1
	36	0	21.81	21.63	21.82	0-2	2
	36	18	21.80	21.73	21.85		2
	36	37	21.71	21.64	21.83		2
	75	0	21.75	21.78	21.78		2
64QAM	1	0	22.12	21.98	21.99	0-2	2
	1	36	22.04	21.50	22.03		2
	1	74	22.14	21.95	21.91		2
	36	0	20.84	20.72	20.91	0-3	3
	36	18	20.86	20.78	20.92		3
	36	37	20.76	20.69	20.92		3
	75	0	20.83	20.70	20.74		3
256QAM	1	0	18.66	18.68	18.72	0-5	5
	1	36	18.65	18.63	18.69		5
	1	74	18.67	18.72	18.67		5
	36	0	18.66	18.64	18.72		5
	36	18	18.75	18.60	18.68		5
	36	37	18.66	18.59	18.71		5
	75	0	18.68	18.60	18.69		5

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Table 9-33
LTE Band 66 (AWS) Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	23.65	23.48	23.48	0	0
	1	25	23.90	23.49	23.69		0
	1	49	23.62	23.51	23.44		0
	25	0	22.85	22.68	22.69	0-1	1
	25	12	22.95	22.84	22.68		1
	25	25	22.77	22.69	22.66		1
	50	0	22.92	22.75	22.70		1
16QAM	1	0	22.83	22.87	22.79	0-1	1
	1	25	22.89	22.76	22.76		1
	1	49	22.46	22.80	22.75		1
	25	0	21.91	21.67	21.51	0-2	2
	25	12	21.94	21.81	21.76		2
	25	25	21.89	21.65	21.59		2
	50	0	21.84	21.62	21.64		2
64QAM	1	0	21.88	21.84	21.60	0-2	2
	1	25	21.74	21.99	21.63		2
	1	49	21.79	21.47	21.96		2
	25	0	20.89	20.61	20.71	0-3	3
	25	12	21.00	20.80	20.79		3
	25	25	20.78	20.77	20.74		3
	50	0	20.77	20.75	20.64		3
256QAM	1	0	18.73	18.55	18.35	0-5	5
	1	25	19.06	18.56	18.79		5
	1	49	18.61	18.78	18.62		5
	25	0	18.85	18.72	18.67		5
	25	12	18.84	18.85	18.72		5
	25	25	18.74	18.64	18.64		5
	50	0	18.81	18.77	18.67		5

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Table 9-34
LTE Band 66 (AWS) Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	23.69	23.58	23.64	0	0
	1	12	23.73	23.60	23.68		0
	1	24	23.66	23.53	23.57		0
	12	0	22.82	22.68	22.94	0-1	1
	12	6	22.86	22.65	22.92		1
	12	13	22.72	22.59	22.82		1
	25	0	22.78	22.63	22.86		1
16QAM	1	0	22.85	23.08	22.94	0-1	1
	1	12	22.90	22.99	22.92		1
	1	24	22.80	23.10	22.83		1
	12	0	21.95	21.79	21.96	0-2	2
	12	6	21.93	21.75	21.97		2
	12	13	21.86	21.66	21.74		2
	25	0	21.78	21.70	21.88		2
64QAM	1	0	22.19	21.86	21.98	0-2	2
	1	12	22.14	21.83	22.02		2
	1	24	22.10	21.73	21.87		2
	12	0	20.95	20.70	20.96	0-3	3
	12	6	20.89	20.64	20.85		3
	12	13	20.82	20.61	20.85		3
	25	0	20.85	20.69	20.86		3
256QAM	1	0	18.70	18.63	18.64	0-5	5
	1	12	18.75	18.59	18.70		5
	1	24	18.73	18.58	18.75		5
	12	0	18.71	18.67	18.87		5
	12	6	18.76	18.54	18.84		5
	12	13	18.72	18.58	18.82		5
	25	0	18.74	18.59	18.73		5

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Table 9-35
LTE Band 66 (AWS) Measured $P_{\max}$ for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	23.66	23.56	23.75	0	0
	1	7	23.60	23.52	23.66		0
	1	14	23.54	23.51	23.58		0
	8	0	22.71	22.64	22.85	0-1	1
	8	4	22.83	22.62	22.86		1
	8	7	22.72	22.54	22.84		1
	15	0	22.79	22.61	22.87		1
16QAM	1	0	22.65	23.04	22.88	0-1	1
	1	7	22.55	22.97	22.79		1
	1	14	22.79	22.95	22.73		1
	8	0	21.81	21.78	21.96	0-2	2
	8	4	21.79	21.77	21.91		2
	8	7	21.75	21.66	21.84		2
	15	0	21.78	21.69	21.94		2
64QAM	1	0	21.97	21.84	22.07	0-2	2
	1	7	21.94	21.77	22.04		2
	1	14	21.87	21.80	21.92		2
	8	0	20.83	20.76	20.94	0-3	3
	8	4	20.83	20.70	20.92		3
	8	7	20.76	20.66	20.87		3
	15	0	20.81	20.66	20.88		3
256QAM	1	0	18.70	18.60	18.63	0-5	5
	1	7	18.65	18.68	18.62		5
	1	14	18.64	18.62	18.63		5
	8	0	18.69	18.70	18.66		5
	8	4	18.65	18.66	18.64		5
	8	7	18.68	18.64	18.67		5
	15	0	18.63	18.66	18.62		5

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Table 9-36

LTE Band 66 (AWS) Measured $P_{\max}$ for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	23.68	23.69	23.66	0	0
	1	2	23.61	23.78	23.70		0
	1	5	23.56	23.77	23.82		0
	3	0	23.63	23.50	23.66		0
	3	2	23.72	23.51	23.72		0
	3	3	23.64	23.66	23.68		0
	6	0	22.75	22.72	22.78	0-1	1
16QAM	1	0	22.50	22.79	23.16	0-1	1
	1	2	22.55	22.69	23.18		1
	1	5	22.60	22.70	23.08		1
	3	0	22.86	22.67	23.07		1
	3	2	22.90	22.71	23.11		1
	3	3	22.81	22.64	22.98		1
	6	0	21.95	21.74	21.74	0-2	2
64QAM	1	0	21.85	21.68	21.59	0-2	2
	1	2	21.87	21.69	21.67		2
	1	5	21.83	21.64	21.53		2
	3	0	21.77	21.56	21.85		2
	3	2	21.81	21.63	21.92		2
	3	3	21.76	21.57	21.84		2
	6	0	20.89	20.64	21.07	0-3	3
256QAM	1	0	18.66	18.74	18.70	0-5	5
	1	2	18.61	18.77	18.66		5
	1	5	18.59	18.81	18.74		5
	3	0	18.57	18.83	18.71		5
	3	2	18.55	18.81	18.73		5
	3	3	18.56	18.83	18.69		5
	6	0	18.60	18.82	18.73		5

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Table 9-37
LTE Band 66 (AWS) Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.15	19.00	19.11	0	0
	1	50	19.25	19.21	19.00		0
	1	99	18.96	19.01	18.93		0
	50	0	19.37	19.29	19.12	0-1	0
	50	25	19.36	19.30	19.29		0
	50	50	19.24	19.16	19.13		0
	100	0	19.24	19.19	19.08		0
16QAM	1	0	19.16	19.15	19.14	0-1	0
	1	50	19.15	19.15	19.18		0
	1	99	19.22	19.00	19.20		0
	50	0	19.37	19.20	19.21	0-2	0
	50	25	19.43	19.28	19.27		0
	50	50	19.29	19.12	19.18		0
	100	0	19.29	19.21	19.08		0
64QAM	1	0	19.39	19.15	19.36	0-2	0
	1	50	19.57	19.38	19.32		0
	1	99	19.24	19.17	19.30		0
	50	0	19.40	19.23	19.21	0-3	0
	50	25	19.40	19.25	19.30		0
	50	50	19.23	19.19	19.08		0
	100	0	19.27	19.19	19.13		0
256QAM	1	0	18.76	18.48	18.74	0-5	0.5
	1	50	18.81	18.65	18.67		0.5
	1	99	18.38	18.61	18.39		0.5
	50	0	18.80	18.72	18.73		0.5
	50	25	18.90	18.81	18.76		0.5
	50	50	18.74	18.65	18.63		0.5
	100	0	18.79	18.78	18.64		0.5

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Table 9-38
LTE Band 66 (AWS) Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.17	18.86	19.21	0	0
	1	36	19.27	19.04	19.28		0
	1	74	19.03	19.21	19.11		0
	36	0	19.36	19.17	19.41	0-1	0
	36	18	19.35	19.25	19.44		0
	36	37	19.26	19.18	19.45		0
	75	0	19.29	19.19	19.34		0
16QAM	1	0	19.22	19.26	19.62	0-1	0
	1	36	19.03	19.09	19.60		0
	1	74	19.58	19.25	19.53		0
	36	0	19.45	19.10	19.50	0-2	0
	36	18	19.48	19.24	19.52		0
	36	37	19.39	19.13	19.50		0
	75	0	19.32	19.23	19.38		0
64QAM	1	0	19.26	19.64	19.27	0-2	0
	1	36	19.41	18.98	19.37		0
	1	74	19.14	19.26	19.24		0
	36	0	19.47	19.30	19.55	0-3	0
	36	18	19.44	19.39	19.56		0
	36	37	19.39	19.34	19.58		0
	75	0	19.43	19.33	19.42		0
256QAM	1	0	18.80	18.86	18.70	0-5	0.5
	1	36	18.42	18.79	18.69		0.5
	1	74	18.68	18.78	18.70		0.5
	36	0	18.69	18.80	18.71		0.5
	36	18	18.65	18.77	18.70		0.5
	36	37	18.66	18.65	18.70		0.5
	75	0	18.76	18.69	18.71		0.5

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Table 9-39
LTE Band 66 (AWS) Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.16	18.92	18.99	0	0
	1	25	19.25	19.09	19.16		0
	1	49	19.13	18.86	18.96		0
	25	0	19.42	19.35	19.22	0-1	0
	25	12	19.40	19.27	19.20		0
	25	25	19.28	19.19	19.18		0
	50	0	19.41	19.22	19.17		0
16QAM	1	0	19.21	19.23	19.53	0-1	0
	1	25	19.59	19.30	19.62		0
	1	49	19.18	19.25	19.35		0
	25	0	19.41	19.34	19.24	0-2	0
	25	12	19.50	19.22	19.30		0
	25	25	19.38	19.22	19.25		0
	50	0	19.41	19.20	19.14		0
64QAM	1	0	19.42	19.18	19.21	0-2	0
	1	25	19.71	19.44	19.64		0
	1	49	19.70	19.29	19.35		0
	25	0	19.49	19.23	19.20	0-3	0
	25	12	19.60	19.32	19.38		0
	25	25	19.45	19.29	19.22		0
	50	0	19.43	19.26	19.19		0
256QAM	1	0	18.43	18.55	18.58	0-5	0.5
	1	25	18.81	18.69	18.82		0.5
	1	49	18.56	18.52	18.60		0.5
	25	0	18.95	18.72	18.69		0.5
	25	12	19.04	18.81	18.72		0.5
	25	25	18.90	18.60	18.66		0.5
	50	0	18.90	18.81	18.71		0.5

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Table 9-40
LTE Band 66 (AWS) Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.15	19.04	19.40	0	0
	1	12	19.17	19.00	19.35		0
	1	24	19.03	18.94	19.22		0
	12	0	19.34	19.22	19.45	0-1	0
	12	6	19.33	19.22	19.38		0
	12	13	19.26	19.11	19.31		0
	25	0	19.32	19.19	19.30		0
16QAM	1	0	19.10	19.22	19.29	0-1	0
	1	12	19.13	19.30	19.24		0
	1	24	19.02	19.23	19.29		0
	12	0	18.98	19.25	19.37	0-2	0
	12	6	19.08	19.24	19.32		0
	12	13	19.21	19.13	19.36		0
	25	0	19.32	19.26	19.37		0
64QAM	1	0	19.30	19.21	19.30	0-2	0
	1	12	19.25	19.30	19.31		0
	1	24	19.26	19.33	19.18		0
	12	0	19.34	19.29	19.31	0-3	0
	12	6	19.32	19.32	19.27		0
	12	13	19.27	19.23	19.23		0
	25	0	19.24	19.15	19.05		0
256QAM	1	0	18.63	18.73	18.68	0-5	0.5
	1	12	18.69	18.73	18.67		0.5
	1	24	18.66	18.73	18.75		0.5
	12	0	18.64	18.71	18.71		0.5
	12	6	18.61	18.72	18.81		0.5
	12	13	18.62	18.72	18.69		0.5
	25	0	18.68	18.74	18.64		0.5

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Table 9-41
LTE Band 66 (AWS) Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.28	19.11	19.27	0	0
	1	7	19.31	19.02	19.24		0
	1	14	19.28	19.02	19.18		0
	8	0	19.42	19.30	19.50	0-1	0
	8	4	19.43	19.30	19.49		0
	8	7	19.36	19.21	19.43		0
16QAM	15	0	19.34	19.26	19.46	0-1	0
	1	0	19.32	19.49	19.39		0
	1	7	19.28	19.43	19.38		0
	1	14	19.25	19.35	19.31	0-2	0
	8	0	19.30	19.29	19.33		0
	8	4	19.32	19.28	19.32		0
64QAM	8	7	19.31	19.21	19.28	0-2	0
	15	0	19.33	19.29	19.32		0
	1	0	19.37	19.12	19.40		0-2
	1	7	19.39	19.32	19.42	0	
	1	14	19.40	19.29	19.26	0-3	
	8	0	19.39	19.31	19.38		0
256QAM	8	4	19.38	19.34	19.41		0-3
	8	7	19.41	19.26	19.43	0	
	15	0	19.47	19.23	19.52	0-5	
	1	0	18.75	19.04	18.63		0.5
	1	7	18.75	19.03	18.75		0.5
	1	14	18.79	19.04	18.77		0.5
8	0	18.78	19.05	18.71	0.5		
8	4	18.79	19.05	18.69	0.5		
256QAM	8	7	18.80	19.04	18.60	0-5	0.5
	15	0	18.77	19.05	18.59		0.5

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Table 9-42
LTE Band 66 (AWS) Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.24	18.93	19.45	0	0
	1	2	19.31	19.00	19.46		0
	1	5	19.17	18.90	19.34		0
	3	0	19.21	19.04	19.30		0
	3	2	19.21	19.07	19.32		0
	3	3	19.15	19.02	19.25		0
	6	0	19.26	19.13	19.38	0-1	0
16QAM	1	0	19.58	19.34	19.41	0-1	0
	1	2	19.57	19.39	19.35		0
	1	5	19.48	19.33	19.39		0
	3	0	19.33	19.19	19.36		0
	3	2	19.35	19.22	19.29		0
	3	3	19.33	19.19	19.28		0
	6	0	19.19	19.31	19.24	0-2	0
64QAM	1	0	19.32	19.34	19.24	0-2	0
	1	2	19.38	19.41	19.30		0
	1	5	19.42	19.40	19.28		0
	3	0	19.46	19.40	19.42		0
	3	2	19.50	19.39	19.39		0
	3	3	19.43	19.37	19.36		0
	6	0	19.29	19.30	19.27	0-3	0
256QAM	1	0	18.62	18.80	18.79	0-5	0.5
	1	2	18.76	18.82	18.72		0.5
	1	5	18.76	18.77	18.69		0.5
	3	0	18.78	18.76	18.72		0.5
	3	2	18.78	18.73	18.75		0.5
	3	3	18.80	18.82	18.78		0.5
	6	0	18.76	18.69	18.71		0.5

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Table 9-43
LTE Band 66 (AWS) Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	19.52	19.70	19.61	0	0
	1	50	19.90	19.59	19.68		0
	1	99	19.69	19.74	19.55		0
	50	0	19.86	19.59	19.69	0-1	0
	50	25	19.83	19.85	19.70		0
	50	50	19.85	19.80	19.68		0
	100	0	19.84	19.84	19.82		0
16QAM	1	0	19.73	19.73	20.04	0-1	0
	1	50	20.06	19.97	19.74		0
	1	99	19.92	19.56	19.79		0
	50	0	20.06	19.78	19.75	0-2	0
	50	25	20.01	19.95	20.03		0
	50	50	20.08	19.75	19.82		0
	100	0	19.94	19.87	19.74		0
64QAM	1	0	20.25	19.64	19.92	0-2	0
	1	50	20.01	20.12	20.30		0
	1	99	19.97	19.54	19.95		0
	50	0	19.97	19.95	19.83	0-3	0
	50	25	20.16	19.89	20.01		0
	50	50	20.00	19.84	19.80		0
	100	0	19.95	19.93	19.78		0
256QAM	1	0	18.93	19.04	18.63	0-5	1
	1	50	18.81	18.77	18.90		1
	1	99	19.05	19.05	19.07		1
	50	0	18.96	18.86	18.72		1
	50	25	19.06	18.93	18.98		1
	50	50	18.97	18.93	18.91		1
	100	0	19.00	18.84	18.77		1

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Table 9-44
LTE Band 66 (AWS) Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	19.78	19.51	19.80	0	0
	1	36	19.91	19.68	19.91		0
	1	74	19.64	19.52	19.77		0
	36	0	19.92	19.69	19.99	0-1	0
	36	18	19.92	19.83	20.04		0
	36	37	19.82	19.76	19.99		0
	75	0	19.86	19.77	19.94		0
16QAM	1	0	19.85	20.04	20.05	0-1	0
	1	36	20.04	20.20	20.02		0
	1	74	19.71	19.97	19.98		0
	36	0	19.91	19.77	20.04	0-2	0
	36	18	19.97	19.87	20.08		0
	36	37	19.85	19.79	20.07		0
	75	0	19.88	19.81	19.97		0
64QAM	1	0	20.27	19.82	20.15	0-2	0
	1	36	20.25	19.64	20.21		0
	1	74	20.29	19.71	20.13		0
	36	0	20.01	19.86	20.11	0-3	0
	36	18	20.03	19.98	20.14		0
	36	37	19.91	19.88	20.14		0
	75	0	19.96	19.86	19.97		0
256QAM	1	0	19.14	18.96	18.92	0-5	1
	1	36	19.18	18.85	18.90		1
	1	74	19.18	18.75	18.88		1
	36	0	19.19	18.69	18.88		1
	36	18	19.16	19.01	18.88		1
	36	37	19.17	19.10	18.90		1
	75	0	19.16	19.05	18.89		1

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Table 9-45
LTE Band 66 (AWS) Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	19.92	19.71	19.55	0	0
	1	25	19.92	19.88	19.74		0
	1	49	19.88	19.50	19.49		0
	25	0	20.10	19.91	19.89	0-1	0
	25	12	20.19	19.95	19.95		0
	25	25	20.07	19.85	19.91		0
	50	0	20.10	19.81	19.85		0
16QAM	1	0	19.92	19.77	19.70	0-1	0
	1	25	20.12	19.88	20.13		0
	1	49	20.06	19.91	19.70		0
	25	0	20.17	19.94	19.94	0-2	0
	25	12	20.14	20.03	19.94		0
	25	25	20.21	19.85	19.93		0
	50	0	20.08	19.98	19.92		0
64QAM	1	0	19.96	19.83	19.72	0-2	0
	1	25	20.17	19.99	20.09		0
	1	49	20.27	20.00	20.25		0
	25	0	20.13	19.97	19.92	0-3	0
	25	12	20.34	20.04	20.05		0
	25	25	20.12	19.84	19.88		0
	50	0	20.08	19.97	19.87		0
256QAM	1	0	18.81	18.70	18.58	0-5	1
	1	25	19.10	19.20	19.31		1
	1	49	18.75	18.70	18.75		1
	25	0	19.13	18.94	18.95		1
	25	12	19.15	19.04	18.92		1
	25	25	19.22	18.86	18.99		1
	50	0	19.01	19.07	18.91		1

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Table 9-46
LTE Band 66 (AWS) Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	19.82	19.79	19.88	0	0
	1	12	19.86	19.77	19.90		0
	1	24	19.78	19.71	19.73		0
	12	0	19.95	19.83	20.06	0-1	0
	12	6	19.94	19.82	20.09		0
	12	13	19.87	19.76	20.01		0
	25	0	19.92	19.77	20.09		0
16QAM	1	0	19.97	20.12	20.12	0-1	0
	1	12	19.96	19.97	20.10		0
	1	24	19.90	20.19	20.01		0
	12	0	20.10	19.92	20.17	0-2	0
	12	6	20.08	19.92	20.15		0
	12	13	19.97	19.86	20.04		0
	25	0	19.91	19.91	20.06		0
64QAM	1	0	20.13	20.03	20.00	0-2	0
	1	12	20.24	20.12	20.05		0
	1	24	20.20	19.90	20.11		0
	12	0	20.08	19.87	20.12	0-3	0
	12	6	20.06	19.88	19.95		0
	12	13	19.92	19.79	20.00		0
	25	0	19.99	19.82	20.03		0
256QAM	1	0	19.14	18.78	18.94	0-5	1
	1	12	19.18	18.75	18.80		1
	1	24	19.10	18.76	18.74		1
	12	0	19.17	18.78	18.94		1
	12	6	19.16	18.74	18.93		1
	12	13	19.14	18.79	18.95		1
	25	0	19.18	18.75	18.96		1

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Table 9-47
LTE Band 66 (AWS) Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	19.82	19.72	19.90	0	0
	1	7	19.70	19.64	19.89		0
	1	14	19.68	19.60	19.76		0
	8	0	19.93	19.77	20.08	0-1	0
	8	4	19.96	19.74	20.03		0
	8	7	19.86	19.69	19.96		0
	15	0	19.93	19.79	20.03		0
16QAM	1	0	19.80	20.15	20.04	0-1	0
	1	7	19.66	20.13	19.98		0
	1	14	19.59	20.10	19.89		0
	8	0	19.99	19.95	20.11	0-2	0
	8	4	19.96	19.90	20.10		0
	8	7	19.88	19.85	20.01		0
	15	0	19.84	19.82	20.13		0
64QAM	1	0	20.18	19.60	20.26	0-2	0
	1	7	20.13	19.59	20.23		0
	1	14	19.94	19.54	20.14		0
	8	0	19.96	19.92	20.11	0-3	0
	8	4	19.98	19.92	20.08		0
	8	7	19.91	19.85	20.06		0
	15	0	19.97	19.90	20.06		0
256QAM	1	0	19.12	18.78	18.79	0-5	1
	1	7	19.08	18.80	18.80		1
	1	14	18.97	18.77	18.69		1
	8	0	19.16	18.80	18.71		1
	8	4	19.14	18.79	18.75		1
	8	7	19.16	18.79	18.76		1
	15	0	19.00	18.77	18.69		1

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Table 9-48
LTE Band 66 (AWS) Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 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	19.69	19.64	19.97	0	0
	1	2	19.70	19.68	20.02		0
	1	5	19.63	19.60	19.93		0
	3	0	19.78	19.61	19.89		0
	3	2	19.76	19.66	19.96		0
	3	3	19.72	19.65	19.89		0
	6	0	19.84	19.65	19.96	0-1	0
16QAM	1	0	19.62	20.11	19.76	0-1	0
	1	2	19.64	20.13	19.88		0
	1	5	19.61	20.05	19.77		0
	3	0	19.96	19.99	20.15		0
	3	2	19.99	20.04	20.17		0
	3	3	19.93	19.98	20.14		0
	6	0	19.97	19.66	20.12	0-2	0
64QAM	1	0	19.95	19.56	20.18	0-2	0
	1	2	19.99	19.65	20.30		0
	1	5	19.95	19.70	20.11		0
	3	0	19.88	19.87	20.30		0
	3	2	19.95	19.88	20.27		0
	3	3	19.83	19.84	20.22		0
	6	0	20.03	20.04	19.92	0-3	0
256QAM	1	0	19.06	18.68	18.79	0-5	1
	1	2	19.07	18.67	18.80		1
	1	5	19.07	18.67	18.72		1
	3	0	19.05	18.69	18.88		1
	3	2	18.99	18.70	18.73		1
	3	3	19.06	18.75	18.71		1
	6	0	19.07	18.72	18.76		1

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LTE Band 25 (PCS)

Table 9-49

LTE Band 25 (PCS) Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.03	23.88	23.81	0	0
	1	50	23.93	23.76	23.83		0
	1	99	23.89	23.84	23.85		0
	50	0	23.09	22.83	22.93	0-1	1
	50	25	23.07	22.93	23.02		1
	50	50	22.94	22.90	22.97		1
	100	0	22.99	22.84	22.83		1
16QAM	1	0	23.24	23.02	23.09	0-1	1
	1	50	23.22	23.00	23.10		1
	1	99	23.15	23.13	23.10		1
	50	0	22.08	21.86	21.93	0-2	2
	50	25	22.09	21.92	22.00		2
	50	50	21.97	21.95	22.01		2
	100	0	21.99	21.85	21.80		2
64QAM	1	0	22.28	22.07	22.08	0-2	2
	1	50	22.25	22.07	22.17		2
	1	99	22.12	22.16	22.18		2
	50	0	21.10	20.85	20.93	0-3	3
	50	25	21.11	20.96	21.03		3
	50	50	20.98	20.89	21.02		3
	100	0	21.00	20.85	20.88		3
256QAM	1	0	18.81	18.60	18.56	0-5	5
	1	50	19.04	18.89	18.91		5
	1	99	18.76	18.64	18.73		5
	50	0	18.92	18.69	18.76		5
	50	25	19.08	18.96	18.99		5
	50	50	18.90	18.89	18.92		5
	100	0	18.95	18.84	18.83		5

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SAR EVALUATION REPORT



Approved by:
Quality Manager

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Table 9-50
LTE Band 25 (PCS) Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	23.68	23.62	23.50	0	0
	1	36	23.74	23.66	23.51		0
	1	74	23.50	23.59	23.58		0
	36	0	22.72	22.48	22.58	0-1	1
	36	18	22.90	22.67	22.69		1
	36	37	22.65	22.65	22.71		1
	75	0	22.68	22.61	22.53		1
16QAM	1	0	22.58	22.68	22.80	0-1	1
	1	36	22.55	22.78	22.97		1
	1	74	22.60	22.81	22.90		1
	36	0	21.72	21.56	21.50	0-2	2
	36	18	21.84	21.79	21.69		2
	36	37	21.67	21.72	21.70		2
	75	0	21.66	21.62	21.38		2
64QAM	1	0	22.12	22.23	22.17	0-2	2
	1	36	22.40	22.36	22.25		2
	1	74	22.13	22.26	22.27		2
	36	0	20.84	20.73	20.71	0-3	3
	36	18	20.96	20.93	20.83		3
	36	37	20.80	20.90	20.86		3
	75	0	20.82	20.72	20.81		3
256QAM	1	0	19.15	18.56	18.98	0-5	5
	1	36	19.43	18.77	19.26		5
	1	74	19.19	18.60	19.18		5
	36	0	18.86	18.58	18.77		5
	36	18	18.98	18.83	18.88		5
	36	37	18.86	18.78	18.92		5
	75	0	18.87	18.78	18.80		5

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Table 9-51
LTE Band 25 (PCS) Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	23.69	23.62	23.50	0	0
	1	25	23.74	23.66	23.51		0
	1	49	23.50	23.59	23.58		0
	25	0	22.72	22.48	22.58	0-1	1
	25	12	22.90	22.67	22.69		1
	25	25	22.65	22.65	22.71		1
	50	0	22.68	22.61	22.53		1
16QAM	1	0	22.58	22.68	22.80	0-1	1
	1	25	22.55	22.78	22.97		1
	1	49	22.60	22.81	22.90		1
	25	0	21.72	21.56	21.50	0-2	2
	25	12	21.84	21.79	21.69		2
	25	25	21.67	21.72	21.70		2
	50	0	21.66	21.62	21.63		2
64QAM	1	0	21.65	21.40	22.31	0-2	2
	1	25	21.88	21.57	22.36		2
	1	49	21.57	21.36	22.39		2
	25	0	21.06	20.74	20.76	0-3	3
	25	12	21.07	20.87	20.85		3
	25	25	21.01	20.86	20.86		3
	50	0	20.88	20.81	20.77		3
256QAM	1	0	19.29	18.67	19.10	0-5	5
	1	25	19.44	18.84	19.33		5
	1	49	19.07	18.60	19.09		5
	25	0	19.02	18.73	18.80		5
	25	12	18.97	18.90	18.93		5
	25	25	18.94	18.83	18.95		5
	50	0	18.89	18.81	18.81		5

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Table 9-52
LTE Band 25 (PCS) Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	23.59	23.50	23.63	0	0
	1	12	23.76	23.47	23.64		0
	1	24	23.58	23.51	23.65		0
	12	0	22.90	22.57	22.65	0-1	1
	12	6	22.89	22.75	22.73		1
	12	13	22.82	22.69	22.74		1
	25	0	22.80	22.66	22.72		1
16QAM	1	0	22.50	22.48	22.99	0-1	1
	1	12	22.56	22.81	23.00		1
	1	24	22.52	22.58	23.00		1
	12	0	21.89	21.56	21.71	0-2	2
	12	6	21.93	21.76	21.77		2
	12	13	21.83	21.73	21.81		2
	25	0	21.83	21.69	21.74		2
64QAM	1	0	22.24	21.77	21.88	0-2	2
	1	12	22.22	21.92	21.88		2
	1	24	22.28	21.91	21.91		2
	12	0	21.01	20.70	20.78	0-3	3
	12	6	21.07	20.85	20.81		3
	12	13	21.07	20.81	20.85		3
	25	0	20.99	20.86	20.84		3
256QAM	1	0	19.15	18.99	19.04	0-5	5
	1	12	19.23	19.21	19.12		5
	1	24	19.21	19.17	19.06		5
	12	0	19.06	18.76	18.92		5
	12	6	19.11	18.85	18.94		5
	12	13	19.13	18.89	18.98		5
	25	0	19.08	18.76	18.92		5

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Table 9-53
LTE Band 25 (PCS) Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	23.87	23.50	23.57	0	0
	1	7	23.91	23.61	23.60		0
	1	14	23.92	23.69	23.57		0
	8	0	22.92	22.62	22.72	0-1	1
	8	4	23.01	22.74	22.83		1
	8	7	22.93	22.73	22.80		1
	15	0	22.96	22.70	22.81		1
16QAM	1	0	23.14	22.61	22.88	0-1	1
	1	7	23.16	22.76	22.93		1
	1	14	23.19	22.70	22.91		1
	8	0	21.99	21.66	21.83	0-2	2
	8	4	22.07	21.73	21.83		2
	8	7	22.04	21.72	21.85		2
	15	0	22.01	21.68	21.80		2
64QAM	1	0	22.15	21.46	22.35	0-2	2
	1	7	22.17	21.56	22.44		2
	1	14	22.17	21.64	22.43		2
	8	0	21.16	20.76	20.89	0-3	3
	8	4	21.16	20.87	20.94		3
	8	7	21.17	20.84	20.95		3
	15	0	21.18	20.83	20.91		3
256QAM	1	0	19.25	19.15	18.86	0-5	5
	1	7	19.26	19.19	18.88		5
	1	14	19.23	19.31	18.94		5
	8	0	19.08	18.63	18.83		5
	8	4	19.11	18.76	18.83		5
	8	7	19.07	18.74	18.85		5
	15	0	19.04	18.80	18.92		5

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Table 9-54
LTE Band 25 (PCS) Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	23.71	23.38	23.68	0	0
	1	2	23.73	23.43	23.66		0
	1	5	23.81	23.53	23.76		0
	3	0	23.80	23.56	23.59		0
	3	2	23.90	23.68	23.66		0
	3	3	23.87	23.63	23.61		0
	6	0	22.90	22.69	22.89	0-1	1
16QAM	1	0	22.64	22.65	23.03	0-1	1
	1	2	22.59	22.72	23.07		1
	1	5	22.65	22.81	23.06		1
	3	0	23.04	22.74	22.80		1
	3	2	23.09	22.79	22.85		1
	3	3	23.05	22.80	22.79		1
	6	0	21.94	21.59	21.95	0-2	2
64QAM	1	0	21.81	21.47	22.14	0-2	2
	1	2	21.84	21.56	22.23		2
	1	5	21.94	21.49	22.10		2
	3	0	21.78	21.76	21.79		2
	3	2	21.92	21.84	21.84		2
	3	3	21.84	21.80	21.78		2
	6	0	20.89	20.65	20.73	0-3	3
256QAM	1	0	19.02	18.58	18.92	0-5	5
	1	2	19.08	18.69	18.95		5
	1	5	19.00	18.63	18.98		5
	3	0	18.90	18.60	18.61		5
	3	2	18.89	18.69	18.69		5
	3	3	18.86	18.62	18.67		5
	6	0	19.09	18.85	18.80		5

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Table 9-55
LTE Band 25 (PCS) Measured Plimit for DSI = 3 (Hotspot mode) - 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	17.70	17.75	17.75	0	0
	1	50	17.86	17.63	17.73		0
	1	99	17.74	17.62	17.63		0
	50	0	18.01	17.71	17.77	0-1	0
	50	25	18.02	17.78	17.84		0
	50	50	17.79	17.83	17.83		0
	100	0	17.85	17.74	17.66		0
16QAM	1	0	17.76	17.71	17.63	0-1	0
	1	50	17.98	17.62	18.17		0
	1	99	17.84	17.62	17.56		0
	50	0	18.08	17.77	17.80	0-2	0
	50	25	17.94	17.81	17.96		0
	50	50	17.91	17.80	17.83		0
	100	0	17.81	17.74	17.70		0
64QAM	1	0	18.22	17.90	17.89	0-2	0
	1	50	17.90	17.91	18.06		0
	1	99	18.12	17.97	17.92		0
	50	0	18.05	17.81	18.23	0-3	0
	50	25	17.97	17.83	17.63		0
	50	50	17.90	17.81	17.80		0
	100	0	17.98	17.77	17.92		0
256QAM	1	0	18.06	18.06	17.89	0-5	0
	1	50	18.25	17.68	17.74		0
	1	99	17.94	17.92	17.78		0
	50	0	17.78	17.60	17.70		0
	50	25	17.92	17.88	17.90		0
	50	50	17.85	17.81	17.74		0
	100	0	17.86	17.72	17.78		0

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Table 9-56
LTE Band 25 (PCS) Measured Plimit for DSI = 3 (Hotspot mode) - 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	17.77	17.62	17.71	0	0
	1	36	17.99	17.70	17.71		0
	1	74	17.79	17.64	17.65		0
	36	0	17.96	17.74	17.85	0-1	0
	36	18	18.04	17.96	17.96		0
	36	37	17.87	17.89	17.96		0
	75	0	17.87	17.84	17.87		0
16QAM	1	0	17.78	18.03	18.20	0-1	0
	1	36	18.12	18.08	18.26		0
	1	74	18.10	18.08	18.20		0
	36	0	18.02	17.66	17.93	0-2	0
	36	18	18.07	17.87	18.04		0
	36	37	17.99	17.89	17.88		0
	75	0	17.85	17.87	17.93		0
64QAM	1	0	17.82	17.90	17.85	0-2	0
	1	36	18.09	18.17	17.91		0
	1	74	17.78	18.09	17.85		0
	36	0	18.02	17.83	18.00	0-3	0
	36	18	18.12	18.07	18.06		0
	36	37	17.98	18.02	18.12		0
	75	0	17.98	17.90	17.93		0
256QAM	1	0	17.80	18.16	17.91	0-5	0
	1	36	17.84	17.96	17.89		0
	1	74	17.85	17.92	17.82		0
	36	0	17.81	17.85	17.89		0
	36	18	17.96	18.01	17.87		0
	36	37	17.79	17.77	17.91		0
	75	0	17.82	17.94	17.89		0

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Table 9-57
LTE Band 25 (PCS) Measured Plimit for DSI = 3 (Hotspot mode) - 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	17.81	17.72	17.76	0	0
	1	25	18.03	17.63	17.79		0
	1	49	17.75	17.53	17.81		0
	25	0	18.07	17.80	17.84	0-1	0
	25	12	18.06	17.96	17.96		0
	25	25	17.96	17.91	17.95		0
	50	0	17.97	17.94	17.92		0
16QAM	1	0	18.13	18.04	18.14	0-1	0
	1	25	18.06	18.09	18.01		0
	1	49	18.08	17.97	18.09		0
	25	0	18.10	17.85	17.87	0-2	0
	25	12	18.12	18.02	17.97		0
	25	25	18.04	17.99	18.00		0
	50	0	18.07	18.02	17.88		0
64QAM	1	0	17.91	18.02	17.89	0-2	0
	1	25	18.21	18.04	17.97		0
	1	49	17.88	17.95	17.94		0
	25	0	18.02	17.81	18.00	0-3	0
	25	12	18.03	17.98	18.08		0
	25	25	17.93	17.90	18.13		0
	50	0	17.97	17.89	17.94		0
256QAM	1	0	18.03	17.90	18.04	0-5	0
	1	25	18.05	17.87	18.07		0
	1	49	18.04	18.03	18.06		0
	25	0	18.00	18.06	18.05		0
	25	12	17.86	17.96	18.02		0
	25	25	17.90	17.85	17.88		0
	50	0	18.03	17.96	17.89		0

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Table 9-58
LTE Band 25 (PCS) Measured Plimit for DSI = 3 (Hotspot mode) - 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	17.94	17.71	17.69	0	0
	1	12	17.99	17.76	17.98		0
	1	24	17.97	17.84	17.97		0
	12	0	18.13	17.84	18.03	0-1	0
	12	6	17.97	17.97	17.74		0
	12	13	17.96	18.00	18.07		0
	25	0	17.73	17.93	17.99		0
16QAM	1	0	17.89	18.14	17.91	0-1	0
	1	12	17.82	18.08	18.12		0
	1	24	17.75	18.11	17.99		0
	12	0	18.01	17.87	17.96	0-2	0
	12	6	18.06	18.03	17.97		0
	12	13	18.02	18.01	17.74		0
	25	0	18.01	18.03	17.88		0
64QAM	1	0	17.94	17.76	18.00	0-2	0
	1	12	17.98	17.71	17.92		0
	1	24	18.02	17.95	17.92		0
	12	0	18.09	17.96	17.96	0-3	0
	12	6	18.14	18.10	17.87		0
	12	13	17.75	18.08	18.01		0
	25	0	17.89	17.91	18.13		0
256QAM	1	0	18.07	17.94	17.74	0-5	0
	1	12	17.93	17.84	17.89		0
	1	24	17.91	17.96	17.76		0
	12	0	17.85	17.82	17.78		0
	12	6	17.76	17.84	17.86		0
	12	13	17.77	17.93	17.94		0
	25	0	18.01	17.91	17.95		0

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Table 9-59
LTE Band 25 (PCS) Measured Plimit for DSI = 3 (Hotspot mode) - 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	18.03	17.63	17.72	0	0
	1	7	18.06	17.65	17.78		0
	1	14	18.05	17.77	17.78		0
	8	0	18.01	17.84	17.92	0-1	0
	8	4	18.07	17.93	18.02		0
	8	7	18.04	17.95	17.97		0
	15	0	18.03	17.96	17.97		0
16QAM	1	0	17.96	18.06	18.03	0-1	0
	1	7	17.89	18.08	18.15		0
	1	14	17.88	18.14	18.16		0
	8	0	17.91	17.84	18.05	0-2	0
	8	4	17.76	17.97	18.16		0
	8	7	17.95	17.95	18.11		0
	15	0	18.10	18.01	18.07		0
64QAM	1	0	18.04	17.99	17.86	0-2	0
	1	7	18.01	17.85	17.90		0
	1	14	18.07	17.73	17.92		0
	8	0	18.06	17.95	18.05	0-3	0
	8	4	18.00	18.05	18.09		0
	8	7	17.99	18.01	18.05		0
	15	0	18.08	17.91	18.10		0
256QAM	1	0	18.06	17.84	17.88	0-5	0
	1	7	18.02	17.82	17.84		0
	1	14	17.81	17.78	17.82		0
	8	0	17.92	17.76	18.00		0
	8	4	17.86	17.81	17.89		0
	8	7	17.89	17.77	17.90		0
	15	0	17.94	17.96	17.91		0

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Table 9-60
LTE Band 25 (PCS) Measured Plimit for DSI = 3 (Hotspot mode) – 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	17.78	17.76	17.80	0	0
	1	2	17.91	17.86	17.94		0
	1	5	18.04	17.82	17.85		0
	3	0	17.94	17.77	17.81		0
	3	2	17.97	17.82	17.85		0
	3	3	17.91	17.74	17.83		0
	6	0	18.05	17.83	17.77	0-1	0
16QAM	1	0	18.11	18.08	17.74	0-1	0
	1	2	17.80	18.12	18.21		0
	1	5	17.76	18.09	18.14		0
	3	0	18.20	17.85	17.91		0
	3	2	18.04	17.95	17.98		0
	3	3	18.03	17.91	17.95		0
	6	0	18.07	17.75	17.77	0-2	0
64QAM	1	0	17.97	17.98	17.73	0-2	0
	1	2	17.86	18.04	17.82		0
	1	5	17.83	17.98	17.98		0
	3	0	18.02	18.01	17.88		0
	3	2	17.78	18.05	17.70		0
	3	3	18.11	17.97	18.04		0
	6	0	18.24	17.89	17.93	0-3	0
256QAM	1	0	17.89	17.98	17.99	0-5	0
	1	2	17.92	18.00	17.99		0
	1	5	17.94	17.99	18.01		0
	3	0	17.90	17.97	17.72		0
	3	2	17.72	17.99	17.74		0
	3	3	17.83	17.99	17.73		0
	6	0	17.91	17.99	17.79		0

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Table 9-61
LTE Band 25 (PCS) Measured Plimit for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	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	19.81	19.71	19.88	0	0
	1	50	19.84	19.74	19.77		0
	1	99	19.99	19.61	19.79		0
	50	0	20.04	19.84	19.83	0-1	0
	50	25	19.96	19.85	19.86		0
	50	50	19.97	19.77	19.90		0
	100	0	19.93	19.78	19.75		0
16QAM	1	0	19.87	19.73	20.12	0-1	0
	1	50	20.13	19.53	19.62		0
	1	99	19.75	19.41	19.41		0
	50	0	19.94	19.78	19.81	0-2	0
	50	25	20.01	19.90	19.99		0
	50	50	19.90	19.78	19.75		0
	100	0	19.91	19.77	19.64		0
64QAM	1	0	20.09	19.83	19.83	0-2	0
	1	50	20.19	19.68	20.10		0
	1	99	20.00	19.67	20.28		0
	50	0	20.04	19.80	19.90	0-3	0
	50	25	20.03	19.87	19.98		0
	50	50	19.94	19.79	19.92		0
	100	0	19.93	19.70	19.74		0
256QAM	1	0	19.14	18.42	18.54	0-5	1
	1	50	19.00	18.78	19.06		1
	1	99	18.84	18.69	18.40		1
	50	0	18.88	18.55	18.78		1
	50	25	19.09	18.80	19.01		1
	50	50	18.78	18.75	18.82		1
	100	0	18.90	18.69	18.70		1

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Table 9-62
LTE Band 25 (PCS) Measured Plimit for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 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	19.74	19.70	19.72	0	0
	1	36	20.00	19.74	19.79		0
	1	74	19.76	19.68	19.75		0
	36	0	19.90	19.67	19.80	0-1	0
	36	18	20.00	19.90	19.90		0
	36	37	19.85	19.84	19.94		0
	75	0	19.82	19.79	19.79		0
16QAM	1	0	19.90	20.15	19.95	0-1	0
	1	36	20.02	20.22	20.02		0
	1	74	19.85	20.17	20.01		0
	36	0	19.96	19.71	19.80	0-2	0
	36	18	20.04	19.90	19.94		0
	36	37	19.88	19.82	19.96		0
	75	0	19.84	19.77	19.83		0
64QAM	1	0	20.34	19.46	20.07	0-2	0
	1	36	19.79	19.67	20.05		0
	1	74	20.19	19.57	20.06		0
	36	0	19.96	19.78	19.89	0-3	0
	36	18	20.08	19.98	19.98		0
	36	37	19.93	19.93	20.03		0
	75	0	19.95	19.87	19.82		0
256QAM	1	0	19.05	18.55	18.56	0-5	1
	1	36	19.11	18.54	18.55		1
	1	74	19.15	18.76	18.69		1
	36	0	19.13	18.69	18.79		1
	36	18	19.17	18.73	18.80		1
	36	37	19.14	18.70	18.74		1
	75	0	19.10	18.77	18.75		1

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Table 9-63
LTE Band 25 (PCS) Measured Plimit for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 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	19.66	19.49	19.83	0	0
	1	25	19.78	19.69	19.76		0
	1	49	19.53	19.48	19.85		0
	25	0	19.97	19.71	19.78	0-1	0
	25	12	19.95	19.91	19.88		0
	25	25	19.85	19.85	19.87		0
	50	0	19.91	19.83	19.84		0
16QAM	1	0	19.51	20.04	19.91	0-1	0
	1	25	19.67	20.20	19.92		0
	1	49	19.78	19.98	19.98		0
	25	0	20.06	19.82	19.86	0-2	0
	25	12	20.09	19.97	20.00		0
	25	25	20.01	19.92	19.98		0
	50	0	19.93	19.82	19.79		0
64QAM	1	0	19.92	19.36	20.09	0-2	0
	1	25	20.13	19.63	20.18		0
	1	49	19.78	19.39	20.12		0
	25	0	20.10	19.87	19.86	0-3	0
	25	12	20.09	20.03	19.96		0
	25	25	20.03	19.96	19.98		0
	50	0	19.93	19.87	19.82		0
256QAM	1	0	19.14	18.44	18.63	0-5	1
	1	25	19.10	18.59	18.75		1
	1	49	19.17	18.76	18.79		1
	25	0	19.19	18.70	18.64		1
	25	12	19.14	18.77	18.78		1
	25	25	19.18	18.74	18.72		1
	50	0	19.09	18.80	18.63		1

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Table 9-64
LTE Band 25 (PCS) Measured Plimit for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 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	19.93	19.69	19.72	0	0
	1	12	19.88	19.80	19.68		0
	1	24	19.92	19.81	19.70		0
	12	0	19.99	19.73	19.84	0-1	0
	12	6	20.07	19.85	19.90		0
	12	13	20.01	19.86	19.89		0
	25	0	19.99	19.79	19.92		0
16QAM	1	0	20.04	20.14	19.90	0-1	0
	1	12	20.05	20.15	19.93		0
	1	24	20.03	20.24	19.94		0
	12	0	20.07	19.83	19.91	0-2	0
	12	6	20.13	19.93	19.96		0
	12	13	20.13	19.98	19.95		0
	25	0	20.02	19.93	19.91		0
64QAM	1	0	20.42	19.89	19.93	0-2	0
	1	12	20.21	20.01	20.03		0
	1	24	20.19	20.06	19.90		0
	12	0	20.11	19.78	19.92	0-3	0
	12	6	20.16	19.84	19.95		0
	12	13	20.09	19.89	20.00		0
	25	0	20.05	19.85	19.91		0
256QAM	1	0	19.13	18.84	18.97	0-5	1
	1	12	19.11	18.80	18.88		1
	1	24	19.09	18.79	18.99		1
	12	0	19.08	18.87	19.01		1
	12	6	19.10	18.84	18.99		1
	12	13	18.99	18.80	18.82		1
	25	0	19.12	18.82	18.76		1

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Table 9-65
LTE Band 25 (PCS) Measured Plimit for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 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	19.85	19.60	19.68	0	0
	1	7	19.84	19.67	19.68		0
	1	14	19.85	19.75	19.79		0
	8	0	20.02	19.71	19.89	0-1	0
	8	4	20.01	19.76	19.94		0
	8	7	20.00	19.80	19.92		0
	15	0	20.03	19.77	19.93		0
16QAM	1	0	19.74	20.06	19.85	0-1	0
	1	7	19.71	20.14	19.85		0
	1	14	19.76	20.18	19.98		0
	8	0	19.99	19.84	19.95	0-2	0
	8	4	20.03	19.94	20.01		0
	8	7	19.99	19.92	19.97		0
	15	0	19.98	19.85	20.06		0
64QAM	1	0	20.17	19.51	20.12	0-2	0
	1	7	20.13	19.61	20.17		0
	1	14	20.16	19.67	20.18		0
	8	0	20.05	19.80	19.96	0-3	0
	8	4	20.10	19.94	20.05		0
	8	7	20.06	19.91	20.03		0
	15	0	20.05	19.85	20.02		0
256QAM	1	0	19.13	18.91	18.88	0-5	1
	1	7	19.16	18.87	18.89		1
	1	14	19.15	18.92	18.86		1
	8	0	19.13	18.91	18.85		1
	8	4	19.12	18.90	18.88		1
	8	7	19.15	18.94	18.85		1
	15	0	19.12	18.89	18.87		1

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Table 9-66
LTE Band 25 (PCS) Measured Plimit for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) – 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	19.84	19.62	19.69	0	0
	1	2	19.92	19.64	19.77		0
	1	5	19.89	19.60	19.74		0
	3	0	19.87	19.68	19.75		0
	3	2	19.95	19.73	19.81		0
	3	3	19.94	19.73	19.76		0
	6	0	19.97	19.77	19.83	0-1	0
16QAM	1	0	20.27	19.50	20.20	0-1	0
	1	2	20.10	19.54	20.27		0
	1	5	20.15	19.54	20.19		0
	3	0	20.27	19.83	20.13		0
	3	2	20.14	19.93	20.18		0
	3	3	20.18	19.85	20.13		0
	6	0	19.91	19.91	19.80	0-2	0
64QAM	1	0	19.84	19.91	19.70	0-2	0
	1	2	19.94	19.95	19.77		0
	1	5	19.87	19.98	19.66		0
	3	0	20.12	19.80	19.98		0
	3	2	20.17	19.91	20.03		0
	3	3	20.23	19.84	19.98		0
	6	0	20.31	19.91	20.15	0-3	0
256QAM	1	0	18.85	19.05	18.81	0-5	1
	1	2	18.99	19.06	18.81		1
	1	5	19.04	19.06	18.85		1
	3	0	19.02	19.06	18.82		1
	3	2	18.96	19.00	18.86		1
	3	3	18.97	19.07	18.83		1
	6	0	18.97	19.04	18.84		1

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9.4.9

LTE Band 30

Table 9-67

LTE Band 30 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.21	0	0
	1	25	23.24		0
	1	49	23.10		0
	25	0	22.30	0-1	1
	25	12	22.26		1
	25	25	22.17		1
	50	0	22.20		1
16QAM	1	0	22.63	0-1	1
	1	25	22.49		1
	1	49	22.61		1
	25	0	21.33	0-2	2
	25	12	21.36		2
	25	25	21.16		2
	50	0	21.19		2
64QAM	1	0	21.47	0-2	2
	1	25	21.55		2
	1	49	21.35		2
	25	0	20.29	0-3	3
	25	12	20.36		3
	25	25	20.20		3
	50	0	20.26		3
256QAM	1	0	18.07	0-5	5
	1	25	18.31		5
	1	49	17.97		5
	25	0	18.30		5
	25	12	18.37		5
	25	25	18.17		5
	50	0	18.22		5

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Table 9-68
LTE Band 30 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) – 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.13	0	0
	1	12	23.19		0
	1	24	22.99		0
	12	0	22.32	0-1	1
	12	6	22.38		1
	12	13	22.28		1
	25	0	22.27		1
16QAM	1	0	22.38	0-1	1
	1	12	22.48		1
	1	24	22.28		1
	12	0	21.36	0-2	2
	12	6	21.42		2
	12	13	21.29		2
	25	0	21.28		2
64QAM	1	0	21.36	0-2	2
	1	12	21.42		2
	1	24	21.22		2
	12	0	20.31	0-3	3
	12	6	20.35		3
	12	13	20.22		3
	25	0	20.27		3
256QAM	1	0	18.51	0-5	5
	1	12	18.57		5
	1	24	18.40		5
	12	0	18.38		5
	12	6	18.45		5
	12	13	18.30		5
	25	0	18.33		5

Note: LTE Band 30 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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Table 9-69
LTE Band 30 Measured P_{limit} for DSI = 3 (Hotspot mode), or DSI = 1 (Phablet with grip sensor active)
and/or DSI = 4 (Earjack active) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.54	0	0
	1	25	19.47		0
	1	49	19.43		0
	25	0	19.50	0-1	0
	25	12	19.56		0
	25	25	19.34		0
	50	0	19.40		0
16QAM	1	0	19.69	0-1	0
	1	25	19.63		0
	1	49	19.63		0
	25	0	19.65	0-2	0
	25	12	19.62		0
	25	25	19.39		0
	50	0	19.29		0
64QAM	1	0	19.43	0-2	0
	1	25	19.75		0
	1	49	19.69		0
	25	0	19.66	0-3	0
	25	12	19.72		0
	25	25	19.43		0
	50	0	19.47		0
256QAM	1	0	18.17	0-5	1
	1	25	18.71		1
	1	49	18.20		1
	25	0	18.50		1
	25	12	18.71		1
	25	25	18.39		1
	50	0	18.43		1

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Table 9-70
LTE Band 30 Measured P_{limit} for DSI = 3 (Hotspot mode), or DSI = 1 (Phablet with grip sensor active)
and/or DSI = 4 (Earjack active) - 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.27	0	0
	1	12	19.32		0
	1	24	19.25		0
	12	0	19.49	0-1	0
	12	6	19.48		0
	12	13	19.35		0
	25	0	19.41		0
16QAM	1	0	19.66	0-1	0
	1	12	19.69		0
	1	24	19.55		0
	12	0	19.60	0-2	0
	12	6	19.66		0
	12	13	19.51		0
	25	0	19.50		0
64QAM	1	0	19.41	0-2	0
	1	12	19.47		0
	1	24	19.24		0
	12	0	19.57	0-3	0
	12	6	19.62		0
	12	13	19.50		0
	25	0	19.47		0
256QAM	1	0	18.25	0-5	1
	1	12	18.56		1
	1	24	18.46		1
	12	0	18.63		1
	12	6	18.47		1
	12	13	18.52		1
	25	0	18.39		1

Note: LTE Band 30 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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9.4.10

LTE Band 7

Table 9-71

LTE Band 7 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.64	23.66	23.71	0	0
	1	50	23.68	23.63	23.66		0
	1	99	23.72	23.73	23.57		0
	50	0	22.69	22.78	22.81	0-1	1
	50	25	22.87	22.91	22.86		1
	50	50	22.83	22.78	22.64		1
	100	0	22.80	22.82	22.72		1
16QAM	1	0	23.26	23.29	23.14	0-1	1
	1	50	23.41	23.30	22.73		1
	1	99	23.36	23.35	22.84		1
	50	0	21.72	21.78	21.84	0-2	2
	50	25	21.97	21.91	21.84		2
	50	50	21.82	21.82	21.64		2
	100	0	21.77	21.84	21.77		2
64QAM	1	0	22.18	22.28	22.34	0-2	2
	1	50	22.32	22.27	22.23		2
	1	99	22.29	22.32	22.18		2
	50	0	20.77	20.75	20.86	0-3	3
	50	25	20.93	20.92	20.90		3
	50	50	20.88	20.83	20.77		3
	100	0	20.83	20.85	20.80		3
256QAM	1	0	18.65	19.02	19.19	0-5	5
	1	50	19.16	19.08	18.98		5
	1	99	18.85	18.94	18.59		5
	50	0	18.69	18.77	18.83		5
	50	25	18.88	18.90	18.80		5
	50	50	18.84	18.80	18.86		5
	100	0	18.86	18.80	18.75		5

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Table 9-72
LTE Band 7 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.57	23.42	23.48	0	0
	1	36	23.63	23.52	23.53		0
	1	74	23.55	23.45	23.43		0
	36	0	22.56	22.53	22.67	0-1	1
	36	18	22.69	22.69	22.71		1
	36	37	22.65	22.62	22.64		1
	75	0	22.58	22.58	22.65		1
16QAM	1	0	22.58	22.31	22.81	0-1	1
	1	36	22.76	22.35	22.82		1
	1	74	22.76	22.30	22.77		1
	36	0	21.70	21.55	21.72	0-2	2
	36	18	21.78	21.73	21.76		2
	36	37	21.75	21.63	21.67		2
	75	0	21.60	21.65	21.71		2
64QAM	1	0	22.04	21.30	22.25	0-2	2
	1	36	22.11	21.50	22.28		2
	1	74	21.85	21.43	22.13		2
	36	0	20.65	20.68	20.83	0-3	3
	36	18	20.73	20.83	20.87		3
	36	37	20.69	20.76	20.76		3
	75	0	20.71	20.71	20.65		3
256QAM	1	0	18.27	18.82	19.06	0-5	5
	1	36	18.65	19.07	19.22		5
	1	74	18.52	18.96	18.98		5
	36	0	18.58	18.55	18.75		5
	36	18	18.67	18.73	18.80		5
	36	37	18.65	18.62	18.71		5
	75	0	18.67	18.65	18.70		5

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Table 9-73
LTE Band 7 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.50	23.56	23.56	0	0
	1	25	23.44	23.55	23.51		0
	1	49	23.45	23.59	23.60		0
	25	0	22.67	22.59	22.67	0-1	1
	25	12	22.68	22.68	22.65		1
	25	25	22.64	22.67	22.62		1
16QAM	50	0	22.64	22.62	22.65	0-1	1
	1	0	22.72	22.41	22.87		1
	1	25	22.77	22.38	22.86		1
	1	49	22.85	22.36	22.86	0-2	1
	25	0	21.72	21.68	21.75		2
	25	12	21.74	21.70	21.71		2
64QAM	25	25	21.69	21.73	21.73	0-2	2
	50	0	21.67	21.66	21.70		2
	1	0	21.57	21.37	22.30		0-2
	1	25	21.60	21.47	22.22	2	
	1	49	21.67	21.52	22.24	2	
	256QAM	25	0	20.77	20.74	20.74	0-3
25		12	20.88	20.78	20.76	3	
25		25	20.87	20.77	20.70	3	
50		0	20.69	20.71	20.64	0-5	3
1		0	18.65	18.91	19.03		5
1		25	18.75	19.07	19.16		5
1	49	18.53	18.85	18.93	5		
25	0	18.69	18.70	18.73	5		
25	12	18.77	18.80	18.81	5		
256QAM	25	25	18.68	18.70	18.72	0-5	5
	50	0	18.71	18.68	18.70		5

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Table 9-74
LTE Band 7 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 5 MHz Bandwidth

LTE Band 7							
5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.61	23.60	23.45	0	0
	1	12	23.59	23.68	23.48		0
	1	24	23.67	23.74	23.50		0
	12	0	22.68	22.66	22.61	0-1	1
	12	6	22.69	22.70	22.64		1
	12	13	22.66	22.66	22.56		1
16QAM	25	0	22.66	22.63	22.63		1
	1	0	22.72	22.86	22.75	0-1	1
	1	12	22.71	22.94	22.76		1
	1	24	22.74	22.95	22.76		1
	12	0	21.72	21.76	21.66	0-2	2
	12	6	21.75	21.81	21.68		2
12	13	21.73	21.73	21.67	2		
64QAM	25	0	21.69	21.69	21.63		2
	1	0	22.00	21.73	21.73	0-2	2
	1	12	21.97	21.79	21.72		2
	1	24	22.01	21.79	21.76		2
	12	0	20.75	20.71	20.60	0-3	3
	12	6	20.77	20.75	20.67		3
12	13	20.73	20.72	20.59	3		
256QAM	25	0	20.68	20.74	20.66		3
	1	0	18.96	18.77	18.85	0-5	5
	1	12	19.14	18.89	18.96		5
	1	24	18.97	18.80	18.79		5
	12	0	18.69	18.75	18.67		5
	12	6	18.75	18.79	18.77		5
12	13	18.70	18.74	18.67	5		
	25	0	18.57	18.69	18.68		5

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Table 9-75

LTE Band 7 Measured P_{limit} for DSI = 3 (Hotspot mode), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.24	19.12	19.41	0	0
	1	50	19.07	19.44	19.29		0
	1	99	19.10	19.31	19.06		0
	50	0	19.08	19.30	19.28	0-1	0
	50	25	19.24	19.42	19.33		0
	50	50	19.20	19.40	19.01		0
	100	0	19.19	19.35	19.16		0
16QAM	1	0	19.32	19.20	19.20	0-1	0
	1	50	19.35	19.36	19.59		0
	1	99	19.57	19.20	19.46		0
	50	0	19.59	19.30	19.38	0-2	0
	50	25	19.26	19.45	19.31		0
	50	50	19.19	19.30	19.14		0
	100	0	19.22	19.33	19.30		0
64QAM	1	0	19.33	19.49	19.36	0-2	0
	1	50	19.73	19.16	19.24		0
	1	99	19.31	19.23	19.63		0
	50	0	19.19	19.41	19.43	0-3	0
	50	25	19.30	19.21	19.35		0
	50	50	19.36	19.39	19.21		0
	100	0	19.19	19.04	19.18		0
256QAM	1	0	19.01	19.32	19.20	0-5	0.5
	1	50	19.01	19.11	19.13		0.5
	1	99	18.50	18.50	18.71		0.5
	50	0	18.60	19.18	18.74		0.5
	50	25	18.90	18.76	18.93		0.5
	50	50	18.67	18.87	18.72		0.5
	100	0	18.71	18.82	18.71		0.5

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Table 9-76

LTE Band 7 Measured P_{limit} for DSI = 3 (Hotspot mode), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.16	19.21	19.14	0	0
	1	36	19.27	19.44	19.38		0
	1	74	19.46	19.32	19.30		0
	36	0	19.48	19.44	19.54	0-1	0
	36	18	19.56	19.61	19.57		0
	36	37	19.51	19.53	19.49		0
	75	0	19.48	19.51	19.51		0
16QAM	1	0	19.62	19.87	19.48	0-1	0
	1	36	19.64	19.92	19.50		0
	1	74	19.46	19.80	19.47		0
	36	0	19.49	19.51	19.61	0-2	0
	36	18	19.58	19.63	19.67		0
	36	37	19.53	19.52	19.53		0
	75	0	19.45	19.54	19.53		0
64QAM	1	0	19.16	19.19	19.73	0-2	0
	1	36	19.32	19.28	19.80		0
	1	74	19.41	19.25	19.60		0
	36	0	19.56	19.58	19.69	0-3	0
	36	18	19.61	19.70	19.71		0
	36	37	19.60	19.62	19.63		0
	75	0	19.61	19.56	19.53		0
256QAM	1	0	19.01	19.01	18.75	0-5	0.5
	1	36	19.07	18.99	18.77		0.5
	1	74	19.03	19.00	18.79		0.5
	36	0	19.02	19.02	18.76		0.5
	36	18	19.01	19.01	18.78		0.5
	36	37	19.05	19.02	18.80		0.5
	75	0	19.03	19.00	18.74		0.5

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Table 9-77

LTE Band 7 Measured P_{limit} for DSI = 3 (Hotspot mode), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.11	19.19	19.22	0	0
	1	25	19.35	19.40	19.35		0
	1	49	19.24	19.46	19.41		0
	25	0	19.54	19.48	19.56	0-1	0
	25	12	19.58	19.57	19.56		0
	25	25	19.55	19.44	19.55		0
	50	0	19.50	19.51	19.48		0
16QAM	1	0	19.35	19.63	19.66	0-1	0
	1	25	19.25	19.42	19.53		0
	1	49	19.25	19.48	19.54		0
	25	0	19.50	19.61	19.58	0-2	0
	25	12	19.67	19.64	19.61		0
	25	25	19.66	19.65	19.51		0
	50	0	19.55	19.59	19.52		0
64QAM	1	0	19.61	19.32	19.62	0-2	0
	1	25	19.57	19.38	19.64		0
	1	49	19.64	19.40	19.54		0
	25	0	19.66	19.62	19.49	0-3	0
	25	12	19.56	19.64	19.60		0
	25	25	19.58	19.64	19.61		0
	50	0	19.50	19.65	19.56		0
256QAM	1	0	18.90	18.54	19.00	0-5	0.5
	1	25	18.88	18.59	19.04		0.5
	1	49	18.85	18.54	19.04		0.5
	25	0	18.88	18.52	19.05		0.5
	25	12	18.76	18.51	19.01		0.5
	25	25	18.79	18.66	19.02		0.5
	50	0	18.89	18.64	19.00		0.5

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Table 9-78

LTE Band 7 Measured P_{limit} for DSI = 3 (Hotspot mode), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.21	19.23	19.17	0	0
	1	12	19.41	19.30	19.35		0
	1	24	19.47	19.60	19.35		0
	12	0	19.55	19.56	19.52	0-1	0
	12	6	19.58	19.65	19.58		0
	12	13	19.51	19.60	19.50		0
	25	0	19.48	19.58	19.54		0
16QAM	1	0	19.60	19.57	19.50	0-1	0
	1	12	19.76	19.45	19.63		0
	1	24	19.59	19.32	19.62		0
	12	0	19.55	19.38	19.61	0-2	0
	12	6	19.52	19.41	19.68		0
	12	13	19.60	19.67	19.59		0
	25	0	19.54	19.67	19.62		0
64QAM	1	0	19.57	19.49	19.42	0-2	0
	1	12	19.66	19.56	19.33		0
	1	24	19.35	19.48	19.38		0
	12	0	19.67	19.64	19.34	0-3	0
	12	6	19.60	19.61	19.40		0
	12	13	19.54	19.60	19.56		0
	25	0	19.62	19.62	19.61		0
256QAM	1	0	18.86	18.78	18.70	0-5	0.5
	1	12	19.00	18.82	18.69		0.5
	1	24	19.06	18.76	18.71		0.5
	12	0	19.07	18.71	18.70		0.5
	12	6	19.09	18.56	18.71		0.5
	12	13	19.09	18.82	18.73		0.5
	25	0	18.91	18.74	18.72		0.5

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LTE Band 48

Table 9-79

LTE Band 48 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), or DSI = 4 (Earjack active) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	22.01	21.61	22.01	22.02	0	0
	1	50	22.16	21.67	22.15	22.05		0
	1	99	21.87	21.67	21.87	22.00		0
	50	0	22.16	21.85	22.19	22.03	0-1	0
	50	25	22.26	21.81	22.16	22.04		0
	50	50	22.21	21.62	22.25	22.01		0
	100	0	22.04	21.86	22.03	22.02		0
16QAM	1	0	21.99	21.77	21.99	21.85	0-1	0
	1	50	22.08	21.66	22.27	21.89		0
	1	99	22.11	21.67	22.28	22.06		0
	50	0	21.39	21.15	21.65	21.94	0-2	0.5
	50	25	21.42	21.12	21.74	21.43		0.5
	50	50	21.59	21.22	21.73	21.36		0.5
	100	0	21.70	21.01	21.64	21.41		0.5
64QAM	1	0	20.85	20.80	21.02	21.00	0-2	0.5
	1	50	20.77	20.94	20.91	21.13		0.5
	1	99	20.97	20.87	21.12	21.06		0.5
	50	0	20.61	20.34	20.64	20.52	0-3	1.5
	50	25	20.59	20.25	20.74	20.43		1.5
	50	50	20.51	20.03	20.59	20.31		1.5
	100	0	20.58	20.09	20.60	20.32		1.5
256QAM	1	0	18.26	18.04	18.24	18.22	0-5	3.5
	1	50	18.25	18.21	18.49	18.29		3.5
	1	99	18.51	18.16	18.40	18.30		3.5
	50	0	18.66	18.34	18.74	18.51		3.5
	50	25	18.44	18.25	18.84	18.47		3.5
	50	50	18.29	18.30	18.79	18.29		3.5
	100	0	18.42	18.17	18.69	18.34		3.5

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Table 9-80

LTE Band 48 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), or DSI = 4 (Earjack active) -
15 MHz Bandwidth

LTE Band 48 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55315 (3557.5 MHz)	55765 (3602.5 MHz)	56215 (3647.5 MHz)	56665 (3692.5 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	21.99	22.20	22.13	22.24	0	0
	1	36	22.24	22.25	22.30	22.33		0
	1	74	22.11	22.13	22.17	22.16		0
	36	0	22.19	22.34	22.30	22.42	0-1	0
	36	18	22.24	22.43	22.42	22.44		0
	36	37	22.15	22.32	22.40	22.39		0
	75	0	22.10	22.26	22.36	22.38		0
16QAM	1	0	22.02	22.22	22.37	22.48	0-1	0
	1	36	22.25	22.30	22.58	22.58		0
	1	74	22.14	22.16	22.41	22.38		0
	36	0	21.81	21.94	21.96	21.87	0-2	0.5
	36	18	21.87	22.00	22.03	22.07		0.5
	36	37	21.76	21.92	22.03	21.98		0.5
	75	0	21.72	21.82	21.99	22.01		0.5
64QAM	1	0	21.62	21.80	21.92	22.04	0-2	0.5
	1	36	21.86	21.84	22.15	22.15		0.5
	1	74	21.67	21.68	21.93	21.95		0.5
	36	0	20.84	20.97	20.96	21.04	0-3	1.5
	36	18	20.94	20.98	21.06	21.10		1.5
	36	37	20.81	20.89	21.07	21.03		1.5
	75	0	20.76	20.85	21.03	21.05		1.5
256QAM	1	0	18.16	18.31	18.89	19.03	0-5	3.5
	1	36	18.34	18.37	19.06	19.10		3.5
	1	74	18.21	18.20	18.88	18.95		3.5
	36	0	18.87	18.96	18.94	19.01		3.5
	36	18	18.97	19.01	19.03	19.05		3.5
	36	37	18.79	18.88	19.02	18.98		3.5
	75	0	18.77	18.86	18.99	19.00		3.5

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Table 9-81

LTE Band 48 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), or DSI = 4 (Earjack active) -
10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55290 (3555.0 MHz)	55757 (3601.7 MHz)	56223 (3648.3 MHz)	56690 (3695.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	21.98	21.91	22.23	22.44	0	0
	1	25	22.31	22.26	22.61	22.63		0
	1	49	22.11	22.07	22.47	22.55		0
	25	0	22.18	22.18	22.54	22.64	0-1	0
	25	12	22.23	22.34	22.69	22.74		0
	25	25	22.19	22.21	22.62	22.67		0
	50	0	22.15	22.26	22.60	22.64		0
16QAM	1	0	22.10	21.77	22.37	22.42	0-1	0
	1	25	22.45	22.16	22.59	22.62		0
	1	49	22.22	21.96	22.57	22.51		0
	25	0	21.85	21.78	22.16	22.24	0-2	0.5
	25	12	21.92	21.93	22.36	22.36		0.5
	25	25	21.85	21.80	22.31	22.31		0.5
	50	0	21.86	21.89	22.29	22.24		0.5
64QAM	1	0	21.70	21.70	22.05	22.05	0-2	0.5
	1	25	22.03	22.07	22.42	22.39		0.5
	1	49	21.77	21.84	22.23	22.17		0.5
	25	0	20.75	20.86	21.09	21.20	0-3	1.5
	25	12	20.87	21.00	21.25	21.32		1.5
	25	25	20.81	20.90	21.22	21.25		1.5
	50	0	20.81	20.94	21.22	21.29		1.5
256QAM	1	0	18.47	18.68	18.83	18.51	0-5	3.5
	1	25	18.76	19.06	19.15	18.77		3.5
	1	49	18.55	18.82	18.99	18.58		3.5
	25	0	18.82	18.76	19.19	19.17		3.5
	25	12	18.88	18.92	19.34	19.31		3.5
	25	25	18.81	18.80	19.33	19.25		3.5
	50	0	18.77	18.89	19.31	19.20		3.5

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Table 9-82

LTE Band 48 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), or DSI = 4 (Earjack active) -
5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55265 (3552.5 MHz)	55748 (3600.8 MHz)	56232 (3649.2 MHz)	56715 (3697.5 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	22.26	22.10	22.32	22.41	0	0
	1	12	22.33	22.20	22.51	22.48		0
	1	24	22.33	22.16	22.44	22.49		0
	12	0	22.34	22.20	22.50	22.55	0-1	0
	12	6	22.45	22.23	22.57	22.58		0
	12	13	22.39	22.25	22.60	22.61		0
16QAM	25	0	22.37	22.22	22.56	22.56	0	
	1	0	22.12	22.05	22.42	22.35	0-1	0
	1	12	22.22	22.17	22.58	22.43		0
	1	24	22.26	22.13	22.54	22.46		0
	12	0	21.93	21.88	22.14	22.16	0-2	0.5
	12	6	22.05	21.92	22.18	22.22		0.5
	12	13	22.07	21.90	22.21	22.20		0.5
25	0	21.96	21.84	22.22	22.12	0.5		
64QAM	1	0	22.02	21.99	22.24	22.27	0-2	0.5
	1	12	22.15	22.14	22.36	22.37		0.5
	1	24	22.16	22.05	22.32	22.35		0.5
	12	0	20.95	20.95	21.16	21.15	0-3	1.5
	12	6	21.07	21.00	21.30	21.21		1.5
	12	13	21.03	20.94	21.25	21.22		1.5
	25	0	20.96	20.87	21.17	21.15		1.5
256QAM	1	0	19.12	19.09	19.10	19.35	0-5	3.5
	1	12	19.20	19.18	19.26	19.41		3.5
	1	24	19.23	19.17	19.22	19.42		3.5
	12	0	18.88	18.83	19.06	19.09		3.5
	12	6	18.95	18.87	19.15	19.18		3.5
	12	13	18.91	18.87	19.13	19.12		3.5
	25	0	18.86	18.78	19.12	19.06		3.5

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Table 9-83
LTE Band 48 Measured P_{limit} for DSI = 2 (Head) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	17.15	17.29	16.90	16.80	0	0
	1	50	17.44	17.30	17.27	17.06		0
	1	99	17.25	17.27	16.91	16.70		0
	50	0	17.40	17.29	17.16	17.03	0-1	0
	50	25	17.50	17.25	17.26	17.06		0
	50	50	17.43	17.28	17.27	17.04		0
	100	0	17.43	17.29	17.17	17.05		0
16QAM	1	0	17.02	17.28	17.06	16.71	0-1	0
	1	50	17.31	17.27	17.36	16.94		0
	1	99	17.07	17.26	17.12	16.57		0
	50	0	17.28	17.27	17.24	17.04	0-2	0
	50	25	17.36	17.28	17.30	17.07		0
	50	50	17.24	17.27	17.29	17.01		0
	100	0	17.35	17.28	17.21	17.05		0
64QAM	1	0	16.64	17.27	16.94	17.03	0-2	0
	1	50	16.94	17.27	17.34	17.34		0
	1	99	16.66	17.28	16.96	17.05		0
	50	0	17.31	17.29	17.23	17.11	0-3	0
	50	25	17.43	17.28	17.33	17.12		0
	50	50	17.28	17.27	17.32	17.10		0
	100	0	17.35	17.27	17.25	17.03		0
256QAM	1	0	17.14	17.15	17.08	16.87	0-5	0
	1	50	17.43	17.27	17.45	17.14		0
	1	99	17.18	16.86	17.13	16.81		0
	50	0	17.32	17.27	17.20	17.07		0
	50	25	17.42	17.28	17.33	17.11		0
	50	50	17.29	17.11	17.29	17.08		0
	100	0	17.35	17.14	17.23	17.01		0

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Table 9-84
LTE Band 48 Measured P_{limit} for DSI = 2 (Head) - 15 MHz Bandwidth

LTE Band 48 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55315 (3557.5 MHz)	55765 (3602.5 MHz)	56215 (3647.5 MHz)	56665 (3692.5 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	16.92	17.03	17.02	17.10	0	0
	1	36	17.21	17.17	17.31	17.25		0
	1	74	17.02	17.04	17.08	17.00		0
	36	0	17.22	17.21	17.32	17.28	0-1	0
	36	18	17.24	17.22	17.40	17.38		0
	36	37	17.16	17.16	17.42	17.31		0
	75	0	17.13	17.10	17.29	17.22		0
16QAM	1	0	17.04	17.17	17.63	17.24	0-1	0
	1	36	17.32	17.23	17.91	17.43		0
	1	74	17.16	17.03	17.72	17.09		0
	36	0	17.26	17.33	17.29	17.38	0-2	0
	36	18	17.28	17.29	17.39	17.51		0
	36	37	17.24	17.23	17.43	17.36		0
	75	0	17.13	17.14	17.33	17.28		0
64QAM	1	0	17.23	16.90	17.26	17.40	0-2	0
	1	36	17.51	17.02	17.53	17.56		0
	1	74	17.24	16.78	17.40	17.35		0
	36	0	17.27	17.28	17.27	17.37	0-3	0
	36	18	17.32	17.27	17.41	17.52		0
	36	37	17.21	17.22	17.47	17.38		0
	75	0	17.16	17.22	17.38	17.31		0
256QAM	1	0	17.38	16.70	17.34	17.61	0-5	0
	1	36	17.69	16.84	17.65	17.78		0
	1	74	17.39	16.58	17.45	17.55		0
	36	0	17.19	17.28	17.33	17.34		0
	36	18	17.23	17.25	17.41	17.47		0
	36	37	17.15	17.17	17.43	17.38		0
	75	0	17.12	17.20	17.31	17.31		0

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Table 9-85
LTE Band 48 Measured P_{limit} for DSI = 2 (Head) - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55290 (3555.0 MHz)	55757 (3601.7 MHz)	56223 (3648.3 MHz)	56690 (3695.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	16.83	16.84	16.95	17.10	0	0
	1	25	17.16	17.14	17.33	17.27		0
	1	49	16.95	16.99	17.14	17.06		0
	25	0	17.09	17.14	17.24	17.30	0-1	0
	25	12	17.24	17.29	17.47	17.39		0
	25	25	17.07	17.15	17.41	17.33		0
	50	0	17.05	17.21	17.31	17.31		0
16QAM	1	0	16.88	16.97	17.52	16.99	0-1	0
	1	25	17.05	17.30	17.81	17.27		0
	1	49	16.80	17.09	17.73	17.03		0
	25	0	17.08	17.15	17.37	17.32	0-2	0
	25	12	17.28	17.29	17.55	17.47		0
	25	25	17.13	17.19	17.54	17.36		0
	50	0	17.13	17.23	17.33	17.35		0
64QAM	1	0	17.29	16.74	17.14	17.53	0-2	0
	1	25	17.64	17.09	17.57	17.85		0
	1	49	17.47	16.89	17.43	17.65		0
	25	0	17.07	17.21	17.31	17.27	0-3	0
	25	12	17.20	17.36	17.45	17.41		0
	25	25	17.08	17.21	17.44	17.34		0
	50	0	17.05	17.24	17.36	17.31		0
256QAM	1	0	16.79	16.58	17.24	16.99	0-5	0
	1	25	17.14	16.84	17.58	17.23		0
	1	49	16.93	16.66	17.46	17.16		0
	25	0	17.08	17.16	17.19	17.31		0
	25	12	17.21	17.33	17.44	17.42		0
	25	25	17.13	17.21	17.34	17.34		0
	50	0	17.07	17.26	17.33	17.36		0

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Table 9-86
LTE Band 48 Measured P_{limit} for DSI = 2 (Head) - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55265 (3552.5 MHz)	55748 (3600.8 MHz)	56232 (3649.2 MHz)	56715 (3697.5 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	17.17	17.08	17.22	17.40	0	0
	1	12	17.14	17.11	17.46	17.36		0
	1	24	17.24	17.15	17.30	17.48		0
	12	0	17.15	17.23	17.40	17.39	0-1	0
	12	6	17.23	17.28	17.46	17.49		0
	12	13	17.22	17.33	17.47	17.41		0
	25	0	17.19	17.27	17.43	17.40		0
16QAM	1	0	17.49	17.41	17.36	17.73	0-1	0
	1	12	17.55	17.44	17.46	17.72		0
	1	24	17.60	17.50	17.43	17.78		0
	12	0	17.15	17.25	17.51	17.43	0-2	0
	12	6	17.24	17.37	17.61	17.49		0
	12	13	17.27	17.34	17.57	17.46		0
	25	0	17.19	17.26	17.55	17.38		0
64QAM	1	0	17.14	17.19	17.50	17.39	0-2	0
	1	12	17.17	17.24	17.57	17.41		0
	1	24	17.29	17.28	17.55	17.45		0
	12	0	17.24	17.27	17.44	17.44	0-3	0
	12	6	17.29	17.34	17.50	17.53		0
	12	13	17.31	17.37	17.51	17.52		0
	25	0	17.23	17.31	17.50	17.47		0
256QAM	1	0	17.57	17.26	17.49	17.36	0-5	0
	1	12	17.62	16.95	17.49	17.82		0
	1	24	17.62	16.88	17.48	17.86		0
	12	0	17.04	17.23	17.32	17.31		0
	12	6	17.13	17.30	17.40	17.37		0
	12	13	17.10	17.31	17.39	17.35		0
	25	0	17.14	17.28	17.47	17.34		0

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LTE Band 41

Table 9-87

LTE Band 41 PC3 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.14	24.17	23.90	23.93	23.86	0	0
	1	50	24.13	24.16	24.24	24.13	24.21		0
	1	99	24.14	24.07	24.10	23.75	24.10		0
	50	0	23.16	23.11	23.18	23.20	23.10	0-1	1
	50	25	23.21	23.11	23.34	23.33	23.18		1
	50	50	23.18	23.14	23.31	23.14	23.30		1
16QAM	100	0	23.19	23.20	23.22	23.23	23.22	0-1	1
	1	0	23.15	23.06	22.88	22.94	22.84		1
	1	50	23.10	23.10	23.21	23.14	23.23		1
	1	99	23.16	23.07	22.95	22.71	23.17	0-2	1
	50	0	22.20	22.11	22.21	22.24	22.10		2
	50	25	22.29	22.24	22.26	22.36	22.31		2
64QAM	50	50	22.14	22.21	22.31	22.16	22.31	0-2	2
	100	0	22.26	22.20	22.27	22.24	22.23		2
	1	0	22.01	21.93	21.54	21.72	21.59		0-2
	1	50	21.94	21.88	22.02	21.96	22.01	2	
	1	99	22.00	21.91	21.79	21.54	21.95	2	
	256QAM	50	0	21.18	21.18	21.23	21.27	21.20	0-3
50		25	21.33	21.27	21.36	21.36	21.33	3	
50		50	21.21	21.08	21.32	21.19	21.38	3	
100		0	21.25	21.20	21.23	21.19	21.20	0-5	3
1		0	18.73	18.70	18.84	18.86	18.75		5
1	50	19.02	18.96	19.17	19.09	19.20	5		
256QAM	1	99	18.84	18.69	18.93	18.71	19.02	0-5	5
	50	0	19.22	19.21	19.30	19.24	19.19		5
	50	25	19.30	19.32	19.40	19.36	19.38		5
	50	50	19.29	19.12	19.38	19.19	19.39		5
	100	0	19.18	19.19	19.24	19.20	19.20		5

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Table 9-88

LTE Band 41 PC3 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.12	23.96	24.05	24.06	24.00	0	0
	1	36	24.14	24.18	24.36	24.27	24.35		0
	1	74	24.04	23.94	24.13	23.94	24.25		0
	36	0	23.13	23.08	23.23	23.25	23.23	0-1	1
	36	18	23.25	23.24	23.35	23.37	23.37		1
	36	37	23.16	23.16	23.38	23.30	23.43		1
	75	0	23.15	23.14	23.27	23.31	23.26		1
16QAM	1	0	23.01	23.02	22.97	23.31	22.89	0-1	1
	1	36	23.08	23.31	23.24	23.47	23.24		1
	1	74	23.00	23.10	23.05	23.21	23.14		1
	36	0	22.23	22.15	22.30	22.21	22.27	0-2	2
	36	18	22.31	22.30	22.43	22.33	22.41		2
	36	37	22.26	22.21	22.47	22.25	22.46		2
	75	0	22.16	22.16	22.27	22.26	22.25		2
64QAM	1	0	21.96	21.59	21.73	22.03	21.69	0-2	2
	1	36	21.98	21.89	22.05	22.25	21.99		2
	1	74	21.95	21.66	21.88	21.95	21.93		2
	36	0	21.27	21.12	21.26	21.13	21.22	0-3	3
	36	18	21.38	21.23	21.38	21.28	21.36		3
	36	37	21.36	21.15	21.39	21.16	21.40		3
	75	0	21.27	21.14	21.24	21.28	21.27		3
256QAM	1	0	19.10	19.15	19.08	19.01	18.99	0-5	5
	1	36	19.32	19.47	19.38	19.28	19.36		5
	1	74	19.15	19.22	19.18	19.00	19.28		5
	36	0	19.19	19.08	19.20	19.20	19.14		5
	36	18	19.30	19.27	19.33	19.31	19.30		5
	36	37	19.26	19.13	19.36	19.20	19.34		5
	75	0	19.26	19.17	19.24	19.27	19.20		5

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Table 9-89

LTE Band 41 PC3 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.43	23.81	24.33	24.11	23.73	0	0
	1	25	24.43	24.35	24.56	24.36	24.53		0
	1	49	24.40	24.12	24.32	24.09	24.26		0
	25	0	23.44	23.27	23.42	23.31	23.36	0-1	1
	25	12	23.46	23.40	23.49	23.49	23.41		1
	25	25	23.43	23.33	23.46	23.39	23.36		1
	50	0	23.38	23.33	23.39	23.44	23.28		1
16QAM	1	0	23.57	23.16	23.30	22.93	23.34	0-1	1
	1	25	23.51	23.41	23.58	23.17	23.57		1
	1	49	23.56	23.27	23.36	22.90	23.41		1
	25	0	22.37	22.12	22.30	22.28	22.27	0-2	2
	25	12	22.37	22.25	22.36	22.44	22.30		2
	25	25	22.33	22.21	22.34	22.35	22.33		2
	50	0	22.33	22.22	22.29	22.33	22.28		2
64QAM	1	0	22.25	22.02	22.04	21.92	22.02	0-2	2
	1	25	22.29	21.97	22.39	22.22	22.30		2
	1	49	22.26	22.00	22.13	21.98	22.04		2
	25	0	21.34	21.24	21.31	21.19	21.24	0-3	3
	25	12	21.41	21.41	21.41	21.29	21.34		3
	25	25	21.36	21.29	21.37	21.23	21.28		3
	50	0	21.26	21.28	21.29	21.32	21.21		3
256QAM	1	0	19.14	19.41	19.25	19.03	19.14	0-5	5
	1	25	19.40	19.78	19.53	19.31	19.43		5
	1	49	19.19	19.47	19.30	19.10	19.19		5
	25	0	19.21	19.19	19.27	19.17	19.23		5
	25	12	19.31	19.36	19.29	19.34	19.30		5
	25	25	19.20	19.23	19.35	19.21	19.28		5
	50	0	19.23	19.27	19.30	19.26	19.20		5

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Table 9-90

LTE Band 41 PC3 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.30	23.81	24.33	24.20	23.82	0	0
	1	12	24.19	24.21	24.23	24.19	24.31		0
	1	24	24.27	24.18	24.35	24.18	24.32		0
	12	0	23.28	23.26	23.26	23.31	23.31	0-1	1
	12	6	23.29	23.28	23.29	23.31	23.28		1
	12	13	23.26	23.22	23.33	23.27	23.33		1
	25	0	23.26	23.23	23.31	23.31	23.29		1
16QAM	1	0	23.36	22.80	23.43	23.03	22.80	0-1	1
	1	12	23.39	23.04	23.49	22.99	23.47		1
	1	24	23.37	23.01	23.44	23.00	23.41		1
	12	0	22.45	22.36	22.48	22.47	22.46	0-2	2
	12	6	22.48	22.39	22.49	22.47	22.48		2
	12	13	22.44	22.35	22.49	22.44	22.47		2
	25	0	22.29	22.27	22.33	22.40	22.30		2
64QAM	1	0	22.35	21.73	22.36	22.24	21.79	0-2	2
	1	12	22.32	22.57	22.45	22.32	22.46		2
	1	24	22.34	22.60	22.37	22.24	22.34		2
	12	0	21.34	21.32	21.33	21.47	21.30	0-3	3
	12	6	21.36	21.33	21.34	21.47	21.29		3
	12	13	21.34	21.32	21.39	21.37	21.33		3
	25	0	21.29	21.20	21.30	21.30	21.29		3
256QAM	1	0	19.58	19.22	19.68	19.42	19.27	0-5	5
	1	12	19.55	19.11	19.63	19.44	19.60		5
	1	24	19.54	19.14	19.66	19.41	19.63		5
	12	0	19.22	19.19	19.17	19.30	19.22		5
	12	6	19.24	19.24	19.32	19.32	19.22		5
	12	13	19.17	19.19	19.32	19.27	19.26		5
	25	0	19.24	19.22	19.29	19.30	19.29		5

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Table 9-91
LTE Band 41 PC2 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	27.54	27.49	27.03	27.01	26.90	0	0
	1	50	27.46	27.53	27.40	27.21	27.29		0
	1	99	27.34	27.44	27.03	26.78	27.18		0
	50	0	26.46	26.41	26.16	26.20	26.14	0-1	1
	50	25	26.58	26.57	26.34	26.31	26.32		1
	50	50	26.49	26.39	26.29	26.16	26.34		1
	100	0	26.41	26.47	26.23	26.23	26.21		1

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Table 9-92
LTE Band 41 PC3 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	21.05	20.99	20.85	20.88	20.95	0	0
	1	50	20.98	21.13	21.32	21.06	21.03		0
	1	99	20.91	21.04	21.01	20.54	20.62		0
	50	0	20.97	21.00	21.12	21.07	21.01	0-1	0
	50	25	21.07	21.13	21.25	21.18	21.12		0
	50	50	21.03	20.97	21.24	21.03	20.96		0
	100	0	21.02	21.07	21.10	21.12	21.06		0
16QAM	1	0	21.04	21.03	20.79	20.83	20.89	0-1	0
	1	50	21.02	21.08	21.09	21.05	21.00		0
	1	99	21.00	21.00	20.89	20.66	20.59		0
	50	0	21.05	20.97	21.16	21.09	21.03	0-2	0
	50	25	21.13	21.16	21.24	21.24	21.17		0
	50	50	21.04	21.05	21.22	21.09	21.06		0
	100	0	21.08	21.07	21.28	21.16	21.13		0
64QAM	1	0	20.87	20.83	20.47	20.65	20.59	0-2	0
	1	50	20.82	20.81	20.87	20.63	20.88		0
	1	99	20.81	20.86	20.62	20.40	20.39		0
	50	0	21.09	21.04	21.14	21.10	21.08	0-3	0
	50	25	21.25	21.17	21.26	21.22	21.23		0
	50	50	21.10	21.11	21.26	21.07	21.04		0
	100	0	21.08	21.13	21.17	21.18	21.11		0
256QAM	1	0	18.66	18.65	18.67	18.70	18.75	0-5	2
	1	50	18.88	19.03	19.09	18.95	18.94		2
	1	99	18.70	18.58	18.79	18.58	18.56		2
	50	0	19.05	19.02	19.11	19.23	19.25		2
	50	25	19.18	19.18	19.22	19.27	19.08		2
	50	50	19.10	19.10	19.24	19.13	19.11		2
	100	0	18.98	19.01	19.12	19.15	19.08		2

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Table 9-93
LTE Band 41 PC3 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	21.12	20.85	21.00	21.05	21.00	0	0
	1	36	21.16	21.09	21.25	21.23	21.30		0
	1	74	21.03	20.84	21.01	20.91	21.17		0
	36	0	21.13	21.02	21.20	21.21	21.14	0-1	0
	36	18	21.23	21.20	21.32	21.30	21.26		0
	36	37	21.16	21.08	21.32	21.23	21.31		0
	75	0	21.14	21.08	21.21	21.23	21.13		0
16QAM	1	0	20.79	20.56	21.02	20.72	20.85	0-1	0
	1	36	20.80	20.81	21.34	20.92	21.18		0
	1	74	20.76	20.86	21.11	20.98	21.08		0
	36	0	21.25	21.09	21.20	21.27	21.13	0-2	0
	36	18	21.31	21.24	21.26	21.37	21.27		0
	36	37	21.17	21.15	21.30	21.27	21.31		0
	75	0	21.20	21.05	21.19	21.19	21.15		0
64QAM	1	0	21.18	21.08	20.96	20.99	20.89	0-2	0
	1	36	21.19	20.83	21.25	20.90	21.16		0
	1	74	21.12	20.97	21.01	20.89	21.05		0
	36	0	21.13	21.07	21.25	21.29	21.10	0-3	0
	36	18	21.22	21.23	21.33	21.39	21.25		0
	36	37	21.17	21.15	21.32	21.27	21.32		0
	75	0	21.21	21.04	21.22	21.20	21.17		0
256QAM	1	0	19.22	18.61	19.05	18.80	18.91	0-5	2
	1	36	19.27	18.87	19.30	18.98	19.24		2
	1	74	19.16	18.57	19.10	19.01	19.11		2
	36	0	19.19	19.15	19.27	19.33	19.18		2
	36	18	19.32	19.30	19.41	19.46	19.31		2
	36	37	19.25	19.23	19.42	19.34	19.34		2
	75	0	19.28	19.13	19.29	19.26	19.21		2

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Table 9-94
LTE Band 41 PC3 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	21.24	20.93	21.09	21.04	21.01	0	0
	1	25	21.19	21.31	21.33	21.22	21.25		0
	1	49	21.21	20.94	21.06	21.01	20.96		0
	25	0	21.19	21.14	21.30	21.18	21.15	0-1	0
	25	12	21.19	21.27	21.36	21.31	21.21		0
	25	25	21.17	21.19	21.30	21.22	21.15		0
	50	0	21.12	21.15	21.24	21.25	21.11		0
16QAM	1	0	21.29	21.23	21.04	20.83	20.90	0-1	0
	1	25	21.23	21.24	21.33	21.08	21.12		0
	1	49	21.41	21.29	21.08	20.74	20.78		0
	25	0	21.26	21.14	21.19	21.07	21.07	0-2	0
	25	12	21.30	21.32	21.24	21.22	21.13		0
	25	25	21.23	21.18	21.23	21.08	21.06		0
	50	0	21.11	21.17	21.21	21.24	21.15		0
64QAM	1	0	21.45	21.21	21.10	20.83	20.86	0-2	0
	1	25	21.42	21.29	21.33	21.07	21.12		0
	1	49	21.45	21.22	21.07	20.80	20.78		0
	25	0	21.27	21.15	21.21	21.19	21.06	0-3	0
	25	12	21.28	21.29	21.25	21.35	21.13		0
	25	25	21.24	21.21	21.22	21.24	21.06		0
	50	0	21.14	21.19	21.18	21.23	21.15		0
256QAM	1	0	19.28	19.01	18.84	19.12	18.60	0-5	2
	1	25	19.19	19.24	19.11	19.31	18.88		2
	1	49	19.25	19.06	18.88	19.08	18.52		2
	25	0	19.04	18.93	19.00	19.01	18.86		2
	25	12	19.08	19.09	19.03	19.18	18.92		2
	25	25	19.03	18.99	18.99	19.04	18.92		2
	50	0	18.93	18.96	18.99	19.02	18.97		2

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Table 9-95
LTE Band 41 PC3 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	21.13	21.07	21.07	21.20	21.10	0	0
	1	12	20.98	21.03	21.14	21.15	21.14		0
	1	24	21.13	21.09	21.10	21.15	21.15		0
	12	0	21.12	21.07	21.20	21.22	21.11	0-1	0
	12	6	21.13	21.11	21.22	21.24	21.15		0
	12	13	21.09	21.07	21.27	21.19	21.15		0
	25	0	21.08	21.11	21.24	21.18	21.10		0
16QAM	1	0	21.30	21.33	20.81	21.24	21.28	0-1	0
	1	12	20.66	21.35	20.84	21.08	21.40		0
	1	24	20.72	21.25	20.86	21.13	21.41		0
	12	0	21.11	21.10	21.16	21.20	21.14	0-2	0
	12	6	21.12	21.08	21.16	21.23	21.15		0
	12	13	21.05	21.10	21.26	21.19	21.21		0
	25	0	21.12	21.08	21.19	21.17	21.09		0
64QAM	1	0	20.73	21.31	20.87	21.16	21.42	0-2	0
	1	12	20.69	21.36	20.92	21.08	21.50		0
	1	24	20.77	21.30	20.89	21.08	21.43		0
	12	0	21.09	21.08	21.17	21.35	21.17	0-3	0
	12	6	21.10	21.11	21.19	21.35	21.17		0
	12	13	21.07	21.09	21.21	21.33	21.19		0
	25	0	21.13	21.09	21.24	21.19	21.00		0
256QAM	1	0	18.89	19.25	18.81	18.92	19.36	0-5	2
	1	12	18.80	19.24	18.90	18.88	19.20		2
	1	24	18.71	19.30	18.91	18.87	19.11		2
	12	0	19.09	19.06	19.18	18.90	19.10		2
	12	6	19.08	19.13	19.14	19.01	19.37		2
	12	13	19.07	19.06	19.20	18.86	19.05		2
	25	0	19.11	19.07	19.23	19.05	19.09		2

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Table 9-96
LTE Band 41 PC2 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	22.63	22.58	22.40	22.45	22.24	0	0
	1	50	22.59	22.66	22.75	22.64	22.67		0
	1	99	22.53	22.63	22.44	22.20	22.57		0
	50	0	22.56	22.52	22.63	22.61	22.45	0-1	0
	50	25	22.64	22.66	22.75	22.73	22.56		0
	50	50	22.50	22.54	22.71	22.57	22.70		0
	100	0	22.56	22.55	22.61	22.69	22.56		0

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Table 9-97
LTE Band 41 PC3 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	22.10	22.23	22.00	22.09	21.85	0	0
	1	50	21.89	22.24	22.34	22.14	22.21		0
	1	99	21.98	22.14	22.04	21.81	22.14		0
	50	0	22.14	22.05	22.24	22.18	22.14	0-1	0
	50	25	22.20	22.27	22.35	22.34	22.25		0
	50	50	22.12	22.10	22.26	22.19	22.24		0
	100	0	22.09	22.11	22.22	22.28	22.19		0
16QAM	1	0	22.51	21.90	22.22	22.14	22.12	0-1	0
	1	50	22.52	21.91	22.60	22.45	22.51		0
	1	99	22.43	21.86	22.33	21.94	22.35		0
	50	0	22.40	22.24	22.46	22.38	22.30	0-2	0
	50	25	22.49	22.39	22.61	22.50	22.44		0
	50	50	22.44	22.28	22.58	22.36	22.48		0
	100	0	22.34	22.38	22.42	22.37	22.29		0
64QAM	1	0	22.41	22.35	21.88	22.20	21.76	0-2	0
	1	50	22.35	22.42	22.44	22.56	22.27		0
	1	99	22.34	22.37	22.16	22.07	22.06		0
	50	0	21.46	21.41	21.46	21.47	21.34	0-3	1
	50	25	21.58	21.57	21.63	21.60	21.49		1
	50	50	21.52	21.45	21.61	21.44	21.51		1
	100	0	21.56	21.43	21.55	21.49	21.43		1
256QAM	1	0	19.35	19.20	19.34	19.33	19.27	0-5	3
	1	50	19.72	19.53	19.83	19.57	19.76		3
	1	99	19.44	19.22	19.48	19.09	19.52		3
	50	0	19.54	19.34	19.56	19.53	19.41		3
	50	25	19.66	19.49	19.68	19.64	19.60		3
	50	50	19.56	19.36	19.66	19.48	19.62		3
	100	0	19.50	19.36	19.52	19.51	19.45		3

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Table 9-98
LTE Band 41 PC3 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	22.35	22.11	22.13	22.20	22.07	0	0
	1	36	22.37	22.37	22.48	22.39	22.36		0
	1	74	22.35	22.08	22.24	22.07	22.28		0
	36	0	22.40	22.24	22.36	22.37	22.26	0-1	0
	36	18	22.46	22.42	22.46	22.47	22.42		0
	36	37	22.44	22.32	22.52	22.37	22.44		0
	75	0	22.37	22.28	22.37	22.37	22.28		0
16QAM	1	0	22.49	22.08	22.36	22.49	22.22	0-1	0
	1	36	22.46	22.27	22.59	22.73	22.51		0
	1	74	22.41	22.01	22.43	22.38	22.36		0
	36	0	22.44	22.34	22.46	22.39	22.37	0-2	0
	36	18	22.55	22.49	22.56	22.46	22.47		0
	36	37	22.50	22.39	22.59	22.36	22.52		0
	75	0	22.39	22.33	22.38	22.38	22.28		0
64QAM	1	0	22.60	21.86	22.32	22.10	22.23	0-2	0
	1	36	22.61	22.10	22.68	22.31	22.57		0
	1	74	22.55	21.89	22.46	21.99	22.49		0
	36	0	21.52	21.35	21.57	21.46	21.45	0-3	1
	36	18	21.62	21.47	21.67	21.55	21.60		1
	36	37	21.58	21.39	21.68	21.46	21.66		1
	75	0	21.51	21.43	21.57	21.50	21.50		1
256QAM	1	0	19.85	18.78	19.86	19.41	19.72	0-5	3
	1	36	19.87	19.09	19.76	19.62	19.86		3
	1	74	19.87	18.83	19.94	19.32	20.00		3
	36	0	19.54	19.35	19.50	19.43	19.39		3
	36	18	19.60	19.56	19.59	19.56	19.53		3
	36	37	19.57	19.45	19.63	19.49	19.57		3
	75	0	19.53	19.49	19.52	19.51	19.41		3

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Table 9-99
LTE Band 41 PC3 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	22.54	22.17	22.36	22.12	22.34	0	0
	1	25	22.52	22.42	22.63	22.38	22.57		0
	1	49	22.52	22.21	22.36	22.13	22.34		0
	25	0	22.50	22.33	22.49	22.36	22.39	0-1	0
	25	12	22.48	22.50	22.56	22.53	22.45		0
	25	25	22.48	22.39	22.48	22.37	22.41		0
	50	0	22.43	22.42	22.46	22.41	22.34		0
16QAM	1	0	22.62	22.03	22.47	22.46	22.41	0-1	0
	1	25	22.59	22.30	22.73	22.71	22.55		0
	1	49	22.51	22.00	22.48	22.50	22.38		0
	25	0	22.56	22.30	22.44	22.40	22.41	0-2	0
	25	12	22.52	22.46	22.55	22.56	22.45		0
	25	25	22.55	22.33	22.54	22.49	22.42		0
	50	0	22.43	22.36	22.47	22.47	22.35		0
64QAM	1	0	22.58	21.99	22.61	22.09	22.55	0-2	0
	1	25	22.55	22.30	22.59	22.39	22.57		0
	1	49	22.56	22.07	22.68	22.14	22.54		0
	25	0	21.58	21.42	21.53	21.52	21.40	0-3	1
	25	12	21.60	21.64	21.63	21.63	21.47		1
	25	25	21.53	21.53	21.55	21.54	21.44		1
	50	0	21.51	21.54	21.55	21.57	21.38		1
256QAM	1	0	19.22	18.98	19.29	19.44	19.17	0-5	3
	1	25	19.39	19.10	19.55	19.72	19.37		3
	1	49	19.15	19.01	19.36	19.46	19.10		3
	25	0	19.53	19.42	19.57	19.44	19.49		3
	25	12	19.61	19.63	19.63	19.66	19.51		3
	25	25	19.44	19.48	19.61	19.53	19.51		3
	50	0	19.54	19.53	19.58	19.60	19.47		3

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Table 9-100
LTE Band 41 PC3 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	22.51	22.36	22.40	22.53	22.24	0	0
	1	12	22.38	22.32	22.45	22.46	22.38		0
	1	24	22.50	22.40	22.39	22.51	22.31		0
	12	0	22.46	22.43	22.51	22.53	22.45	0-1	0
	12	6	22.47	22.46	22.55	22.58	22.41		0
	12	13	22.48	22.45	22.54	22.50	22.41		0
	25	0	22.47	22.42	22.54	22.51	22.42		0
16QAM	1	0	22.60	22.76	22.48	22.62	22.33	0-1	0
	1	12	22.46	22.65	22.53	22.56	22.35		0
	1	24	22.56	22.82	22.55	22.61	22.36		0
	12	0	22.51	22.44	22.60	22.50	22.52	0-2	0
	12	6	22.52	22.47	22.66	22.50	22.53		0
	12	13	22.49	22.45	22.71	22.48	22.55		0
	25	0	22.51	22.41	22.58	22.50	22.39		0
64QAM	1	0	22.56	22.20	22.60	22.37	22.48	0-2	0
	1	12	22.53	22.24	22.66	22.39	22.55		0
	1	24	22.57	22.23	22.63	22.35	22.52		0
	12	0	21.63	21.63	21.66	21.64	21.47	0-3	1
	12	6	21.61	21.60	21.62	21.65	21.53		1
	12	13	21.62	21.62	21.67	21.58	21.54		1
	25	0	21.58	21.52	21.64	21.61	21.49		1
256QAM	1	0	19.97	19.54	19.98	19.72	19.45	0-5	3
	1	12	19.89	19.13	19.77	19.68	19.91		3
	1	24	19.94	19.14	19.77	19.71	19.94		3
	12	0	19.44	19.53	19.47	19.58	19.38		3
	12	6	19.48	19.55	19.51	19.61	19.40		3
	12	13	19.45	19.56	19.57	19.52	19.45		3
	25	0	19.50	19.59	19.56	19.61	19.44		3

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Table 9-101
LTE Band 41 PC2 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	23.70	23.76	23.55	23.56	23.46	0	0
	1	50	23.64	23.84	23.90	23.77	23.83		0
	1	99	23.65	23.71	23.57	23.29	23.72		0
	50	0	23.70	23.67	23.79	23.76	23.74	0-1	0
	50	25	23.85	23.82	23.86	23.80	23.87		0
	50	50	23.80	23.74	23.88	23.68	23.84		0
	100	0	23.76	23.67	23.79	23.77	23.72		0

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9.4.13 LTE Uplink Carrier Aggregation Conducted Powers

Table 9-102

LTE Uplink Carrier Aggregation Measured P_{max} for
 LTE Band 5/66/41 DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or
 LTE Band 5/66/41 DSI = 2 (Head) or LTE Band 5 DSI = 1 (Phablet with grip sensor triggered),
 and/or DSI = 4 (Earjack Active) and/or DSI = 3 (Hotspot mode) and Measured P_{limit} for LTE B48 DSI = 0
 (Body-worn, or Phablet with grip sensor not triggered) or LTE Band 48 DSI = 1 (Phablet with grip sensor
 triggered), and/or DSI = 4 (Earjack Active) and/or DSI = 3 (Hotspot mode)

PCC										SCC										Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC 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_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	1	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	1	24	25.31	24.89	
PCC										SCC										Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (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_66C	LTE B66	20	132072	1720.0	66536	2120.0	QPSK	1	99	LTE B66	20	132270	1739.8	66734	2139.8	QPSK	1	0	24.45	23.50	
CA_66C	LTE B66	20	132322	1745.0	66786	2145.0	QPSK	1	0	LTE B66	20	132124	1725.2	66588	2125.2	QPSK	1	99	24.50	23.56	
CA_66B	LTE B66	10	132022	1715.0	66486	2115.0	QPSK	1	49	LTE B66	10	132121	1724.9	66585	2124.9	QPSK	1	0	24.20	23.62	
CA_66B	LTE B66	10	132322	1745.0	66786	2145.0	QPSK	1	0	LTE B66	10	132223	1735.1	66687	2135.1	QPSK	1	49	24.15	23.48	
PCC										SCC										Power	
Combination	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	40620	2593.0	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	24.99	24.10					
PCC										SCC										Power	
Combination	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	40620	2593.0	QPSK	1	99	LTE B41 PC2	20	40818	2612.8	QPSK	1	0	27.88	27.03					
PCC										SCC										Power	
Combination	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_48C	LTE B48	20	55340	3560.0	QPSK	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	21.92	21.87					
CA_48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	22.38	22.03					

Table 9-103

LTE Uplink Carrier Aggregation Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active)

PCC										SCC										Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (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_66C	LTE B66	20	132572	1770.0	67036	2170.0	QPSK	50	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	50	50	20.17	19.69	
CA_66B	LTE B66	10	132622	1775.0	67086	2175.0	QPSK	25	0	LTE B66	10	132523	1765.1	66987	2165.1	QPSK	25	25	20.05	19.89	
		PCC								SCC								Power			
Combination	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	41055	2636.5	QPSK	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	22.24	22.09					
		PCC								SCC								Power			
Combination	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	41055	2636.5	QPSK	1	0	LTE B41 PC2	20	40857	2616.7	QPSK	1	99	23.73	23.56					

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Table 9-104
LTE Uplink Carrier Aggregation Measured P_{limit} for DSI = 2 (Head)

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_48C	LTE B48	20	55340	3560.0	QPSK	50	50	LTE B48	20	55538	3579.8	QPSK	50	0	17.55	17.43

Table 9-105
LTE Uplink Carrier Aggregation Measured P_{limit} for DSI = 3 (Hotspot mode)

	PCC								SCC								Power			
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (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_66C	LTE B66	20	132322	1745.0	66786	2145.0	QPSK	50	0	LTE B66	20	132124	1725.2	66588	2125.2	QPSK	50	50	19.70	19.29
CA_66B	LTE B66	10	132322	1745.0	66786	2145.0	QPSK	25	0	LTE B66	10	132223	1735.1	66687	2135.1	QPSK	25	25	19.70	19.35

	PCC								SCC						Power	
Combination	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	40620	2593.0	QPSK	50	50	LTE B41	20	40818	2612.8	QPSK	50	0	21.68	21.24

	PCC								SCC						Power	
Combination	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	40620	2593.0	QPSK	50	50	LTE B41 PC2	20	40818	2612.8	QPSK	50	0	22.97	22.71

Notes:

1. This device supports uplink carrier aggregation for LTE CA_5B, LTE CA_66B, LTE CA_66C, LTE CA_48C, and 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.
2. 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 9-106
NR Band n71 Measured $P_{\max}$ for all DSI - 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	25.09	0	0.0
	1	53	24.97		0.0
	1	104	24.92		0.0
	50	0	24.57	0-0.5	0.5
	50	28	25.03	0	0.0
	50	56	24.46	0-0.5	0.5
	100	0	24.49		0.5
DFT-s-OFDM QPSK	1	1	25.02	0	0.0
	1	53	25.04		0.0
	1	104	24.93		0.0
	50	0	24.07	0-1	1.0
	50	28	25.06	0	0.0
	50	56	24.05	0-1	1.0
	100	0	24.06		1.0
DFT-s-OFDM 16QAM	1	1	24.02	0-1	1.0
CP-OFDM QPSK	1	1	23.55	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 9-107
NR Band n71 Measured P_{max} for all DSI - 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	25.44	0	0.0
	1	40	25.38		0.0
	1	77	25.24		0.0
	36	0	24.88	0-0.5	0.5
	36	22	25.27	0	0.0
	36	43	24.70		0.5
	75	0	24.75		0.5
DFT-s-OFDM QPSK	1	1	25.44	0	0.0
	1	40	25.33		0.0
	1	77	25.26		0.0
	36	0	24.44	0-1	1.0
	36	22	25.32	0	0.0
	36	43	24.17		1.0
	75	0	24.28		1.0
DFT-s-OFDM 16QAM	1	1	24.34	0-1	1.0
CP-OFDM QPSK	1	1	23.86	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 9-108
NR Band n71 Measured $P_{\max}$ for all DSI - 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	25.22	25.35	25.18	0	0.0
	1	26	25.31	25.40	25.22		0.0
	1	50	25.31	25.16	25.18		0.0
	25	0	24.70	24.73	24.65	0-0.5	0.5
	25	14	25.22	25.25	25.16	0	0.0
	25	27	24.71	24.68	24.72	0-0.5	0.5
	50	0	24.74	24.83	24.68		0.5
DFT-s-OFDM QPSK	1	1	25.33	25.21	25.16	0	0.0
	1	26	25.26	25.28	25.23		0.0
	1	50	25.18	25.18	25.21		0.0
	25	0	24.24	24.19	24.24	0-1	1.0
	25	14	25.30	25.31	25.16	0	0.0
	25	27	24.18	24.18	24.19	0-1	1.0
	50	0	24.25	24.30	24.18		1.0
DFT-s-OFDM 16QAM	1	1	24.26	24.48	24.34	0-1	1.0
CP-OFDM QPSK	1	1	23.83	24.00	23.77	0-1.5	1.5

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Table 9-109
NR Band n71 Measured P_{max} for all DSI - 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	25.32	25.27	25.38	0	0.0
	1	13	25.19	25.27	25.17		0.0
	1	23	25.24	25.25	25.07		0.0
	12	0	24.84	24.95	24.67	0-0.5	0.5
	12	7	25.24	25.31	25.16	0	0.0
	12	13	24.74	24.77	24.67	0-0.5	0.5
	25	0	24.74	24.72	24.62		0.5
DFT-s-OFDM QPSK	1	1	25.34	25.45	25.29	0	0.0
	1	13	25.36	25.28	25.27		0.0
	1	23	25.25	25.34	25.15		0.0
	12	0	24.36	24.30	24.14	0-1	1.0
	12	7	25.29	25.30	25.23	0	0.0
	12	13	24.35	24.24	24.11	0-1	1.0
	25	0	24.22	24.27	24.20		1.0
DFT-s-OFDM 16QAM	1	1	24.51	24.40	24.22	0-1	1.0
CP-OFDM QPSK	1	1	23.85	23.85	23.73	0-1.5	1.5

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9.5.1

NR Band n12

Table 9-110
NR Band n12 Measured $P_{\max}$ for all DSI - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.61	0	0.0
	1	40	24.64		0.0
	1	77	24.72		0.0
	36	0	24.09	0-0.5	0.5
	36	22	24.63	0	0.0
	36	43	24.11	0-0.5	0.5
	75	0	24.08		0.5
DFT-s-OFDM QPSK	1	1	24.64	0	0.0
	1	40	24.68		0.0
	1	77	24.72		0.0
	36	0	23.63	0-1	1.0
	36	22	24.62	0	0.0
	36	43	23.66	0-1	1.0
	75	0	23.64		1.0
DFT-s-OFDM 16QAM	1	1	23.54	0-1	1.0
CP-OFDM QPSK	1	1	22.88	0-1.5	1.5

Note: NR Band n12 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 9-111
NR Band n12 Measured P_{max} for all DSI – 10 MHz Bandwidth
NR Band n12
10 MHz Bandwidth

NR Band n12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.84	0	0.0
	1	26	24.98		0.0
	1	50	24.97		0.0
	25	0	24.46	0-0.5	0.5
	25	14	25.00	0	0.0
	25	27	24.41	0-0.5	0.5
	50	0	24.50		0.5
DFT-s-OFDM QPSK	1	1	24.96	0	0.0
	1	26	24.03		0.0
	1	50	24.99		0.0
	25	0	23.91	0-1	1.0
	25	14	24.96	0	0.0
	25	27	23.96	0-1	1.0
	50	0	23.98		1.0
DFT-s-OFDM 16QAM	1	1	23.76	0-1	1.0
CP-OFDM QPSK	1	1	23.49	0-1.5	1.5

Note: NR Band n12 at 10 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 9-112
NR Band n12 Measured P_{max} for all DSI – 5 MHz Bandwidth

NR Band n12 5 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	140300 (701.5 MHz)	141500 (707.5 MHz)	142700 (713.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.99	24.86	25.03	0	0.0
	1	13	24.82	25.03	25.14		0.0
	1	23	24.91	24.79	25.02		0.0
	12	0	24.44	24.33	24.50	0-0.5	0.5
	12	7	24.97	24.99	25.09	0	0.0
	12	13	24.35	24.40	24.52	0-0.5	0.5
	25	0	24.38	24.47	24.54		0.5
DFT-s-OFDM QPSK	1	1	24.93	24.90	25.06	0	0.0
	1	13	24.95	25.01	24.98		0.0
	1	23	24.82	24.91	25.03		0.0
	12	0	23.95	23.90	24.00	0-1	1.0
	12	7	24.92	24.92	25.12	0	0.0
	12	13	23.85	23.89	23.96	0-1	1.0
	25	0	23.90	23.93	24.08		1.0
DFT-s-OFDM 16QAM	1	1	23.17	24.01	24.04	0-1	1.0
CP-OFDM QPSK	1	1	23.46	23.45	23.55	0-1.5	1.5

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9.5.2

NR Band n5

Table 9-113
NR Band n5 Measured $P_{\max}$ for all DSI - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.88	0	0.0
	1	53	24.88		0.0
	1	104	25.03		0.0
	50	0	24.33	0-0.5	0.5
	50	28	24.87	0	0.0
	50	56	24.44	0-0.5	0.5
	100	0	24.45		0.5
DFT-s-OFDM QPSK	1	1	24.89	0	0.0
	1	53	24.93		0.0
	1	104	25.01		0.0
	50	0	23.86	0-1	1.0
	50	28	25.00	0	0.0
	50	56	24.00	0-1	1.0
	100	0	24.08		1.0
DFT-s-OFDM 16QAM	1	1	23.77	0-1	1.0
CP-OFDM QPSK	1	1	23.43	0-1.5	1.5

Note: NR Band n5 (Cell) 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 9-114
NR Band n5 Measured P_{max} for all DSI - 15 MHz Bandwidth
NR Band n5
15 MHz Bandwidth

NR Band n5 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.27	0	0.0
	1	40	25.20		0.0
	1	77	25.22		0.0
	36	0	24.62	0-0.5	0.5
	36	22	25.14	0	0.0
	36	43	24.55	0-0.5	0.5
	75	0	24.53		0.5
DFT-s-OFDM QPSK	1	1	25.03	0	0.0
	1	40	25.17		0.0
	1	77	25.15		0.0
	36	0	24.19	0-1	1.0
	36	22	25.09	0	0.0
	36	43	24.02	0-1	1.0
	75	0	24.14		1.0
DFT-s-OFDM 16QAM	1	1	24.23	0-1	1.0
CP-OFDM QPSK	1	1	23.80	0-1.5	1.5

Note: NR Band n5 (Cell) 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 9-115
NR Band n5 Measured P_{max} for all DSI - 10 MHz Bandwidth
NR Band n5
10 MHz Bandwidth

NR Band n5 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.01	0	0.0
	1	26	24.96		0.0
	1	50	25.17		0.0
	25	0	24.59	0-0.5	0.5
	25	14	25.09	0	0.0
	25	27	24.47	0-0.5	0.5
	50	0	24.57		0.5
DFT-s-OFDM QPSK	1	1	25.05	0	0.0
	1	26	25.01		0.0
	1	50	25.13		0.0
	25	0	24.04	0-1	1.0
	25	14	24.52	0	0.0
	25	27	24.11	0-1	1.0
	50	0	24.05		1.0
DFT-s-OFDM 16QAM	1	1	24.36	0-1	1.0
CP-OFDM QPSK	1	1	23.59	0-1.5	1.5

Note: NR Band n5 (Cell) at 10 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 9-116
NR Band n5 Measured P_{max} for all DSI - 5 MHz Bandwidth
NR Band n5
5 MHz Bandwidth

			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	165300 (826.5 MHz)	167300 (836.5 MHz)	169300 (846.5 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.19	25.16	25.09	0	0.0
	1	13	24.90	25.12	25.16		0.0
	1	23	24.90	25.04	24.92		0.0
	12	0	24.43	24.72	24.66	0-0.5	0.5
	12	7	24.96	25.12	25.08	0	0.0
	12	13	24.52	24.59	24.56	0-0.5	0.5
	25	0	24.51	24.60	24.49		0.5
DFT-s-OFDM QPSK	1	1	25.01	25.10	25.06	0	0.0
	1	13	25.03	25.04	24.98		0.0
	1	23	25.07	25.08	25.00		0.0
	12	0	24.10	24.17	24.21	0-1	1.0
	12	7	25.02	25.13	24.99	0	0.0
	12	13	24.54	24.37	24.39	0-1	1.0
	25	0	24.00	24.28	24.13		1.0
DFT-s-OFDM 16QAM	1	1	24.00	24.24	24.11	0-1	1.0
CP-OFDM QPSK	1	1	23.63	23.77	23.77	0-1.5	1.5

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9.5.3

NR Band n66 Antenna A

Table 9-117

NR Band n66 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.49	0	0.0
	1	108	24.62		0.0
	1	214	24.57		0.0
	108	0	24.11	0-0.5	0.5
	108	54	24.65	0	0.0
	108	108	24.07	0-0.5	0.5
	216	0	24.10		0.5
DFT-s-OFDM QPSK	1	1	24.51	0	0.0
	1	108	24.62		0.0
	1	214	24.59		0.0
	108	0	23.53	0-1	1.0
	108	54	24.49	0	0.0
	108	108	23.45	0-1	1.0
	216	0	23.55		1.0
DFT-s-OFDM 16QAM	1	1	23.32	0-1	1.0
CP-OFDM QPSK	1	1	23.50	0-1.5	1.5

Note: NR Band n66 at 40 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 9-118
NR Band n66 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 30 MHz Bandwidth

NR Band n66 30 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	24.71	0	0.0
	1	80	24.59		0.0
	1	158	24.72		0.0
	80	0	24.14	0-0.5	0.5
	80	40	24.67	0	0.0
	80	80	24.21	0-0.5	0.5
	160	0	24.17		0.5
DFT-s-OFDM QPSK	1	1	24.75	0	0.0
	1	80	24.74		0.0
	1	158	24.79		0.0
	80	0	23.72	0-1	1.0
	80	40	24.75	0	0.0
	80	80	23.76	0-1	1.0
	160	0	23.74		1.0
DFT-s-OFDM 16QAM	1	1	23.62	0-1	1.0
CP-OFDM QPSK	1	1	23.50	0-1.5	1.5

Note: NR Band n66 at 30 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 9-119
NR Band n66 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.60	24.53	24.53	0	0.0
	1	53	24.47	24.41	24.36		0.0
	1	104	24.52	24.37	24.44		0.0
	50	0	24.00	23.90	23.93	0-0.5	0.5
	50	28	24.50	24.41	24.49	0	0.0
	50	56	24.06	23.92	24.00	0-0.5	0.5
	100	0	24.00	23.93	24.02		0.5
DFT-s-OFDM QPSK	1	1	24.74	24.51	24.62	0	0.0
	1	53	24.48	24.37	24.47		0.0
	1	104	24.68	24.45	24.55		0.0
	50	0	23.57	23.42	23.45	0-1	1.0
	50	28	24.55	24.38	24.53	0	0.0
	50	56	23.61	23.37	23.46	0-1	1.0
	100	0	23.50	23.40	23.54		1.0
DFT-s-OFDM 16QAM	1	1	24.00	23.73	23.75	0-1	1.0
CP-OFDM QPSK	1	1	23.50	23.44	23.50	0-1.5	1.5

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Table 9-120
NR Band n66 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.40	24.44	24.32	0	0.0
	1	40	24.32	24.36	24.33		0.0
	1	77	24.31	24.21	24.37		0.0
	36	0	23.87	23.88	23.80	0-0.5	0.5
	36	22	24.32	24.30	24.39	0	0.0
	36	43	23.81	23.80	23.88	0-0.5	0.5
	75	0	23.89	23.87	23.93		0.5
DFT-s-OFDM QPSK	1	1	24.47	24.45	24.35	0	0.0
	1	40	24.48	24.31	24.33		0.0
	1	77	24.53	24.22	24.36		0.0
	36	0	23.48	23.37	23.38	0-1	1.0
	36	22	24.46	24.30	24.42	0	0.0
	36	43	23.45	23.28	23.43	0-1	1.0
	75	0	23.40	23.35	23.49		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	23.40	23.33	23.33	0-1	1.0
	1	1	23.46	23.41	23.46	0-1.5	1.5

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Table 9-121
NR Band n66 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.34	24.33	24.34	0	0.0
	1	26	24.36	24.46	24.27		0.0
	1	50	24.50	24.28	24.36		0.0
	25	0	23.93	23.93	23.94	0-0.5	0.5
	25	14	24.54	24.40	24.43	0	0.0
	25	27	24.00	23.85	23.87	0-0.5	0.5
	50	0	24.00	23.90	23.86		0.5
DFT-s-OFDM QPSK	1	1	24.45	24.42	24.56	0	0.0
	1	26	24.52	24.30	24.51		0.0
	1	50	24.55	24.51	24.33		0.0
	25	0	23.41	23.48	23.46	0-1	1.0
	25	14	24.58	24.38	24.45	0	0.0
	25	27	23.53	23.37	23.43	0-1	1.0
	50	0	23.53	23.39	23.45		1.0
DFT-s-OFDM 16QAM	1	1	23.47	23.50	23.63	0-1	1.0
CP-OFDM QPSK	1	1	23.50	23.44	23.42	0-1.5	1.5

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Table 9-122
NR Band n66 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.40	24.23	24.49	0	0.0
	1	13	24.52	24.37	24.33		0.0
	1	23	24.52	24.24	24.52		0.0
	12	0	24.02	23.86	23.90	0-0.5	0.5
	12	7	24.41	24.40	24.42	0	0.0
	12	13	23.91	23.89	23.89	0-0.5	0.5
	25	0	23.95	23.86	23.92		0.5
DFT-s-OFDM QPSK	1	1	24.43	24.41	24.46	0	0.0
	1	13	24.56	24.36	24.55		0.0
	1	23	24.45	24.18	24.38		0.0
	12	0	23.40	23.40	23.42	0-1	1.0
	12	7	24.50	24.47	24.48	0	0.0
	12	13	23.46	23.30	23.44	0-1	1.0
	25	0	23.44	23.35	23.36		1.0
DFT-s-OFDM 16QAM	1	1	23.46	23.39	23.50	0-1	1.0
CP-OFDM QPSK	1	1	23.50	23.39	23.45	0-1.5	1.5

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Table 9-123
NR Band n66 Measured P_{limit} for DSI = 3 (Hotspot mode) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.98	0	0.0
	1	108	19.97		0.0
	1	214	19.92		0.0
	108	0	19.99	0-0.5	0.0
	108	54	20.00	0	0.0
	108	108	19.98	0-0.5	0.0
	216	0	19.99		0.0
DFT-s-OFDM QPSK	1	1	20.00	0	0.0
	1	108	19.99		0.0
	1	214	19.99		0.0
	108	0	19.98	0-1	0.0
	108	54	19.99	0	0.0
	108	108	19.97	0-1	0.0
	216	0	19.98		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	20.00	0-1	0.0
	1	1	19.99	0-1.5	0.0

Note: NR Band n66 at 40 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 9-124
NR Band n66 Measured P_{limit} for DSI = 3 (Hotspot mode) - 30 MHz Bandwidth

NR Band n66 30 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	20.00	0	0.0
	1	80	19.99		0.0
	1	158	19.97		0.0
	80	0	19.96	0-0.5	0.0
	80	40	19.95	0	0.0
	80	80	19.99	0-0.5	0.0
	160	0	20.00		0.0
DFT-s-OFDM QPSK	1	1	19.94	0	0.0
	1	80	19.93		0.0
	1	158	19.97		0.0
	80	0	20.00	0-1	0.0
	80	40	19.98	0	0.0
	80	80	19.95	0-1	0.0
	160	0	19.99		0.0
DFT-s-OFDM 16QAM	1	1	19.98	0-1	0.0
CP-OFDM QPSK	1	1	19.93	0-1.5	0.0

Note: NR Band n66 at 30 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 9-125
NR Band n66 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.98	19.74	19.70	0	0.0
	1	53	19.82	19.73	19.51		0.0
	1	104	19.84	19.71	19.63		0.0
	50	0	19.89	19.73	19.62	0-0.5	0.0
	50	28	19.84	19.74	19.62	0	0.0
	50	56	19.81	19.61	19.66	0-0.5	0.0
	100	0	19.87	19.78	19.65		0.0
DFT-s-OFDM QPSK	1	1	19.99	19.74	19.70	0	0.0
	1	53	19.82	19.67	19.54		0.0
	1	104	19.80	19.66	19.73		0.0
	50	0	19.85	19.70	19.66	0-1	0.0
	50	28	19.79	19.72	19.59	0	0.0
	50	56	19.83	19.62	19.68	0-1	0.0
	100	0	19.79	19.65	19.63		0.0
DFT-s-OFDM 16QAM	1	1	19.88	19.80	19.73	0-1	0.0
CP-OFDM QPSK	1	1	19.84	19.82	19.48	0-1.5	0.0

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Table 9-126
NR Band n66 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.95	19.87	19.67	0	0.0
	1	40	19.82	19.72	19.73		0.0
	1	77	19.88	19.83	19.76		0.0
	36	0	19.86	19.68	19.60	0-0.5	0.0
	36	22	19.77	19.60	19.62	0	0.0
	36	43	19.83	19.61	19.65	0-0.5	0.0
	75	0	19.84	19.72	19.72		0.0
DFT-s-OFDM QPSK	1	1	19.91	19.80	19.58	0	0.0
	1	40	19.80	19.51	19.53		0.0
	1	77	19.87	19.80	19.69		0.0
	36	0	19.94	19.72	19.62	0-1	0.0
	36	22	19.85	19.66	19.71	0	0.0
	36	43	19.86	19.63	19.65	0-1	0.0
	75	0	19.87	19.72	19.74		0.0
DFT-s-OFDM 16QAM	1	1	19.99	19.67	19.62	0-1	0.0
CP-OFDM QPSK	1	1	19.99	19.78	19.59	0-1.5	0.0

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Table 9-127
NR Band n66 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.79	19.75	19.77	0	0.0
	1	26	19.81	19.71	19.77		0.0
	1	50	19.80	19.77	19.71		0.0
	25	0	19.84	19.72	19.71	0-0.5	0.0
	25	14	19.78	19.73	19.69	0	0.0
	25	27	19.78	19.62	19.65	0-0.5	0.0
	50	0	19.78	19.60	19.69		0.0
DFT-s-OFDM QPSK	1	1	19.87	19.62	19.71	0	0.0
	1	26	19.91	19.70	19.71		0.0
	1	50	19.70	19.56	19.67		0.0
	25	0	19.79	19.67	19.71	0-1	0.0
	25	14	19.84	19.68	19.72	0	0.0
	25	27	19.82	19.63	19.73	0-1	0.0
	50	0	19.78	19.71	19.68		0.0
DFT-s-OFDM 16QAM	1	1	19.82	19.80	19.83	0-1	0.0
CP-OFDM QPSK	1	1	19.72	19.54	19.79	0-1.5	0.0

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Table 9-128
NR Band n66 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.81	19.76	19.59	0	0.0
	1	13	19.84	19.65	19.71		0.0
	1	23	19.88	19.57	19.73		0.0
	12	0	19.86	19.69	19.62	0-0.5	0.0
	12	7	19.78	19.66	19.63	0	0.0
	12	13	19.84	19.62	19.59	0-0.5	0.0
	25	0	19.82	19.65	19.65		0.0
DFT-s-OFDM QPSK	1	1	19.79	19.64	19.66	0	0.0
	1	13	19.88	19.71	19.70		0.0
	1	23	19.83	19.74	19.69		0.0
	12	0	19.81	19.68	19.65	0-1	0.0
	12	7	19.87	19.65	19.63	0	0.0
	12	13	19.77	19.70	19.69	0-1	0.0
	25	0	19.91	19.67	19.70		0.0
DFT-s-OFDM 16QAM	1	1	19.76	19.71	19.64	0-1	0.0
CP-OFDM QPSK	1	1	19.82	19.73	19.58	0-1.5	0.0

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Table 9-129

NR Band n66 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.47	0	0.0
	1	108	20.48		0.0
	1	214	20.46		0.0
	108	0	20.48	0-0.5	0.0
	108	54	20.49	0	0.0
	108	108	20.47	0-0.5	0.0
	216	0	20.49		0.0
DFT-s-OFDM QPSK	1	1	20.50	0	0.0
	1	108	20.49		0.0
	1	214	20.48		0.0
	108	0	20.50	0-1	0.0
	108	54	20.50	0	0.0
	108	108	20.48	0-1	0.0
	216	0	20.49		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	20.50	0-1	0.0
	1	1	20.47	0-1.5	0.0

Note: NR Band n66 at 40 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 9-130

NR Band n66 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 30 MHz Bandwidth

NR Band n66 30 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	20.42	0	0.0
	1	80	20.35		0.0
	1	158	20.50		0.0
	80	0	20.40	0-0.5	0.0
	80	40	20.44	0	0.0
	80	80	20.46	0-0.5	0.0
	160	0	20.50		0.0
DFT-s-OFDM QPSK	1	1	20.50	0	0.0
	1	80	20.45		0.0
	1	158	20.49		0.0
	80	0	20.47	0-1	0.0
	80	40	20.46	0	0.0
	80	80	20.49	0-1	0.0
	160	0	20.50		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	20.49	0-1	0.0
	1	1	20.50	0-1.5	0.0

Note: NR Band n66 at 30 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 9-131

NR Band n66 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	20.44	20.17	20.23	0	0.0
	1	53	20.26	20.07	20.02		0.0
	1	104	20.20	20.10	20.14		0.0
	50	0	20.37	20.21	20.13	0-0.5	0.0
	50	28	20.30	20.15	20.12	0	0.0
	50	56	20.28	20.11	20.15	0-0.5	0.0
	100	0	20.30	20.17	20.13		0.0
DFT-s-OFDM QPSK	1	1	20.44	20.33	20.27	0	0.0
	1	53	20.34	20.13	20.12		0.0
	1	104	20.23	20.22	20.12		0.0
	50	0	20.35	20.20	20.14	0-1	0.0
	50	28	20.31	20.17	20.08	0	0.0
	50	56	20.27	20.16	20.17	0-1	0.0
	100	0	20.32	20.20	20.13		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	20.50	20.46	20.50	0-1	0.0
	1	1	20.41	20.43	20.29	0-1.5	0.0

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Table 9-132

NR Band n66 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) -
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	20.47	20.28	20.15	0	0.0
	1	40	20.25	20.06	20.19		0.0
	1	77	20.43	20.34	20.22		0.0
	36	0	20.48	20.24	20.14	0-0.5	0.0
	36	22	20.38	20.19	20.23	0	0.0
	36	43	20.37	20.18	20.25	0-0.5	0.0
	75	0	20.47	20.23	20.23		0.0
DFT-s-OFDM QPSK	1	1	20.49	20.39	20.32	0	0.0
	1	40	20.48	20.22	20.21		0.0
	1	77	20.49	20.30	20.32		0.0
	36	0	20.50	20.26	20.20	0-1	0.0
	36	22	20.45	20.21	20.20	0	0.0
	36	43	20.44	20.21	20.18	0-1	0.0
	75	0	20.48	20.23	20.31		0.0
DFT-s-OFDM 16QAM	1	1	20.50	20.49	20.50	0-1	0.0
CP-OFDM QPSK	1	1	20.49	20.24	20.29	0-1.5	0.0

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Table 9-133

NR Band n66 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) -
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	20.38	20.29	20.37	0	0.0
	1	26	20.33	20.26	20.27		0.0
	1	50	20.37	20.25	20.26		0.0
	25	0	20.30	20.23	20.24	0-0.5	0.0
	25	14	20.33	20.16	20.23	0	0.0
	25	27	20.31	20.25	20.26	0-0.5	0.0
	50	0	20.23	20.20	20.21		0.0
DFT-s-OFDM QPSK	1	1	20.32	20.28	20.27	0	0.0
	1	26	20.41	20.20	20.22		0.0
	1	50	20.39	20.10	20.21		0.0
	25	0	20.33	20.26	20.30	0-1	0.0
	25	14	20.30	20.26	20.28	0	0.0
	25	27	20.37	20.23	20.23	0-1	0.0
	50	0	20.29	20.20	20.26		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	20.33	20.42	20.27	0-1	0.0
	1	1	20.34	20.22	20.29	0-1.5	0.0

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Table 9-134

NR Band n66 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) -
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	20.41	20.28	20.22	0	0.0
	1	13	20.46	20.12	20.18		0.0
	1	23	20.32	20.15	20.23		0.0
	12	0	20.33	20.19	20.20	0-0.5	0.0
	12	7	20.29	20.09	20.16	0	0.0
	12	13	20.35	20.14	20.21	0-0.5	0.0
	25	0	20.30	20.11	20.16		0.0
DFT-s-OFDM QPSK	1	1	20.43	20.29	20.26	0	0.0
	1	13	20.34	20.18	20.15		0.0
	1	23	20.10	20.09	20.17		0.0
	12	0	20.31	20.17	20.22	0-1	0.0
	12	7	20.32	20.13	20.21	0	0.0
	12	13	20.31	20.09	20.25	0-1	0.0
	25	0	20.30	20.18	20.20		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	20.29	20.34	20.26	0-1	0.0
	1	1	20.25	20.17	20.18	0-1.5	0.0

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9.5.1

NR Band n66 Antenna I

Table 9-135

NR Band n66 Measured P_{max} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.76	0	0.0
	1	108	24.01		0.0
	1	214	23.71		0.0
	108	0	23.35	0-0.5	0.5
	108	54	23.91	0	0.0
	108	108	23.50	0-0.5	0.5
	216	0	23.45		0.5
DFT-s-OFDM QPSK	1	1	23.96	0	0.0
	1	108	24.16		0.0
	1	214	23.78		0.0
	108	0	22.92	0-1	1.0
	108	54	23.98	0	0.0
	108	108	23.05	0-1	1.0
	216	0	23.01		1.0
DFT-s-OFDM 16QAM	1	1	22.92	0-1	1.0
CP-OFDM QPSK	1	1	22.46	0-1.5	1.5

Note: NR Band n66 at 40 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 9-136

NR Band n66 Measured P_{max} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 30 MHz Bandwidth

NR Band n66 30 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	24.22	0	0.0
	1	80	24.50		0.0
	1	158	24.35		0.0
	80	0	23.77	0-0.5	0.5
	80	40	24.23	0	0.0
	80	80	23.84	0-0.5	0.5
	160	0	23.76		0.5
DFT-s-OFDM QPSK	1	1	24.25	0	0.0
	1	80	24.44		0.0
	1	158	24.41		0.0
	80	0	23.25	0-1	1.0
	80	40	24.26	0	0.0
	80	80	23.31	0-1	1.0
	160	0	23.27		1.0
DFT-s-OFDM 16QAM	1	1	23.23	0-1	1.0
CP-OFDM QPSK	1	1	22.92	0-1.5	1.5

Note: NR Band n66 at 30 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 9-137

NR Band n66 Measured P_{max} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	23.93	23.84	23.94	0	0.0
	1	53	23.81	23.99	23.86		0.0
	1	104	24.03	24.01	23.89		0.0
	50	0	23.40	23.47	23.38	0-0.5	0.5
	50	28	23.92	23.92	23.94	0	0.0
	50	56	23.42	23.45	23.45	0-0.5	0.5
	100	0	23.48	23.42	23.40		0.5
DFT-s-OFDM QPSK	1	1	24.02	23.86	23.94	0	0.0
	1	53	23.92	24.04	23.93		0.0
	1	104	23.99	24.03	23.83		0.0
	50	0	22.92	23.01	22.83	0-1	1.0
	50	28	23.93	23.99	23.95	0	0.0
	50	56	22.88	22.92	22.90	0-1	1.0
	100	0	22.96	22.94	22.87		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	23.05	22.77	22.61	0-1	1.0
	1	1	22.41	22.30	22.05	0-1.5	1.5

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Table 9-138

NR Band n66 Measured P_{max} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	23.99	24.03	24.01	0	0.0
	1	40	23.81	24.06	24.01		0.0
	1	77	23.97	23.98	24.23		0.0
	36	0	23.50	23.58	23.58	0-0.5	0.5
	36	22	23.84	23.99	24.05	0	0.0
	36	43	23.48	23.45	23.63	0-0.5	0.5
	75	0	23.50	23.50	23.57		0.5
DFT-s-OFDM QPSK	1	1	23.93	24.08	24.18	0	0.0
	1	40	23.92	24.12	24.08		0.0
	1	77	24.02	24.19	24.33		0.0
	36	0	22.94	23.13	23.09	0-1	1.0
	36	22	23.90	24.03	24.13	0	0.0
	36	43	23.02	23.04	23.10	0-1	1.0
	75	0	23.01	23.03	23.11		1.0
DFT-s-OFDM 16QAM	1	1	22.88	22.99	23.01	0-1	1.0
CP-OFDM QPSK	1	1	22.53	22.43	22.61	0-1.5	1.5

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Table 9-139

NR Band n66 Measured P_{max} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	23.94	24.02	24.25	0	0.0
	1	26	23.99	24.20	24.05		0.0
	1	50	24.04	24.17	24.17		0.0
	25	0	23.36	23.63	23.67	0-0.5	0.5
	25	14	23.95	23.96	24.09	0	0.0
	25	27	23.39	23.57	23.61	0-0.5	0.5
	50	0	23.46	23.51	23.55		0.5
DFT-s-OFDM QPSK	1	1	23.87	24.17	24.08	0	0.0
	1	26	23.94	24.13	24.15		0.0
	1	50	23.92	24.09	24.00		0.0
	25	0	22.85	23.23	23.02	0-1	1.0
	25	14	23.98	24.08	23.96	0	0.0
	25	27	22.99	23.19	23.04	0-1	1.0
	50	0	22.97	23.11	23.04		1.0
DFT-s-OFDM 16QAM	1	1	22.90	23.15	23.15	0-1	1.0
CP-OFDM QPSK	1	1	22.25	22.64	22.34	0-1.5	1.5

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Table 9-140

NR Band n66 Measured P_{max} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	23.82	24.03	23.90	0	0.0
	1	13	24.06	24.08	24.04		0.0
	1	23	23.91	24.09	23.73		0.0
	12	0	23.39	23.48	23.41	0-0.5	0.5
	12	7	23.90	24.01	23.80	0	0.0
	12	13	23.38	23.55	23.50	0-0.5	0.5
	25	0	23.33	23.50	23.44		0.5
DFT-s-OFDM QPSK	1	1	23.91	24.10	24.05	0	0.0
	1	13	23.93	24.16	23.98		0.0
	1	23	23.91	24.00	24.02		0.0
	12	0	22.89	23.01	23.04	0-1	1.0
	12	7	23.97	23.93	23.84	0	0.0
	12	13	22.90	23.16	23.05	0-1	1.0
	25	0	22.87	23.01	22.96		1.0
DFT-s-OFDM 16QAM	1	1	22.91	22.85	23.02	0-1	1.0
CP-OFDM QPSK	1	1	22.32	22.38	22.52	0-1.5	1.5

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Table 9-141
NR Band n66 Measured P_{limit} for DSI = 3 (Hotspot mode) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.28	0	0.0
	1	108	19.41		0.0
	1	214	19.29		0.0
	108	0	19.56	0-0.5	0.0
	108	54	19.47	0	0.0
	108	108	19.49	0-0.5	0.0
	216	0	19.51		0.0
DFT-s-OFDM QPSK	1	1	19.62	0	0.0
	1	108	19.60		0.0
	1	214	19.51		0.0
	108	0	19.61	0-1	0.0
	108	54	19.47	0	0.0
	108	108	19.60	0-1	0.0
	216	0	19.57		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	19.44	0-1	0.0
	1	1	19.63	0-1.5	0.0

Note: NR Band n66 at 40 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 9-142
NR Band n66 Measured P_{limit} for DSI = 3 (Hotspot mode) - 30 MHz Bandwidth

NR Band n66 30 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	19.81	0	0.0
	1	80	19.72		0.0
	1	158	19.74		0.0
	80	0	19.63	0-0.5	0.0
	80	40	19.56	0	0.0
	80	80	19.64	0-0.5	0.0
	160	0	19.60		0.0
DFT-s-OFDM QPSK	1	1	19.76	0	0.0
	1	80	19.54		0.0
	1	158	19.66		0.0
	80	0	19.67	0-1	0.0
	80	40	19.58	0	0.0
	80	80	19.69	0-1	0.0
	160	0	19.65		0.0
DFT-s-OFDM 16QAM	1	1	19.76	0-1	0.0
CP-OFDM QPSK	1	1	19.72	0-1.5	0.0

Note: NR Band n66 at 30 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 9-143
NR Band n66 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.66	19.47	19.41	0	0.0
	1	53	19.44	19.30	19.39		0.0
	1	104	19.44	19.41	19.41		0.0
	50	0	19.46	19.46	19.46	0-0.5	0.0
	50	28	19.44	19.41	19.49	0	0.0
	50	56	19.46	19.45	19.47	0-0.5	0.0
	100	0	19.41	19.49	19.50		0.0
DFT-s-OFDM QPSK	1	1	19.56	19.49	19.43	0	0.0
	1	53	19.36	19.39	19.39		0.0
	1	104	19.41	19.42	19.49		0.0
	50	0	19.45	19.52	19.57	0-1	0.0
	50	28	19.48	19.44	19.52	0	0.0
	50	56	19.43	19.44	19.49	0-1	0.0
	100	0	19.44	19.43	19.55		0.0
DFT-s-OFDM 16QAM	1	1	19.49	19.09	18.97	0-1	0.0
CP-OFDM QPSK	1	1	19.36	19.43	19.43	0-1.5	0.0

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Table 9-144
NR Band n66 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.60	19.54	19.49	0	0.0
	1	40	19.37	19.32	19.34		0.0
	1	77	19.59	19.38	19.56		0.0
	36	0	19.54	19.47	19.56	0-0.5	0.0
	36	22	19.41	19.39	19.46	0	0.0
	36	43	19.46	19.42	19.45	0-0.5	0.0
	75	0	19.47	19.44	19.51		0.0
DFT-s-OFDM QPSK	1	1	19.53	19.56	19.52	0	0.0
	1	40	19.41	19.45	19.43		0.0
	1	77	19.58	19.47	19.56		0.0
	36	0	19.55	19.50	19.48	0-1	0.0
	36	22	19.40	19.43	19.46	0	0.0
	36	43	19.49	19.44	19.52	0-1	0.0
	75	0	19.52	19.49	19.53		0.0
DFT-s-OFDM 16QAM	1	1	19.16	19.07	18.98	0-1	0.0
CP-OFDM QPSK	1	1	19.44	19.55	19.61	0-1.5	0.0

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Table 9-145
NR Band n66 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.55	19.26	19.34	0	0.0
	1	26	19.52	19.38	19.49		0.0
	1	50	19.48	19.52	19.40		0.0
	25	0	19.40	19.46	19.40	0-0.5	0.0
	25	14	19.43	19.48	19.40	0	0.0
	25	27	19.40	19.36	19.44	0-0.5	0.0
	50	0	19.41	19.38	19.45		0.0
DFT-s-OFDM QPSK	1	1	19.44	19.32	19.42	0	0.0
	1	26	19.33	19.37	19.45		0.0
	1	50	19.46	19.34	19.43		0.0
	25	0	19.45	19.49	19.38	0-1	0.0
	25	14	19.47	19.48	19.52	0	0.0
	25	27	19.44	19.46	19.48	0-1	0.0
	50	0	19.42	19.42	19.45		0.0
DFT-s-OFDM 16QAM	1	1	19.00	18.96	19.36	0-1	0.0
CP-OFDM QPSK	1	1	19.17	19.08	19.44	0-1.5	0.0

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Table 9-146
NR Band n66 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.44	19.53	19.41	0	0.0
	1	13	19.42	19.52	19.37		0.0
	1	23	19.41	19.49	19.39		0.0
	12	0	19.52	19.45	19.41	0-0.5	0.0
	12	7	19.53	19.51	19.47	0	0.0
	12	13	19.51	19.50	19.40	0-0.5	0.0
	25	0	19.48	19.52	19.35		0.0
DFT-s-OFDM QPSK	1	1	19.42	19.60	19.42	0	0.0
	1	13	19.52	19.56	19.38		0.0
	1	23	19.46	19.53	19.35		0.0
	12	0	19.51	19.55	19.36	0-1	0.0
	12	7	19.49	19.54	19.46	0	0.0
	12	13	19.44	19.52	19.41	0-1	0.0
	25	0	19.43	19.53	19.39		0.0
DFT-s-OFDM 16QAM	1	1	19.07	19.02	19.08	0-1	0.0
CP-OFDM QPSK	1	1	19.43	19.40	19.39	0-1.5	0.0

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Table 9-147
NR Band n66 Measured P_{limit} for DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.26	0	0.0
	1	108	17.43		0.0
	1	214	17.25		0.0
	108	0	17.49	0-0.5	0.0
	108	54	17.38	0	0.0
	108	108	17.43		0.0
	216	0	17.41		0.0
DFT-s-OFDM QPSK	1	1	17.50	0	0.0
	1	108	17.55		0.0
	1	214	17.49		0.0
	108	0	17.53	0-1	0.0
	108	54	17.42	0	0.0
	108	108	17.45		0.0
	216	0	17.44		0.0
DFT-s-OFDM 16QAM	1	1	17.32	0-1	0.0
CP-OFDM QPSK	1	1	17.64	0-1.5	0.0

Note: NR Band n66 at 40 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 9-148
NR Band n66 Measured P_{limit} for DSI = 2 (Head) - 30 MHz Bandwidth

NR Band n66 30 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	17.79	0	0.0
	1	80	17.59		0.0
	1	158	17.78		0.0
	80	0	17.69	0-0.5	0.0
	80	40	17.72	0	0.0
	80	80	17.69	0-0.5	0.0
	160	0	17.67		0.0
DFT-s-OFDM QPSK	1	1	17.76	0	0.0
	1	80	17.55		0.0
	1	158	17.76		0.0
	80	0	17.70	0-1	0.0
	80	40	17.72	0	0.0
	80	80	17.69	0-1	0.0
	160	0	17.68		0.0
DFT-s-OFDM 16QAM	1	1	17.28	0-1	0.0
CP-OFDM QPSK	1	1	17.68	0-1.5	0.0

Note: NR Band n66 at 30 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 9-149
NR Band n66 Measured P_{limit} for DSI = 2 (Head) - 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	17.42	17.45	17.20	0	0.0
	1	53	17.33	17.29	17.36		0.0
	1	104	17.34	17.38	17.46		0.0
	50	0	17.42	17.38	17.38	0-0.5	0.0
	50	28	17.37	17.32	17.36	0	0.0
	50	56	17.43	17.39	17.37	0-0.5	0.0
	100	0	17.41	17.42	17.38		0.0
DFT-s-OFDM QPSK	1	1	17.45	17.54	17.28	0	0.0
	1	53	17.36	17.31	17.32		0.0
	1	104	17.38	17.34	17.35		0.0
	50	0	17.41	17.33	17.29	0-1	0.0
	50	28	17.40	17.40	17.30	0	0.0
	50	56	17.42	17.35	17.31	0-1	0.0
	100	0	17.39	17.36	17.38		0.0
DFT-s-OFDM 16QAM	1	1	17.10	17.09	17.06	0-1	0.0
CP-OFDM QPSK	1	1	17.36	17.39	17.35	0-1.5	0.0

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Table 9-150
NR Band n66 Measured P_{limit} for DSI = 2 (Head) - 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	17.49	17.55	17.39	0	0.0
	1	40	17.30	17.31	17.42		0.0
	1	77	17.38	17.40	17.42		0.0
	36	0	17.43	17.42	17.47	0-0.5	0.0
	36	22	17.33	17.38	17.40	0	0.0
	36	43	17.36	17.35	17.43	0-0.5	0.0
	75	0	17.36	17.39	17.45		0.0
DFT-s-OFDM QPSK	1	1	17.48	17.42	17.48	0	0.0
	1	40	17.26	17.45	17.45		0.0
	1	77	17.46	17.41	17.46		0.0
	36	0	17.35	17.52	17.40	0-1	0.0
	36	22	17.42	17.43	17.39	0	0.0
	36	43	17.40	17.47	17.38	0-1	0.0
	75	0	17.48	17.51	17.45		0.0
DFT-s-OFDM 16QAM	1	1	17.13	17.18	17.15	0-1	0.0
CP-OFDM QPSK	1	1	17.39	17.55	17.50	0-1.5	0.0

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Table 9-151
NR Band n66 Measured P_{limit} for DSI = 2 (Head) - 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	17.36	17.24	17.38	0	0.0
	1	26	17.44	17.28	17.32		0.0
	1	50	17.25	17.31	17.42		0.0
	25	0	17.39	17.36	17.36	0-0.5	0.0
	25	14	17.37	17.41	17.40	0	0.0
	25	27	17.36	17.39	17.38	0-0.5	0.0
	50	0	17.36	17.39	17.35		0.0
DFT-s-OFDM QPSK	1	1	17.46	17.32	17.35	0	0.0
	1	26	17.38	17.30	17.35		0.0
	1	50	17.42	17.33	17.44		0.0
	25	0	17.40	17.45	17.42	0-1	0.0
	25	14	17.39	17.45	17.40	0	0.0
	25	27	17.45	17.35	17.39	0-1	0.0
	50	0	17.39	17.47	17.44		0.0
DFT-s-OFDM 16QAM	1	1	17.03	16.94	16.87	0-1	0.0
CP-OFDM QPSK	1	1	17.29	17.00	17.36	0-1.5	0.0

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Table 9-152
NR Band n66 Measured P_{limit} for DSI = 2 (Head) - 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	17.41	17.44	17.39	0	0.0
	1	13	17.49	17.39	17.33		0.0
	1	23	17.55	17.38	17.32		0.0
	12	0	17.43	17.42	17.28	0-0.5	0.0
	12	7	17.41	17.50	17.42	0	0.0
	12	13	17.48	17.53	17.40	0-0.5	0.0
	25	0	17.42	17.52	17.35		0.0
DFT-s-OFDM QPSK	1	1	17.50	17.50	17.38	0	0.0
	1	13	17.57	17.49	17.29		0.0
	1	23	17.39	17.38	17.30		0.0
	12	0	17.45	17.52	17.41	0-1	0.0
	12	7	17.42	17.37	17.40	0	0.0
	12	13	17.39	17.44	17.42	0-1	0.0
	25	0	17.40	17.46	17.35		0.0
DFT-s-OFDM 16QAM	1	1	17.07	17.11	17.05	0-1	0.0
CP-OFDM QPSK	1	1	17.39	17.35	17.35	0-1.5	0.0

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NR Band n25 Antenna A (PCS)

Table 9-153

NR Band n25 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.86	0	0.0
	1	108	24.53		0.0
	1	214	24.70		0.0
	108	0	24.06	0-0.5	0.5
	108	54	24.56	0	0.0
	108	108	24.08	0-0.5	0.5
	216	0	23.53		0.5
DFT-s-OFDM QPSK	1	1	24.86	0	0.0
	1	108	24.62		0.0
	1	214	24.85		0.0
	108	0	23.79	0-1	1.0
	108	54	24.68	0	0.0
	108	108	23.65	0-1	1.0
	216	0	23.76		1.0
DFT-s-OFDM 16QAM	1	1	23.17	0-1	1.0
CP-OFDM QPSK	1	1	22.82	0-1.5	1.5

Note: NR Band n25 at 40 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 9-154

NR Band n25 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	25.00	0	0.0
	1	80	24.81		0.0
	1	158	24.95		0.0
	80	0	24.39	0-0.5	0.5
	80	40	24.86	0	0.0
	80	80	24.33	0-0.5	0.5
	160	0	24.36		0.5
DFT-s-OFDM QPSK	1	1	24.99	0	0.0
	1	80	24.92		0.0
	1	158	25.00		0.0
	80	0	23.43	0-1	1.0
	80	40	24.56	0	0.0
	80	80	23.54	0-1	1.0
	160	0	23.77		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	23.51	0-1	1.0
	1	1	23.24	0-1.5	1.5

Note: NR Band n25 at 30 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 9-155
NR Band n25 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.95	0	0.0
	1	67	24.69		0.0
	1	131	24.82		0.0
	64	0	24.23	0-0.5	0.5
	64	35	24.76	0	0.0
	64	69	24.26	0-0.5	0.5
	128	0	24.08		0.5
DFT-s-OFDM QPSK	1	1	24.83	0	0.0
	1	67	24.79		0.0
	1	131	24.87		0.0
	64	0	23.46	0-1	1.0
	64	35	24.66	0	0.0
	64	69	23.64	0-1	1.0
	128	0	23.63		1.0
DFT-s-OFDM 16QAM	1	1	23.48	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 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 9-156
NR Band n25 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.53	24.24	24.19	0	0.0
	1	53	24.39	24.22	24.22		0.0
	1	104	24.33	24.08	24.21		0.0
	50	0	23.99	23.73	23.79	0-0.5	0.5
	50	28	24.43	24.22	24.29	0	0.0
	50	56	23.83	23.71	23.72	0-0.5	0.5
	100	0	23.94	23.72	23.80		0.5
DFT-s-OFDM QPSK	1	1	24.35	24.35	24.35	0	0.0
	1	53	24.50	24.31	24.34		0.0
	1	104	24.42	24.18	23.41		0.0
	50	0	23.49	23.31	23.33	0-1	1.0
	50	28	24.46	24.28	24.31	0	0.0
	50	56	23.42	23.18	23.24	0-1	1.0
	100	0	23.44	23.23	23.28		1.0
DFT-s-OFDM 16QAM	1	1	23.53	23.29	23.28	0-1	1.0
CP-OFDM QPSK	1	1	23.16	23.01	22.86	0-1.5	1.5

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Table 9-157
NR Band n25 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.71	24.57	24.65	0	0.0
	1	40	24.88	24.53	24.55		0.0
	1	77	24.73	24.57	24.60		0.0
	36	0	24.10	24.00	24.03	0-0.5	0.5
	36	22	24.62	24.49	24.41	0	0.0
	36	43	24.19	23.99	24.00	0-0.5	0.5
	75	0	24.14	24.06	24.00		0.5
DFT-s-OFDM QPSK	1	1	24.67	24.66	24.61	0	0.0
	1	40	24.70	24.56	24.59		0.0
	1	77	24.77	24.67	24.68		0.0
	36	0	23.68	23.59	23.47	0-1	1.0
	36	22	24.69	24.51	24.49	0	0.0
	36	43	23.63	23.49	23.61	0-1	1.0
	75	0	23.65	23.53	23.46		1.0
DFT-s-OFDM 16QAM	1	1	23.33	23.16	22.98	0-1	1.0
CP-OFDM QPSK	1	1	23.21	23.00	23.13	0-1.5	1.5

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Table 9-158
NR Band n25 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.77	24.38	24.44	0	0.0
	1	26	24.64	24.52	24.57		0.0
	1	50	24.76	24.53	24.51		0.0
	25	0	24.19	23.97	24.00	0-0.5	0.5
	25	14	24.66	24.33	24.41	0	0.0
	25	27	24.18	24.30	24.26	0-0.5	0.5
	50	0	24.14	23.99	24.01		0.5
DFT-s-OFDM QPSK	1	1	24.73	24.45	24.50	0	0.0
	1	26	24.71	24.40	24.65		0.0
	1	50	24.60	24.48	24.45		0.0
	25	0	23.67	23.52	23.49	0-1	1.0
	25	14	24.68	24.55	24.61	0	0.0
	25	27	23.72	23.53	23.69	0-1	1.0
	50	0	23.68	23.51	23.52		1.0
DFT-s-OFDM 16QAM	1	1	23.25	23.04	23.09	0-1	1.0
CP-OFDM QPSK	1	1	23.32	23.12	23.25	0-1.5	1.5

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Table 9-159
NR Band n25 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	24.60	24.50	24.63	0	0.0
	1	13	24.66	24.53	24.74		0.0
	1	23	24.00	24.46	24.65		0.0
	12	0	24.16	23.94	24.04	0-0.5	0.5
	12	7	24.61	24.58	24.55	0	0.0
	12	13	24.15	24.10	24.13	0-0.5	0.5
	25	0	24.21	23.95	24.04		0.5
DFT-s-OFDM QPSK	1	1	24.77	24.34	24.63	0	0.0
	1	13	24.78	24.49	24.63		0.0
	1	23	24.77	24.57	24.57		0.0
	12	0	23.62	23.62	23.46	0-1	1.0
	12	7	24.64	24.50	24.47	0	0.0
	12	13	23.61	23.61	23.53	0-1	1.0
	25	0	23.60	23.48	23.58		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	23.21	22.98	23.02	0-1	1.0
	1	1	22.91	22.78	22.81	0-1.5	1.5

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Table 9-160
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.41	0	0.0
	1	108	18.08		0.0
	1	214	18.18		0.0
	108	0	18.24	0-0.5	0.0
	108	54	18.16	0	0.0
	108	108	18.15	0-0.5	0.0
	216	0	18.20		0.0
DFT-s-OFDM QPSK	1	1	18.49	0	0.0
	1	108	18.34		0.0
	1	214	18.50		0.0
	108	0	18.28	0-1	0.0
	108	54	18.17	0	0.0
	108	108	18.19	0-1	0.0
	216	0	18.27		0.0
DFT-s-OFDM 16QAM	1	1	18.50	0-1	0.0
CP-OFDM QPSK	1	1	18.44	0-1.5	0.0

Note: NR Band n25 at 40 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 9-161
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	18.45	0	0.0
	1	80	18.44		0.0
	1	158	18.49		0.0
	80	0	18.50	0-0.5	0.0
	80	40	18.47	0	0.0
	80	80	18.42	0-0.5	0.0
	160	0	18.49		0.0
DFT-s-OFDM QPSK	1	1	18.50	0	0.0
	1	80	18.49		0.0
	1	158	18.47		0.0
	80	0	18.40	0-1	0.0
	80	40	18.46	0	0.0
	80	80	18.41	0-1	0.0
	160	0	18.47		0.0
DFT-s-OFDM 16QAM	1	1	18.34	0-1	0.0
CP-OFDM QPSK	1	1	18.41	0-1.5	0.0

Note: NR Band n25 at 30 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 9-162
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	18.42	0	0.0
	1	67	18.28		0.0
	1	131	18.35		0.0
	64	0	18.26	0-0.5	0.0
	64	35	18.24	0	0.0
	64	69	18.21	0-0.5	0.0
	128	0	18.22		0.0
DFT-s-OFDM QPSK	1	1	18.37	0	0.0
	1	67	18.15		0.0
	1	131	18.27		0.0
	64	0	18.31	0-1	0.0
	64	35	18.28	0	0.0
	64	69	18.28	0-1	0.0
	128	0	18.26		0.0
DFT-s-OFDM 16QAM	1	1	18.48	0-1	0.0
CP-OFDM QPSK	1	1	18.50	0-1.5	0.0

Note: NR Band n25 at 25 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 9-163
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	18.23	18.00	18.15	0	0.0
	1	53	18.27	18.09	18.23		0.0
	1	104	18.19	18.07	18.21		0.0
	50	0	18.17	18.02	18.04	0-0.5	0.0
	50	28	18.18	18.05	18.05	0	0.0
	50	56	18.15	17.96	18.07	0-0.5	0.0
	100	0	18.16	18.02	17.99		0.0
DFT-s-OFDM QPSK	1	1	18.23	18.17	18.10	0	0.0
	1	53	18.14	18.01	17.95		0.0
	1	104	18.00	17.88	17.87		0.0
	50	0	18.20	18.04	17.98	0-1	0.0
	50	28	18.13	18.03	18.05	0	0.0
	50	56	18.20	17.97	18.01	0-1	0.0
	100	0	18.18	17.98	18.13		0.0
DFT-s-OFDM 16QAM	1	1	18.32	18.36	18.31	0-1	0.0
CP-OFDM QPSK	1	1	18.27	18.34	18.18	0-1.5	0.0

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Table 9-164
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode)- 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	18.19	18.19	18.10	0	0.0
	1	40	18.26	18.25	18.07		0.0
	1	77	18.22	18.13	18.00		0.0
	36	0	18.14	18.08	17.99	0-0.5	0.0
	36	22	18.18	18.06	17.95	0	0.0
	36	43	18.12	18.03	17.86	0-0.5	0.0
	75	0	18.14	18.05	18.00		0.0
DFT-s-OFDM QPSK	1	1	18.23	18.11	18.05	0	0.0
	1	40	18.19	18.06	18.00		0.0
	1	77	18.15	18.14	18.17		0.0
	36	0	18.17	18.12	18.04	0-1	0.0
	36	22	18.16	18.13	17.93	0	0.0
	36	43	18.20	18.08	17.99	0-1	0.0
	75	0	18.15	18.04	17.97		0.0
DFT-s-OFDM 16QAM	1	1	18.32	18.32	18.26	0-1	0.0
CP-OFDM QPSK	1	1	18.27	18.12	17.95	0-1.5	0.0

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Table 9-165
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode)- 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	18.22	18.04	18.09	0	0.0
	1	26	18.19	18.16	18.16		0.0
	1	50	18.14	18.12	18.21		0.0
	25	0	18.15	18.06	18.08	0-0.5	0.0
	25	14	18.14	18.08	18.10	0	0.0
	25	27	18.23	18.05	18.13	0-0.5	0.0
	50	0	18.19	18.01	18.11		0.0
DFT-s-OFDM QPSK	1	1	18.17	18.14	18.21	0	0.0
	1	26	18.20	18.24	18.12		0.0
	1	50	18.24	18.11	18.09		0.0
	25	0	18.13	18.05	18.05	0-1	0.0
	25	14	18.12	18.11	18.15	0	0.0
	25	27	18.17	18.05	18.16	0-1	0.0
	50	0	18.17	18.05	18.14		0.0
DFT-s-OFDM 16QAM	1	1	18.15	18.24	18.21	0-1	0.0
CP-OFDM QPSK	1	1	18.23	18.12	18.19	0-1.5	0.0

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Table 9-166
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode)- 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	18.00	17.99	18.00	0	0.0
	1	13	18.05	18.02	18.00		0.0
	1	23	18.14	18.13	18.02		0.0
	12	0	18.11	17.90	18.03	0-0.5	0.0
	12	7	18.13	17.95	18.04	0	0.0
	12	13	18.14	18.05	18.08	0-0.5	0.0
	25	0	18.12	17.97	17.94		0.0
DFT-s-OFDM QPSK	1	1	18.24	18.21	18.14	0	0.0
	1	13	18.31	18.27	18.13		0.0
	1	23	18.24	18.38	18.23		0.0
	12	0	18.08	17.97	18.00	0-1	0.0
	12	7	18.17	18.05	18.05	0	0.0
	12	13	18.18	18.04	18.03	0-1	0.0
	25	0	18.12	18.06	18.30		0.0
DFT-s-OFDM 16QAM	1	1	18.25	18.04	18.23	0-1	0.0
CP-OFDM QPSK	1	1	18.10	17.87	17.76	0-1.5	0.0

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Table 9-167

NR Band n25 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.46	0	0.0
	1	108	20.09		0.0
	1	214	20.34		0.0
	108	0	20.32	0-0.5	0.0
	108	54	20.25	0	0.0
	108	108	20.23	0-0.5	0.0
	216	0	20.32		0.0
DFT-s-OFDM QPSK	1	1	20.50	0	0.0
	1	108	20.32		0.0
	1	214	20.49		0.0
	108	0	20.39	0-1	0.0
	108	54	20.28	0	0.0
	108	108	20.34	0-1	0.0
	216	0	20.38		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	20.50	0-1	0.0
	1	1	20.47	0-1.5	0.0

Note: NR Band n25 at 40 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 9-168

NR Band n25 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	20.50	0	0.0
	1	80	20.42		0.0
	1	158	20.44		0.0
	80	0	20.48	0-0.5	0.0
	80	40	20.47	0	0.0
	80	80	20.48	0-0.5	0.0
	160	0	20.49		0.0
DFT-s-OFDM QPSK	1	1	20.50	0	0.0
	1	80	20.46		0.0
	1	158	20.39		0.0
	80	0	20.46	0-1	0.0
	80	40	20.40	0	0.0
	80	80	20.49	0-1	0.0
	160	0	20.39		0.0
DFT-s-OFDM 16QAM	1	1	20.34	0-1	0.0
CP-OFDM QPSK	1	1	20.45	0-1.5	0.0

Note: NR Band n25 at 30 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 9-169

NR Band n25 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) -
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	20.48	0	0.0
	1	67	20.23		0.0
	1	131	20.35		0.0
	64	0	20.30	0-0.5	0.0
	64	35	20.33	0	0.0
	64	69	20.30	0-0.5	0.0
	128	0	20.31		0.0
DFT-s-OFDM QPSK	1	1	20.46	0	0.0
	1	67	20.27		0.0
	1	131	20.34		0.0
	64	0	20.17	0-1	0.0
	64	35	20.25	0	0.0
	64	69	20.01	0-1	0.0
	128	0	19.99		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	20.46	0-1	0.0
	1	1	20.42	0-1.5	0.0

Note: NR Band n25 at 25 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 9-170

NR Band n25 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	20.30	20.05	20.01	0	0.0
	1	53	20.22	20.01	20.11		0.0
	1	104	20.13	19.94	19.89		0.0
	50	0	20.21	20.06	20.06	0-0.5	0.0
	50	28	20.19	20.08	20.04	0	0.0
	50	56	20.22	20.07	19.97	0-0.5	0.0
	100	0	20.22	20.10	19.99		0.0
DFT-s-OFDM QPSK	1	1	20.21	19.93	20.17	0	0.0
	1	53	20.15	19.87	19.97		0.0
	1	104	20.11	19.91	20.02		0.0
	50	0	20.22	20.15	20.09	0-1	0.0
	50	28	20.23	20.12	20.01	0	0.0
	50	56	20.25	20.13	19.94	0-1	0.0
	100	0	20.14	20.06	20.02		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	20.33	20.24	20.26	0-1	0.0
	1	1	20.22	20.11	20.00	0-1.5	0.0

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Table 9-171

NR Band n25 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) -
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	20.34	20.07	20.35	0	0.0
	1	40	20.27	19.99	20.26		0.0
	1	77	20.30	20.09	20.24		0.0
	36	0	20.11	20.11	20.07	0-0.5	0.0
	36	22	20.20	20.13	20.10	0	0.0
	36	43	20.22	20.06	20.08	0-0.5	0.0
	75	0	20.18	20.09	20.11		0.0
DFT-s-OFDM QPSK	1	1	20.24	20.14	20.06	0	0.0
	1	40	20.18	20.08	19.95		0.0
	1	77	20.22	20.16	19.99		0.0
	36	0	20.18	20.13	20.12	0-1	0.0
	36	22	20.18	20.12	20.09	0	0.0
	36	43	20.21	20.07	20.04	0-1	0.0
	75	0	20.19	20.10	20.08		0.0
DFT-s-OFDM 16QAM	1	1	20.36	20.30	20.23	0-1	0.0
CP-OFDM QPSK	1	1	20.24	20.11	20.09	0-1.5	0.0

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Table 9-172

NR Band n25 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	20.25	19.97	20.11	0	0.0
	1	26	20.19	20.00	20.12		0.0
	1	50	20.25	20.04	20.07		0.0
	25	0	20.26	19.95	20.19	0-0.5	0.0
	25	14	20.17	19.84	20.00	0	0.0
	25	27	20.20	20.12	19.99	0-0.5	0.0
	50	0	20.15	20.00	20.03		0.0
DFT-s-OFDM QPSK	1	1	20.23	20.29	20.21	0	0.0
	1	26	20.17	20.23	20.16		0.0
	1	50	20.20	20.13	20.17		0.0
	25	0	20.25	20.06	20.16	0-1	0.0
	25	14	20.16	20.10	20.08	0	0.0
	25	27	20.17	20.09	20.19	0-1	0.0
	50	0	20.21	20.06	20.11		0.0
DFT-s-OFDM 16QAM	1	1	20.31	20.32	20.28	0-1	0.0
CP-OFDM QPSK	1	1	20.18	19.90	20.00	0-1.5	0.0

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Table 9-173

NR Band n25 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) -
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	20.15	20.12	20.11	0	0.0
	1	13	20.12	20.17	20.16		0.0
	1	23	20.26	20.04	20.23		0.0
	12	0	20.18	20.00	20.07	0-0.5	0.0
	12	7	20.20	20.07	20.09	0	0.0
	12	13	20.20	20.02	20.15	0-0.5	0.0
	25	0	20.19	20.02	20.10		0.0
DFT-s-OFDM QPSK	1	1	20.36	20.19	20.33	0	0.0
	1	13	20.40	20.12	20.23		0.0
	1	23	20.39	20.13	20.24		0.0
	12	0	20.07	19.97	20.03	0-1	0.0
	12	7	20.17	20.12	20.14	0	0.0
	12	13	20.22	20.11	20.18	0-1	0.0
	25	0	20.20	20.03	20.04		0.0
DFT-s-OFDM 16QAM	1	1	20.35	20.22	20.28	0-1	0.0
CP-OFDM QPSK	1	1	20.02	19.94	20.00	0-1.5	0.0

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9.5.1

NR Band n25 Antenna I (PCS)

Table 9-174

NR Band n25 Measured P_{max} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.25	0	0.0
	1	108	23.96		0.0
	1	214	24.17		0.0
	108	0	23.54	0-0.5	0.5
	108	54	24.01	0	0.0
	108	108	23.65	0-0.5	0.5
	216	0	23.60		0.5
DFT-s-OFDM QPSK	1	1	24.32	0	0.0
	1	108	24.04		0.0
	1	214	24.11		0.0
	108	0	23.11	0-1	1.0
	108	54	24.16	0	0.0
	108	108	23.28	0-1	1.0
	216	0	23.24		1.0
DFT-s-OFDM 16QAM	1	1	23.49	0-1	1.0
CP-OFDM QPSK	1	1	23.00	0-1.5	1.5

Note: NR Band n25 at 40 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 9-175

NR Band n25 Measured P_{max} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	24.16	0	0.0
	1	80	24.12		0.0
	1	158	24.07		0.0
	80	0	23.54	0-0.5	0.5
	80	40	24.21	0	0.0
	80	80	23.57	0-0.5	0.5
	160	0	23.48		0.5
DFT-s-OFDM QPSK	1	1	24.12	0	0.0
	1	80	23.97		0.0
	1	158	23.99		0.0
	80	0	23.16	0-1	1.0
	80	40	24.07	0	0.0
	80	80	23.08	0-1	1.0
	160	0	23.19		1.0
DFT-s-OFDM 16QAM	1	1	23.23	0-1	1.0
CP-OFDM QPSK	1	1	22.62	0-1.5	1.5

Note: NR Band n25 at 30 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 9-176

NR Band n25 Measured P_{max} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	24.29	0	0.0
	1	67	24.37		0.0
	1	131	24.49		0.0
	64	0	23.77	0-0.5	0.5
	64	35	24.34	0	0.0
	64	69	23.82	0-0.5	0.5
	128	0	23.83		0.5
DFT-s-OFDM QPSK	1	1	24.42	0	0.0
	1	67	24.39		0.0
	1	131	24.50		0.0
	64	0	23.31	0-1	1.0
	64	35	24.34	0	0.0
	64	69	23.40	0-1	1.0
	128	0	23.41		1.0
DFT-s-OFDM 16QAM	1	1	23.28	0-1	1.0
CP-OFDM QPSK	1	1	22.99	0-1.5	1.5

Note: NR Band n25 at 25 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 9-177

NR Band n25 Measured P_{max} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	24.28	24.31	24.33	0	0.0
	1	53	24.46	24.46	24.40		0.0
	1	104	24.23	24.20	24.26		0.0
	50	0	23.87	23.78	23.88	0-0.5	0.5
	50	28	24.24	24.25	24.37	0	0.0
	50	56	23.82	23.75	23.81	0-0.5	0.5
	100	0	23.81	23.80	23.90		0.5
DFT-s-OFDM QPSK	1	1	24.27	24.44	24.30	0	0.0
	1	53	24.35	24.47	24.44		0.0
	1	104	24.25	24.16	24.18		0.0
	50	0	23.40	23.31	23.39	0-1	1.0
	50	28	24.33	24.32	24.40	0	0.0
	50	56	23.37	23.30	23.38	0-1	1.0
	100	0	23.36	23.32	23.45		1.0
DFT-s-OFDM 16QAM	1	1	23.22	23.24	23.32	0-1	1.0
CP-OFDM QPSK	1	1	22.70	22.84	22.78	0-1.5	1.5

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Table 9-178

NR Band n25 Measured P_{max} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	24.21	24.23	24.12	0	0.0
	1	40	24.29	24.03	24.13		0.0
	1	77	24.32	24.12	24.06		0.0
	36	0	23.61	23.66	23.52	0-0.5	0.5
	36	22	24.02	24.01	24.00	0	0.0
	36	43	23.57	23.41	23.44	0-0.5	0.5
	75	0	23.79	23.59	23.44		0.5
DFT-s-OFDM QPSK	1	1	24.10	24.06	24.26	0	0.0
	1	40	24.13	24.31	24.11		0.0
	1	77	24.15	24.16	24.10		0.0
	36	0	23.10	23.21	23.23	0-1	1.0
	36	22	24.16	24.10	24.09	0	0.0
	36	43	23.20	23.21	23.16	0-1	1.0
	75	0	23.32	23.20	23.27		1.0
DFT-s-OFDM 16QAM	1	1	23.11	23.18	23.22	0-1	1.0
CP-OFDM QPSK	1	1	22.64	22.58	22.56	0-1.5	1.5

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Table 9-179

NR Band n25 Measured P_{max} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	24.34	24.12	24.21	0	0.0
	1	26	24.30	24.20	24.09		0.0
	1	50	24.24	23.96	24.11		0.0
	25	0	23.63	23.52	23.49	0-0.5	0.5
	25	14	23.98	24.07	24.10	0	0.0
	25	27	23.67	23.50	23.61	0-0.5	0.5
	50	0	23.92	23.57	23.62		0.5
DFT-s-OFDM QPSK	1	1	24.05	24.04	24.10	0	0.0
	1	26	24.28	24.17	24.18		0.0
	1	50	24.26	24.21	24.18		0.0
	25	0	23.18	23.05	23.00	0-1	1.0
	25	14	24.30	24.05	24.17	0	0.0
	25	27	23.14	23.06	23.28	0-1	1.0
	50	0	23.50	23.10	23.29		1.0
DFT-s-OFDM 16QAM	1	1	23.15	23.28	23.17	0-1	1.0
CP-OFDM QPSK	1	1	22.54	22.56	22.53	0-1.5	1.5

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Table 9-180

NR Band n25 Measured P_{max} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	23.99	23.96	24.18	0	0.0
	1	13	24.06	24.04	24.14		0.0
	1	23	24.02	23.89	24.21		0.0
	12	0	23.51	23.45	23.63	0-0.5	0.5
	12	7	24.10	23.98	24.01	0	0.0
	12	13	23.66	23.54	23.79	0-0.5	0.5
	25	0	23.55	23.52	23.67		0.5
DFT-s-OFDM QPSK	1	1	24.04	23.89	24.18	0	0.0
	1	13	24.23	23.91	24.22		0.0
	1	23	24.01	24.00	24.12		0.0
	12	0	23.11	22.95	23.19	0-1	1.0
	12	7	24.05	24.04	24.19	0	0.0
	12	13	23.21	23.10	23.20	0-1	1.0
	25	0	23.12	22.97	23.18		1.0
DFT-s-OFDM 16QAM	1	1	23.33	23.15	23.43	0-1	1.0
CP-OFDM QPSK	1	1	22.67	22.54	22.76	0-1.5	1.5

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Table 9-181
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode) - 40 MHz Bandwidth
NR Band n25
40 MHz Bandwidth

Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.64	0	0.0
	1	108	19.47		0.0
	1	214	19.72		0.0
	108	0	19.55	0-0.5	0.0
	108	54	19.53	0	0.0
	108	108	19.49	0-0.5	0.0
	216	0	19.58		0.0
DFT-s-OFDM QPSK	1	1	19.98	0	0.0
	1	108	19.64		0.0
	1	214	19.87		0.0
	108	0	19.57	0-1	0.0
	108	54	19.56	0	0.0
	108	108	19.67	0-1	0.0
	216	0	19.61		0.0
DFT-s-OFDM 16QAM	1	1	19.91	0-1	0.0
CP-OFDM QPSK	1	1	19.74	0-1.5	0.0

Note: NR Band n25 at 40 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 9-182
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode) - 30 MHz Bandwidth

NR Band n25 30 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel		
			376500 (1882.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.61	0	0.0
	1	80	19.66		0.0
	1	158	19.59		0.0
	80	0	19.41	0-0.5	0.0
	80	40	19.59	0	0.0
	80	80	19.63	0-0.5	0.0
	160	0	19.52		0.0
DFT-s-OFDM QPSK	1	1	19.72	0	0.0
	1	80	19.53		0.0
	1	158	19.77		0.0
	80	0	19.52	0-1	0.0
	80	40	19.51	0	0.0
	80	80	19.61	0-1	0.0
	160	0	19.43		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	19.78	0-1	0.0
	1	1	19.67	0-1.5	0.0

Note: NR Band n25 at 30 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 9-183
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode) - 25 MHz Bandwidth
NR Band n25
25 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	19.67	0	0.0	
	1	67	19.53		0.0	
	1	131	19.72		0.0	
	64	0	19.54	0-0.5	0.0	
	64	35	19.58	0	0.0	
	64	69	19.64	0-0.5	0.0	
	128	0	19.71		0.0	
DFT-s-OFDM QPSK	1	1	19.97	0	0.0	
	1	67	19.56		0.0	
	1	131	19.77		0.0	
	64	0	19.52	0-1	0.0	
	64	35	19.59	0	0.0	
	64	69	19.61	0-1	0.0	
	128	0	19.40		0.0	
DFT-s-OFDM 16QAM	1	1	19.75	0-1	0.0	
CP-OFDM QPSK	1	1	19.83	0-1.5	0.0	

Note: NR Band n25 at 25 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 9-184
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode) - 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	19.84	19.91	19.82	0	0.0
	1	53	19.69	19.71	19.77		0.0
	1	104	19.76	19.70	19.66		0.0
	50	0	19.79	19.72	19.70	0-0.5	0.0
	50	28	19.72	19.66	19.70	0	0.0
	50	56	19.73	19.70	19.68	0-0.5	0.0
	100	0	19.73	19.71	19.75		0.0
DFT-s-OFDM QPSK	1	1	19.64	19.91	19.81	0	0.0
	1	53	19.65	19.63	19.78		0.0
	1	104	19.69	19.60	19.75		0.0
	50	0	19.70	19.78	19.64	0-1	0.0
	50	28	19.67	19.70	19.77	0	0.0
	50	56	19.75	19.65	19.67	0-1	0.0
	100	0	19.65	19.69	19.77		0.0
DFT-s-OFDM 16QAM	1	1	20.00	19.82	19.93	0-1	0.0
CP-OFDM QPSK	1	1	19.91	19.69	20.00	0-1.5	0.0

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Table 9-185
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode)- 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	19.45	19.51	19.54	0	0.0
	1	40	19.52	19.60	19.47		0.0
	1	77	19.51	19.56	19.59		0.0
	36	0	19.49	19.41	19.61	0-0.5	0.0
	36	22	19.56	19.40	19.60	0	0.0
	36	43	19.57	19.41	19.49	0-0.5	0.0
	75	0	19.39	19.56	19.55		0.0
DFT-s-OFDM QPSK	1	1	19.34	19.51	19.40	0	0.0
	1	40	19.32	19.47	19.41		0.0
	1	77	19.41	19.40	19.53		0.0
	36	0	19.32	19.38	19.37	0-1	0.0
	36	22	19.51	19.30	19.46	0	0.0
	36	43	19.37	19.52	19.47	0-1	0.0
	75	0	19.52	19.58	19.58		0.0
DFT-s-OFDM 16QAM	1	1	19.58	19.51	19.56	0-1	0.0
CP-OFDM QPSK	1	1	19.33	19.40	19.48	0-1.5	0.0

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Table 9-186
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode)- 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	19.62	19.44	19.52	0	0.0
	1	26	19.78	19.38	19.53		0.0
	1	50	19.54	19.39	19.67		0.0
	25	0	19.73	19.43	19.70	0-0.5	0.0
	25	14	19.69	19.44	19.69	0	0.0
	25	27	19.70	19.48	19.72	0-0.5	0.0
	50	0	19.71	19.37	19.66		0.0
DFT-s-OFDM QPSK	1	1	19.67	19.31	19.61	0	0.0
	1	26	19.66	19.28	19.59		0.0
	1	50	19.59	19.41	19.68		0.0
	25	0	19.61	19.53	19.65	0-1	0.0
	25	14	19.54	19.38	19.58	0	0.0
	25	27	19.56	19.35	19.62	0-1	0.0
	50	0	19.57	19.46	19.63		0.0
DFT-s-OFDM 16QAM	1	1	19.77	19.40	19.70	0-1	0.0
CP-OFDM QPSK	1	1	19.41	19.45	19.54	0-1.5	0.0

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Table 9-187
NR Band n25 Measured P_{limit} for DSI = 3 (Hotspot mode)- 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	19.60	19.67	19.71	0	0.0
	1	13	19.46	19.54	19.54		0.0
	1	23	19.55	19.39	19.63		0.0
	12	0	19.53	19.43	19.73	0-0.5	0.0
	12	7	19.48	19.45	19.63	0	0.0
	12	13	19.51	19.44	19.64	0-0.5	0.0
	25	0	19.50	19.37	19.61		0.0
DFT-s-OFDM QPSK	1	1	19.44	19.35	19.62	0	0.0
	1	13	19.57	19.56	19.66		0.0
	1	23	19.37	19.39	19.69		0.0
	12	0	19.36	19.59	19.70	0-1	0.0
	12	7	19.49	19.56	19.54	0	0.0
	12	13	19.50	19.48	19.55	0-1	0.0
	25	0	19.47	19.47	19.79		0.0
DFT-s-OFDM 16QAM	1	1	19.54	19.54	19.66	0-1	0.0
CP-OFDM QPSK	1	1	19.29	19.40	19.51	0-1.5	0.0

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Table 9-188
NR Band n25 Measured P_{limit} for DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.73	0	0.0
	1	108	17.38		0.0
	1	214	17.70		0.0
	108	0	17.51	0-0.5	0.0
	108	54	17.49	0	0.0
	108	108	17.58	0-0.5	0.0
	216	0	17.56		0.0
DFT-s-OFDM QPSK	1	1	17.87	0	0.0
	1	108	17.73		0.0
	1	214	17.88		0.0
	108	0	17.57	0-1	0.0
	108	54	17.59	0	0.0
	108	108	17.68	0-1	0.0
	216	0	17.60		0.0
DFT-s-OFDM 16QAM	1	1	17.82	0-1	0.0
CP-OFDM QPSK	1	1	17.86	0-1.5	0.0

Note: NR Band n25 at 40 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 9-189
NR Band n25 Measured P_{limit} for DSI = 2 (Head) - 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	17.62	0	0.0
	1	80	17.58		0.0
	1	158	17.55		0.0
	80	0	17.54	0-0.5	0.0
	80	40	17.49	0	0.0
	80	80	17.56	0-0.5	0.0
	160	0	17.55		0.0
DFT-s-OFDM QPSK	1	1	17.50	0	0.0
	1	80	17.41		0.0
	1	158	17.52		0.0
	80	0	17.55	0-1	0.0
	80	40	17.43	0	0.0
	80	80	17.53	0-1	0.0
	160	0	17.51		0.0
DFT-s-OFDM 16QAM	1	1	17.50	0-1	0.0
CP-OFDM QPSK	1	1	17.58	0-1.5	0.0

Note: NR Band n25 at 30 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 9-190
NR Band n25 Measured P_{limit} for DSI = 2 (Head) - 25 MHz Bandwidth

NR Band n25 25 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel		
			376500 (1882.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.90	0	0.0
	1	67	17.77		0.0
	1	131	17.89		0.0
	64	0	17.76	0-0.5	0.0
	64	35	17.82	0	0.0
	64	69	17.83	0-0.5	0.0
	128	0	17.83		0.0
DFT-s-OFDM QPSK	1	1	17.83	0	0.0
	1	67	17.71		0.0
	1	131	17.87		0.0
	64	0	17.73	0-1	0.0
	64	35	17.75	0	0.0
	64	69	17.77	0-1	0.0
	128	0	17.70		0.0
DFT-s-OFDM 16QAM	1	1	17.60	0-1	0.0
CP-OFDM QPSK	1	1	17.74	0-1.5	0.0

Note: NR Band n25 at 25 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 9-191
NR Band n25 Measured P_{limit} for DSI = 2 (Head) - 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	17.63	17.50	17.56	0	0.0
	1	53	17.42	17.66	17.77		0.0
	1	104	17.68	17.33	17.45		0.0
	50	0	17.58	17.52	17.54	0-0.5	0.0
	50	28	17.56	17.49	17.59	0	0.0
	50	56	17.59	17.47	17.60	0-0.5	0.0
	100	0	17.50	17.46	17.57		0.0
DFT-s-OFDM QPSK	1	1	17.70	17.62	17.51	0	0.0
	1	53	17.55	17.52	17.60		0.0
	1	104	17.62	17.46	17.43		0.0
	50	0	17.62	17.56	17.55	0-1	0.0
	50	28	17.55	17.52	17.56	0	0.0
	50	56	17.56	17.53	17.56	0-1	0.0
	100	0	17.54	17.49	17.64		0.0
DFT-s-OFDM 16QAM	1	1	17.95	17.95	17.98	0-1	0.0
CP-OFDM QPSK	1	1	17.58	17.80	17.42	0-1.5	0.0

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Table 9-192
NR Band n25 Measured P_{limit} for DSI = 2 (Head) - 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	17.42	17.50	17.61	0	0.0
	1	40	17.31	17.49	17.55		0.0
	1	77	17.39	17.52	17.56		0.0
	36	0	17.59	17.42	17.49	0-0.5	0.0
	36	22	17.49	17.43	17.53	0	0.0
	36	43	17.36	17.33	17.51	0-0.5	0.0
	75	0	17.55	17.37	17.61		0.0
DFT-s-OFDM QPSK	1	1	17.51	17.40	17.48	0	0.0
	1	40	17.53	17.44	17.46		0.0
	1	77	17.52	17.52	17.51		0.0
	36	0	17.48	17.46	17.49	0-1	0.0
	36	22	17.56	17.41	17.48	0	0.0
	36	43	17.47	17.44	17.45	0-1	0.0
	75	0	17.39	17.49	17.53		0.0
DFT-s-OFDM 16QAM	1	1	17.54	17.51	17.50	0-1	0.0
CP-OFDM QPSK	1	1	17.59	17.32	17.44	0-1.5	0.0

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Table 9-193
NR Band n25 Measured P_{limit} for DSI = 2 (Head) - 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	17.49	17.44	17.81	0	0.0
	1	26	17.44	17.35	17.57		0.0
	1	50	17.66	17.29	17.63		0.0
	25	0	17.61	17.50	17.61	0-0.5	0.0
	25	14	17.50	17.42	17.72	0	0.0
	25	27	17.62	17.52	17.76	0-0.5	0.0
	50	0	17.47	17.39	17.71		0.0
DFT-s-OFDM QPSK	1	1	17.56	17.40	17.75	0	0.0
	1	26	17.58	17.46	17.70		0.0
	1	50	17.53	17.44	17.80		0.0
	25	0	17.66	17.31	17.79	0-1	0.0
	25	14	17.50	17.42	17.62	0	0.0
	25	27	17.45	17.46	17.78	0-1	0.0
	50	0	17.50	17.38	17.71		0.0
DFT-s-OFDM 16QAM	1	1	17.56	17.28	17.65	0-1	0.0
CP-OFDM QPSK	1	1	17.44	17.41	17.57	0-1.5	0.0

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Table 9-194
NR Band n25 Measured P_{limit} for DSI = 2 (Head) - 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	17.58	17.47	17.58	0	0.0
	1	13	17.47	17.50	17.55		0.0
	1	23	17.44	17.44	17.61		0.0
	12	0	17.43	17.32	17.68	0-0.5	0.0
	12	7	17.50	17.33	17.51	0	0.0
	12	13	17.48	17.38	17.58	0-0.5	0.0
	25	0	17.42	17.33	17.41		0.0
DFT-s-OFDM QPSK	1	1	17.42	17.32	17.56	0	0.0
	1	13	17.50	17.40	17.61		0.0
	1	23	17.28	17.41	17.50		0.0
	12	0	17.49	17.30	17.49	0-1	0.0
	12	7	17.36	17.29	17.42	0	0.0
	12	13	17.44	17.34	17.38	0-1	0.0
	25	0	17.46	17.31	17.66		0.0
DFT-s-OFDM 16QAM	1	1	17.67	17.41	17.47	0-1	0.0
CP-OFDM QPSK	1	1	17.51	17.42	17.63	0-1.5	0.0

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9.5.1

NR Band n30

Table 9-195

NR Band n30 Measured $P_{\max}$ for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.53	0	0.0
	1	26	23.49		0.0
	1	50	23.47		0.0
	25	0	22.96	0-0.5	0.5
	25	14	23.50	0	0.0
	25	27	23.03	0-0.5	0.5
	50	0	23.02		0.5
DFT-s-OFDM QPSK	1	1	23.57	0	0.0
	1	26	23.70		0.0
	1	50	23.43		0.0
	25	0	22.47	0-1	1.0
	25	14	23.52	0	0.0
	25	27	22.57	0-1	1.0
	50	0	22.20		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	22.56	0-1	1.0
	1	1	22.01	0-1.5	1.5

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Table 9-196
NR Band n30 Measured P_{max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 5 MHz Bandwidth

NR Band n30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.73	0	0.0
	1	13	23.65		0.0
	1	23	23.75		0.0
	12	0	23.28	0-0.5	0.5
	12	7	23.83	0	0.0
	12	13	23.26	0-0.5	0.5
	25	0	23.25		0.5
DFT-s-OFDM QPSK	1	1	23.86	0	0.0
	1	13	23.86		0.0
	1	23	23.82		0.0
	12	0	22.90	0-1	1.0
	12	7	23.89	0	0.0
	12	13	22.83	0-1	1.0
	25	0	22.80		1.0
DFT-s-OFDM 16QAM	1	1	22.97	0-1	1.0
CP-OFDM QPSK	1	1	22.42	0-1.5	1.5

Note: NR Band n30 at 5 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 9-197

NR Band n30 Measured P_{limit} for DSI = 3 (Hotspot) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.42	0	0.0
	1	26	19.48		0.0
	1	50	19.42		0.0
	25	0	19.45	0-0.5	0.0
	25	14	19.43	0	0.0
	25	27	19.52	0-0.5	0.0
	50	0	19.51		0.0
DFT-s-OFDM QPSK	1	1	19.59	0	0.0
	1	26	19.56		0.0
	1	50	19.44		0.0
	25	0	19.47	0-1	0.0
	25	14	19.53	0	0.0
	25	27	19.57	0-1	0.0
	50	0	19.51		0.0
DFT-s-OFDM 16QAM	1	1	19.74	0-1	0.0
CP-OFDM QPSK	1	1	19.64	0-1.5	0.0

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Table 9-198
NR Band n30 Measured P_{limit} for DSI = 3 (Hotspot) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 5 MHz Bandwidth

NR Band n30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.88	0	0.0
	1	13	19.95		0.0
	1	23	19.84		0.0
	12	0	19.86	0-0.5	0.0
	12	7	19.85	0	0.0
	12	13	19.86	0-0.5	0.0
	25	0	19.85		0.0
DFT-s-OFDM QPSK	1	1	19.96	0	0.0
	1	13	19.85		0.0
	1	23	19.99		0.0
	12	0	19.87	0-1	0.0
	12	7	19.82	0	0.0
	12	13	19.83	0-1	0.0
	25	0	19.89		0.0
DFT-s-OFDM 16QAM	1	1	19.97	0-1	0.0
CP-OFDM QPSK	1	1	19.99	0-1.5	0.0

Note: NR Band n30 at 5 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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9.5.2

NR Band n41 Antenna B

Table 9-199

NR Band n41 Measured P_{limit} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	18.30	0	0.0
	1	137	18.37		0.0
	1	271	18.23		0.0
	135	0	18.02	0-0.5	0.5
	135	69	18.41	0	0.0
	135	138	17.70	0-0.5	0.5
	270	0	17.99		0.5
DFT-s-OFDM QPSK	1	1	18.32	0	0.0
	1	137	18.48		0.0
	1	271	18.06		0.0
	135	0	17.34	0-1	1.0
	135	69	18.28	0	0.0
	135	138	17.27	0-1	1.0
	270	0	17.39		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	17.40	0-1	1.0
	1	1	16.80	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 9-200
NR Band n41 Measured P_{limit} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	17.95	18.17	0	0.0
	1	123	18.23	18.06		0.0
	1	243	18.29	17.91		0.0
	120	0	17.66	17.66	0-0.5	0.5
	120	63	18.33	18.11	0	0.0
	120	125	17.91	17.67	0-0.5	0.5
	243	0	17.78	17.77		0.5
DFT-s-OFDM QPSK	1	1	17.92	18.28	0	0.0
	1	123	18.33	18.30		0.0
	1	243	18.33	18.05		0.0
	120	0	17.21	17.29	0-1	1.0
	120	63	18.30	18.23	0	0.0
	120	125	17.45	17.11	0-1	1.0
	243	0	17.36	17.21		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	16.95	17.23	0-1	1.0
	1	1	16.36	16.79	0-1.5	1.5

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Table 9-201
NR Band n41 Measured P_{limit} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	17.79	18.25	0	0.0
	1	109	18.09	18.01		0.0
	1	215	18.22	17.88		0.0
	108	0	17.47	17.57	0-0.5	0.5
	108	55	18.09	18.05	0	0.0
	108	109	17.81	17.42	0-0.5	0.5
	216	0	17.58	17.50		0.5
DFT-s-OFDM QPSK	1	1	17.97	17.53	0	0.0
	1	109	18.11	17.95		0.0
	1	215	18.33	17.95		0.0
	108	0	16.93	17.13	0-1	1.0
	108	55	18.02	17.98	0	0.0
	108	109	17.31	16.95	0-1	1.0
	216	0	17.01	17.02		1.0
DFT-s-OFDM 16QAM	1	1	17.01	17.24	0-1	1.0
CP-OFDM QPSK	1	1	16.44	16.86	0-1.5	1.5

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Table 9-202
NR Band n41 Measured P_{limit} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	18.05	18.38	18.03	0	0.0
	1	81	18.19	18.31	18.06		0.0
	1	160	18.41	18.36	18.04		0.0
	81	0	17.58	17.76	17.56	0-0.5	0.5
	81	41	18.12	18.24	17.98	0	0.0
	81	81	17.71	17.72	17.45	0-0.5	0.5
	162	0	17.65	17.68	17.55		0.5
DFT-s-OFDM QPSK	1	1	18.10	18.28	18.11	0	0.0
	1	81	18.22	18.25	17.97		0.0
	1	160	18.49	18.23	17.99		0.0
	81	0	17.07	17.26	17.03	0-1	1.0
	81	41	18.15	18.19	18.01	0	0.0
	81	81	17.25	17.24	16.99	0-1	1.0
	162	0	17.14	17.22	17.02		1.0
DFT-s-OFDM 16QAM	1	1	17.22	17.35	17.07	0-1	1.0
CP-OFDM QPSK	1	1	16.58	16.78	16.63	0-1.5	1.5

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Table 9-203
NR Band n41 Measured P_{limit} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	18.16	18.47	18.10	0	0.0
	1	67	18.19	18.43	18.05		0.0
	1	131	18.51	18.39	18.07		0.0
	64	0	17.73	17.93	17.50	0-0.5	0.5
	64	35	18.13	18.39	18.02	0	0.0
	64	69	17.74	17.89	17.52	0-0.5	0.5
	128	0	17.76	17.87	17.53		0.5
DFT-s-OFDM QPSK	1	1	18.25	18.52	18.19	0	0.0
	1	67	18.24	18.40	18.07		0.0
	1	131	18.48	18.45	18.11		0.0
	64	0	17.14	17.36	16.97	0-1	1.0
	64	35	18.04	18.31	17.94	0	0.0
	64	69	17.15	17.29	16.93	0-1	1.0
	128	0	17.23	17.34	16.93		1.0
DFT-s-OFDM 16QAM	1	1	17.39	17.67	16.92	0-1	1.0
CP-OFDM QPSK	1	1	16.66	17.05	16.68	0-1.5	1.5

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Table 9-204
NR Band n41 Measured P_{limit} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [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	18.57	18.74	18.80	18.51	0	0.0
	1	53	18.49	18.83	18.61	18.34		0.0
	1	104	18.69	18.88	18.72	18.36		0.0
	50	0	17.99	18.39	18.08	17.83	0-0.5	0.5
	50	28	18.41	18.80	18.58	18.33	0	0.0
	50	56	18.02	18.29	18.02	17.88	0-0.5	0.5
	100	0	18.04	18.33	18.10	17.87		0.5
DFT-s-OFDM QPSK	1	1	18.67	18.75	18.80	18.67	0	0.0
	1	53	18.57	18.72	18.59	18.37		0.0
	1	104	18.68	18.86	18.65	18.50		0.0
	50	0	17.53	17.73	17.65	17.46	0-1	1.0
	50	28	18.54	18.66	18.56	18.42	0	0.0
	50	56	17.55	17.85	17.61	17.48	0-1	1.0
	100	0	17.58	17.69	17.62	17.47		1.0
DFT-s-OFDM 16QAM	1	1	17.77	17.67	17.93	17.72	0-1	1.0
CP-OFDM QPSK	1	1	17.23	17.09	17.25	17.15	0-1.5	1.5

Table 9-205
NR Band n41 Measured P_{limit} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 30 MHz Bandwidth

NR Band n41 30 MHz Bandwidth									
Modulation	RB Size	RB Offset	Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
			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	18.52	18.72	18.70	18.75	18.57	0	0.0
	1	39	18.55	18.67	18.58	18.49	18.35		0.0
	1	76	18.60	18.83	18.77	18.65	18.41		0.0
	36	0	18.02	18.17	18.28	18.16	17.91	0-0.5	0.5
	36	21	18.50	18.69	18.72	18.57	18.42	0	0.0
	36	42	18.05	18.36	18.23	18.18	17.92	0-0.5	0.5
	75	0	18.04	18.21	18.25	18.08	17.86		0.5
DFT-s-OFDM QPSK	1	1	18.64	18.70	18.67	18.81	18.51	0	0.0
	1	39	18.59	18.79	18.61	18.62	18.47		0.0
	1	76	18.45	18.45	18.48	18.39	18.46		0.0
	36	0	17.50	17.74	17.69	17.66	17.44	0-1	1.0
	36	21	18.49	18.71	18.62	18.58	18.37	0	0.0
	36	42	17.63	17.80	17.76	17.60	17.42	0-1	1.0
	75	0	17.61	17.69	17.71	17.57	17.42		1.0
DFT-s-OFDM 16QAM	1	1	17.69	17.82	17.81	17.85	17.56	0-1	1.0
CP-OFDM QPSK	1	1	17.10	17.12	17.14	17.27	17.18	0-1.5	1.5

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Table 9-206
NR Band n41 Measured P_{limit} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) - 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	18.22	18.26	18.44	18.32	18.04	0	0.0
	1	26	18.08	18.34	18.30	18.12	18.04		0.0
	1	49	18.20	18.44	18.32	18.23	18.02		0.0
	25	0	17.58	17.78	17.92	18.23	17.57	0-0.5	0.5
	25	13	17.59	18.33	18.43	18.19	18.10	0	0.0
	25	26	17.71	18.02	17.90	17.66	17.59	0-0.5	0.5
	50	0	17.56	18.00	17.87	17.66	17.60		0.5
DFT-s-OFDM QPSK	1	1	18.27	18.39	18.44	18.27	18.16	0	0.0
	1	26	18.16	18.39	18.33	18.17	18.05		0.0
	1	49	18.33	18.50	18.34	18.20	17.97		0.0
	25	0	17.17	17.24	17.36	17.11	17.02	0-1	1.0
	25	13	18.08	18.34	18.26	18.09	17.97	0	0.0
	25	26	17.23	17.40	17.28	17.06	17.02	0-1	1.0
	50	0	17.07	17.37	17.26	17.10	17.02		1.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	17.27	17.41	17.46	17.34	17.11	0-1	1.0
	1	1	16.74	17.07	16.85	16.73	16.73	0-1.5	1.5

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Table 9-207
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 100 MHz Bandwidth
NR Band n41
100 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	13.13	0	0.0
	1	137	13.19		0.0
	1	271	13.11		0.0
	135	0	13.19	0-0.5	0.0
	135	69	13.14	0	0.0
	135	138	13.16	0-0.5	0.0
	270	0	13.15		0.0
DFT-s-OFDM QPSK	1	1	13.17	0	0.0
	1	137	13.31		0.0
	1	271	13.19		0.0
	135	0	13.20	0-1	0.0
	135	69	13.14	0	0.0
	135	138	13.19	0-1	0.0
	270	0	13.12		0.0
DFT-s-OFDM 16QAM	1	1	13.26	0-1	0.0
CP-OFDM QPSK	1	1	13.02	0-1.5	0.0

Note: NR Band n41 at 100 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-208
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 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	12.70	12.98	0	0.0
	1	123	13.11	12.99		0.0
	1	243	13.19	12.71		0.0
	120	0	13.02	13.05	0-0.5	0.0
	120	63	13.16	12.95	0	0.0
	120	125	13.26	12.83	0-0.5	0.0
	243	0	13.14	12.98		0.0
DFT-s-OFDM QPSK	1	1	12.79	13.00	0	0.0
	1	123	13.12	12.97		0.0
	1	243	13.12	12.78		0.0
	120	0	13.04	13.06	0-1	0.0
	120	63	13.12	12.99	0	0.0
	120	125	13.27	12.99	0-1	0.0
	243	0	13.23	13.00		0.0
DFT-s-OFDM 16QAM	1	1	12.77	12.78		0.0
CP-OFDM QPSK	1	1	12.93	13.01	0-1.5	0.0

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Table 9-209
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 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	12.75	12.96	0	0.0
	1	109	13.08	12.91		0.0
	1	215	13.22	12.70		0.0
	108	0	12.87	12.92	0-0.5	0.0
	108	55	13.02	12.85	0	0.0
	108	109	13.29	12.81	0-0.5	0.0
	216	0	12.99	12.84		0.0
DFT-s-OFDM QPSK	1	1	12.77	12.89	0	0.0
	1	109	13.10	12.94		0.0
	1	215	13.15	12.75		0.0
	108	0	12.87	12.93	0-1	0.0
	108	55	12.99	12.85	0	0.0
	108	109	13.29	12.77	0-1	0.0
	216	0	13.04	12.86		0.0
DFT-s-OFDM 16QAM	1	1	12.82	12.91	0-1	0.0
CP-OFDM QPSK	1	1	12.69	12.94	0-1.5	0.0

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Table 9-210
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 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	12.93	13.17	12.84	0	0.0
	1	81	13.11	13.04	12.76		0.0
	1	160	13.32	13.03	12.73		0.0
	81	0	13.01	13.07	12.76	0-0.5	0.0
	81	41	13.00	13.03	12.69	0	0.0
	81	81	13.09	12.95	12.70	0-0.5	0.0
	162	0	13.06	13.05	12.69		0.0
DFT-s-OFDM QPSK	1	1	12.90	13.13	12.84	0	0.0
	1	81	13.09	13.05	12.82		0.0
	1	160	13.34	12.97	12.70		0.0
	81	0	12.99	13.04	12.76	0-1	0.0
	81	41	13.02	13.01	12.66	0	0.0
	81	81	13.07	13.01	12.70	0-1	0.0
	162	0	13.05	13.01	12.71		0.0
DFT-s-OFDM 16QAM	1	1	13.02	13.12	12.88	0-1	0.0
CP-OFDM QPSK	1	1	12.98	12.96	12.92	0-1.5	0.0

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Table 9-211
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 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	13.22	13.22	12.97	0	0.0
	1	67	13.16	13.11	12.74		0.0
	1	131	13.51	13.04	12.83		0.0
	64	0	13.22	13.07	12.78	0-0.5	0.0
	64	35	13.17	13.03	12.78	0	0.0
	64	69	13.24	13.01	12.75	0-0.5	0.0
	128	0	13.26	13.08	12.79		0.0
DFT-s-OFDM QPSK	1	1	13.14	13.24	12.98	0	0.0
	1	67	13.02	13.03	12.83		0.0
	1	131	13.22	13.05	12.79		0.0
	64	0	13.02	13.09	12.79	0-1	0.0
	64	35	12.97	13.06	12.79	0	0.0
	64	69	13.04	13.00	12.82	0-1	0.0
	128	0	13.07	13.03	12.81		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	12.81	12.80	12.77	0-1	0.0
	1	1	12.96	13.09	12.96	0-1.5	0.0

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Table 9-212
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [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	13.41	13.54	13.57	13.35	0	0.0
	1	53	13.34	13.57	13.42	13.19		0.0
	1	104	13.43	13.52	13.44	13.33		0.0
	50	0	13.28	13.62	13.42	13.30	0-0.5	0.0
	50	28	13.28	13.56	13.38	13.20	0	0.0
	50	56	13.29	13.55	13.44	13.27	0-0.5	0.0
	100	0	13.35	13.64	13.40	13.28		0.0
DFT-s-OFDM QPSK	1	1	13.29	13.62	13.58	13.39	0	0.0
	1	53	13.29	13.60	13.41	13.17		0.0
	1	104	13.48	13.59	13.38	13.32		0.0
	50	0	13.26	13.63	13.51	13.35	0-1	0.0
	50	28	13.27	13.59	13.42	13.30	0	0.0
	50	56	13.31	13.62	13.50	13.30	0-1	0.0
	100	0	13.34	13.60	13.49	13.31		0.0
DFT-s-OFDM 16QAM	1	1	12.96	13.33	13.21	13.17	0-1	0.0
CP-OFDM QPSK	1	1	13.31	13.50	13.49	13.39	0-1.5	0.0

Table 9-213
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 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	13.55	13.52	13.53	13.57	13.27	0	0.0
	1	39	13.46	13.65	13.54	13.35	13.18		0.0
	1	76	13.46	13.59	13.49	13.43	13.28		0.0
	36	0	13.34	13.58	13.57	13.50	13.22	0-0.5	0.0
	36	21	13.42	13.60	13.54	13.49	13.10	0	0.0
	36	42	13.45	13.61	13.58	13.52	13.18	0-0.5	0.0
	75	0	13.41	13.59	13.61	13.60	13.17		0.0
DFT-s-OFDM QPSK	1	1	13.53	13.64	13.35	13.54	13.32	0	0.0
	1	39	13.39	13.71	13.60	13.40	13.30		0.0
	1	76	13.46	13.65	13.43	13.57	13.28		0.0
	36	0	13.35	13.55	13.61	13.44	13.34	0-1	0.0
	36	21	13.35	13.62	13.57	13.46	13.33	0	0.0
	36	42	13.43	13.68	13.52	13.41	13.31	0-1	0.0
	75	0	13.40	13.60	13.60	13.40	13.27		0.0
DFT-s-OFDM 16QAM	1	1	13.52	13.54	13.74	13.60	13.30	0-1	0.0
CP-OFDM QPSK	1	1	13.30	13.47	13.43	13.51	13.25	0-1.5	0.0

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Table 9-214
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 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	13.09	13.12	13.07	12.94	12.94	0	0.0
	1	26	12.96	13.09	13.00	12.83	12.74		0.0
	1	49	13.11	13.27	13.10	12.94	12.77		0.0
	25	0	13.04	13.08	13.07	12.99	12.76	0-0.5	0.0
	25	13	12.96	13.12	13.05	12.86	12.79	0	0.0
	25	26	13.01	13.25	13.07	12.71	12.72	0-0.5	0.0
	50	0	12.92	13.13	13.05	12.77	12.81		0.0
DFT-s-OFDM QPSK	1	1	13.05	13.06	13.17	12.90	12.84	0	0.0
	1	26	12.87	13.10	12.94	12.84	12.78		0.0
	1	49	13.04	13.25	13.05	12.84	12.75		0.0
	25	0	13.06	13.04	13.10	12.82	12.81	0-1	0.0
	25	13	12.98	13.12	13.11	12.86	12.80	0	0.0
	25	26	13.04	13.17	13.03	12.57	12.74	0-1	0.0
	50	0	12.97	13.12	13.10	12.79	12.79		0.0
DFT-s-OFDM 16QAM	1	1	12.82	12.77	12.80	12.83	12.77	0-1	0.0
CP-OFDM QPSK	1	1	13.09	13.13	13.22	12.99	12.74	0-1.5	0.0

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Table 9-215

NR Band n41 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) -
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	14.09	0	0.0
	1	137	14.30		0.0
	1	271	13.89		0.0
	135	0	14.31	0-0.5	0.0
	135	69	14.25	0	0.0
	135	138	14.12	0-0.5	0.0
	270	0	14.20		0.0
DFT-s-OFDM QPSK	1	1	14.26	0	0.0
	1	137	14.29		0.0
	1	271	14.10		0.0
	135	0	14.25	0-1	0.0
	135	69	14.23	0	0.0
	135	138	14.10	0-1	0.0
	270	0	14.21		0.0
DFT-s-OFDM 16QAM	1	1	14.45	0-1	0.0
CP-OFDM QPSK	1	1	14.06	0-1.5	0.0

Note: NR Band n41 at 100 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-216

NR Band n41 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	13.86	14.00	0	0.0
	1	123	14.24	13.92		0.0
	1	243	14.15	13.67		0.0
	120	0	14.17	14.05	0-0.5	0.0
	120	63	14.28	13.98	0	0.0
	120	125	14.40	13.90	0-0.5	0.0
	243	0	14.24	13.96		0.0
DFT-s-OFDM QPSK	1	1	13.86	14.09	0	0.0
	1	123	14.33	14.03		0.0
	1	243	14.19	13.78		0.0
	120	0	14.12	14.05	0-1	0.0
	120	63	14.22	14.02	0	0.0
	120	125	14.34	13.86	0-1	0.0
	243	0	14.22	14.01		0.0
DFT-s-OFDM 16OAM CP-OFDM QPSK	1	1	13.79	14.11		0.0
	1	1	13.83	14.05	0-1.5	0.0

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Table 9-217

NR Band n41 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) -
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	13.83	14.09	0	0.0
	1	109	14.19	13.90		0.0
	1	215	14.24	13.70		0.0
	108	0	14.02	13.96	0-0.5	0.0
	108	55	14.17	13.92	0	0.0
	108	109	14.39	13.88	0-0.5	0.0
	216	0	14.14	13.94		0.0
DFT-s-OFDM QPSK	1	1	14.07	14.07	0	0.0
	1	109	14.22	13.92		0.0
	1	215	14.33	13.77		0.0
	108	0	13.99	13.98	0-1	0.0
	108	55	14.20	13.88	0	0.0
	108	109	14.42	13.82	0-1	0.0
	216	0	14.13	13.90		0.0
DFT-s-OFDM 16QAM	1	1	13.88	14.04	0-1	0.0
CP-OFDM QPSK	1	1	13.97	13.99	0-1.5	0.0

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Table 9-218
NR Band n41 Measured P_{limit} DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	13.82	13.70	13.93	0	0.0
	1	81	13.96	13.93	13.81		0.0
	1	160	14.30	13.85	13.85		0.0
	81	0	13.92	13.98	13.86	0-0.5	0.0
	81	41	14.01	14.06	13.82	0	0.0
	81	81	14.11	13.91	13.82	0-0.5	0.0
	162	0	14.09	13.93	13.86		0.0
DFT-s-OFDM QPSK	1	1	13.91	13.83	13.93	0	0.0
	1	81	14.07	13.49	13.88		0.0
	1	160	14.34	13.41	13.82		0.0
	81	0	14.02	13.40	13.88	0-1	0.0
	81	41	14.09	13.84	13.78	0	0.0
	81	81	14.19	13.94	13.80	0-1	0.0
	162	0	14.12	13.94	13.82		0.0
DFT-s-OFDM 16QAM	1	1	13.94	13.87	14.00	0-1	0.0
CP-OFDM QPSK	1	1	13.96	13.38	13.98	0-1.5	0.0

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Table 9-219

NR Band n41 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) -
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	13.82	14.18	13.92	0	0.0
	1	67	13.94	14.06	13.77		0.0
	1	131	14.16	14.03	13.78		0.0
	64	0	13.99	14.08	13.92	0-0.5	0.0
	64	35	13.97	14.13	13.87	0	0.0
	64	69	13.99	14.07	13.90	0-0.5	0.0
	128	0	14.06	14.10	13.92		0.0
DFT-s-OFDM QPSK	1	1	14.01	14.27	14.06	0	0.0
	1	67	13.94	14.09	13.84		0.0
	1	131	14.38	14.04	13.92		0.0
	64	0	14.30	14.14	13.97	0-1	0.0
	64	35	13.99	14.07	13.85	0	0.0
	64	69	14.03	14.10	13.87	0-1	0.0
	128	0	14.07	14.11	13.88		0.0
DFT-s-OFDM 16QAM	1	1	13.80	14.10	13.98	0-1	0.0
CP-OFDM QPSK	1	1	13.90	14.18	13.87	0-1.5	0.0

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Table 9-220

NR Band n41 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [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	14.50	14.55	14.56	14.33	0	0.0
	1	53	14.30	14.62	14.45	14.21		0.0
	1	104	14.38	14.52	14.38	14.27		0.0
	50	0	14.32	14.51	14.55	14.22	0-0.5	0.0
	50	28	14.36	14.57	14.49	14.19	0	0.0
	50	56	14.41	14.64	14.54	14.29	0-0.5	0.0
	100	0	14.43	14.65	14.58	14.25		0.0
DFT-s-OFDM QPSK	1	1	14.42	14.59	14.70	14.44	0	0.0
	1	53	14.28	14.64	14.48	14.21		0.0
	1	104	14.48	14.66	14.56	14.27		0.0
	50	0	14.31	14.62	14.63	14.32	0-1	0.0
	50	28	14.37	14.51	14.55	14.21	0	0.0
	50	56	14.35	14.67	14.56	14.31	0-1	0.0
	100	0	14.40	14.54	14.58	14.31		0.0
DFT-s-OFDM 16QAM	1	1	14.33	14.63	14.61	14.24	0-1	0.0
CP-OFDM QPSK	1	1	14.43	14.77	14.67	14.25	0-1.5	0.0

Table 9-221

NR Band n41 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	14.44	14.55	14.52	14.53	14.31	0	0.0
	1	39	14.51	14.62	14.59	14.42	14.20		0.0
	1	76	14.55	14.57	14.67	14.44	14.23		0.0
	36	0	14.44	14.61	14.55	14.49	14.18	0-0.5	0.0
	36	21	14.49	14.59	14.56	14.36	14.17	0	0.0
	36	42	14.48	14.66	14.60	14.48	14.20	0-0.5	0.0
	75	0	14.50	14.69	14.61	14.42	14.19		0.0
DFT-s-OFDM QPSK	1	1	14.60	14.76	14.61	14.65	14.35	0	0.0
	1	39	14.57	14.71	14.68	14.42	14.30		0.0
	1	76	14.57	14.54	14.59	14.49	14.29		0.0
	36	0	14.40	14.72	14.69	14.45	14.32	0-1	0.0
	36	21	14.46	14.73	14.70	14.43	14.22	0	0.0
	36	42	14.52	14.77	14.65	14.52	14.28	0-1	0.0
	75	0	14.50	14.75	14.63	14.60	14.19		0.0
DFT-s-OFDM 16QAM	1	1	14.65	14.61	14.78	14.48	14.37	0-1	0.0
CP-OFDM QPSK	1	1	14.68	14.63	14.62	14.65	14.31	0-1.5	0.0

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Table 9-222

NR Band n41 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	14.06	14.00	14.13	14.07	13.82	0	0.0
	1	26	13.86	14.12	14.03	13.89	13.63		0.0
	1	49	14.04	14.23	14.11	13.90	13.71		0.0
	25	0	13.95	14.03	14.13	14.02	13.83	0-0.5	0.0
	25	13	13.87	14.11	14.11	13.95	13.81	0	0.0
	25	26	13.99	14.23	14.11	13.91	13.81	0-0.5	0.0
	50	0	13.90	14.08	14.12	13.90	13.83		0.0
DFT-s-OFDM QPSK	1	1	14.03	14.13	14.22	13.97	13.85	0	0.0
	1	26	13.81	14.05	14.07	13.93	13.80		0.0
	1	49	13.98	14.19	14.11	13.92	13.79		0.0
	25	0	13.96	14.05	14.16	13.96	13.83	0-1	0.0
	25	13	13.91	14.17	14.12	13.90	13.81	0	0.0
	25	26	14.04	14.23	14.10	13.99	13.83	0-1	0.0
	50	0	13.93	14.16	14.10	13.91	13.82		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	13.90	14.06	14.22	14.10	13.84	0-1	0.0
	1	1	13.89	13.93	14.14	14.01	13.77	0-1.5	0.0

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9.5.1

NR Band n41 Antenna I

Table 9-223

NR Band n41 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	20.39	0	0.0
	1	137	20.48		0.0
	1	271	20.15		0.0
	135	0	19.91	0-0.5	0.5
	135	69	20.43	0	0.0
	135	138	19.88	0-0.5	0.5
	270	0	19.92		0.5
DFT-s-OFDM QPSK	1	1	20.37	0	0.0
	1	137	20.48		0.0
	1	271	20.18		0.0
	135	0	19.39	0-1	1.0
	135	69	20.46	0	0.0
	135	138	19.25	0-1	1.0
	270	0	19.33		1.0
DFT-s-OFDM 16QAM	1	1	19.44	0-1	1.0
CP-OFDM QPSK	1	1	18.97	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 9-224

NR Band n41 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	20.98	20.42	0	0.0
	1	123	20.54	20.34		0.0
	1	243	20.41	20.23		0.0
	120	0	20.45	19.92	0-0.5	0.5
	120	63	20.73	20.36	0	0.0
	120	125	20.12	19.80	0-0.5	0.5
	243	0	20.20	19.87		0.5
DFT-s-OFDM QPSK	1	1	20.91	20.44	0	0.0
	1	123	20.66	20.41		0.0
	1	243	20.45	20.37		0.0
	120	0	19.84	19.40	0-1	1.0
	120	63	20.73	20.40	0	0.0
	120	125	19.60	19.27	0-1	1.0
	243	0	19.72	19.35		1.0
DFT-s-OFDM 16QAM	1	1	19.44	19.12	0-1	1.0
CP-OFDM QPSK	1	1	19.28	18.86	0-1.5	1.5

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Table 9-225

NR Band n41 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	20.77	20.70	0	0.0
	1	109	20.76	20.57		0.0
	1	215	20.71	20.49		0.0
	108	0	20.45	20.04	0-0.5	0.5
	108	55	20.82	20.46	0	0.0
	108	109	20.15	19.97	0-0.5	0.5
	216	0	20.33	20.02		0.5
DFT-s-OFDM QPSK	1	1	20.80	20.66	0	0.0
	1	109	20.89	20.57		0.0
	1	215	20.77	20.50		0.0
	108	0	19.99	19.55	0-1	1.0
	108	55	20.87	20.49	0	0.0
	108	109	19.78	19.45	0-1	1.0
	216	0	19.86	19.49		1.0
DFT-s-OFDM 16QAM	1	1	19.74	19.37	0-1	1.0
CP-OFDM QPSK	1	1	19.30	18.93	0-1.5	1.5

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Table 9-226

NR Band n41 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	20.91	20.47	20.39	0	0.0
	1	81	20.89	20.52	20.28		0.0
	1	160	20.69	20.59	20.36		0.0
	81	0	20.47	20.06	19.87	0-0.5	0.5
	81	41	20.94	20.58	20.32	0	0.0
	81	81	20.35	20.11	19.85	0-0.5	0.5
	162	0	20.46	20.11	19.87		0.5
DFT-s-OFDM QPSK	1	1	20.76	20.63	20.35	0	0.0
	1	81	20.96	20.54	20.32		0.0
	1	160	20.78	20.67	20.45		0.0
	81	0	19.94	19.60	19.40	0-1	1.0
	81	41	20.76	20.57	20.34	0	0.0
	81	81	19.81	19.61	19.35	0-1	1.0
	162	0	19.92	19.55	19.28		1.0
DFT-s-OFDM 16QAM	1	1	19.80	19.35	19.09	0-1	1.0
CP-OFDM QPSK	1	1	19.31	19.14	18.85	0-1.5	1.5

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Table 9-227

NR Band n41 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	20.89	20.47	20.30	0	0.0
	1	67	20.99	20.35	20.18		0.0
	1	131	20.83	20.45	20.37		0.0
	64	0	20.43	19.93	19.75	0-0.5	0.5
	64	35	20.93	20.39	20.24	0	0.0
	64	69	20.23	19.90	19.75	0-0.5	0.5
	128	0	20.29	19.95	19.73		0.5
DFT-s-OFDM QPSK	1	1	20.81	20.64	20.46	0	0.0
	1	67	20.88	20.48	20.33		0.0
	1	131	20.81	20.59	20.46		0.0
	64	0	19.88	19.46	19.25	0-1	1.0
	64	35	20.89	20.48	20.26	0	0.0
	64	69	19.82	19.48	19.24	0-1	1.0
	128	0	19.83	19.50	19.22		1.0
DFT-s-OFDM 16QAM	1	1	19.79	19.30	19.17	0-1	1.0
CP-OFDM QPSK	1	1	19.40	19.16	18.80	0-1.5	1.5

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Table 9-228

NR Band n41 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [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	20.84	20.74	20.84	20.51	0	0.0
	1	53	20.80	20.62	20.73	20.34		0.0
	1	104	20.99	20.81	20.71	20.51		0.0
	50	0	20.32	20.26	20.18	19.93	0-0.5	0.5
	50	28	20.85	20.65	20.60	20.37	0	0.0
	50	56	20.49	20.27	20.13	19.90	0-0.5	0.5
	100	0	20.42	20.25	20.18	19.93		0.5
DFT-s-OFDM QPSK	1	1	20.87	20.87	20.85	20.68	0	0.0
	1	53	20.91	20.74	20.72	20.56		0.0
	1	104	20.85	20.88	20.71	20.67		0.0
	50	0	19.90	19.75	19.64	19.49	0-1	1.0
	50	28	20.92	20.76	20.60	20.46	0	0.0
	50	56	20.00	19.79	19.56	19.48	0-1	1.0
	100	0	19.96	19.78	19.60	19.47		1.0
DFT-s-OFDM 16QAM	1	1	19.93	19.93	19.58	19.62	0-1	1.0
CP-OFDM QPSK	1	1	19.33	19.45	19.24	19.21	0-1.5	1.5

Table 9-229

NR Band n41 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	20.54	20.60	20.78	20.91	20.55	0	0.0
	1	39	20.68	20.65	20.71	20.67	20.45		0.0
	1	76	20.91	20.93	20.85	20.82	20.57		0.0
	36	0	20.21	20.19	20.25	20.30	19.96	0-0.5	0.5
	36	21	20.70	20.72	20.77	20.78	20.68	0	0.0
	36	42	20.34	20.38	20.26	20.29	20.07	0-0.5	0.5
75	0	20.19	20.23	20.31	20.30	20.01	0.5		
DFT-s-OFDM QPSK	1	1	20.82	20.89	20.72	20.91	20.62	0	0.0
	1	39	20.87	20.93	20.70	20.95	20.45		0.0
	1	76	20.90	20.88	20.89	20.90	20.68		0.0
	36	0	19.70	19.82	19.66	19.85	19.41	0-1	1.0
	36	21	20.72	20.69	20.75	20.78	20.42	0	0.0
	36	42	19.89	19.85	19.71	19.65	19.48	0-1	1.0
	75	0	19.80	19.75	19.57	19.65	19.75		1.0
DFT-s-OFDM 16QAM	1	1	19.76	19.99	19.63	19.85	19.61	0-1	1.0
CP-OFDM QPSK	1	1	19.33	19.44	19.05	19.38	19.18	0-1.5	1.5

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Table 9-230

NR Band n41 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 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	20.54	20.69	20.42	20.46	20.26	0	0.0
	1	26	20.58	20.61	20.39	20.41	20.19		0.0
	1	49	20.91	20.64	20.60	20.51	20.31		0.0
	25	0	20.34	20.08	20.06	19.97	19.78	0-0.5	0.5
	25	13	20.85	20.58	20.54	20.44	20.28	0	0.0
	25	26	20.26	20.07	20.03	19.97	19.76	0-0.5	0.5
	50	0	20.31	20.09	20.06	19.92	19.80		0.5
DFT-s-OFDM QPSK	1	1	20.93	20.71	20.63	20.54	20.33	0	0.0
	1	26	20.82	20.52	20.53	20.35	20.29		0.0
	1	49	20.85	20.59	20.66	20.46	20.38		0.0
	25	0	19.82	19.74	19.61	19.40	19.28	0-1	1.0
	25	13	20.84	20.64	20.65	20.45	20.31	0	0.0
	25	26	19.79	19.55	19.60	19.42	19.26	0-1	1.0
	50	0	19.74	19.55	19.59	19.45	19.30		1.0
DFT-s-OFDM 16QAM	1	1	19.79	19.82	19.73	19.70	19.44	0-1	1.0
CP-OFDM QPSK	1	1	19.44	19.13	19.06	18.87	18.84	0-1.5	1.5

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Table 9-231
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 100 MHz Bandwidth
NR Band n41
100 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.29	0	0.0
	1	137	18.41		0.0
	1	271	18.04		0.0
	135	0	18.31	0-0.5	0.0
	135	69	18.31	0	0.0
	135	138	18.24	0-0.5	0.0
	270	0	18.31		0.0
DFT-s-OFDM QPSK	1	1	18.27	0	0.0
	1	137	18.39		0.0
	1	271	18.09		0.0
	135	0	18.38	0-1	0.0
	135	69	18.34	0	0.0
	135	138	18.26	0-1	0.0
	270	0	18.30		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	18.39	0-1	0.0
	1	1	18.38	0-1.5	0.0

Note: NR Band n41 at 100 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-232
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 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	18.12	18.08	0	0.0
	1	123	18.48	18.09		0.0
	1	243	18.25	17.95		0.0
	120	0	18.35	18.07	0-0.5	0.0
	120	63	18.53	18.12	0	0.0
	120	125	18.44	18.15	0-0.5	0.0
	243	0	18.42	18.09		0.0
DFT-s-OFDM QPSK	1	1	18.36	18.08	0	0.0
	1	123	18.55	18.06		0.0
	1	243	18.48	18.10		0.0
	120	0	18.49	18.13	0-1	0.0
	120	63	18.39	18.09	0	0.0
	120	125	18.42	18.05	0-1	0.0
	243	0	18.50	18.12		0.0
DFT-s-OFDM 16QAM	1	1	18.03	17.90	0-1	0.0
CP-OFDM QPSK	1	1	18.25	18.09	0-1.5	0.0

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Table 9-233
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 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	18.09	18.03	0	0.0
	1	109	18.21	17.93		0.0
	1	215	18.04	17.84		0.0
	108	0	18.18	17.92	0-0.5	0.0
	108	55	18.24	17.89	0	0.0
	108	109	18.17	17.86	0-0.5	0.0
	216	0	18.18	17.92		0.0
DFT-s-OFDM QPSK	1	1	18.32	18.12	0	0.0
	1	109	18.35	17.97		0.0
	1	215	18.17	17.94		0.0
	108	0	18.24	17.96	0-1	0.0
	108	55	18.26	17.88	0	0.0
	108	109	18.20	17.87	0-1	0.0
	216	0	18.21	17.88		0.0
DFT-s-OFDM 16QAM	1	1	18.33	18.17	0-1	0.0
CP-OFDM QPSK	1	1	18.24	18.09	0-1.5	0.0

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Table 9-234
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 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	18.03	18.05	17.94	0	0.0
	1	81	18.19	18.04	17.86		0.0
	1	160	18.03	17.97	17.99		0.0
	81	0	18.19	18.08	17.82	0-0.5	0.0
	81	41	18.22	18.07	17.82	0	0.0
	81	81	18.20	18.10	17.89	0-0.5	0.0
	162	0	18.14	18.05	17.85		0.0
DFT-s-OFDM QPSK	1	1	18.24	18.17	18.01	0	0.0
	1	81	18.28	18.21	17.88		0.0
	1	160	18.23	18.15	17.99		0.0
	81	0	18.22	18.13	17.85	0-1	0.0
	81	41	18.25	18.15	17.84	0	0.0
	81	81	18.23	18.13	17.89	0-1	0.0
	162	0	18.17	18.11	17.91		0.0
DFT-s-OFDM 16QAM	1	1	18.22	18.19	17.99	0-1	0.0
CP-OFDM QPSK	1	1	18.27	18.22	18.04	0-1.5	0.0

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Table 9-235
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 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	18.18	18.08	17.80	0	0.0
	1	67	18.28	18.06	17.77		0.0
	1	131	18.24	18.02	17.88		0.0
	64	0	18.12	18.04	17.75	0-0.5	0.0
	64	35	18.31	18.09	17.75	0	0.0
	64	69	18.22	18.03	17.79	0-0.5	0.0
	128	0	18.19	18.07	17.82		0.0
DFT-s-OFDM QPSK	1	1	18.35	18.16	17.81	0	0.0
	1	67	18.39	18.06	17.81		0.0
	1	131	18.42	18.07	17.84		0.0
	64	0	18.21	17.98	17.77	0-1	0.0
	64	35	18.31	18.01	17.79	0	0.0
	64	69	18.32	18.03	17.85	0-1	0.0
	128	0	18.17	18.04	17.82		0.0
DFT-s-OFDM 16QAM	1	1	18.29	18.19	17.97	0-1	0.0
CP-OFDM QPSK	1	1	18.14	18.13	17.88	0-1.5	0.0

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Table 9-236
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [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	18.61	18.52	18.50	18.22	0	0.0
	1	53	18.58	18.43	18.34	18.19		0.0
	1	104	18.69	18.63	18.35	18.34		0.0
	50	0	18.61	18.57	18.51	18.23	0-0.5	0.0
	50	28	18.60	18.55	18.39	18.25	0	0.0
	50	56	18.66	18.63	18.40	18.29	0-0.5	0.0
	100	0	18.68	18.59	18.42	18.26		0.0
DFT-s-OFDM QPSK	1	1	18.71	18.64	18.61	18.24	0	0.0
	1	53	18.61	18.46	18.43	18.20		0.0
	1	104	18.75	18.67	18.41	18.41		0.0
	50	0	18.67	18.60	18.53	18.30	0-1	0.0
	50	28	18.65	18.56	18.42	18.26	0	0.0
	50	56	18.74	18.64	18.43	18.33	0-1	0.0
	100	0	18.68	18.61	18.46	18.34		0.0
DFT-s-OFDM 16QAM	1	1	18.85	18.73	18.72	18.44	0-1	0.0
CP-OFDM QPSK	1	1	18.72	18.56	18.63	18.30	0-1.5	0.0

Table 9-237
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 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	18.69	18.69	18.61	18.49	18.33	0	0.0
	1	39	18.61	18.50	18.52	18.28	18.28		0.0
	1	76	18.83	18.69	18.66	18.43	18.35		0.0
	36	0	18.58	18.66	18.57	18.39	18.22	0-0.5	0.0
	36	21	18.64	18.54	18.53	18.28	18.23	0	0.0
	36	42	18.71	18.61	18.60	18.33	18.32	0-0.5	0.0
	75	0	18.70	18.59	18.58	18.39	18.28		0.0
DFT-s-OFDM QPSK	1	1	18.71	18.73	18.63	18.54	18.30	0	0.0
	1	39	18.63	18.52	18.58	18.31	18.25		0.0
	1	76	18.82	18.69	18.67	18.38	18.38		0.0
	36	0	18.64	18.71	18.61	18.45	18.33	0-1	0.0
	36	21	18.69	18.56	18.58	18.33	18.25	0	0.0
	36	42	18.79	18.64	18.57	18.35	18.35	0-1	0.0
	75	0	18.75	18.61	18.65	18.41	18.32		0.0
DFT-s-OFDM 16QAM	1	1	18.88	18.81	18.76	18.63	18.38	0-1	0.0
CP-OFDM QPSK	1	1	18.79	18.79	18.62	18.47	18.34	0-1.5	0.0

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Table 9-238
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot) - 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	18.30	18.31	18.24	18.06	17.91	0	0.0
	1	26	18.32	18.22	18.17	17.92	17.87		0.0
	1	49	18.42	18.26	18.22	17.93	17.95		0.0
	25	0	18.30	18.32	18.23	18.04	17.90	0-0.5	0.0
	25	13	18.33	18.23	18.25	17.97	17.91	0	0.0
	25	26	18.34	18.22	18.24	17.98	17.94	0-0.5	0.0
	50	0	18.40	18.20	18.19	17.93	17.92		0.0
DFT-s-OFDM QPSK	1	1	18.38	18.35	18.34	18.03	17.96	0	0.0
	1	26	18.35	18.15	18.13	17.92	17.88		0.0
	1	49	18.47	18.22	18.21	17.99	17.93		0.0
	25	0	18.31	18.35	18.26	18.07	17.93	0-1	0.0
	25	13	18.39	18.24	18.23	17.99	17.91	0	0.0
	25	26	18.41	18.28	18.28	18.01	17.96	0-1	0.0
	50	0	18.40	18.27	18.31	17.97	17.96		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	18.38	18.36	18.25	18.17	18.01	0-1	0.0
	1	1	18.44	18.40	18.33	18.02	17.96	0-1.5	0.0

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Table 9-239
NR Band n41 Measured P_{limit} for DSI = 2 (Head) - 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	16.30	0	0.0
	1	137	16.34		0.0
	1	271	15.97		0.0
	135	0	16.29	0-0.5	0.0
	135	69	16.31	0	0.0
	135	138	16.17	0-0.5	0.0
	270	0	16.18		0.0
DFT-s-OFDM QPSK	1	1	16.23	0	0.0
	1	137	16.33		0.0
	1	271	15.96		0.0
	135	0	16.30	0-1	0.0
	135	69	16.26	0	0.0
	135	138	16.16	0-1	0.0
	270	0	16.21		0.0
DFT-s-OFDM 16QAM CP-OFDM QPSK	1	1	16.28	0-1	0.0
	1	1	16.34	0-1.5	0.0

Note: NR Band n41 at 100 MHz bandwidth does not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 9-240
NR Band n41 Measured P_{limit} for DSI = 2 (Head) - 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	16.14	15.94	0	0.0
	1	123	16.23	15.79		0.0
	1	243	16.00	15.70		0.0
	120	0	16.18	15.92	0-0.5	0.0
	120	63	16.24	15.79	0	0.0
	120	125	16.14	15.77	0-0.5	0.0
	243	0	16.16	15.85		0.0
DFT-s-OFDM QPSK	1	1	16.08	15.95	0	0.0
	1	123	16.22	15.81		0.0
	1	243	16.05	15.70		0.0
	120	0	16.23	15.93	0-1	0.0
	120	63	16.23	15.80	0	0.0
	120	125	16.11	15.81	0-1	0.0
	243	0	16.23	15.89		0.0
DFT-s-OFDM 16QAM	1	1	16.05	15.95	0-1	0.0
CP-OFDM QPSK	1	1	16.19	15.97	0-1.5	0.0

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Table 9-241
NR Band n41 Measured P_{limit} for DSI = 2 (Head) - 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	16.04	15.90	0	0.0
	1	109	16.15	15.75		0.0
	1	215	15.98	15.72		0.0
	108	0	16.15	15.78	0-0.5	0.0
	108	55	16.17	15.77	0	0.0
	108	109	16.12	15.76	0-0.5	0.0
	216	0	16.11	15.78		0.0
DFT-s-OFDM QPSK	1	1	16.10	15.96	0	0.0
	1	109	16.23	15.78		0.0
	1	215	16.07	15.71		0.0
	108	0	16.23	15.86	0-1	0.0
	108	55	16.23	15.82	0	0.0
	108	109	16.21	15.79	0-1	0.0
	216	0	16.16	15.82		0.0
DFT-s-OFDM 16QAM	1	1	16.24	15.98	0-1	0.0
CP-OFDM QPSK	1	1	16.17	15.96	0-1.5	0.0

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Table 9-242
NR Band n41 Measured P_{limit} for DSI = 2 (Head) - 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	15.87	15.91	15.50	0	0.0
	1	81	15.95	15.88	15.38		0.0
	1	160	15.89	15.76	15.44		0.0
	81	0	15.95	15.90	15.47	0-0.5	0.0
	81	41	15.98	15.86	15.44	0	0.0
	81	81	15.99	15.83	15.40	0-0.5	0.0
	162	0	15.93	15.86	15.44		0.0
DFT-s-OFDM QPSK	1	1	15.98	15.99	15.63	0	0.0
	1	81	16.13	15.93	15.55		0.0
	1	160	15.96	15.89	15.48		0.0
	81	0	16.02	15.95	15.47	0-1	0.0
	81	41	16.11	15.94	15.48	0	0.0
	81	81	16.10	15.86	15.50	0-1	0.0
	162	0	16.02	15.92	15.53		0.0
DFT-s-OFDM 16QAM	1	1	15.81	15.77	15.30	0-1	0.0
CP-OFDM QPSK	1	1	16.06	16.02	15.74	0-1.5	0.0

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Table 9-243
NR Band n41 Measured P_{limit} for DSI = 2 (Head) - 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	16.07	16.08	15.61	0	0.0
	1	67	16.15	16.00	15.48		0.0
	1	131	16.11	15.94	15.58		0.0
	64	0	15.96	15.93	15.43	0-0.5	0.0
	64	35	16.17	15.92	15.45	0	0.0
	64	69	16.11	15.90	15.45	0-0.5	0.0
	128	0	16.12	15.95	15.44		0.0
DFT-s-OFDM QPSK	1	1	16.27	16.00	15.68	0	0.0
	1	67	16.28	15.96	15.57		0.0
	1	131	16.27	15.91	15.68		0.0
	64	0	16.09	15.96	15.51	0-1	0.0
	64	35	16.26	15.98	15.54	0	0.0
	64	69	16.19	15.94	15.53	0-1	0.0
	128	0	16.14	15.93	15.53		0.0
DFT-s-OFDM 16QAM	1	1	15.97	15.80	15.42	0-1	0.0
CP-OFDM QPSK	1	1	16.23	16.08	15.73	0-1.5	0.0

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Table 9-244
NR Band n41 Measured P_{limit} for DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [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	16.51	16.51	16.39	16.00	0	0.0
	1	53	16.49	16.38	16.18	15.92		0.0
	1	104	16.58	16.56	16.15	16.05		0.0
	50	0	16.43	16.42	16.26	15.97	0-0.5	0.0
	50	28	16.46	16.39	16.16	15.91	0	0.0
	50	56	16.56	16.45	16.15	15.97	0-0.5	0.0
	100	0	16.51	16.44	16.19	15.93		0.0
DFT-s-OFDM QPSK	1	1	16.66	16.54	16.50	16.13	0	0.0
	1	53	16.58	16.47	16.31	15.98		0.0
	1	104	16.71	16.60	16.28	16.10		0.0
	50	0	16.59	16.46	16.40	15.99	0-1	0.0
	50	28	16.52	16.43	16.21	15.94	0	0.0
	50	56	16.61	16.49	16.20	15.98	0-1	0.0
	100	0	16.61	16.44	16.31	16.03		0.0
DFT-s-OFDM 16QAM	1	1	16.40	16.33	16.20	15.82	0-1	0.0
CP-OFDM QPSK	1	1	16.72	16.59	16.57	16.11	0-1.5	0.0

Table 9-245
NR Band n41 Measured P_{limit} for DSI = 2 (Head) - 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	16.62	16.85	16.67	16.66	16.51	0	0.0
	1	39	16.54	16.59	16.52	16.45	16.30		0.0
	1	76	16.87	16.80	16.69	16.47	16.42		0.0
	36	0	16.47	16.79	16.60	16.45	16.36	0-0.5	0.0
	36	21	16.53	16.62	16.52	16.45	16.32	0	0.0
	36	42	16.74	16.67	16.62	16.45	16.32	0-0.5	0.0
	75	0	16.66	16.70	16.56	16.44	16.36		0.0
DFT-s-OFDM QPSK	1	1	16.69	16.79	16.69	16.58	16.36	0	0.0
	1	39	16.59	16.61	16.50	16.42	16.38		0.0
	1	76	16.88	16.78	16.64	16.49	16.41		0.0
	36	0	16.58	16.80	16.61	16.50	16.32	0-1	0.0
	36	21	16.67	16.65	16.52	16.42	16.27	0	0.0
	36	42	16.74	16.70	16.62	16.44	16.34	0-1	0.0
	75	0	16.70	16.71	16.60	16.47	16.37		0.0
DFT-s-OFDM 16QAM	1	1	16.91	16.83	16.61	16.59	16.72	0-1	0.0
CP-OFDM QPSK	1	1	16.83	16.86	16.66	16.68	16.51	0-1.5	0.0

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Table 9-246
NR Band n41 Measured P_{limit} for DSI = 2 (Head) - 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	16.22	16.22	16.14	15.80	15.59	0	0.0
	1	26	16.18	16.08	16.01	15.63	15.48		0.0
	1	49	16.24	16.13	16.06	15.66	15.61		0.0
	25	0	16.08	16.21	16.10	15.70	15.56	0-0.5	0.0
	25	13	16.17	16.02	16.00	15.67	15.54	0	0.0
	25	26	16.10	16.00	15.99	15.64	15.55	0-0.5	0.0
50	0	16.16	16.07	16.01	15.67	15.50	0.0		
DFT-s-OFDM QPSK	1	1	16.30	16.31	16.19	15.88	15.72	0	0.0
	1	26	16.15	16.04	16.05	15.74	15.56		0.0
	1	49	16.29	16.17	16.09	15.70	15.62		0.0
	25	0	16.19	16.19	16.07	15.71	15.55	0-1	0.0
	25	13	16.18	16.03	16.08	15.66	15.56	0	0.0
	25	26	16.20	16.04	16.07	15.71	15.54	0-1	0.0
	50	0	16.19	16.09	16.08	15.74	15.57		0.0
DFT-s-OFDM 16QAM	1	1	16.09	15.95	15.88	15.53	15.37	0-1	0.0
CP-OFDM QPSK	1	1	16.40	16.33	16.26	15.91	15.62	0-1.5	0.0

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9.5.1

NR Band n77

Table 9-247

NR Band n77 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.41	19.34	0	0.0
	1	137	19.52	19.77		0.0
	1	271	19.79	18.96		0.0
	135	0	19.20	18.99	0-0.5	0.5
	135	69	19.75	19.49	0	0.0
	135	138	19.02	18.79	0-0.5	0.5
	270	0	19.13	18.95		0.5
DFT-s-OFDM QPSK	1	1	19.33	19.49	0	0.0
	1	137	19.55	19.57		0.0
	1	271	19.71	19.50		0.0
	135	0	18.58	18.52	0-1	1.0
	135	69	19.92	19.52	0	0.0
	135	138	18.63	18.25	0-1	1.0
	270	0	18.72	18.44		1.0
DFT-s-OFDM 16QAM	1	1	18.32	18.24	0-1	1.0
CP-OFDM QPSK	1	1	17.96	17.89	0-1.5	1.5

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Table 9-248

NR Band n77 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 90 MHz Bandwidth

NR Band n77 90 MHz Bandwidth							
Modulation	RB Size	RB Offset	649668 (3745.02 MHz)	656000 (3840 MHz)	662332 (3934.98 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.33	19.10	19.50	0	0.0
	1	123	19.88	19.35	19.81		0.0
	1	243	19.70	19.33	19.50		0.0
	120	0	19.28	18.77	19.14	0-0.5	0.5
	120	63	19.81	19.38	19.70	0	0.0
	120	125	19.45	18.95	19.11	0-0.5	0.5
	243	0	19.43	18.93	19.11		0.5
DFT-s-OFDM QPSK	1	1	19.52	19.41	19.63	0	0.0
	1	123	19.84	19.48	19.82		0.0
	1	243	19.77	19.58	19.50		0.0
	120	0	18.80	18.45	18.62	0-1	1.0
	120	63	19.97	19.50	19.74	0	0.0
	120	125	18.92	18.61	18.65	0-1	1.0
	243	0	18.97	18.60	18.67		1.0
DFT-s-OFDM 16QAM	1	1	18.50	18.30	18.40	0-1	1.0
CP-OFDM QPSK	1	1	17.90	18.00	17.99	0-1.5	1.5

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Table 9-249

NR Band n77 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 80 MHz Bandwidth

NR Band n77 80 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	649334 (3740.01 MHz)	656000 (3840 MHz)	662666 (3939.99 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.61	19.56	19.52	0	0.0
	1	109	19.95	19.70	19.75		0.0
	1	215	19.90	19.69	19.44		0.0
	108	0	19.41	19.12	19.22	0-0.5	0.5
	108	55	19.85	19.65	19.78	0	0.0
	108	109	19.35	19.21	19.18	0-0.5	0.5
	216	0	19.31	19.25	19.18		0.5
DFT-s-OFDM QPSK	1	1	19.75	19.75	19.65	0	0.0
	1	109	19.95	19.65	19.80		0.0
	1	215	19.80	19.90	19.59		0.0
	108	0	18.94	18.66	18.75	0-1	1.0
	108	55	19.92	19.65	19.77	0	0.0
	108	109	18.86	18.80	18.72	0-1	1.0
	216	0	18.83	18.75	18.75		1.0
DFT-s-OFDM 16QAM	1	1	18.60	18.41	18.60	0-1	1.0
CP-OFDM QPSK	1	1	18.20	18.30	18.30	0-1.5	1.5

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NR Band n77 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 70 MHz Bandwidth

NR Band n77 70 MHz Bandwidth								
Modulation	RB Size	RB Offset	649000 (3735 MHz)	653666 (3804.99 MHz)	658334 (3875.01 MHz)	663000 (3945 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.25	19.50	19.22	19.40	0	0.0
	1	95	19.77	19.57	19.50	19.60		0.0
	1	187	19.70	19.37	19.55	19.45		0.0
	90	0	19.12	19.20	18.99	19.01	0-0.5	0.5
	90	50	19.80	19.60	19.62	19.59	0	0.0
	90	99	19.27	18.99	19.05	18.99	0-0.5	0.5
	180	0	19.27	19.05	19.05	18.99		0.5
DFT-s-OFDM QPSK	1	1	19.55	19.92	19.40	19.60	0	0.0
	1	95	19.85	19.85	19.70	19.67		0.0
	1	187	19.80	19.62	19.60	19.35		0.0
	90	0	18.62	18.75	18.55	18.60	0-1	1.0
	90	50	19.80	19.66	19.65	19.65	0	0.0
	90	99	18.77	18.50	18.67	18.55	0-1	1.0
	180	0	18.77	18.60	18.65	18.60		1.0
DFT-s-OFDM 16QAM	1	1	18.90	18.89	18.70	18.50	0-1	1.0
CP-OFDM QPSK	1	1	18.10	18.40	18.30	18.25	0-1.5	1.5

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NR Band n77 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 60 MHz Bandwidth

NR Band n77 60 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	648668 (3730.02 MHz)	653556 (3803.34 MHz)	658444 (3876.66 MHz)	663332 (3949.98 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.75	19.99	19.56	19.58	0	0.0
	1	81	19.97	19.85	19.80	19.68		0.0
	1	160	19.85	19.70	19.80	19.58		0.0
	81	0	19.41	19.31	19.16	19.17	0-0.5	0.5
	81	41	19.95	19.86	19.81	19.68	0	0.0
	81	81	19.38	19.25	19.37	19.18	0-0.5	0.5
	162	0	19.43	19.35	19.30	19.19		0.5
DFT-s-OFDM QPSK	1	1	19.80	20.00	19.75	19.67	0	0.0
	1	81	19.99	19.86	19.86	19.66		0.0
	1	160	19.98	19.80	19.88	19.69		0.0
	81	0	18.96	18.81	18.72	18.57	0-1	1.0
	81	41	19.97	19.84	19.89	19.52	0	0.0
	81	81	18.95	18.80	18.95	18.67	0-1	1.0
	162	0	18.91	18.90	18.84	18.60		1.0
DFT-s-OFDM 16QAM	1	1	18.70	18.81	18.50	18.65	0-1	1.0
CP-OFDM QPSK	1	1	18.34	18.49	18.00	18.14	0-1.5	1.5

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NR Band n77 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 50 MHz Bandwidth

NR Band n77 50 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	648334 (3725.01 MHz)	652166 (3782.49 MHz)	656000 (3840 MHz)	659834 (3897.51 MHz)	663666 (3954.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.50	19.77	19.15	19.60	19.77	0	0.0
	1	67	19.80	19.89	19.40	19.50	19.74		0.0
	1	131	19.85	19.82	19.64	19.68	19.78		0.0
	64	0	19.25	19.44	18.98	18.75	19.23	0-0.5	0.5
	64	35	19.90	19.98	19.47	19.60	19.66	0	0.0
	64	69	19.45	19.26	19.10	18.65	19.19	0-0.5	0.5
	128	0	19.42	19.40	19.05	18.60	19.28		0.5
DFT-s-OFDM QPSK	1	1	19.71	19.92	19.40	19.65	19.69	0	0.0
	1	67	19.80	19.82	19.50	19.65	19.81		0.0
	1	131	19.78	19.80	19.81	19.72	19.88		0.0
	64	0	18.72	18.85	18.50	18.70	18.76	0-1	1.0
	64	35	20.00	19.95	19.58	19.64	19.73	0	0.0
	64	69	18.99	18.85	18.61	18.70	18.85	0-1	1.0
	128	0	18.95	18.89	18.53	18.60	18.82		1.0
DFT-s-OFDM 16QAM	1	1	18.60	18.99	18.77	18.81	18.73	0-1	1.0
CP-OFDM QPSK	1	1	18.12	18.40	17.90	18.20	18.23	0-1.5	1.5

Table 9-253

NR Band n77 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 40 MHz Bandwidth

NR Band n77 40 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	648000 (3720 MHz)	651200 (3768 MHz)	654400 (3816 MHz)	657600 (3864 MHz)	660800 (3912 MHz)	664000 (3960 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.60	19.64	19.70	19.77	19.59	19.86	0	0.0
	1	53	19.72	19.67	19.77	19.80	19.48	19.62		0.0
	1	104	19.67	19.55	19.76	19.78	19.48	19.70		0.0
	50	0	19.14	19.24	19.39	19.37	18.88	19.22	0-0.5	0.5
	50	28	19.71	19.55	19.61	19.80	19.43	19.68	0	0.0
	50	56	19.24	19.38	19.24	19.24	18.96	19.19	0-0.5	0.5
	100	0	19.11	19.22	19.15	19.32	18.88	19.19		0.5
DFT-s-OFDM QPSK	1	1	19.58	19.66	19.75	19.85	19.41	19.87	0	0.0
	1	53	19.63	19.72	19.66	19.88	19.47	19.77		0.0
	1	104	19.89	19.64	19.54	19.74	19.47	19.81		0.0
	50	0	18.66	18.55	18.62	18.69	18.33	18.77	0-1	1.0
	50	28	19.80	19.76	19.67	19.88	19.36	19.70	0	0.0
	50	56	18.77	18.60	18.59	18.73	18.48	18.70	0-1	1.0
	100	0	18.81	18.69	18.78	18.85	18.39	18.76		1.0
DFT-s-OFDM 16QAM	1	1	18.93	18.76	18.88	18.75	18.49	18.87	0-1	1.0
CP-OFDM QPSK	1	1	18.32	18.22	18.14	18.34	18.08	18.37	0-1.5	1.5

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Table 9-254

NR Band n77 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 30 MHz Bandwidth

NR Band n77 30 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	647668 (3715.02 MHz)	651000 (3765 MHz)	654334 (3815.01 MHz)	657666 (3864.99 MHz)	661000 (3915 MHz)	664332 (3964.98 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.80	19.82	19.90	19.72	19.80	19.92	0	0.0
	1	39	19.88	19.72	19.75	19.70	19.75	19.57		0.0
	1	76	19.82	19.82	19.88	19.80	19.90	19.72		0.0
	36	0	19.37	19.17	19.27	19.13	19.30	19.17	0-0.5	0.5
	36	21	19.95	19.74	19.82	19.54	19.77	19.68	0	0.0
	36	42	19.43	19.22	19.35	19.30	19.30	19.22	0-0.5	0.5
	75	0	19.31	19.26	19.30	19.28	19.30	19.17		0.5
DFT-s-OFDM QPSK	1	1	19.87	19.92	19.99	19.85	19.83	19.97	0	0.0
	1	39	19.77	19.80	19.77	19.70	19.78	19.72		0.0
	1	76	19.82	19.92	19.86	19.80	19.99	19.71		0.0
	36	0	18.93	18.74	18.80	18.91	18.75	18.74	0-1	1.0
	36	21	19.90	19.76	19.81	19.75	19.76	19.60	0	0.0
	36	42	18.74	18.82	18.80	18.82	18.80	18.77	0-1	1.0
	75	0	18.66	18.77	18.80	18.86	18.85	18.67		1.0
DFT-s-OFDM 16QAM	1	1	18.89	18.92	18.77	18.79	18.74	18.95	0-1	1.0
CP-OFDM QPSK	1	1	18.31	18.42	18.39	18.20	18.29	18.47	0-1.5	1.5

Table 9-255

NR Band n77 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor not triggered) or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 20 MHz Bandwidth

NR Band n77 20 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	647334 (3710.01 MHz)	650800 (3762 MHz)	654266 (3813.99 MHz)	657734 (3866.01 MHz)	661200 (3918 MHz)	664666 (3969.99 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.72	19.90	19.77	19.50	19.60	19.71	0	0.0
	1	26	19.60	19.77	19.60	19.45	19.45	19.70		0.0
	1	49	19.80	19.84	19.60	19.70	19.70	19.85		0.0
	25	0	19.18	19.23	19.12	19.00	19.10	19.33	0-0.5	0.5
	25	13	19.70	19.77	19.52	19.55	19.60	19.84	0	0.0
	25	26	19.23	19.40	19.10	19.15	19.10	19.40	0-0.5	0.5
	50	0	19.12	19.37	19.05	19.14	19.18	19.31		0.5
DFT-s-OFDM QPSK	1	1	19.80	19.73	19.80	19.65	19.65	19.72	0	0.0
	1	26	19.50	19.66	19.55	19.70	19.65	19.86		0.0
	1	49	19.85	19.81	19.75	19.77	19.85	19.79		0.0
	25	0	18.56	18.76	18.66	18.60	18.71	18.59	0-1	1.0
	25	13	19.55	19.79	19.55	19.55	19.64	19.82	0	0.0
	25	26	18.80	18.62	18.60	18.70	18.80	18.77	0-1	1.0
	50	0	18.65	18.80	18.60	18.65	18.66	18.84		1.0
DFT-s-OFDM 16QAM	1	1	18.79	18.81	18.99	18.88	18.90	18.81	0-1	1.0
CP-OFDM QPSK	1	1	18.00	18.33	18.37	18.11	18.15	18.20	0-1.5	1.5

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Table 9-256
NR Band n77 Measured P_{limit} for DSI = 3 (Hotspot) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.14	17.31	0	0.0
	1	137	17.38	17.93		0.0
	1	271	17.64	17.91		0.0
	135	0	17.66	17.82	0-0.5	0.0
	135	69	17.69	17.92	0	0.0
	135	138	17.74	17.92	0-0.5	0.0
	270	0	17.78	17.82		0.0
DFT-s-OFDM QPSK	1	1	17.41	17.52	0	0.0
	1	137	17.54	17.85		0.0
	1	271	17.75	17.73		0.0
	135	0	17.71	17.42	0-1	0.0
	135	69	17.76	17.78	0	0.0
	135	138	17.77	17.70	0-1	0.0
	270	0	17.74	17.77		0.0
DFT-s-OFDM 16QAM	1	1	17.32	17.43	0-1	0.0
CP-OFDM QPSK	1	1	17.11	17.15	0-1.5	0.0

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Table 9-257
NR Band n77 Measured P_{limit} for DSI = 3 (Hotspot) - 90 MHz Bandwidth

NR Band n77 90 MHz Bandwidth							
Modulation	14	RB Offset	649668 (3745.02 MHz)	656000 (3840 MHz)	662332 (3934.98 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.40	17.39	17.38	0	0.0
	1	123	17.85	17.50	17.68		0.0
	1	243	17.55	17.60	17.31		0.0
	120	0	17.78	17.50	17.52	0-0.5	0.0
	120	63	17.81	17.51	17.63	0	0.0
	120	125	17.75	17.61	17.58	0-0.5	0.0
	243	0	17.85	17.60	17.58		0.0
DFT-s-OFDM QPSK	1	1	17.55	17.48	17.40	0	0.0
	1	123	17.99	17.55	17.65		0.0
	1	243	17.65	17.56	17.44		0.0
	120	0	17.87	17.51	17.54	0-1	0.0
	120	63	17.93	17.52	17.65	0	0.0
	120	125	17.88	17.60	17.62	0-1	0.0
	243	0	17.95	17.65	17.58		0.0
DFT-s-OFDM 16QAM	1	1	18.00	17.88	17.80	0-1	0.0
CP-OFDM QPSK	1	1	17.62	17.60	17.50	0-1.5	0.0

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Table 9-258
NR Band n77 Measured P_{limit} for DSI = 3 (Hotspot) - 80 MHz Bandwidth

NR Band n77 80 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	649334 (3740.01 MHz)	656000 (3840 MHz)	662666 (3939.99 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.62	17.50	17.50	0	0.0
	1	109	17.89	17.50	17.71		0.0
	1	215	17.70	17.50	17.45		0.0
	108	0	17.80	17.46	17.58	0-0.5	0.0
	108	55	17.95	17.51	17.67	0	0.0
	108	109	17.85	17.58	17.50	0-0.5	0.0
	216	0	17.89	17.59	17.58		0.0
DFT-s-OFDM QPSK	1	1	17.50	17.50	17.50	0	0.0
	1	109	17.90	17.48	17.66		0.0
	1	215	17.75	17.69	17.45		0.0
	108	0	17.86	17.48	17.61	0-1	0.0
	108	55	17.89	17.58	17.66	0	0.0
	108	109	17.92	17.65	17.60	0-1	0.0
	216	0	17.99	17.59	17.61		0.0
DFT-s-OFDM 16QAM	1	1	18.00	17.90	17.75	0-1	0.0
CP-OFDM QPSK	1	1	17.70	17.71	17.40	0-1.5	0.0

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Table 9-259
NR Band n77 Measured P_{limit} for DSI = 3 (Hotspot) - 70 MHz Bandwidth

NR Band n77 70 MHz Bandwidth								
Modulation	RB Size	RB Offset	649000 (3735 MHz)	653666 (3804.99 MHz)	658334 (3875.01 MHz)	663000 (3945 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.47	17.75	17.36	17.50	0	0.0
	1	95	17.89	17.70	17.60	17.72		0.0
	1	187	17.85	17.67	17.58	17.38		0.0
	90	0	17.77	17.77	17.51	17.58	0-0.5	0.0
	90	50	17.96	17.70	17.67	17.53	0	0.0
	90	99	17.88	17.55	17.66	17.50	0-0.5	0.0
	180	0	17.94	17.65	17.54	17.55		0.0
DFT-s-OFDM QPSK	1	1	17.50	17.65	17.45	17.48	0	0.0
	1	95	18.05	17.75	17.75	17.70		0.0
	1	187	17.87	17.70	17.58	17.45		0.0
	90	0	17.85	17.75	17.55	17.55	0-1	0.0
	90	50	18.01	17.68	17.70	17.62	0	0.0
	90	99	17.91	17.60	17.75	17.65	0-1	0.0
	180	0	17.95	17.70	17.66	17.66		0.0
DFT-s-OFDM 16QAM	1	1	17.75	18.16	17.70	17.91	0-1	0.0
CP-OFDM QPSK	1	1	17.70	17.70	17.45	17.37	0-1.5	0.0

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Table 9-260
NR Band n77 Measured P_{limit} for DSI = 3 (Hotspot) - 60 MHz Bandwidth

NR Band n77 60 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	648668 (3730.02 MHz)	653556 (3803.34 MHz)	658444 (3876.66 MHz)	663332 (3949.98 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.45	17.63	17.50	17.62	0	0.0
	1	81	17.97	17.71	17.70	17.47		0.0
	1	160	17.90	17.60	17.60	17.47		0.0
	81	0	17.75	17.78	17.60	17.55	0-0.5	0.0
	81	41	17.94	17.65	17.59	17.60	0	0.0
	81	81	17.92	17.59	17.70	17.55	0-0.5	0.0
	162	0	17.93	17.65	17.65	17.55		0.0
DFT-s-OFDM QPSK	1	1	17.64	17.75	17.45	17.56	0	0.0
	1	81	18.01	17.77	17.80	17.75		0.0
	1	160	17.92	17.65	17.67	17.30		0.0
	81	0	17.85	17.81	17.51	17.56	0-1	0.0
	81	41	18.02	17.66	17.70	17.71	0	0.0
	81	81	17.91	17.75	17.80	17.55	0-1	0.0
	162	0	18.01	17.75	17.70	17.52		0.0
DFT-s-OFDM 16QAM	1	1	17.92	18.32	17.81	17.95	0-1	0.0
CP-OFDM QPSK	1	1	17.75	18.01	17.70	17.54	0-1.5	0.0

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Table 9-261
NR Band n77 Measured P_{limit} for DSI = 3 (Hotspot) - 50 MHz Bandwidth

NR Band n77 50 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	648334 (3725.01 MHz)	652166 (3782.49 MHz)	656000 (3840 MHz)	659834 (3897.51 MHz)	663666 (3954.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.37	17.66	17.17	17.35	17.59	0	0.0
	1	67	17.47	17.57	17.43	17.45	17.38		0.0
	1	131	17.70	17.46	17.50	17.65	17.44		0.0
	64	0	17.36	17.61	17.32	17.65	17.45	0-0.5	0.0
	64	35	17.55	17.61	17.35	17.54	17.44	0	0.0
	64	69	17.70	17.49	17.40	17.55	17.44	0-0.5	0.0
	128	0	17.62	17.62	17.41	17.48	17.42		0.0
DFT-s-OFDM QPSK	1	1	17.27	17.75	17.17	17.55	17.50	0	0.0
	1	67	17.79	17.67	17.42	17.52	17.46		0.0
	1	131	17.78	17.47	17.66	17.64	17.32		0.0
	64	0	17.50	17.71	17.32	17.50	17.42	0-1	0.0
	64	35	17.69	17.71	17.42	17.54	17.44	0	0.0
	64	69	17.64	17.55	17.54	17.52	17.49	0-1	0.0
	128	0	17.65	17.65	17.45	17.58	17.44		0.0
DFT-s-OFDM 16QAM	1	1	17.60	18.00	17.48	17.84	17.75	0-1	0.0
CP-OFDM QPSK	1	1	17.41	17.99	17.36	17.50	17.35	0-1.5	0.0

Table 9-262
NR Band n77 Measured P_{limit} for DSI = 3 (Hotspot) - 40 MHz Bandwidth

NR Band n77 40 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	648000 (3720 MHz)	651200 (3768 MHz)	654400 (3816 MHz)	657600 (3864 MHz)	660800 (3912 MHz)	664000 (3960 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.72	18.25	17.92	17.86	17.95	17.86	0	0.0
	1	53	17.89	18.20	17.81	17.77	17.88	17.66		0.0
	1	104	18.20	18.15	17.80	18.00	18.01	17.86		0.0
	50	0	17.89	18.15	17.81	17.81	17.90	17.79	0-0.5	0.0
	50	28	18.00	18.00	17.80	17.70	17.75	17.75	0	0.0
	50	56	18.15	18.20	17.90	17.85	17.85	17.71	0-0.5	0.0
	100	0	18.05	18.19	17.80	17.76	17.86	17.79		0.0
DFT-s-OFDM QPSK	1	1	17.90	18.38	18.05	17.99	17.88	17.92	0	0.0
	1	53	18.10	18.22	17.88	17.86	17.89	17.77		0.0
	1	104	18.35	18.30	17.95	17.96	17.95	17.82		0.0
	50	0	17.94	18.16	17.91	17.87	17.88	17.86	0-1	0.0
	50	28	18.04	18.25	17.85	17.83	17.87	17.72	0	0.0
	50	56	18.20	18.25	17.89	17.95	17.86	17.75	0-1	0.0
	100	0	18.10	18.30	17.85	17.80	17.90	17.80		0.0
DFT-s-OFDM 16QAM	1	1	18.25	18.40	18.41	18.16	18.31	18.30	0-1	0.0
CP-OFDM QPSK	1	1	18.05	18.30	18.20	18.00	17.80	18.20	0-1.5	0.0

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Table 9-263
NR Band n77 Measured P_{limit} for DSI = 3 (Hotspot) - 30 MHz Bandwidth

NR Band n77										
30 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	647668 (3715.02 MHz)	651000 (3765 MHz)	654334 (3815.01 MHz)	657666 (3864.99 MHz)	661000 (3915 MHz)	664332 (3964.98 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.65	18.29	18.05	17.86	17.82	17.88	0	0.0
	1	39	18.00	18.15	17.90	17.75	17.90	17.60		0.0
	1	76	17.97	18.25	17.90	17.89	18.09	17.80		0.0
	36	0	17.89	18.19	17.87	17.74	17.81	17.65	0-0.5	0.0
	36	21	18.02	18.20	17.87	17.85	17.89	17.61	0	0.0
	36	42	18.20	18.30	17.89	17.89	17.92	17.75	0-0.5	0.0
	75	0	18.05	18.25	17.92	17.78	17.88	17.70		0.0
DFT-s-OFDM QPSK	1	1	17.75	18.35	18.05	17.90	17.85	17.85	0	0.0
	1	39	17.99	18.22	17.88	17.83	17.85	17.60		0.0
	1	76	18.15	18.33	17.94	17.94	17.97	17.71		0.0
	36	0	17.87	18.25	17.85	17.82	17.80	17.70	0-1	0.0
	36	21	18.05	18.24	17.84	17.82	17.80	17.61	0	0.0
	36	42	18.13	18.26	17.92	17.95	17.91	17.76	0-1	0.0
	75	0	18.10	18.30	17.89	17.84	17.89	17.70		0.0
DFT-s-OFDM 16QAM	1	1	18.15	18.50	18.40	18.15	18.20	18.20	0-1	0.0
CP-OFDM QPSK	1	1	17.90	18.35	18.10	17.85	17.90	18.10	0-1.5	0.0

Table 9-264
NR Band n77 Measured P_{limit} for DSI = 3 (Hotspot) - 20 MHz Bandwidth

NR Band n77 20 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	647334 (3710.01 MHz)	650800 (3762 MHz)	654266 (3813.99 MHz)	657734 (3866.01 MHz)	661200 (3918 MHz)	664666 (3969.99 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.60	17.48	17.75	17.57	17.70	17.52	0	0.0
	1	26	17.56	17.45	17.70	17.55	17.68	17.38		0.0
	1	49	17.75	17.55	17.50	17.66	17.80	17.54		0.0
	25	0	17.51	17.55	17.61	17.61	17.66	17.42	0-0.5	0.0
	25	13	17.58	17.55	17.48	17.55	17.66	17.42	0	0.0
	25	26	17.70	17.66	17.45	17.48	17.70	17.49	0-0.5	0.0
	50	0	17.62	17.58	17.60	17.47	17.63	17.40		0.0
DFT-s-OFDM QPSK	1	1	17.66	17.66	17.80	17.65	17.75	17.53	0	0.0
	1	26	17.55	17.60	17.60	17.60	17.71	17.40		0.0
	1	49	17.86	17.82	17.60	17.72	17.71	17.61		0.0
	25	0	17.62	17.54	17.66	17.62	17.70	17.48	0-1	0.0
	25	13	17.56	17.59	17.55	17.60	17.66	17.40	0	0.0
	25	26	17.72	17.75	17.55	17.65	17.70	17.52	0-1	0.0
	50	0	17.64	17.60	17.60	17.70	17.69	17.50		0.0
DFT-s-OFDM 16QAM	1	1	18.11	17.91	17.95	18.01	18.02	18.01	0-1	0.0
CP-OFDM QPSK	1	1	17.85	17.66	17.76	17.70	17.80	17.68	0-1.5	0.0

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Table 9-265
NR Band n77 Measured P_{limit} for DSI = 2 (Head) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	14.94	14.10	0	0.0
	1	137	14.98	14.15		0.0
	1	271	15.00	14.11		0.0
	135	0	15.00	14.11	0-0.5	0.0
	135	69	14.99	14.03	0	0.0
	135	138	15.00	14.09	0-0.5	0.0
	270	0	14.97	14.08		0.0
DFT-s-OFDM QPSK	1	1	14.92	13.91	0	0.0
	1	137	14.90	13.90		0.0
	1	271	14.74	13.56		0.0
	135	0	14.86	14.21	0-1	0.0
	135	69	14.92	14.18	0	0.0
	135	138	14.78	14.16	0-1	0.0
	270	0	14.90	14.27		0.0
DFT-s-OFDM 16QAM	1	1	14.91	13.86	0-1	0.0
CP-OFDM QPSK	1	1	14.52	13.74	0-1.5	0.0

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Table 9-266
NR Band n77 Measured P_{limit} for DSI = 2 (Head) - 90 MHz Bandwidth

NR Band n77 90 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	649666 (3744.99 MHz)	655998 (3839.97 MHz)	662334 (3935.01 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	14.21	14.02	13.95	0	0.0
	1	123	14.55	14.10	14.17		0.0
	1	243	14.35	14.25	13.70		0.0
	120	0	14.50	14.10	14.05	0-0.5	0.0
	120	63	14.65	14.10	14.17	0	0.0
	120	125	14.52	14.10	14.07	0-0.5	0.0
	243	0	14.55	14.05	14.05		0.0
DFT-s-OFDM QPSK	1	1	14.20	14.10	14.01	0	0.0
	1	123	14.60	13.99	14.20		0.0
	1	243	14.35	14.05	13.85		0.0
	120	0	14.56	14.09	14.06	0-1	0.0
	120	63	14.61	14.05	14.10	0	0.0
	120	125	14.51	14.06	14.05	0-1	0.0
	243	0	14.55	14.10	14.00		0.0
DFT-s-OFDM 16QAM	1	1	14.32	14.20	14.15	0-1	0.0
CP-OFDM QPSK	1	1	14.30	13.90	14.05	0-1.5	0.0

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Table 9-267
NR Band n77 Measured P_{limit} for DSI = 2 (Head) - 80 MHz Bandwidth

NR Band n77 80 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	649334 (3740.01 MHz)	656000 (3840 MHz)	662666 (3939.99 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	14.70	14.05	14.05	0	0.0
	1	109	15.00	14.17	14.18		0.0
	1	215	14.85	14.30	13.86		0.0
	108	0	14.85	14.00	14.07	0-0.5	0.0
	108	55	14.96	14.11	14.12	0	0.0
	108	109	14.85	14.15	14.03	0-0.5	0.0
	216	0	14.80	14.10	14.06		0.0
DFT-s-OFDM QPSK	1	1	14.55	13.99	14.05	0	0.0
	1	109	14.75	14.15	14.13		0.0
	1	215	14.55	14.20	13.95		0.0
	108	0	14.64	14.05	14.03	0-1	0.0
	108	55	14.75	14.05	14.05	0	0.0
	108	109	14.65	14.11	14.10	0-1	0.0
	216	0	14.65	14.11	14.07		0.0
DFT-s-OFDM 16QAM	1	1	14.50	14.20	14.02	0-1	0.0
CP-OFDM QPSK	1	1	14.45	14.14	14.11	0-1.5	0.0

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Table 9-268
NR Band n77 Measured P_{limit} for DSI = 2 (Head) - 70 MHz Bandwidth

NR Band n77 70 MHz Bandwidth								
Modulation	RB Size	RB Offset	649000 (3735 MHz)	653666 (3804.99 MHz)	658334 (3875.01 MHz)	663000 (3945 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	14.20	14.38	13.97	13.95	0	0.0
	1	95	14.64	14.30	14.43	14.27		0.0
	1	187	14.50	13.99	14.34	13.86		0.0
	90	0	14.40	14.25	14.35	14.04	0-0.5	0.0
	90	50	14.58	14.24	14.50	14.05	0	0.0
	90	99	14.49	13.98	14.49	13.98	0-0.5	0.0
	180	0	14.52	14.13	14.45	14.10		0.0
DFT-s-OFDM QPSK	1	1	14.25	14.41	14.22	14.05	0	0.0
	1	95	14.62	14.05	14.45	14.13		0.0
	1	187	14.47	14.06	14.20	13.90		0.0
	90	0	14.32	14.30	14.20	14.06	0-1	0.0
	90	50	14.55	14.11	14.20	14.12	0	0.0
	90	99	14.53	13.99	14.29	13.99	0-1	0.0
	180	0	14.49	14.19	14.23	14.05		0.0
DFT-s-OFDM 16QAM	1	1	14.45	14.50	14.00	14.10	0-1	0.0
CP-OFDM QPSK	1	1	14.30	14.37	13.99	14.00	0-1.5	0.0

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Table 9-269
NR Band n77 Measured P_{limit} for DSI = 2 (Head) - 60 MHz Bandwidth

NR Band n77 60 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	648668 (3730.02 MHz)	653556 (3803.34 MHz)	658444 (3876.66 MHz)	663332 (3949.98 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	14.09	14.35	13.85	13.86	0	0.0
	1	81	14.45	14.11	14.21	13.99		0.0
	1	160	14.52	13.95	13.99	13.80		0.0
	81	0	14.26	14.25	14.06	14.01	0-0.5	0.0
	81	41	14.48	14.07	14.04	14.02	0	0.0
	81	81	14.50	14.08	14.10	13.95	0-0.5	0.0
	162	0	14.49	14.15	14.01	13.95		0.0
DFT-s-OFDM QPSK	1	1	14.10	14.40	13.92	13.96	0	0.0
	1	81	14.45	14.05	14.16	14.01		0.0
	1	160	14.55	14.00	13.99	13.85		0.0
	81	0	14.30	14.31	13.99	13.96	0-1	0.0
	81	41	14.50	14.05	14.10	14.01	0	0.0
	81	81	14.47	14.05	14.11	13.96	0-1	0.0
	162	0	14.51	14.10	13.99	13.98		0.0
DFT-s-OFDM 16QAM	1	1	13.88	14.50	13.85	14.10	0-1	0.0
CP-OFDM QPSK	1	1	14.20	14.40	13.75	14.05	0-1.5	0.0

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Table 9-270
NR Band n77 Measured P_{limit} for DSI = 2 (Head) - 50 MHz Bandwidth

NR Band n77 50 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	648334 (3725.01 MHz)	652166 (3782.49 MHz)	656000 (3840 MHz)	659834 (3897.51 MHz)	663666 (3954.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM $\pi/2$ BPSK	1	1	14.05	14.22	13.75	13.95	15.00	0	0.0
	1	67	14.30	14.15	13.85	13.95	14.99		0.0
	1	131	14.40	13.99	14.10	13.99	15.00		0.0
	64	0	14.09	14.20	13.71	13.99	14.99	0-0.5	0.0
	64	35	14.30	14.10	13.85	13.95	15.00	0	0.0
	64	69	14.30	14.12	13.99	13.99	14.95	0-0.5	0.0
	128	0	14.22	14.13	13.85	13.98	15.00		0.0
DFT-s-OFDM QPSK	1	1	13.99	13.99	13.75	14.00	14.99	0	0.0
	1	67	14.25	14.10	13.75	13.90	14.95		0.0
	1	131	14.40	13.95	13.99	14.04	15.00		0.0
	64	0	14.15	14.22	13.75	13.95	14.98	0-1	0.0
	64	35	14.35	14.15	13.89	14.01	15.00	0	0.0
	64	69	14.30	14.12	14.00	14.00	14.99	0-1	0.0
	128	0	14.28	14.15	13.90	13.99	15.00		0.0
DFT-s-OFDM 16QAM	1	1	14.15	14.18	13.99	13.99	14.95	0-1	0.0
CP-OFDM QPSK	1	1	13.99	13.99	13.70	14.05	14.94	0-1.5	0.0

Table 9-271
NR Band n77 Measured P_{limit} for DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n77 40 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR Allowed per 3GPP [dB]
Modulation	RB Size	RB Offset	648000 (3720 MHz)	651200 (3768 MHz)	654400 (3816 MHz)	657600 (3864 MHz)	660800 (3912 MHz)	664000 (3960 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM $\pi/2$ BPSK	1	1	14.66	14.75	14.55	14.45	14.50	14.19	0	0.0
	1	53	14.66	14.85	14.25	14.25	14.30	13.99		0.0
	1	104	15.00	14.70	14.30	14.55	14.45	14.01		0.0
	50	0	14.55	14.70	14.40	14.45	14.32	14.15	0-0.5	0.0
	50	28	14.60	14.70	14.29	14.27	14.30	14.11	0	0.0
	50	56	14.80	14.65	14.30	14.38	14.41	14.10	0-0.5	0.0
	100	0	14.64	14.78	14.25	14.27	14.40	14.15		0.0
DFT-s-OFDM QPSK	1	1	14.57	14.80	14.50	14.45	14.23	14.30	0	0.0
	1	53	14.54	14.60	14.28	14.30	14.33	14.05		0.0
	1	104	14.92	14.80	14.50	14.45	14.40	14.05		0.0
	50	0	14.49	14.83	14.45	14.34	14.29	14.24	0-1	0.0
	50	28	14.52	14.79	14.30	14.30	14.35	14.05	0	0.0
	50	56	14.81	14.76	14.40	14.30	14.36	14.05	0-1	0.0
	100	0	14.63	14.80	14.35	14.34	14.35	14.10		0.0
DFT-s-OFDM 16QAM	1	1	14.45	14.87	14.56	14.30	14.50	13.85	0-1	0.0
CP-OFDM QPSK	1	1	14.50	14.90	14.40	14.33	14.30	14.20	0-1.5	0.0

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Table 9-272
NR Band n77 Measured P_{limit} for DSI = 2 (Head) - 30 MHz Bandwidth

NR Band n77										
			30 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
			647668 (3715.02 MHz)	651000 (3765 MHz)	654334 (3815.01 MHz)	657666 (3864.99 MHz)	661000 (3915 MHz)	664332 (3964.98 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM $\pi/2$ BPSK	1	1	13.80	14.77	14.55	14.20	14.15	15.00	0	0.0
	1	39	13.99	14.74	14.30	14.25	14.25	14.99		0.0
	1	76	14.15	14.70	14.55	14.40	14.40	14.94		0.0
	36	0	14.50	14.75	14.45	14.35	14.40	15.00	0-0.5	0.0
	36	21	14.60	14.80	14.35	14.45	14.45	14.86	0	0.0
	36	42	14.70	14.73	14.42	14.44	14.50	14.89	0-0.5	0.0
	75	0	14.65	14.87	14.35	14.32	14.45	14.95		0.0
DFT-s-OFDM QPSK	1	1	14.60	14.75	14.50	14.45	14.45	15.00	0	0.0
	1	39	14.65	14.85	14.40	14.35	14.36	14.86		0.0
	1	76	14.80	14.95	14.47	14.56	14.50	14.90		0.0
	36	0	14.55	14.80	14.50	14.40	14.50	14.95	0-1	0.0
	36	21	14.60	14.80	14.45	14.35	14.40	14.90	0	0.0
	36	42	14.65	14.85	14.35	14.35	14.50	14.93	0-1	0.0
	75	0	14.60	14.84	14.35	14.30	14.40	14.96		0.0
DFT-s-OFDM 16QAM	1	1	14.30	14.55	14.05	14.15	14.20	14.90	0-1	0.0
CP-OFDM QPSK	1	1	14.46	14.90	14.65	14.50	14.25	15.00	0-1.5	0.0

Table 9-273
NR Band n77 Measured P_{limit} for DSI = 2 (Head) - 20 MHz Bandwidth

NR Band n77 20 MHz Bandwidth										
			Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	647334 (3710.01 MHz)	650800 (3762 MHz)	654266 (3813.99 MHz)	657734 (3866.01 MHz)	661200 (3918 MHz)	664666 (3969.99 MHz)		
			Conducted Power [dBm]							
DFT-s-OFDM $\pi/2$ BPSK	1	1	14.25	14.60	14.30	14.25	14.64	14.99	0	0.0
	1	26	14.20	14.46	14.08	14.20	14.75	14.75		0.0
	1	49	14.55	14.60	14.10	14.54	14.65	14.85		0.0
	25	0	14.30	14.53	14.36	14.25	14.60	14.91	0-0.5	0.0
	25	13	14.25	14.44	14.05	14.20	14.57	14.82	0	0.0
	25	26	14.47	14.50	14.15	14.32	14.63	14.80	0-0.5	0.0
	50	0	14.33	14.60	14.15	14.10	14.73	14.84		0.0
DFT-s-OFDM QPSK	1	1	14.40	14.60	14.38	14.25	14.80	14.97	0	0.0
	1	26	14.25	14.60	14.35	14.20	14.75	14.91		0.0
	1	49	14.70	14.67	14.47	14.40	14.70	14.82		0.0
	25	0	14.27	14.60	14.30	14.30	14.60	14.85	0-1	0.0
	25	13	14.40	14.55	14.14	14.35	14.47	14.75	0	0.0
	25	26	14.44	14.51	14.20	14.35	14.50	14.81	0-1	0.0
	50	0	14.25	14.58	14.17	14.30	14.50	14.80		0.0
DFT-s-OFDM 16QAM	1	1	14.15	14.45	14.27	14.42	14.85	15.00	0-1	0.0
CP-OFDM QPSK	1	1	14.20	14.65	14.25	14.10	14.35	15.00	0-1.5	0.0

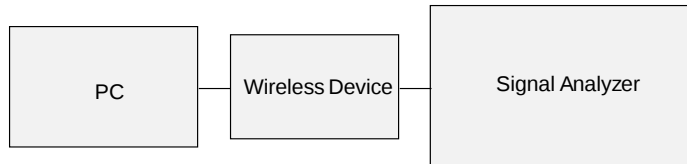


Figure 9-5
Power Measurement Setup

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9.6 WLAN Conducted Powers

Table 9-274
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	802.11ax
		Average	Average	Average	Average
2412	1	20.15	16.48	16.47	15.49
2417	2	N/A	18.43	18.42	15.69
2422	3	N/A	N/A	N/A	17.49
2437	6	20.13	18.48	18.22	17.56
2452	9	N/A	N/A	18.35	17.08
2457	10	N/A	18.07	16.35	16.44
2462	11	20.39	16.41	16.23	13.32

Table 9-275
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	802.11ax
		Average	Average	Average	Average
2412	1	19.49	16.36	16.42	14.69
2417	2	N/A	17.19	17.17	16.29
2422	3	N/A	N/A	N/A	16.41
2437	6	19.48	16.58	16.55	16.76
2452	9	N/A	N/A	16.94	16.82
2457	10	N/A	16.87	15.72	16.01
2462	11	19.43	15.71	15.87	13.24

Table 9-276
2.4 GHz WLAN Maximum Average RF Power – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	16.22	16.67	19.46
2417	2	17.45	17.69	20.58
2437	6	18.13	17.21	20.70
2452	9	18.50	17.06	20.85
2457	10	16.45	15.16	18.86
2462	11	16.27	15.08	18.73

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Table 9-277
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	802.11ax
		Average	Average	Average	Average
5180	36	18.21	18.10	18.23	14.96
5200	40	18.27	18.07	18.30	17.57
5220	44	18.49	18.13	18.21	17.61
5240	48	18.31	18.12	18.24	17.59
5260	52	18.30	17.97	18.12	17.45
5280	56	18.35	17.95	18.18	17.46
5300	60	18.44	18.15	18.20	17.50
5320	64	17.17	16.39	16.41	14.92
5500	100	15.72	15.79	15.81	15.95
5520	104	18.31	18.15	18.15	17.38
5600	120	18.38	18.05	18.05	17.27
5620	124	18.46	18.03	18.06	17.21
5720	144	18.28	18.46	18.48	17.45
5745	149	18.20	18.43	18.45	17.28
5785	157	18.32	18.39	18.47	17.26
5825	165	18.15	18.21	18.21	17.16

Table 9-278
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	802.11ax
		Average	Average	Average	Average
5180	36	17.46	17.45	17.45	14.74
5200	40	17.42	17.43	17.41	16.87
5220	44	17.45	17.44	17.43	16.83
5240	48	17.47	17.49	17.49	16.95
5260	52	17.49	17.48	17.48	16.97
5280	56	16.84	16.81	16.88	16.99
5300	60	16.98	16.95	16.91	16.27
5320	64	16.63	16.73	16.64	14.14
5500	100	16.46	16.47	16.43	15.87
5520	104	17.36	17.35	17.42	16.74
5600	120	16.81	16.87	16.85	16.28
5620	124	16.76	16.80	16.78	16.95
5720	144	17.37	17.37	17.32	16.71
5745	149	17.46	17.44	17.45	16.72
5785	157	17.48	17.48	17.42	16.71
5825	165	17.29	17.47	17.34	16.57

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Table 9-279
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	802.11ax
		Average	Average	Average	Average
2412	1	15.90	15.14	15.05	15.49
2417	2	N/A	N/A	N/A	15.89
2437	6	15.92	15.19	15.52	15.71
2457	10	N/A	N/A	N/A	15.56
2462	11	15.99	15.66	15.90	13.32

Table 9-280
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	802.11ax
		Average	Average	Average	Average
2412	1	15.61	15.40	15.43	14.69
2417	2	N/A	N/A	N/A	15.54
2437	6	15.77	15.95	15.96	15.15
2457	10	N/A	N/A	N/A	15.27
2462	11	15.65	15.98	15.94	13.24

Table 9-281
2.4 GHz WLAN Reduced Average RF Power – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	15.05	15.43	18.25
2437	6	15.52	15.96	18.76
2462	11	15.90	15.94	18.93

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Table 9-282
5 GHz WLAN RCV Reduced Average RF Power – Ant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	12.31	12.97
5290	58	12.70	12.49
5530	106	12.53	12.47
5610	122	12.26	12.50
5690	138	12.23	12.34
5775	155	12.95	12.12

Table 9-283
5 GHz WLAN RCV Reduced Average RF Power – Ant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	12.24	12.59
5290	58	12.21	12.42
5530	106	12.71	12.13
5610	122	12.73	12.29
5690	138	12.55	12.93
5775	155	12.67	12.14

Table 9-284
5 GHz WLAN Reduced Average RF Power during conditions with 5G NR – Ant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	10.52	10.44
5290	58	10.78	10.65
5530	106	10.84	10.72
5610	122	10.78	10.77
5690	138	10.81	10.66
5775	155	10.43	10.38

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Table 9-285
5 GHz WLAN Reduced Average RF Power during conditions with 5G NR – Ant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	10.43	10.33
5290	58	10.77	10.65
5530	106	10.65	10.74
5610	122	10.53	10.37
5690	138	10.44	10.49
5775	155	10.35	10.55

Table 9-286
Reduced Output Powers During Conditions with 2.4 GHz and 5 GHz WLAN or with 5G NR(FR1) - MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	12.81	12.50	15.67
2437	6	12.28	12.12	15.21
2462	11	12.63	12.77	15.71
5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	12.31	12.24	15.29
5290	58	12.70	12.21	15.47
5530	106	12.53	12.71	15.63
5610	122	12.26	12.73	15.51
5690	138	12.23	12.55	15.40
5775	155	12.95	12.67	15.82

Table 9-287
Reduced Output Powers During conditions with 2.4 GHz WLAN and/or 5G NR - MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	10.52	10.43	13.49
5290	58	10.78	10.77	13.79
5530	106	10.84	10.65	13.76
5610	122	10.78	10.53	13.67
5690	138	10.81	10.44	13.64
5775	155	10.43	10.35	13.40

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.

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- 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.

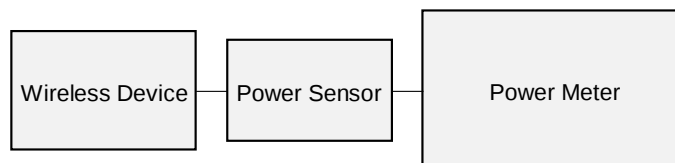


Figure 9-6
Power Measurement Setup

9.7 Bluetooth Conducted Powers

Table 9-288
Bluetooth Average RF Power

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	17.52	56.488
2441	1.0	39	17.49	56.086
2480	1.0	78	16.01	39.873
2402	2.0	0	11.56	14.333
2441	2.0	39	11.76	14.991
2480	2.0	78	10.55	11.356
2402	3.0	0	11.79	15.097
2441	3.0	39	11.58	14.372
2480	3.0	78	10.38	10.915

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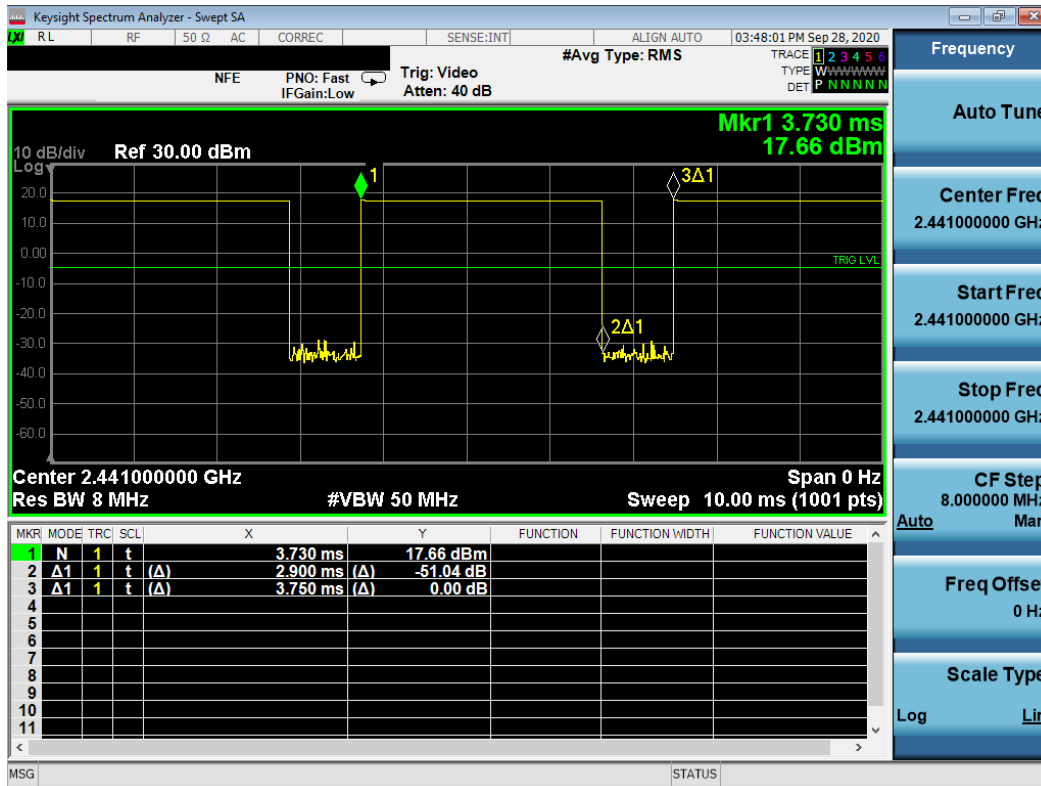


Figure 9-7
Bluetooth Transmission Plot

Equation 9-1
Bluetooth Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.90ms}{3.75ms} * 100\% = 77.3\%$$

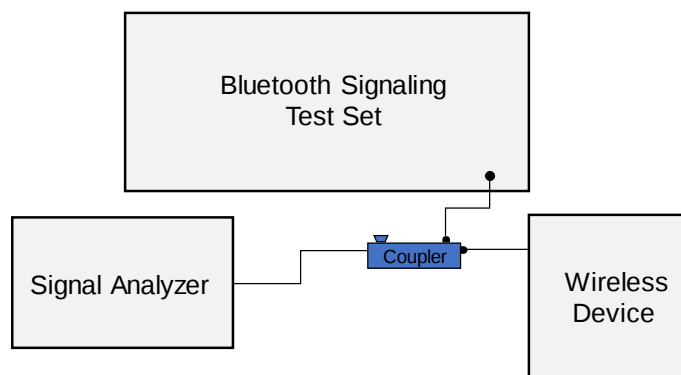


Figure 9-8
Power Measurement Setup

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10 SYSTEM VERIFICATION

10.1 Tissue Verification

Table 10-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
09/25/2020	750 Head	22.1	700	0.897	43.962	0.889	42.201	0.90%	4.17%
			710	0.901	43.937	0.890	42.149	1.24%	4.24%
			725	0.906	43.896	0.891	42.071	1.68%	4.34%
			750	0.914	43.822	0.894	41.942	2.24%	4.48%
			750	0.908	42.596	0.894	41.942	1.57%	1.56%
10/14/2020	750 Head	21.9	770	0.915	42.548	0.895	41.838	2.23%	1.70%
			785	0.921	42.515	0.896	41.760	2.79%	1.81%
			800	0.927	42.477	0.897	41.682	3.24%	1.91%
			880	0.979	41.139	0.888	42.305	-1.01%	-2.78%
			695	0.884	41.092	0.889	42.227	-0.56%	-2.69%
11/09/2020	750 Head	21.2	700	0.886	41.078	0.889	42.201	-0.34%	-2.66%
			710	0.890	41.053	0.890	42.149	0.00%	-2.60%
			725	0.896	41.018	0.891	42.071	0.56%	-2.50%
			750	0.904	40.950	0.894	41.942	1.12%	-2.37%
			820	0.939	43.009	0.899	41.578	4.45%	3.44%
10/02/2020	835 Head	21.7	835	0.945	42.974	0.900	41.500	5.00%	3.55%
			850	0.950	42.920	0.916	41.500	3.71%	3.42%
			820	0.919	39.762	0.899	41.578	2.22%	-4.37%
			835	0.924	39.723	0.900	41.500	2.67%	-4.28%
			850	0.929	39.672	0.916	41.500	1.42%	-4.40%
10/06/2020	835 Head	21.8	820	0.933	40.220	0.899	41.578	3.78%	-3.27%
			835	0.938	40.164	0.900	41.500	4.22%	-3.22%
			850	0.943	40.106	0.916	41.500	2.95%	-3.36%
			1710	1.337	40.074	1.348	40.142	-0.82%	-0.17%
			1720	1.346	40.040	1.354	40.126	-0.59%	-0.21%
10/12/2020	1750 Head	22.8	1745	1.374	39.927	1.368	40.087	0.44%	-0.40%
			1750	1.378	39.905	1.371	40.079	0.51%	-0.43%
			1770	1.400	39.806	1.383	40.047	1.23%	-0.60%
			1790	1.419	39.723	1.394	40.016	1.79%	-0.73%
			1710	1.312	40.179	1.348	40.142	-2.67%	0.09%
10/14/2020	1750 Head	24.5	1720	1.320	40.148	1.354	40.126	-2.51%	0.05%
			1745	1.345	40.036	1.368	40.087	-1.68%	-0.13%
			1750	1.349	40.004	1.371	40.079	-1.60%	-0.19%
			1770	1.370	39.938	1.383	40.047	-0.94%	-0.27%
			1790	1.398	39.865	1.394	40.016	-0.43%	-0.38%
10/05/2020	1900 Head	23.3	1850	1.355	40.498	1.400	40.000	-3.21%	1.24%
			1860	1.366	40.457	1.400	40.000	-2.43%	1.14%
			1880	1.387	40.381	1.400	40.000	-0.93%	0.95%
			1900	1.408	40.301	1.400	40.000	0.57%	0.75%
			1905	1.413	40.280	1.400	40.000	0.93%	0.70%
10/07/2020	1900 Head	22.0	1910	1.418	40.259	1.400	40.000	1.29%	0.65%
			1850	1.365	39.046	1.400	40.000	-2.50%	-2.39%
			1860	1.376	38.999	1.400	40.000	-1.71%	-2.50%
			1880	1.397	38.904	1.400	40.000	-0.21%	-2.74%
			1900	1.418	38.811	1.400	40.000	1.29%	-2.97%
10/19/2020	1900 Head	23.3	1905	1.423	38.789	1.400	40.000	1.64%	-3.03%
			1910	1.428	38.769	1.400	40.000	2.00%	-3.08%
			1850	1.361	39.882	1.400	40.000	-2.79%	-0.30%
			1860	1.371	39.841	1.400	40.000	-2.07%	-0.40%
			1880	1.392	39.758	1.400	40.000	-0.57%	-0.60%
09/16/2020	2450 Head	24.9	1900	1.412	39.674	1.400	40.000	0.86%	-0.82%
			1905	1.417	39.652	1.400	40.000	1.21%	-0.87%
			1910	1.422	39.631	1.400	40.000	1.57%	-0.92%
			2300	1.670	40.425	1.670	39.500	0.00%	2.34%
			2310	1.681	40.386	1.679	39.480	0.12%	2.29%
10/02/2020	2450 Head	22.6	2320	1.692	40.342	1.687	39.460	0.30%	2.24%
			2400	1.784	40.024	1.756	39.289	1.59%	1.87%
			2510	1.875	38.233	1.866	39.123	0.48%	-2.27%
			2535	1.896	38.197	1.893	39.092	0.16%	-2.29%
			2600	1.947	38.115	1.964	39.009	-0.87%	-2.29%
10/25/2020	2450 Head	24.0	2300	1.730	38.091	1.670	39.500	3.59%	-3.57%
			2310	1.738	38.075	1.679	39.480	3.39%	-3.56%
			2320	1.743	38.058	1.687	39.460	3.32%	-3.55%
			2400	1.798	37.916	1.756	39.289	2.39%	-3.49%
			2400	1.817	38.102	1.756	39.289	3.47%	-3.02%
10/14/2020	2450 Head	22.8	2450	1.854	38.007	1.800	39.200	3.00%	-3.04%
			2480	1.877	37.956	1.833	39.162	2.40%	-3.08%
			2560	1.937	37.822	1.920	39.060	0.89%	-3.17%
			2600	1.969	37.757	1.964	39.009	0.25%	-3.21%
			2650	2.008	37.672	2.018	38.945	-0.50%	-3.27%
10/18/2020	2450 Head	22.8	2400	1.827	38.738	1.756	39.289	4.04%	-1.40%
			2450	1.865	38.638	1.800	39.200	3.61%	-1.43%
			2480	1.888	38.578	1.833	39.162	3.00%	-1.49%
			2500	1.904	38.550	1.855	39.136	2.64%	-1.50%
			3700	3.011	36.752	3.117	37.700	-3.40%	-2.51%
11/09/2020	3600 Head	21.8	3750	3.054	36.677	3.169	37.643	-3.63%	-2.57%
			3900	3.201	36.405	3.323	37.471	-3.67%	-2.84%
			3930	3.231	36.346	3.353	37.437	-3.64%	-2.91%
			3950	3.267	36.289	3.393	37.399	-3.64%	-3.32%
			3550	2.856	39.097	2.964	37.871	-3.64%	3.24%
11/12/2020	3600 Head	21.4	3560	2.864	39.090	2.974	37.860	-3.70%	3.25%
			3600	2.902	39.017	3.015	37.814	-3.75%	3.18%
			5250	4.686	35.502	4.706	35.929	-0.42%	-1.19%
			5290	4.735	35.413	4.748	35.883	-0.27%	-1.31%
			5530	5.016	35.015	4.994	35.609	0.44%	-1.67%
10/19/2020	5200-5800 Head	21.1	5600	5.087	34.898	5.065	35.529	0.43%	-1.78%
			5610	5.102	34.875	5.076	35.518	0.51%	-1.81%
			5980	5.189	34.739	5.158	35.426	0.60%	-1.94%
			5745	5.269	34.636	5.214	35.363	1.05%	-2.06%
			5750	5.275	34.630	5.219	35.357	1.07%	-2.06%
			5775	5.294	34.597	5.245	35.329	0.93%	-2.07%

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Table 10-2
Measured Body Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
09/23/2020	750 Body	21.4	700	0.940	54.862	0.959	55.726	-1.98%	-1.55%
			710	0.944	54.842	0.960	55.687	-1.67%	-1.52%
			725	0.951	54.801	0.961	55.629	-1.04%	-1.49%
			750	0.960	54.728	0.964	55.531	-0.41%	-1.45%
9/28/2020	750 Body	21.4	750	0.963	54.215	0.964	55.531	-0.10%	-2.37%
			770	0.970	54.154	0.965	55.453	0.52%	-2.34%
			785	0.976	54.118	0.966	55.395	1.04%	-2.31%
			800	0.982	54.090	0.967	55.336	1.55%	-2.25%
10/10/2020	750 Body	21.6	680	0.924	53.485	0.958	55.804	-3.55%	-4.16%
			695	0.929	53.478	0.959	55.745	-3.13%	-4.07%
			700	0.931	53.441	0.959	55.726	-2.92%	-4.10%
			750	0.951	53.320	0.964	55.531	-1.35%	-3.98%
10/14/2020	750 Body	22.1	680	0.953	54.474	0.958	55.804	-0.52%	-2.38%
			695	0.958	54.431	0.959	55.745	-0.10%	-2.36%
			700	0.960	54.420	0.959	55.726	0.10%	-2.34%
			750	0.978	54.313	0.964	55.531	1.45%	-2.19%
10/20/2020	750 Body	21.7	700	0.972	53.100	0.959	55.726	1.36%	-4.71%
			710	0.976	53.075	0.960	55.687	1.67%	-4.69%
			725	0.982	53.037	0.961	55.629	2.19%	-4.66%
			750	0.990	52.969	0.964	55.531	2.70%	-4.61%
10/26/2020	750 Body	20.2	680	0.936	54.245	0.958	55.804	-2.30%	-2.79%
			695	0.941	54.214	0.959	55.745	-1.88%	-2.75%
			700	0.943	54.205	0.959	55.726	-1.67%	-2.73%
			750	0.963	54.092	0.964	55.531	-0.10%	-2.59%
09/24/2020	835 Body	21.9	820	0.936	52.819	0.969	55.258	-3.41%	-4.41%
			835	0.952	52.663	0.970	55.200	-1.86%	-4.60%
			850	0.968	52.490	0.988	55.154	-2.02%	-4.83%
09/28/2020	835 Body	21.3	820	0.938	54.756	0.969	55.258	-3.20%	-0.91%
			835	0.954	54.606	0.970	55.200	-1.65%	-1.08%
			850	0.970	54.443	0.988	55.154	-1.82%	-1.29%
09/30/2020	835 Body	22.2	820	0.934	53.519	0.969	55.258	-3.61%	-3.15%
			835	0.950	53.365	0.970	55.200	-2.06%	-3.32%
			850	0.965	53.212	0.988	55.154	-2.33%	-3.52%
10/12/2020	835 Body	22.0	820	0.930	53.001	0.969	55.258	-4.02%	-4.08%
			835	0.946	52.843	0.970	55.200	-2.47%	-4.27%
			850	0.961	52.674	0.988	55.154	-2.73%	-4.50%
09/21/2020	1750 Body	20.9	1720	1.497	51.721	1.469	53.511	1.91%	-3.35%
			1745	1.525	51.627	1.485	53.445	2.69%	-3.40%
			1750	1.531	51.607	1.488	53.432	2.89%	-3.42%
09/28/2020	1750 Body	20.9	1710	1.492	51.790	1.463	53.537	1.98%	-3.26%
			1720	1.505	51.755	1.469	53.511	2.45%	-3.28%
			1745	1.535	51.675	1.485	53.445	3.37%	-3.31%
			1750	1.540	51.656	1.488	53.432	3.49%	-3.32%
			1770	1.562	51.567	1.501	53.379	4.06%	-3.39%
			1790	1.585	51.462	1.514	53.326	4.69%	-3.50%
09/30/2020	1750 Body	22.1	1710	1.466	51.045	1.463	53.537	0.21%	-4.65%
			1720	1.478	51.008	1.469	53.511	0.61%	-4.68%
			1745	1.506	50.918	1.485	53.445	1.41%	-4.73%
			1750	1.511	50.898	1.488	53.432	1.55%	-4.74%
			1770	1.533	50.812	1.501	53.379	2.13%	-4.81%
			1790	1.554	50.716	1.514	53.326	2.64%	-4.89%

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Table 10-3
Measured Body Tissue Properties (Cont.)

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
10/14/2020	1750 Body	21.8	1710	1.477	52.981	1.463	53.537	0.96%	-1.04%
			1720	1.488	52.940	1.469	53.511	1.29%	-1.07%
			1745	1.517	52.837	1.485	53.445	2.15%	-1.14%
			1750	1.523	52.817	1.488	53.432	2.35%	-1.15%
			1770	1.546	52.737	1.501	53.379	3.00%	-1.20%
			1790	1.569	52.659	1.514	53.326	3.63%	-1.25%
10/16/2020	1750 Body	21.8	1710	1.467	52.884	1.463	53.537	0.27%	-1.22%
			1720	1.477	52.851	1.469	53.511	0.54%	-1.23%
			1745	1.506	52.767	1.485	53.445	1.41%	-1.27%
			1750	1.512	52.750	1.488	53.432	1.61%	-1.28%
			1770	1.535	52.680	1.501	53.379	2.27%	-1.31%
			1790	1.558	52.607	1.514	53.326	2.91%	-1.35%
9/20/2020	1900 Body	24.3	1850	1.517	52.702	1.520	53.300	-0.20%	-1.12%
			1860	1.528	52.663	1.520	53.300	0.53%	-1.20%
			1880	1.550	52.583	1.520	53.300	1.97%	-1.35%
			1900	1.572	52.503	1.520	53.300	3.42%	-1.50%
			1905	1.578	52.484	1.520	53.300	3.82%	-1.53%
			1910	1.583	52.466	1.520	53.300	4.14%	-1.56%
09/27/2020	1900 Body	24.0	1850	1.518	51.782	1.520	53.300	-0.13%	-2.85%
			1860	1.528	51.751	1.520	53.300	0.53%	-2.91%
			1880	1.549	51.691	1.520	53.300	1.91%	-3.02%
			1900	1.572	51.630	1.520	53.300	3.42%	-3.13%
			1905	1.577	51.614	1.520	53.300	3.75%	-3.16%
			1910	1.583	51.598	1.520	53.300	4.14%	-3.19%
09/30/2020	1900 Body	24.6	1850	1.486	52.990	1.520	53.300	-2.24%	-0.58%
			1860	1.496	52.964	1.520	53.300	-1.58%	-0.63%
			1880	1.517	52.905	1.520	53.300	-0.20%	-0.74%
			1900	1.540	52.850	1.520	53.300	1.32%	-0.84%
			1905	1.546	52.836	1.520	53.300	1.71%	-0.87%
			1910	1.552	52.823	1.520	53.300	2.11%	-0.89%
10/04/2020	1900 Body	24.6	1850	1.487	52.878	1.520	53.300	-2.17%	-0.79%
			1860	1.498	52.849	1.520	53.300	-1.45%	-0.85%
			1880	1.518	52.781	1.520	53.300	-0.13%	-0.97%
			1900	1.540	52.713	1.520	53.300	1.32%	-1.10%
			1905	1.546	52.694	1.520	53.300	1.71%	-1.14%
			1910	1.552	52.677	1.520	53.300	2.11%	-1.17%
10/05/2020	1900 Body	24.2	1850	1.522	51.840	1.520	53.300	0.13%	-2.74%
			1860	1.532	51.808	1.520	53.300	0.79%	-2.80%
			1880	1.554	51.733	1.520	53.300	2.24%	-2.94%
			1900	1.576	51.645	1.520	53.300	3.68%	-3.11%
			1905	1.581	51.624	1.520	53.300	4.01%	-3.14%
			1910	1.587	51.606	1.520	53.300	4.41%	-3.18%
10/07/2020	1900 Body	24.3	1850	1.494	51.778	1.520	53.300	-1.71%	-2.86%
			1860	1.504	51.747	1.520	53.300	-1.05%	-2.91%
			1880	1.526	51.677	1.520	53.300	0.39%	-3.05%
			1900	1.548	51.606	1.520	53.300	1.84%	-3.18%
			1905	1.553	51.588	1.520	53.300	2.17%	-3.21%
			1910	1.559	51.572	1.520	53.300	2.57%	-3.24%
10/08/2020	1900 Body	23.5	1850	1.524	51.602	1.520	53.300	0.26%	-3.19%
			1860	1.535	51.569	1.520	53.300	0.99%	-3.25%
			1880	1.557	51.495	1.520	53.300	2.43%	-3.39%
			1900	1.579	51.424	1.520	53.300	3.88%	-3.52%
			1905	1.585	51.407	1.520	53.300	4.28%	-3.55%
			1910	1.591	51.392	1.520	53.300	4.67%	-3.58%
10/14/2020	1900 Body	24.8	1850	1.491	52.537	1.520	53.300	-1.91%	-1.43%
			1860	1.502	52.503	1.520	53.300	-1.18%	-1.50%
			1880	1.523	52.431	1.520	53.300	0.20%	-1.63%
			1900	1.544	52.356	1.520	53.300	1.58%	-1.77%
			1905	1.550	52.338	1.520	53.300	1.97%	-1.80%
			1910	1.556	52.322	1.520	53.300	2.37%	-1.83%
10/18/2020	1900 Body	21.6	1850	1.505	52.980	1.520	53.300	-0.99%	-0.60%
			1860	1.517	52.947	1.520	53.300	-0.20%	-0.66%
			1880	1.539	52.876	1.520	53.300	1.25%	-0.80%
			1900	1.561	52.802	1.520	53.300	2.70%	-0.93%
			1905	1.566	52.784	1.520	53.300	3.03%	-0.97%
			1910	1.572	52.766	1.520	53.300	3.42%	-1.00%
10/21/2020	1900 Body	24.6	1850	1.508	52.741	1.520	53.300	-0.79%	-1.05%
			1860	1.518	52.710	1.520	53.300	-0.13%	-1.11%
			1880	1.540	52.647	1.520	53.300	1.32%	-1.23%
			1900	1.563	52.585	1.520	53.300	2.83%	-1.34%
			1905	1.569	52.570	1.520	53.300	3.22%	-1.37%
			1910	1.575	52.556	1.520	53.300	3.62%	-1.40%
09/28/2020	2450 Body	22.4	2560	2.179	51.586	2.106	52.560	3.47%	-1.85%
			2600	2.224	51.471	2.163	52.509	2.82%	-1.98%
			2650	2.288	51.285	2.234	52.445	2.42%	-2.21%
			2300	1.866	51.864	1.809	52.900	3.15%	-1.96%
			2310	1.877	51.835	1.816	52.887	3.36%	-1.99%
			2320	1.887	51.808	1.826	52.873	3.34%	-2.01%
10/01/2020	2450 Body	23.3	2535	2.132	51.185	2.071	52.592	2.95%	-2.68%
			2550	2.150	51.147	2.092	52.573	2.77%	-2.71%
			2560	2.162	51.122	2.106	52.560	2.66%	-2.74%
			2600	2.205	51.009	2.163	52.509	1.94%	-2.86%

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**Table 10-4
Measured Body Tissue Properties (Cont.)**

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
10/04/2020	2450 Body	23.5	2300	1.863	51.016	1.809	52.900	2.99%	-3.56%
			2310	1.875	50.990	1.816	52.887	3.25%	-3.59%
			2320	1.886	50.962	1.826	52.873	3.29%	-3.61%
			2400	1.977	50.738	1.902	52.767	3.94%	-3.85%
			2450	2.038	50.593	1.950	52.700	4.51%	-4.00%
			2480	2.071	50.512	1.993	52.662	3.91%	-4.08%
			2500	2.095	50.440	2.021	52.636	3.66%	-4.17%
			2510	2.107	50.404	2.035	52.623	3.54%	-4.22%
			2535	2.139	50.320	2.071	52.592	3.28%	-4.32%
			2550	2.157	50.280	2.092	52.573	3.11%	-4.36%
			2560	2.169	50.255	2.106	52.560	2.99%	-4.39%
			2600	2.212	50.136	2.163	52.509	2.27%	-4.52%
			2650	2.274	49.961	2.234	52.445	1.79%	-4.74%
			2680	2.310	49.888	2.277	52.407	1.45%	-4.81%
			2700	2.331	49.834	2.305	52.382	1.13%	-4.86%
10/11/2020	2450 Body	21.3	2300	1.876	51.734	1.809	52.900	3.70%	-2.20%
			2310	1.887	51.702	1.816	52.887	3.91%	-2.24%
			2320	1.899	51.671	1.826	52.873	4.00%	-2.27%
			2400	1.987	51.460	1.902	52.767	4.47%	-2.48%
			2450	2.046	51.315	1.950	52.700	4.92%	-2.63%
			2480	2.080	51.253	1.993	52.662	4.37%	-2.68%
			2450	2.042	52.020	1.950	52.700	4.72%	-1.29%
			2480	2.079	51.945	1.993	52.662	4.32%	-1.36%
10/15/2020	2450 Body	22.9	2500	2.102	51.888	2.021	52.636	4.01%	-1.42%
			2510	2.113	51.853	2.035	52.623	3.83%	-1.46%
			2535	2.144	51.771	2.071	52.592	3.52%	-1.56%
			2550	2.164	51.728	2.092	52.573	3.44%	-1.61%
			2560	2.177	51.704	2.106	52.560	3.37%	-1.63%
			2600	2.223	51.583	2.163	52.509	2.77%	-1.76%
			2650	2.286	51.414	2.234	52.445	2.33%	-1.97%
			2680	2.323	51.322	2.277	52.407	2.02%	-2.07%
			2560	2.164	51.734	2.106	52.560	2.75%	-1.57%
			2600	2.205	51.607	2.163	52.509	1.94%	-1.72%
10/19/2020	2450 Body	23.1	2650	2.271	51.459	2.234	52.445	1.66%	-1.88%
11/02/2020	2450 Body	23.3	2300	1.880	52.275	1.809	52.900	3.92%	-1.18%
			2310	1.892	52.249	1.816	52.887	4.19%	-1.21%
			2320	1.904	52.217	1.826	52.873	4.27%	-1.24%
11/05/2020	2450 Body	22.7	2300	1.861	53.037	1.809	52.900	2.87%	0.26%
			2310	1.872	53.010	1.816	52.887	3.08%	0.23%
			2320	1.883	52.983	1.826	52.873	3.12%	0.21%
11/5/2020	2450 Body	22.5	2560	2.140	51.444	2.106	52.560	1.61%	-2.12%
			2600	2.200	51.296	2.163	52.509	1.71%	-2.31%
			2650	2.272	51.105	2.234	52.445	1.70%	-2.56%
11/09/2020	3600 Body	21.7	3500	3.169	50.071	3.314	51.321	-4.38%	-2.44%
			3560	3.239	49.979	3.384	51.240	-4.28%	-2.46%
			3600	3.285	49.903	3.431	51.186	-4.26%	-2.51%
			3650	3.341	49.827	3.489	51.118	-4.24%	-2.53%
			3690	3.399	49.749	3.536	51.063	-4.16%	-2.57%
			3700	3.404	49.729	3.548	51.050	-4.06%	-2.59%
			3750	3.459	49.672	3.606	50.982	-4.08%	-2.57%
			3900	3.639	49.423	3.781	50.779	-3.76%	-2.67%
			3930	3.684	49.359	3.816	50.738	-3.46%	-2.72%
			3700	3.585	49.042	3.548	51.050	1.04%	-3.93%
12/01/2020	3600 Body	20.0	3750	3.653	48.936	3.606	50.982	1.30%	-4.01%
			3900	3.845	48.653	3.781	50.779	1.69%	-4.19%
			3930	3.890	48.582	3.816	50.738	1.94%	-4.25%
10/09/2020	5200-5800 Body	23.0	5250	5.503	48.336	5.358	48.947	2.71%	-1.25%
			5260	5.515	48.304	5.369	48.933	2.72%	-1.29%
			5290	5.555	48.224	5.404	48.892	2.79%	-1.37%
			5300	5.571	48.220	5.416	48.879	2.86%	-1.35%
			5530	5.880	47.861	5.685	48.566	3.43%	-1.45%
			5600	5.966	47.754	5.766	48.471	3.47%	-1.48%
			5620	5.998	47.714	5.790	48.444	3.59%	-1.51%
			5720	6.134	47.538	5.907	48.309	3.84%	-1.60%
			5745	6.173	47.497	5.936	48.275	3.99%	-1.61%
			5750	6.182	47.489	5.942	48.268	4.04%	-1.61%
			5775	6.211	47.447	5.971	48.234	4.02%	-1.63%
			5785	6.223	47.427	5.982	48.220	4.03%	-1.64%
10/18/2020	5200-5800 Body	21.5	5250	5.498	48.181	5.358	48.947	2.61%	-1.56%
			5260	5.513	48.163	5.369	48.933	2.68%	-1.57%
			5280	5.540	48.117	5.393	48.906	2.73%	-1.61%
			5290	5.552	48.102	5.404	48.892	2.74%	-1.62%
			5300	5.565	48.087	5.416	48.879	2.75%	-1.62%
			5520	5.862	47.713	5.673	48.580	3.33%	-1.78%
			5530	5.875	47.691	5.685	48.566	3.34%	-1.80%
			5600	5.973	47.595	5.766	48.471	3.59%	-1.89%
			5620	6.002	47.538	5.790	48.444	3.66%	-1.87%
			5720	6.143	47.359	5.907	48.309	4.00%	-1.97%
			5750	6.187	47.319	5.942	48.268	4.12%	-1.97%

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 10-5
System Verification Results – 1g Head

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} (%)
L	750	HEAD	09/25/2020	22.9	21.9	0.200	1054	7406	1.700	8.630	8.500	-1.51%
D	750	HEAD	10/14/2020	22.8	21.9	0.200	1161	7488	1.580	8.030	7.900	-1.62%
E	750	HEAD	11/03/2020	23.1	21.9	0.200	1054	3589	1.720	8.630	8.600	-0.35%
L	835	HEAD	10/02/2020	22.9	21.8	0.200	4d132	7406	1.960	9.650	9.800	1.55%
E	835	HEAD	10/06/2020	22.9	21.8	0.200	4d133	3589	1.960	9.430	9.800	3.92%
E	835	HEAD	10/08/2020	24.1	23.4	0.200	4d133	3589	2.020	9.430	10.100	7.10%
L	1750	HEAD	10/12/2020	22.9	22.8	0.100	1150	7406	3.710	36.500	37.100	1.64%
L	1750	HEAD	10/14/2020	22.1	24.5	0.100	1150	7406	3.670	36.500	36.700	0.55%
L	1900	HEAD	10/05/2020	24.8	22.7	0.100	5d148	7406	4.190	39.100	41.900	7.16%
L	1900	HEAD	10/07/2020	23.7	22.2	0.100	5d148	7406	4.190	39.100	41.900	7.16%
L	1900	HEAD	10/19/2020	20.7	22.8	0.100	5d148	7406	4.160	39.100	41.600	6.39%
P	2300	HEAD	09/16/2020	23.7	23.3	0.100	1073	7308	4.770	49.200	47.700	-3.05%
E	2300	HEAD	10/25/2020	23.2	24.0	0.100	1073	3589	5.160	49.200	51.600	4.88%
E	2450	HEAD	10/14/2020	24.3	22.4	0.100	981	3589	5.080	52.300	50.800	-2.87%
E	2450	HEAD	10/18/2020	23.2	22.8	0.100	981	3589	5.290	52.300	52.900	1.15%
E	2600	HEAD	10/02/2020	23.1	22.9	0.100	1064	3589	5.740	58.100	57.400	-1.20%
E	2600	HEAD	10/14/2020	24.3	22.4	0.100	1004	3589	5.810	55.900	58.100	3.94%
L	3500	HEAD	11/12/2020	21.3	21.4	0.100	1097	7539	6.820	66.400	68.200	2.71%
L	3700	HEAD	11/09/2020	23.1	22.5	0.100	1067	7539	7.090	67.200	70.900	5.51%
L	3900	HEAD	11/09/2020	23.1	22.5	0.100	1056	7539	7.350	68.900	73.500	6.68%
H	5250	HEAD	10/19/2020	22.4	21.2	0.050	1057	7357	3.640	79.200	72.800	-8.08%
H	5600	HEAD	10/19/2020	22.4	21.2	0.050	1057	7357	3.900	84.100	78.000	-7.25%
H	5750	HEAD	10/19/2020	22.4	21.2	0.050	1057	7357	3.720	80.500	74.400	-7.58%

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Table 10-6
System Verification Results – 1g Body

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} (%)
O	750	BODY	09/23/2020	22.8	21.4	0.200	1054	7547	1.800	8.530	9.000	5.51%
O	750	BODY	09/28/2020	23.5	21.4	0.200	1054	7547	1.730	8.530	8.650	1.41%
O	750	BODY	10/10/2020	22.8	21.6	0.200	1054	7547	1.720	8.530	8.600	0.82%
O	750	BODY	10/14/2020	23.5	22.3	0.200	1054	7547	1.700	8.530	8.500	-0.35%
O	750	BODY	10/20/2020	23.3	21.9	0.200	1054	7547	1.800	8.530	9.000	5.51%
O	750	BODY	10/26/2020	21.1	20.2	0.200	1054	7547	1.600	8.530	8.000	-6.21%
P	835	BODY	09/24/2020	23.7	22.0	0.200	4d132	7308	1.900	9.960	9.500	-4.62%
P	835	BODY	09/28/2020	22.0	21.5	0.200	4d132	7308	1.880	9.960	9.400	-5.62%
P	835	BODY	09/30/2020	23.3	22.2	0.200	4d132	7308	1.940	9.960	9.700	-2.61%
I	835	BODY	10/12/2020	22.2	21.3	0.200	4d133	7570	2.020	9.750	10.100	3.59%
I	1750	BODY	09/21/2020	20.9	20.9	0.100	1008	7570	3.960	37.400	39.600	5.88%
I	1750	BODY	09/28/2020	20.9	20.9	0.100	1008	7570	3.960	37.400	39.600	5.88%
I	1750	BODY	09/30/2020	21.9	22.1	0.100	1008	7570	3.910	37.400	39.100	4.55%
P	1750	BODY	10/14/2020	21.9	21.8	0.100	1150	7308	3.910	36.600	39.100	6.83%
J	1900	BODY	09/20/2020	21.3	22.3	0.100	5d080	7571	4.170	39.200	41.700	6.38%
J	1900	BODY	09/27/2020	23.3	24.1	0.100	5d149	7571	4.160	39.400	41.600	5.58%
J	1900	BODY	09/30/2020	21.5	22.6	0.100	5d080	7571	4.110	39.200	41.100	4.85%
J	1900	BODY	10/04/2020	21.3	22.6	0.100	5d080	7571	4.100	39.200	41.000	4.59%
H	1900	BODY	10/05/2020	23.2	22.5	0.100	5d080	7357	4.180	39.200	41.800	6.63%
J	1900	BODY	10/07/2020	21.7	22.3	0.100	5d080	7571	4.000	39.200	40.000	2.04%
J	1900	BODY	10/14/2020	22.9	23.8	0.100	5d080	7571	3.960	39.200	39.600	1.02%
J	1900	BODY	10/21/2020	22.0	24.6	0.100	5d080	7571	4.150	39.200	41.500	5.87%
K	2300	BODY	10/01/2020	22.4	22.2	0.100	1073	7409	5.010	47.700	50.100	5.03%
K	2300	BODY	10/11/2020	22.9	21.3	0.100	1073	7409	4.880	47.700	48.800	2.31%
K	2300	BODY	11/02/2020	22.0	22.3	0.100	1073	7409	4.960	47.700	49.600	3.98%
K	2300	BODY	11/05/2020	22.0	21.7	0.100	1073	7409	4.670	47.700	46.700	-2.10%
K	2450	BODY	10/11/2020	22.9	21.3	0.100	981	7409	5.210	50.900	52.100	2.36%
K	2600	BODY	09/28/2020	22.0	22.4	0.100	1064	7409	5.490	55.600	54.900	-1.26%
K	2600	BODY	10/01/2020	22.4	22.2	0.100	1064	7409	5.540	55.600	55.400	-0.36%
K	2600	BODY	10/04/2020	23.1	23.5	0.100	1064	7409	5.890	55.600	58.900	5.94%
K	2600	BODY	10/19/2020	22.0	22.1	0.100	1004	7409	5.530	54.800	55.300	0.91%
L	3500	BODY	11/09/2020	23.9	21.7	0.100	1097	7539	6.640	64.200	66.400	3.43%
L	3700	BODY	11/09/2020	23.9	21.7	0.100	1067	7539	6.860	65.200	68.600	5.21%
L	3900	BODY	11/09/2020	23.9	21.7	0.100	1056	7539	6.820	66.300	68.200	2.87%
G	5250	BODY	10/09/2020	22.4	23.0	0.050	1237	7538	3.500	75.600	70.000	-7.41%
G	5600	BODY	10/09/2020	22.4	23.0	0.050	1237	7538	3.930	78.500	78.600	0.13%
G	5750	BODY	10/09/2020	22.4	23.0	0.050	1237	7538	3.630	75.900	72.600	-4.35%

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Table 10-7
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} (%)
I	1750	BODY	09/28/2020	20.9	20.9	0.100	1008	7570	2.070	19.900	20.700	4.02%
I	1750	BODY	09/30/2020	21.9	22.1	0.100	1008	7570	2.050	19.900	20.500	3.02%
P	1750	BODY	10/16/2020	23.7	21.8	0.100	1150	7308	2.000	19.400	20.000	3.09%
J	1900	BODY	09/30/2020	21.5	22.6	0.100	5d080	7571	2.100	20.600	21.000	1.94%
J	1900	BODY	10/04/2020	21.3	22.6	0.100	5d080	7571	2.110	20.600	21.100	2.43%
H	1900	BODY	10/08/2020	24.2	22.4	0.100	5d080	7357	2.160	20.600	21.600	4.85%
J	1900	BODY	10/14/2020	22.9	23.8	0.100	5d080	7571	2.010	20.600	20.100	-2.43%
J	1900	BODY	10/18/2020	23.3	21.8	0.100	5d080	7571	2.140	20.600	21.400	3.88%
K	2300	BODY	10/04/2020	23.1	23.5	0.100	1073	7409	2.400	23.200	24.000	3.45%
K	2300	BODY	11/05/2020	22.0	21.7	0.100	1073	7409	2.230	23.200	22.300	-3.88%
K	2450	BODY	10/04/2020	23.1	23.5	0.100	981	7409	2.450	24.200	24.500	1.24%
K	2450	BODY	10/15/2020	22.0	23.0	0.100	981	7409	2.420	24.200	24.200	0.00%
K	2600	BODY	10/04/2020	23.1	23.5	0.100	1064	7409	2.600	25.000	26.000	4.00%
K	2600	BODY	10/15/2020	22.0	23.0	0.100	1004	7409	2.450	24.700	24.500	-0.81%
P	2600	BODY	11/05/2020	20.3	20.8	0.100	1071	7308	2.340	24.100	23.400	-2.90%
L	3700	BODY	12/01/2020	23.1	20.0	0.100	1067	7539	2.450	23.300	24.500	5.15%
L	3900	BODY	12/01/2020	23.1	20.0	0.100	1056	7539	2.370	23.000	23.700	3.04%
G	5250	BODY	10/18/2020	22.4	21.5	0.050	1237	7538	1.000	21.200	20.000	-5.66%
G	5600	BODY	10/18/2020	22.4	21.5	0.050	1237	7538	1.040	22.000	20.800	-5.45%
G	5750	BODY	10/18/2020	22.4	21.5	0.050	1237	7538	0.984	21.200	19.680	-7.17%

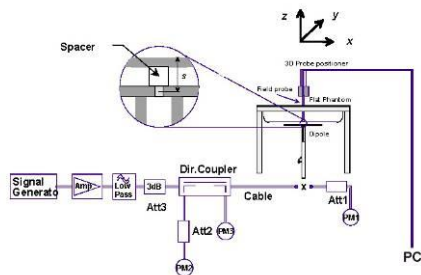


Figure 10-1
System Verification Setup Diagram



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	Antenna State	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	25.8	24.77	-0.02	Right	Cheek	0	0511M	1:1	0.191	1.268	0.242	
820.10	564	CDMA BC10 (S90S)	RC3 / SO55	25.8	24.77	0.17	Right	Tilt	0	0511M	1:1	0.084	1.268	0.107	
820.10	564	CDMA BC10 (S90S)	RC3 / SO55	25.8	24.77	0.02	Left	Cheek	0	0511M	1:1	0.126	1.268	0.160	
820.10	564	CDMA BC10 (S90S)	RC3 / SO55	25.8	24.77	0.05	Left	Tilt	0	0511M	1:1	0.085	1.268	0.108	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. A	25.8	24.82	-0.04	Right	Cheek	0	0511M	1:1	0.249	1.253	0.312	A1
820.10	564	CDMA BC10 (S90S)	EVDO Rev. A	25.8	24.82	0.03	Right	Tilt	0	0511M	1:1	0.090	1.253	0.113	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. A	25.8	24.82	0.01	Left	Cheek	0	0511M	1:1	0.134	1.253	0.168	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. A	25.8	24.82	0.04	Left	Tilt	0	0511M	1:1	0.068	1.253	0.085	
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	Antenna State	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	25.5	24.55	0.05	Right	Cheek	0	0511M	1:1	0.178	1.245	0.222	
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	25.5	24.55	0.13	Right	Tilt	0	0511M	1:1	0.075	1.245	0.093	
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	25.5	24.55	0.18	Left	Cheek	0	0511M	1:1	0.126	1.245	0.157	
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	25.5	24.55	0.12	Left	Tilt	0	0511M	1:1	0.078	1.245	0.097	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	25.5	24.58	0.12	Right	Cheek	0	0511M	1:1	0.194	1.236	0.240	A2
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	25.5	24.58	0.12	Right	Tilt	0	0511M	1:1	0.081	1.236	0.100	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	25.5	24.58	0.17	Left	Cheek	0	0511M	1:1	0.123	1.236	0.152	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	25.5	24.58	-0.05	Left	Tilt	0	0511M	1:1	0.069	1.236	0.085	
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	Antenna State	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	24.5	23.13	0.14	Right	Cheek	113	0526M	1:1	0.109	1.371	0.149	
1880.00	600	PCS CDMA	RC3 / SO55	24.5	23.13	-0.02	Right	Tilt	113	0526M	1:1	0.066	1.371	0.090	
1880.00	600	PCS CDMA	RC3 / SO55	24.5	23.13	0.10	Left	Cheek	113	0526M	1:1	0.123	1.371	0.169	
1880.00	600	PCS CDMA	RC3 / SO55	24.5	23.13	0.09	Left	Tilt	113	0526M	1:1	0.061	1.371	0.084	
1880.00	600	PCS CDMA	EVDO Rev. A	24.5	23.18	0.05	Right	Cheek	113	0526M	1:1	0.104	1.355	0.141	
1880.00	600	PCS CDMA	EVDO Rev. A	24.5	23.18	0.15	Right	Tilt	113	0526M	1:1	0.057	1.355	0.077	
1880.00	600	PCS CDMA	EVDO Rev. A	24.5	23.18	0.12	Left	Cheek	113	0526M	1:1	0.139	1.355	0.188	A3
1880.00	600	PCS CDMA	EVDO Rev. A	24.5	23.18	-0.08	Left	Tilt	113	0526M	1:1	0.064	1.355	0.087	
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	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)	
836.60	190	GSM 850	GSM	33.5	32.36	0.06	Right	Cheek	0511M	1:8.3	0.125	1.300	0.163	A4
836.60	190	GSM 850	GSM	33.5	32.36	0.14	Right	Tilt	0511M	1:8.3	0.050	1.300	0.065	
836.60	190	GSM 850	GSM	33.5	32.36	0.06	Left	Cheek	0511M	1:8.3	0.087	1.300	0.113	
836.60	190	GSM 850	GSM	33.5	32.36	0.17	Left	Tilt	0511M	1:8.3	0.051	1.300	0.066	
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 11-5
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	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)	
1880.00	661	GSM 1900	GSM	30.5	29.15	0.15	Right	Cheek	0526M	1:8.3	0.054	1.365	0.074	
1880.00	661	GSM 1900	GSM	30.5	29.15	0.11	Right	Tilt	0526M	1:8.3	0.027	1.365	0.037	
1880.00	661	GSM 1900	GSM	30.5	29.15	0.13	Left	Cheek	0526M	1:8.3	0.064	1.365	0.087	A5
1880.00	661	GSM 1900	GSM	30.5	29.15	-0.15	Left	Tilt	0526M	1:8.3	0.021	1.365	0.029	
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 11-6
UMTS 850 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna State	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	25.8	24.64	0.07	Right	Cheek	0	0511M	1:1	0.176	1.306	0.230	A6
836.60	4183	UMTS 850	RMC	25.8	24.64	0.18	Right	Tilt	0	0511M	1:1	0.073	1.306	0.095	
836.60	4183	UMTS 850	RMC	25.8	24.64	0.15	Left	Cheek	0	0511M	1:1	0.126	1.306	0.165	
836.60	4183	UMTS 850	RMC	25.8	24.64	0.07	Left	Tilt	0	0511M	1:1	0.078	1.306	0.102	
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	Antenna State	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	24.5	23.53	-0.12	Right	Cheek	26	0526M	1:1	0.115	1.250	0.144	
1732.40	1412	UMTS 1750	RMC	24.5	23.53	-0.08	Right	Tilt	26	0526M	1:1	0.108	1.250	0.135	
1732.40	1412	UMTS 1750	RMC	24.5	23.53	-0.09	Left	Cheek	26	0526M	1:1	0.155	1.250	0.194	A7
1732.40	1412	UMTS 1750	RMC	24.5	23.53	0.12	Left	Tilt	26	0526M	1:1	0.100	1.250	0.125	
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 11-8
UMTS 1900 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna State	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	24.5	22.92	0.04	Right	Cheek	14	0526M	1:1	0.109	1.439	0.157	
1880.00	9400	UMTS 1900	RMC	24.5	22.92	-0.07	Right	Tilt	14	0526M	1:1	0.059	1.439	0.085	
1880.00	9400	UMTS 1900	RMC	24.5	22.92	0.10	Left	Cheek	14	0526M	1:1	0.127	1.439	0.183	A8
1880.00	9400	UMTS 1900	RMC	24.5	22.92	0.08	Left	Tilt	14	0526M	1:1	0.056	1.439	0.081	
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 11-9
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	Antenna State	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	25.8	25.02	0.14	0	Right	Cheek	2	QPSK	1	0	0554M	1:1	0.077	1.197	0.092	A9
680.50	133297	Mid	LTE Band 71	20	24.8	24.23	0.06	1	Right	Cheek	2	QPSK	50	25	0554M	1:1	0.074	1.140	0.084	
680.50	133297	Mid	LTE Band 71	20	25.8	25.02	0.21	0	Right	Tilt	112	QPSK	1	0	0554M	1:1	0.030	1.197	0.036	
680.50	133297	Mid	LTE Band 71	20	24.8	24.23	0.12	1	Right	Tilt	112	QPSK	50	25	0554M	1:1	0.026	1.140	0.030	
680.50	133297	Mid	LTE Band 71	20	25.8	25.02	0.13	0	Left	Cheek	104	QPSK	1	0	0554M	1:1	0.071	1.197	0.085	
680.50	133297	Mid	LTE Band 71	20	24.8	24.23	0.17	1	Left	Cheek	104	QPSK	50	25	0554M	1:1	0.057	1.140	0.065	
680.50	133297	Mid	LTE Band 71	20	25.8	25.02	0.16	0	Left	Tilt	104	QPSK	1	0	0554M	1:1	0.037	1.197	0.044	
680.50	133297	Mid	LTE Band 71	20	24.8	24.23	0.14	1	Left	Tilt	104	QPSK	50	25	0554M	1:1	0.028	1.140	0.032	
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	Antenna State	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	25.8	25.16	0.03	0	Right	Cheek	0	QPSK	1	25	0509M	1:1	0.133	1.159	0.154	A10
707.50	23095	Mid	LTE Band 12	10	24.8	24.31	0.02	1	Right	Cheek	0	QPSK	25	12	0509M	1:1	0.112	1.119	0.125	
707.50	23095	Mid	LTE Band 12	10	25.8	25.16	0.08	0	Right	Tilt	2	QPSK	1	25	0509M	1:1	0.052	1.159	0.060	
707.50	23095	Mid	LTE Band 12	10	24.8	24.31	0.16	1	Right	Tilt	2	QPSK	25	12	0509M	1:1	0.042	1.119	0.047	
707.50	23095	Mid	LTE Band 12	10	25.8	25.16	0.04	0	Left	Cheek	0	QPSK	1	25	0509M	1:1	0.130	1.159	0.151	
707.50	23095	Mid	LTE Band 12	10	24.8	24.31	0.06	1	Left	Cheek	0	QPSK	25	12	0509M	1:1	0.105	1.119	0.117	
707.50	23095	Mid	LTE Band 12	10	25.8	25.16	0.15	0	Left	Tilt	0	QPSK	1	25	0509M	1:1	0.073	1.159	0.085	
707.50	23095	Mid	LTE Band 12	10	24.8	24.31	0.04	1	Left	Tilt	0	QPSK	25	12	0509M	1:1	0.059	1.119	0.066	
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 11-11
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	Antenna State	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
																	(W/kg)		(W/kg)	
782.00	23230	Mid	LTE Band 13	10	25.8	25.16	-0.01	0	Right	Cheek	1	QPSK	1	49	0554M	1:1	0.142	1.159	0.165	A11
782.00	23230	Mid	LTE Band 13	10	24.8	24.22	0.06	1	Right	Cheek	1	QPSK	25	12	0554M	1:1	0.111	1.143	0.127	
782.00	23230	Mid	LTE Band 13	10	25.8	25.16	-0.01	0	Right	Tilt	1	QPSK	1	49	0554M	1:1	0.071	1.159	0.082	
782.00	23230	Mid	LTE Band 13	10	24.8	24.22	-0.01	1	Right	Tilt	1	QPSK	25	12	0554M	1:1	0.052	1.143	0.059	
782.00	23230	Mid	LTE Band 13	10	25.8	25.16	0.00	0	Left	Cheek	1	QPSK	1	49	0554M	1:1	0.120	1.159	0.139	
782.00	23230	Mid	LTE Band 13	10	24.8	24.22	0.05	1	Left	Cheek	1	QPSK	25	12	0554M	1:1	0.088	1.143	0.101	
782.00	23230	Mid	LTE Band 13	10	25.8	25.16	-0.07	0	Left	Tilt	1	QPSK	1	49	0554M	1:1	0.068	1.159	0.079	
782.00	23230	Mid	LTE Band 13	10	24.8	24.22	0.03	1	Left	Tilt	1	QPSK	25	12	0554M	1:1	0.051	1.143	0.058	
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 11-12
LTE Band 14 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
793.00	23330	Mid	LTE Band 14	10	25.8	25.17	0.01	0	Right	Cheek	2	QPSK	1	49	0554M	1:1	0.173	1.157	0.200	A12
793.00	23330	Mid	LTE Band 14	10	24.8	24.15	0.04	1	Right	Cheek	2	QPSK	25	12	0554M	1:1	0.137	1.161	0.159	
793.00	23330	Mid	LTE Band 14	10	25.8	25.17	-0.04	0	Right	Tilt	2	QPSK	1	49	0554M	1:1	0.077	1.157	0.089	
793.00	23330	Mid	LTE Band 14	10	24.8	24.15	0.07	1	Right	Tilt	2	QPSK	25	12	0554M	1:1	0.062	1.161	0.072	
793.00	23330	Mid	LTE Band 14	10	25.8	25.17	0.08	0	Left	Cheek	2	QPSK	1	49	0554M	1:1	0.128	1.157	0.148	
793.00	23330	Mid	LTE Band 14	10	24.8	24.15	0.07	1	Left	Cheek	2	QPSK	25	12	0554M	1:1	0.100	1.161	0.116	
793.00	23330	Mid	LTE Band 14	10	25.8	25.17	0.03	0	Left	Tilt	2	QPSK	1	49	0554M	1:1	0.077	1.157	0.089	
793.00	23330	Mid	LTE Band 14	10	24.8	24.15	0.06	1	Left	Tilt	2	QPSK	25	12	0554M	1:1	0.058	1.161	0.067	
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 5 (Cell) Head SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
		MHz	Ch.																			
																						(W/kg)
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.89	0.21	0	Right	Cheek	42	QPSK	1	0	0427M	1:1	0.158	1.233	0.195	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.91	0.04	0	Right	Cheek	42	QPSK	1	25	0427M	1:1	0.171	1.227	0.210	A13
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.97	0.03	1	Right	Cheek	42	QPSK	25	25	0427M	1:1	0.133	1.211	0.161	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	25.31	0.01	0	Right	Cheek	42	QPSK	1	0	0427M	1:1	0.170	1.119	0.190	
	SCC	829.30	20453	Mid	LTE Band 5 (Cell)	5									1	24						
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.91	0.13	0	Right	Tilt	0	QPSK	1	25	0427M	1:1	0.088	1.227	0.108	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.97	0.13	1	Right	Tilt	0	QPSK	25	25	0427M	1:1	0.075	1.211	0.091	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.91	-0.05	0	Left	Cheek	0	QPSK	1	25	0427M	1:1	0.116	1.227	0.142	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.97	0.08	1	Left	Cheek	0	QPSK	25	25	0427M	1:1	0.098	1.211	0.119	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.91	0.21	0	Left	Tilt	0	QPSK	1	25	0427M	1:1	0.071	1.227	0.087	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.97	0.14	1	Left	Tilt	0	QPSK	25	25	0427M	1:1	0.056	1.211	0.068	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

Table 11-14
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	Antenna State	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
																	(W/kg)		(W/kg)	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.98	-0.03	0	Right	Cheek	0	QPSK	1	36	0554M	1:1	0.181	1.208	0.219	A14
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.96	0.03	1	Right	Cheek	0	QPSK	36	18	0554M	1:1	0.151	1.213	0.183	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.98	0.14	0	Right	Tilt	0	QPSK	1	36	0554M	1:1	0.083	1.208	0.100	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.96	0.08	1	Right	Tilt	0	QPSK	36	18	0554M	1:1	0.067	1.213	0.081	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.98	-0.05	0	Left	Cheek	0	QPSK	1	36	0554M	1:1	0.147	1.208	0.178	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.96	0.13	1	Left	Cheek	0	QPSK	36	18	0554M	1:1	0.109	1.213	0.132	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.98	0.00	0	Left	Tilt	0	QPSK	1	36	0554M	1:1	0.074	1.208	0.089	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.96	0.09	1	Left	Tilt	0	QPSK	36	18	0554M	1:1	0.058	1.213	0.070	
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 11-15
LTE Band 66 (AWS) Head SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	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	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.76	0.19	0	Right	Cheek	28	QPSK	1	50	0421M	1:1	0.110	1.186	0.130	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	22.83	-0.01	1	Right	Cheek	28	QPSK	50	25	0421M	1:1	0.093	1.167	0.109	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.76	0.16	0	Right	Tilt	26	QPSK	1	50	0421M	1:1	0.096	1.186	0.114	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	22.83	-0.04	1	Right	Tilt	26	QPSK	50	25	0421M	1:1	0.075	1.167	0.088	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.76	0.03	0	Left	Cheek	26	QPSK	1	50	0421M	1:1	0.191	1.186	0.227	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.50	0.08	0	Left	Cheek	26	QPSK	1	99	0421M	1:1	0.194	1.259	0.244	
1 CC Uplink	N/A	1715.00	132022	Low	LTE Band 66 (AWS)	10	24.5	23.62	0.12	0	Left	Cheek	26	QPSK	1	49	0421M	1:1	0.173	1.225	0.212	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	22.83	0.05	1	Left	Cheek	26	QPSK	50	25	0421M	1:1	0.151	1.167	0.176	
2 CC Uplink CA_66C	PCC	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	24.45	0.19	0	Left	Cheek	26	QPSK	1	99	0421M	1:1	0.229	1.012	0.232	A15
	SCC	1739.80	132270	Low	LTE Band 66 (AWS)	20									1	0						
2 CC Uplink CA_66B	PCC	1715.00	132022	Low	LTE Band 66 (AWS)	10	24.5	24.20	-0.08	0	Left	Cheek	26	QPSK	1	49	0421M	1:1	0.189	1.072	0.203	
	SCC	1724.90	132121	Low	LTE Band 66 (AWS)	10									1	0						
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.76	-0.05	0	Left	Tilt	26	QPSK	1	50	0421M	1:1	0.095	1.186	0.113	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	22.83	0.05	1	Left	Tilt	26	QPSK	50	25	0421M	1:1	0.085	1.167	0.099	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Head										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

Table 11-16
LTE Band 25 (PCS) Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
																	(W/kg)		(W/kg)		
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.5	24.03	0.15	0	Right	Cheek	0	QPSK	1	0	0520M	1:1	0.089	1.114	0.099		
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.5	23.09	0.19	1	Right	Cheek	0	QPSK	50	0	0520M	1:1	0.075	1.099	0.082		
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.5	24.03	0.13	0	Right	Tilt	0	QPSK	1	0	0520M	1:1	0.051	1.114	0.057		
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.5	23.09	0.12	1	Right	Tilt	0	QPSK	50	0	0520M	1:1	0.048	1.099	0.053		
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.5	24.03	-0.18	0	Left	Cheek	0	QPSK	1	0	0520M	1:1	0.145	1.114	0.162	A16	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.5	23.09	0.08	1	Left	Cheek	0	QPSK	50	0	0520M	1:1	0.114	1.099	0.125		
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.5	24.03	0.15	0	Left	Tilt	0	QPSK	1	0	0520M	1:1	0.051	1.114	0.057		
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.5	23.09	0.11	1	Left	Tilt	0	QPSK	50	0	0520M	1:1	0.042	1.099	0.046		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head										1.6 W/kg (mW/g)	
Spatial Peak																				averaged over 1 gram	
Uncontrolled Exposure/General Population																					

Table 11-17
LTE Band 30 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)		
2310.00	27710	Mid	LTE Band 30	10	24.0	23.24	0.14	0	Right	Cheek	QPSK	1	25	0560M	1:1	0.038	1.191	0.045	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.30	0.17	1	Right	Cheek	QPSK	25	0	0560M	1:1	0.025	1.175	0.029	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.24	-0.01	0	Right	Tilt	QPSK	1	25	0560M	1:1	0.018	1.191	0.021	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.30	0.18	1	Right	Tilt	QPSK	25	0	0560M	1:1	0.009	1.175	0.011	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.24	0.17	0	Left	Cheek	QPSK	1	25	0560M	1:1	0.042	1.191	0.050	A17
2310.00	27710	Mid	LTE Band 30	10	23.0	22.30	0.14	1	Left	Cheek	QPSK	25	0	0560M	1:1	0.028	1.175	0.033	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.24	0.13	0	Left	Tilt	QPSK	1	25	0560M	1:1	0.008	1.191	0.010	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.30	0.16	1	Left	Tilt	QPSK	25	0	0560M	1:1	0.005	1.175	0.006	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head									
Spatial Peak										1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population										averaged over 1 gram									

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Table 11-18
LTE Band 7 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)			
2535.00	21100	Mid	LTE Band 7	20	24.5	23.73	0.16	0	Right	Cheek	QPSK	1	99	0579M	1:1	0.057	1.194	0.068	
2535.00	21100	Mid	LTE Band 7	20	23.5	22.91	0.19	1	Right	Cheek	QPSK	50	25	0579M	1:1	0.047	1.146	0.054	
2535.00	21100	Mid	LTE Band 7	20	24.5	23.73	0.19	0	Right	Tilt	QPSK	1	99	0579M	1:1	0.050	1.194	0.060	
2535.00	21100	Mid	LTE Band 7	20	23.5	22.91	0.18	1	Right	Tilt	QPSK	50	25	0579M	1:1	0.047	1.146	0.054	
2535.00	21100	Mid	LTE Band 7	20	24.5	23.73	0.13	0	Left	Cheek	QPSK	1	99	0579M	1:1	0.057	1.194	0.068	A18
2535.00	21100	Mid	LTE Band 7	20	23.5	22.91	0.16	1	Left	Cheek	QPSK	50	25	0579M	1:1	0.043	1.146	0.049	
2535.00	21100	Mid	LTE Band 7	20	24.5	23.73	-0.14	0	Left	Tilt	QPSK	1	99	0579M	1:1	0.034	1.194	0.041	
2535.00	21100	Mid	LTE Band 7	20	23.5	22.91	0.16	1	Left	Tilt	QPSK	50	25	0579M	1:1	0.027	1.146	0.031	
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 11-19
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 (lg)	Scaling Factor	Reported SAR (lg)	Plot #
		MHz	Ch.	(W/kg)														(W/kg)			
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.24	0.18	0	Right	Cheek	QPSK	1	50	0414M	1:1.58	0.041	1.191	0.049	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.34	0.19	1	Right	Cheek	QPSK	50	25	0414M	1:1.58	0.029	1.164	0.034	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.24	0.01	0	Right	Tilt	QPSK	1	50	0414M	1:1.58	0.057	1.191	0.068	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.10	0.09	0	Right	Tilt	QPSK	1	99	0414M	1:1.58	0.052	1.230	0.064	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.34	0.15	1	Right	Tilt	QPSK	50	25	0414M	1:1.58	0.044	1.164	0.051	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	28.0	27.40	0.19	0	Right	Tilt	QPSK	1	50	0414M	1:2.31	0.086	1.148	0.099	A19
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	28.0	27.03	0.17	0	Right	Tilt	QPSK	1	99	0414M	1:2.31	0.071	1.250	0.089	
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	LTE Band 41	20	25.0	24.99	0.15	0	Right	Tilt	QPSK	1	99	0414M	1:1.58	0.065	1.002	0.065	
	SCC	2612.80	40818	Mid		20								1	0						
2 CC Uplink - Power Class 2	PCC	2593.00	40620	Mid	LTE Band 41	20	28.0	27.88	0.13	0	Right	Tilt	QPSK	1	99	0414M	1:2.31	0.082	1.028	0.084	
	SCC	2612.80	40818	Mid		20								1	0						
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.24	-0.10	0	Left	Cheek	QPSK	1	50	0414M	1:1.58	0.031	1.191	0.037	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.34	0.13	1	Left	Cheek	QPSK	50	25	0414M	1:1.58	0.022	1.164	0.026	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.24	0.11	0	Left	Tilt	QPSK	1	50	0414M	1:1.58	0.035	1.191	0.042	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.34	0.13	1	Left	Tilt	QPSK	50	25	0414M	1:1.58	0.026	1.164	0.030	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Head									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

FCC ID: A3LSMG996U	 Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 11-20
LTE Band 48 Head SAR

MEASUREMENT RESULTS																					
1 CC Uplink 2 CC Uplink	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	N/A	3560.00	55340	Low	LTE Band 48	20	18.0	17.44	-0.01	0	Right	Cheek	QPSK	1	50	0764M	1:1.58	0.437	1.138	0.497	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	18.0	17.50	-0.01	0	Right	Cheek	QPSK	50	25	0764M	1:1.58	0.448	1.122	0.503	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	18.0	17.43	-0.06	0	Right	Cheek	QPSK	50	50	0764M	1:1.58	0.434	1.140	0.495	
2 CC Uplink	PCC	3560.00	55340	Low	LTE Band 48	20	18.0	17.55	0.01	0	Right	Cheek	QPSK	50	50	0764M	1:1.58	0.452	1.109	0.501	A20
	SCC	3579.80	55538											50	0						
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	18.0	17.44	0.17	0	Right	Tilt	QPSK	1	50	0764M	1:1.58	0.036	1.138	0.041	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	18.0	17.50	0.13	0	Right	Tilt	QPSK	50	25	0764M	1:1.58	0.035	1.122	0.039	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	18.0	17.44	-0.13	0	Left	Cheek	QPSK	1	50	0764M	1:1.58	0.217	1.138	0.247	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	18.0	17.50	-0.15	0	Left	Cheek	QPSK	50	25	0764M	1:1.58	0.226	1.122	0.254	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	18.0	17.44	0.06	0	Left	Tilt	QPSK	1	50	0764M	1:1.58	0.062	1.138	0.071	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	18.0	17.50	0.15	0	Left	Tilt	QPSK	50	25	0764M	1:1.58	0.061	1.122	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									

Table 11-21
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	Antenna State	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
680.50	136100	Mid	NR Band n71	20	25.8	25.04	0.14	0	Right	Cheek	2	DFT-S-OFDM	QPSK	1	53	0413M	1:1	0.044	1.191	0.052	
680.50	136100	Mid	NR Band n71	20	25.8	25.06	0.18	0	Right	Cheek	2	DFT-S-OFDM	QPSK	50	28	0413M	1:1	0.044	1.186	0.052	
680.50	136100	Mid	NR Band n71	20	25.8	25.04	0.18	0	Right	Tilt	112	DFT-S-OFDM	QPSK	1	53	0413M	1:1	0.013	1.191	0.015	
680.50	136100	Mid	NR Band n71	20	25.8	25.06	0.18	0	Right	Tilt	112	DFT-S-OFDM	QPSK	50	28	0413M	1:1	0.013	1.186	0.015	
680.50	136100	Mid	NR Band n71	20	25.8	25.04	0.17	0	Left	Cheek	104	DFT-S-OFDM	QPSK	1	53	0413M	1:1	0.078	1.191	0.093	
680.50	136100	Mid	NR Band n71	20	25.8	25.06	0.12	0	Left	Cheek	104	DFT-S-OFDM	QPSK	50	28	0413M	1:1	0.078	1.186	0.093	A21
680.50	136100	Mid	NR Band n71	20	24.3	23.55	0.16	1.5	Left	Cheek	104	CP-OFDM	QPSK	1	1	0413M	1:1	0.052	1.189	0.062	
680.50	136100	Mid	NR Band n71	20	25.8	25.04	0.17	0	Left	Tilt	104	DFT-S-OFDM	QPSK	1	53	0413M	1:1	0.044	1.191	0.052	
680.50	136100	Mid	NR Band n71	20	25.8	25.06	0.16	0	Left	Tilt	104	DFT-S-OFDM	QPSK	50	28	0413M	1:1	0.042	1.186	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 11-22
NR Band n12 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	(W/kg)																(W/kg)			
707.50	141500	Mid	NR Band n12	15	25.8	24.72	0.10	0	Right	Cheek	0	DFT-S-OFDM	QPSK	1	77	0406M	1.1	0.094	1.282	0.121	A22
707.50	141500	Mid	NR Band n12	15	25.8	24.62	0.00	0	Right	Cheek	0	DFT-S-OFDM	QPSK	36	22	0406M	1.1	0.103	1.312	0.135	
707.50	141500	Mid	NR Band n12	15	24.3	22.88	0.02	1.5	Right	Cheek	0	CP-OFDM	QPSK	1	1	0406M	1.1	0.063	1.387	0.087	
707.50	141500	Mid	NR Band n12	15	25.8	24.72	0.18	0	Right	Tilt	2	DFT-S-OFDM	QPSK	1	77	0406M	1.1	0.041	1.282	0.053	
707.50	141500	Mid	NR Band n12	15	25.8	24.62	0.15	0	Right	Tilt	2	DFT-S-OFDM	QPSK	36	22	0406M	1.1	0.047	1.312	0.062	
707.50	141500	Mid	NR Band n12	15	25.8	24.72	0.19	0	Left	Cheek	0	DFT-S-OFDM	QPSK	1	77	0406M	1.1	0.074	1.282	0.095	
707.50	141500	Mid	NR Band n12	15	25.8	24.62	0.17	0	Left	Cheek	0	DFT-S-OFDM	QPSK	36	22	0406M	1.1	0.085	1.312	0.112	
707.50	141500	Mid	NR Band n12	15	25.8	24.72	0.12	0	Left	Tilt	0	DFT-S-OFDM	QPSK	1	77	0406M	1.1	0.041	1.282	0.053	
707.50	141500	Mid	NR Band n12	15	25.8	24.62	0.12	0	Left	Tilt	0	DFT-S-OFDM	QPSK	36	22	0406M	1.1	0.043	1.312	0.056	
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 11-23
NR Band n5 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.01	0.15	0	Right	Cheek	42	DFT-S-OFDM	QPSK	1	104	0407M	1.1	0.128	1.199	0.153	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.00	0.00	0	Right	Cheek	42	DFT-S-OFDM	QPSK	50	28	0407M	1.1	0.123	1.202	0.148	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.01	0.10	0	Right	Tilt	0	DFT-S-OFDM	QPSK	1	104	0407M	1.1	0.077	1.199	0.092	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.00	0.11	0	Right	Tilt	0	DFT-S-OFDM	QPSK	50	28	0407M	1.1	0.095	1.202	0.114	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.01	0.18	0	Left	Cheek	0	DFT-S-OFDM	QPSK	1	104	0407M	1.1	0.102	1.199	0.122	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.00	-0.03	0	Left	Cheek	0	DFT-S-OFDM	QPSK	50	28	0407M	1.1	0.146	1.202	0.175	A23
836.50	167300	Mid	NR Band n5 (Cell)	20	24.3	23.43	-0.03	1.5	Left	Cheek	0	CP-OFDM	QPSK	1	1	0407M	1.1	0.085	1.222	0.104	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.01	0.11	0	Left	Tilt	0	DFT-S-OFDM	QPSK	1	104	0407M	1.1	0.067	1.199	0.080	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.00	0.13	0	Left	Tilt	0	DFT-S-OFDM	QPSK	50	28	0407M	1.1	0.090	1.202	0.108	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Table 11-24
NR Band n66 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Antenna Config	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Waveform	Modulation	RB Size	RB Offset	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	Ant A	25.0	24.62	0.19	0	Right	Cheek	28	DFT-S-OFDM	QPSK	1	108	0417M	1.1	0.141	1.091	0.154	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant A	25.0	24.49	-0.01	0	Right	Cheek	28	DFT-S-OFDM	QPSK	108	54	0417M	1.1	0.140	1.125	0.158	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant A	25.0	24.62	0.05	0	Right	Tilt	26	DFT-S-OFDM	QPSK	1	108	0417M	1.1	0.117	1.091	0.128	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant A	25.0	24.49	0.15	0	Right	Tilt	26	DFT-S-OFDM	QPSK	108	54	0417M	1.1	0.118	1.125	0.133	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant A	25.0	24.62	0.07	0	Left	Cheek	26	DFT-S-OFDM	QPSK	1	108	0417M	1.1	0.217	1.091	0.237	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant A	25.0	24.49	0.16	0	Left	Cheek	26	DFT-S-OFDM	QPSK	108	54	0417M	1.1	0.211	1.125	0.237	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant A	23.5	23.50	0.17	1.5	Left	Cheek	26	CP-OFDM	QPSK	1	1	0417M	1.1	0.179	1.000	0.179	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant A	25.0	24.62	-0.01	0	Left	Tilt	26	DFT-S-OFDM	QPSK	1	108	0417M	1.1	0.088	1.091	0.096	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant A	25.0	24.49	0.08	0	Left	Tilt	26	DFT-S-OFDM	QPSK	108	54	0417M	1.1	0.096	1.125	0.108	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant I	18.0	17.55	-0.17	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	1	108	0247M	1.1	0.262	1.109	0.313	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant I	18.0	17.53	0.09	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	108	0	0247M	1.1	0.262	1.114	0.292	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant I	18.0	17.55	0.01	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	1	108	0247M	1.1	0.374	1.109	0.415	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant I	18.0	17.53	0.07	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	108	0	0247M	1.1	0.360	1.114	0.401	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant I	18.0	17.55	0.06	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	1	108	0247M	1.1	0.316	1.109	0.350	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant I	18.0	17.53	0.15	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	108	0	0247M	1.1	0.327	1.114	0.364	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant I	18.0	17.55	-0.05	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	1	108	0247M	1.1	0.404	1.109	0.448	A24
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant I	18.0	17.53	0.14	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	108	0	0247M	1.1	0.386	1.114	0.430	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant I	18.0	17.64	-0.18	0	Left	Tilt	N/A	CP-OFDM	QPSK	1	1	0247M	1.1	0.357	1.086	0.388	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head 1.6 W/kg (mW/g) averaged over 1 gram												
Spatial Peak Uncontrolled Exposure/General Population																						

FCC ID: A3LSMG996U	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1M2009140143-01-R2.A3L	Test Dates: 09/16/20 – 12/01/20	DUT Type: Portable Handset	Page 315 of 410	

Table 11-25
NR Band n25 Head SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Antenna Config	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)
MHz	Ch.																	(W/kg)
1882.50	376500	Mid	NR Band n25 (PCS)	Ant A	25.3	24.86	0.16	0	Right	Cheek	0	DFT-S-OFDM	QPSK	1	1	0408M	1:1	0.087
1882.50	376500	Mid	NR Band n25 (PCS)	Ant A	25.3	24.68	0.16	0	Right	Cheek	0	DFT-S-OFDM	QPSK	108	54	0408M	1:1	0.097
1882.50	376500	Mid	NR Band n25 (PCS)	Ant A	25.3	24.86	0.10	0	Right	Tilt	0	DFT-S-OFDM	QPSK	1	1	0408M	1:1	0.053
1882.50	376500	Mid	NR Band n25 (PCS)	Ant A	25.3	24.68	0.17	0	Right	Tilt	0	DFT-S-OFDM	QPSK	108	54	0408M	1:1	0.053
1882.50	376500	Mid	NR Band n25 (PCS)	Ant A	25.3	24.86	0.15	0	Left	Cheek	0	DFT-S-OFDM	QPSK	1	1	0408M	1:1	0.132
1882.50	376500	Mid	NR Band n25 (PCS)	Ant A	25.3	24.68	0.19	0	Left	Cheek	0	DFT-S-OFDM	QPSK	108	54	0408M	1:1	0.106
1882.50	376500	Mid	NR Band n25 (PCS)	Ant A	23.8	22.82	0.19	1.5	Left	Cheek	0	CP-OFDM	QPSK	1	1	0408M	1:1	0.091
1882.50	376500	Mid	NR Band n25 (PCS)	Ant A	25.3	24.86	-0.17	0	Left	Tilt	0	DFT-S-OFDM	QPSK	1	1	0408M	1:1	0.047
1882.50	376500	Mid	NR Band n25 (PCS)	Ant A	25.3	24.68	0.15	0	Left	Tilt	0	DFT-S-OFDM	QPSK	108	54	0408M	1:1	0.052
1882.50	376500	Mid	NR Band n25 (PCS)	Ant I	18.0	17.88	-0.02	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	1	214	0303M	1:1	0.167
1882.50	376500	Mid	NR Band n25 (PCS)	Ant I	18.0	17.68	0.04	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	108	108	0303M	1:1	0.150
1882.50	376500	Mid	NR Band n25 (PCS)	Ant I	18.0	17.88	0.14	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	1	214	0303M	1:1	0.092
1882.50	376500	Mid	NR Band n25 (PCS)	Ant I	18.0	17.68	0.14	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	108	108	0303M	1:1	0.098
1882.50	376500	Mid	NR Band n25 (PCS)	Ant I	18.0	17.88	0.09	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	1	214	0303M	1:1	0.286
1882.50	376500	Mid	NR Band n25 (PCS)	Ant I	18.0	17.68	0.02	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	108	108	0303M	1:1	0.304
1882.50	376500	Mid	NR Band n25 (PCS)	Ant I	18.0	17.86	0.09	0	Left	Cheek	N/A	CP-OFDM	QPSK	1	1	0303M	1:1	0.315
1882.50	376500	Mid	NR Band n25 (PCS)	Ant I	18.0	17.88	-0.13	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	1	214	0303M	1:1	0.272
1882.50	376500	Mid	NR Band n25 (PCS)	Ant I	18.0	17.68	-0.13	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	108	108	0303M	1:1	0.236
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 11-26
NR Band n30 Head SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR
MHz	Ch.																	(W/kg)
2310.00	462000	Mid	NR Band n30	10	24.0	23.70	0.14	0	Right	Cheek	DFT-S-OFDM	QPSK	1	26	0419M	1:1	0.031	1.072
2310.00	462000	Mid	NR Band n30	10	24.0	23.52	0.13	0	Right	Cheek	DFT-S-OFDM	QPSK	25	14	0419M	1:1	0.031	1.117
2310.00	462000	Mid	NR Band n30	10	24.0	23.70	0.19	0	Right	Tilt	DFT-S-OFDM	QPSK	1	26	0419M	1:1	0.021	1.072
2310.00	462000	Mid	NR Band n30	10	24.0	23.52	0.11	0	Right	Tilt	DFT-S-OFDM	QPSK	25	14	0419M	1:1	0.020	1.117
2310.00	462000	Mid	NR Band n30	10	24.0	23.70	0.10	0	Left	Cheek	DFT-S-OFDM	QPSK	1	26	0419M	1:1	0.035	1.072
2310.00	462000	Mid	NR Band n30	10	24.0	23.52	0.11	0	Left	Cheek	DFT-S-OFDM	QPSK	25	14	0419M	1:1	0.035	1.117
2310.00	462000	Mid	NR Band n30	10	22.5	22.01	-0.14	1.5	Left	Cheek	CP-OFDM	QPSK	1	1	0419M	1:1	0.022	1.119
2310.00	462000	Mid	NR Band n30	10	24.0	23.70	0.19	0	Left	Tilt	DFT-S-OFDM	QPSK	1	26	0419M	1:1	0.011	1.072
2310.00	462000	Mid	NR Band n30	10	24.0	23.52	0.17	0	Left	Tilt	DFT-S-OFDM	QPSK	25	14	0419M	1:1	0.008	1.117
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 11-27
NR Band n41 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Antenna Config	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	(W/kg)																(W/kg)			
2592.99	518598	Mid	NR Band n41	100	Ant B	19.0	18.48	0.15	0.0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0311M	1.1	0.011	1.127	0.012	
2592.99	518598	Mid	NR Band n41	100	Ant B	19.0	18.28	0.19	0.0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0311M	1.1	0.006	1.180	0.007	
2592.99	518598	Mid	NR Band n41	100	Ant B	19.0	18.48	0.11	0.0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0311M	1.1	0.022	1.127	0.025	
2592.99	518598	Mid	NR Band n41	100	Ant B	19.0	18.28	0.12	0.0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0311M	1.1	0.019	1.180	0.022	
2592.99	518598	Mid	NR Band n41	100	Ant B	17.5	16.66	0.00	1.5	Right	Tilt	CP-OFDM	QPSK	1	1	0311M	1.1	0.005	1.213	0.006	
2592.99	518598	Mid	NR Band n41	100	Ant B	19.0	18.48	0.00	0.0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0311M	1.1	0.014	1.127	0.016	
2592.99	518598	Mid	NR Band n41	100	Ant B	19.0	18.28	0.14	0.0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0311M	1.1	0.010	1.180	0.012	
2592.99	518598	Mid	NR Band n41	100	Ant B	19.0	18.48	0.12	0.0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0311M	1.1	0.009	1.127	0.010	
2592.99	518598	Mid	NR Band n41	100	Ant B	19.0	18.28	0.17	0.0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0311M	1.1	0.006	1.180	0.007	
2592.99	518598	Mid	NR Band n41	100	Ant I	17.0	16.33	0.00	0.0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0289M	1.1	0.218	1.167	0.254	
2592.99	518598	Mid	NR Band n41	100	Ant I	17.0	16.30	0.17	0.0	Right	Cheek	DFT-S-OFDM	QPSK	135	0	0289M	1.1	0.204	1.175	0.240	
2592.99	518598	Mid	NR Band n41	100	Ant I	17.0	16.33	0.08	0.0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0289M	1.1	0.222	1.167	0.259	
2592.99	518598	Mid	NR Band n41	100	Ant I	17.0	16.30	-0.02	0.0	Right	Tilt	DFT-S-OFDM	QPSK	135	0	0289M	1.1	0.216	1.175	0.254	
2592.99	518598	Mid	NR Band n41	100	Ant I	17.0	16.33	0.19	0.0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0289M	1.1	0.500	1.167	0.584	
2592.99	518598	Mid	NR Band n41	100	Ant I	17.0	16.30	0.12	0.0	Left	Cheek	DFT-S-OFDM	QPSK	135	0	0289M	1.1	0.492	1.175	0.578	
2592.99	518598	Mid	NR Band n41	100	Ant I	17.0	16.33	0.18	0.0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0289M	1.1	0.538	1.167	0.628	
2592.99	518598	Mid	NR Band n41	100	Ant I	17.0	16.30	0.10	0.0	Left	Tilt	DFT-S-OFDM	QPSK	135	0	0289M	1.1	0.548	1.175	0.644	A27
2592.99	518598	Mid	NR Band n41	100	Ant I	17.0	16.21	0.19	0.0	Left	Tilt	DFT-S-OFDM	QPSK	270	0	0289M	1.1	0.540	1.199	0.647	
2592.99	518598	Mid	NR Band n41	100	Ant I	17.0	16.34	0.15	0.0	Left	Tilt	CP-OFDM	QPSK	1	1	0289M	1.1	0.500	1.164	0.582	
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 11-28
NR Band n77 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
3750.00	650000	Low	NR Band n77	100	15.0	14.92	-0.16	0.0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	0870M	1:1	0.519	1.019	0.529	
3930.00	662000	High	NR Band n77	100	15.0	13.91	-0.04	0.0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	0870M	1:1	0.484	1.285	0.622	
3750.00	650000	Low	NR Band n77	100	15.0	14.92	-0.17	0.0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0870M	1:1	0.502	1.019	0.512	
3930.00	662000	High	NR Band n77	100	15.0	14.21	-0.14	0.0	Right	Cheek	DFT-S-OFDM	QPSK	135	0	0870M	1:1	0.455	1.199	0.546	
3750.00	650000	Low	NR Band n77	100	15.0	14.90	-0.12	0.0	Right	Cheek	DFT-S-OFDM	QPSK	270	0	0870M	1:1	0.530	1.023	0.542	A28
3750.00	650000	Low	NR Band n77	100	15.0	14.52	-0.04	0.0	Right	Cheek	CP-OFDM	QPSK	1	1	0870M	1:1	0.526	1.117	0.588	
3750.00	650000	Low	NR Band n77	100	15.0	14.92	0.19	0.0	Right	Tilt	DFT-S-OFDM	QPSK	1	1	0870M	1:1	0.044	1.019	0.045	
3750.00	650000	Low	NR Band n77	100	15.0	14.92	0.14	0.0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0870M	1:1	0.038	1.019	0.039	
3750.00	650000	Low	NR Band n77	100	15.0	14.92	-0.17	0.0	Left	Cheek	DFT-S-OFDM	QPSK	1	1	0870M	1:1	0.212	1.019	0.216	
3750.00	650000	Low	NR Band n77	100	15.0	14.92	-0.11	0.0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0870M	1:1	0.213	1.019	0.217	
3750.00	650000	Low	NR Band n77	100	15.0	14.92	0.11	0.0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	0870M	1:1	0.058	1.019	0.059	
3750.00	650000	Low	NR Band n77	100	15.0	14.92	0.10	0.0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0870M	1:1	0.063	1.019	0.064	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

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Table 11-29
DTS Head SISO SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna State	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)	
2462	11	802.11b	DSSS	22	16.0	15.99	0.12	Right	Cheek	1	0412M	1	98.9	0.564	0.403	1.002	1.011	0.408	A29
2462	11	802.11b	DSSS	22	16.0	15.99	0.13	Right	Tilt	1	0412M	1	98.9	0.101	-	1.002	1.011	-	
2462	11	802.11b	DSSS	22	16.0	15.99	-0.19	Left	Cheek	1	0412M	1	98.9	0.802	0.396	1.002	1.011	0.401	
2462	11	802.11b	DSSS	22	16.0	15.99	0.21	Left	Tilt	1	0412M	1	98.9	0.048	-	1.002	1.011	-	
2437	6	802.11b	DSSS	22	16.0	15.77	0.05	Right	Cheek	2	0412M	1	98.9	0.234	-	1.054	1.011	-	
2437	6	802.11b	DSSS	22	16.0	15.77	0.05	Right	Tilt	2	0412M	1	98.9	0.050	-	1.054	1.011	-	
2437	6	802.11b	DSSS	22	16.0	15.77	0.16	Left	Cheek	2	0412M	1	98.9	0.437	0.249	1.054	1.011	0.265	
2437	6	802.11b	DSSS	22	16.0	15.77	0.10	Left	Tilt	2	0412M	1	98.9	0.025	-	1.054	1.011	-	
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 11-30
DTS Head MIMO SAR with 5 GHz WLAN

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]	Side	Test Position	Antenna State	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)		
2462	11	802.11n	OFDM	20	13.0	12.63	13.0	12.77	0.19	Right	Cheek	MIMO	0412M	13	93.1	0.247	0.184	1.089	1.074	0.215	
2462	11	802.11n	OFDM	20	13.0	12.63	13.0	12.77	0.13	Right	Tilt	MIMO	0412M	13	93.1	0.044	-	1.089	1.074	-	
2462	11	802.11n	OFDM	20	13.0	12.63	13.0	12.77	0.13	Left	Cheek	MIMO	0412M	13	93.1	0.257	0.188	1.089	1.074	0.220	
2462	11	802.11n	OFDM	20	13.0	12.63	13.0	12.77	0.11	Left	Tilt	MIMO	0412M	13	93.1	0.040	-	1.089	1.074	-	
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: DTS MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 5 GHz WIFI was not transmitting during the above evaluations. To achieve the 16 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 13 dBm.

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**Table 11-31
NII SISO Head SAR**

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna State	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)	
5290	58	802.11ac	OFDM	80	13.0	12.70	0.15	Right	Cheek	1	0287M	29.3	94.6	0.509	-	1.072	1.057	-	
5290	58	802.11ac	OFDM	80	13.0	12.70	0.16	Right	Tilt	1	0287M	29.3	94.6	0.082	-	1.072	1.057	-	
5290	58	802.11ac	OFDM	80	13.0	12.70	0.00	Left	Cheek	1	0287M	29.3	94.6	0.521	0.249	1.072	1.057	0.282	
5290	58	802.11ac	OFDM	80	13.0	12.70	0.00	Left	Tilt	1	0287M	29.3	94.6	0.046	-	1.072	1.057	-	
5290	58	802.11ac	OFDM	80	13.0	12.21	0.16	Right	Cheek	2	0287M	29.3	94.6	0.408	0.216	1.199	1.057	0.274	
5290	58	802.11ac	OFDM	80	13.0	12.21	0.13	Right	Tilt	2	0287M	29.3	94.6	0.387	-	1.199	1.057	-	
5290	58	802.11ac	OFDM	80	13.0	12.21	0.15	Left	Cheek	2	0287M	29.3	94.6	0.189	-	1.199	1.057	-	
5290	58	802.11ac	OFDM	80	13.0	12.21	0.00	Left	Tilt	2	0287M	29.3	94.6	0.254	-	1.199	1.057	-	
5530	106	802.11ac	OFDM	80	13.0	12.53	0.19	Right	Cheek	1	0287M	29.3	94.6	0.715	0.433	1.114	1.057	0.510	
5530	106	802.11ac	OFDM	80	13.0	12.53	0.18	Right	Tilt	1	0287M	29.3	94.6	0.146	-	1.114	1.057	-	
5530	106	802.11ac	OFDM	80	13.0	12.53	0.00	Left	Cheek	1	0287M	29.3	94.6	0.609	0.265	1.114	1.057	0.312	
5530	106	802.11ac	OFDM	80	13.0	12.53	0.07	Left	Tilt	1	0287M	29.3	94.6	0.073	-	1.114	1.057	-	
5610	122	802.11ac	OFDM	80	13.0	12.73	0.11	Right	Cheek	2	0287M	29.3	94.6	0.144	-	1.064	1.057	-	
5610	122	802.11ac	OFDM	80	13.0	12.73	0.16	Right	Tilt	2	0287M	29.3	94.6	0.150	0.065	1.064	1.057	0.073	
5610	122	802.11ac	OFDM	80	13.0	12.73	0.14	Left	Cheek	2	0287M	29.3	94.6	0.057	-	1.064	1.057	-	
5610	122	802.11ac	OFDM	80	13.0	12.73	0.00	Left	Tilt	2	0287M	29.3	94.6	0.081	-	1.064	1.057	-	
5775	155	802.11ac	OFDM	80	13.0	12.95	-0.21	Right	Cheek	1	0287M	29.3	94.6	0.814	-	1.012	1.057	-	
5775	155	802.11ac	OFDM	80	13.0	12.95	0.11	Right	Tilt	1	0287M	29.3	94.6	0.159	-	1.012	1.057	-	
5775	155	802.11ac	OFDM	80	13.0	12.95	0.00	Left	Cheek	1	0287M	29.3	94.6	0.817	0.270	1.012	1.057	0.289	
5775	155	802.11ac	OFDM	80	13.0	12.95	0.10	Left	Tilt	1	0287M	29.3	94.6	0.091	-	1.012	1.057	-	
5775	155	802.11ac	OFDM	80	13.0	12.67	0.00	Right	Cheek	2	0287M	29.3	94.6	0.238	-	1.079	1.057	-	
5775	155	802.11ac	OFDM	80	13.0	12.67	0.00	Right	Tilt	2	0287M	29.3	94.6	0.275	0.096	1.079	1.057	0.109	
5775	155	802.11ac	OFDM	80	13.0	12.67	0.11	Left	Cheek	2	0287M	29.3	94.6	0.074	-	1.079	1.057	-	
5775	155	802.11ac	OFDM	80	13.0	12.67	0.00	Left	Tilt	2	0287M	29.3	94.6	0.082	-	1.079	1.057	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-32
NII SISO Head SAR for conditions with 5G NR

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)	
5290	58	802.11ac	OFDM	80	11.0	10.78	0.00	Right	Cheek	1	0287M	29.3	94.6	0.332	0.207	1.052	1.057	0.230	
5290	58	802.11ac	OFDM	80	11.0	10.78	0.00	Right	Tilt	1	0287M	29.3	94.6	0.053	-	1.052	1.057	-	
5290	58	802.11ac	OFDM	80	11.0	10.78	0.00	Left	Cheek	1	0287M	29.3	94.6	0.277	-	1.052	1.057	-	
5290	58	802.11ac	OFDM	80	11.0	10.78	0.01	Left	Tilt	1	0287M	29.3	94.6	0.030	-	1.052	1.057	-	
5290	58	802.11ac	OFDM	80	11.0	10.77	0.10	Right	Cheek	2	0287M	29.3	94.6	0.182	0.080	1.054	1.057	0.089	
5290	58	802.11ac	OFDM	80	11.0	10.77	0.06	Right	Tilt	2	0287M	29.3	94.6	0.161	-	1.054	1.057	-	
5290	58	802.11ac	OFDM	80	11.0	10.77	0.19	Left	Cheek	2	0287M	29.3	94.6	0.130	-	1.054	1.057	-	
5290	58	802.11ac	OFDM	80	11.0	10.77	0.14	Left	Tilt	2	0287M	29.3	94.6	0.148	-	1.054	1.057	-	
5530	106	802.11ac	OFDM	80	11.0	10.84	0.00	Right	Cheek	1	0287M	29.3	94.6	0.565	0.247	1.038	1.057	0.271	
5530	106	802.11ac	OFDM	80	11.0	10.84	0.10	Right	Tilt	1	0287M	29.3	94.6	0.107	-	1.038	1.057	-	
5530	106	802.11ac	OFDM	80	11.0	10.84	0.19	Left	Cheek	1	0287M	29.3	94.6	0.291	-	1.038	1.057	-	
5530	106	802.11ac	OFDM	80	11.0	10.84	0.19	Left	Tilt	1	0287M	29.3	94.6	0.050	-	1.038	1.057	-	
5530	106	802.11ac	OFDM	80	11.0	10.65	0.06	Right	Cheek	2	0287M	29.3	94.6	0.119	-	1.084	1.057	-	
5530	106	802.11ac	OFDM	80	11.0	10.65	0.00	Right	Tilt	2	0287M	29.3	94.6	0.144	0.053	1.084	1.057	0.061	
5530	106	802.11ac	OFDM	80	11.0	10.65	0.00	Left	Cheek	2	0287M	29.3	94.6	0.052	-	1.084	1.057	-	
5530	106	802.11ac	OFDM	80	11.0	10.65	0.00	Left	Tilt	2	0287M	29.3	94.6	0.072	-	1.084	1.057	-	
5775	155	802.11ac	OFDM	80	11.0	10.43	0.10	Right	Cheek	1	0287M	29.3	94.6	0.497	0.179	1.140	1.057	0.216	
5775	155	802.11ac	OFDM	80	11.0	10.43	0.10	Right	Tilt	1	0287M	29.3	94.6	0.052	-	1.140	1.057	-	
5775	155	802.11ac	OFDM	80	11.0	10.43	0.00	Left	Cheek	1	0287M	29.3	94.6	0.404	-	1.140	1.057	-	
5775	155	802.11ac	OFDM	80	11.0	10.43	0.12	Left	Tilt	1	0287M	29.3	94.6	0.044	-	1.140	1.057	-	
5775	155	802.11ac	OFDM	80	11.0	10.35	0.00	Right	Cheek	2	0287M	29.3	94.6	0.197	0.087	1.161	1.057	0.107	
5775	155	802.11ac	OFDM	80	11.0	10.35	0.07	Right	Tilt	2	0287M	29.3	94.6	0.182	-	1.161	1.057	-	
5775	155	802.11ac	OFDM	80	11.0	10.35	0.19	Left	Cheek	2	0287M	29.3	94.6	0.059	-	1.161	1.057	-	
5775	155	802.11ac	OFDM	80	11.0	10.35	0.20	Left	Tilt	2	0287M	29.3	94.6	0.060	-	1.161	1.057	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Head										
Spatial Peak									1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population									averaged over 1 gram										

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Table 11-33
NII MIMO Head 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]	Side	Test Position	Antenna State	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan		SAR (lg) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (lg) (W/kg)	Plot #
MHz	Ch.															W/kg	(W/kg)					
5290	58	802.11ac	OFDM	80	13.0	12.70	13.0	12.21	0.16	Right	Cheek	MIMO	0287M	58.5	91.3	0.896	0.490	1.199	1.095	0.643	A30	
5290	58	802.11ac	OFDM	80	13.0	12.70	13.0	12.21	0.14	Right	Tilt	MIMO	0287M	58.5	91.3	0.445	-	1.199	1.095	-		
5290	58	802.11ac	OFDM	80	13.0	12.70	13.0	12.21	0.15	Left	Cheek	MIMO	0287M	58.5	91.3	1.207	0.454	1.199	1.095	0.596		
5290	58	802.11ac	OFDM	80	13.0	12.70	13.0	12.21	0.17	Left	Tilt	MIMO	0287M	58.5	91.3	0.299	-	1.199	1.095	-		
5530	106	802.11ac	OFDM	80	13.0	12.53	13.0	12.71	0.18	Right	Cheek	MIMO	0287M	58.5	91.3	0.967	0.412	1.114	1.095	0.503		
5530	106	802.11ac	OFDM	80	13.0	12.53	13.0	12.71	0.11	Right	Tilt	MIMO	0287M	58.5	91.3	0.388	-	1.114	1.095	-		
5530	106	802.11ac	OFDM	80	13.0	12.53	13.0	12.71	0.17	Left	Cheek	MIMO	0287M	58.5	91.3	0.644	0.237	1.114	1.095	0.289		
5530	106	802.11ac	OFDM	80	13.0	12.53	13.0	12.71	-0.14	Left	Tilt	MIMO	0287M	58.5	91.3	0.207	-	1.114	1.095	-		
5775	155	802.11ac	OFDM	80	13.0	12.95	13.0	12.67	0.19	Right	Cheek	MIMO	0287M	58.5	91.3	0.924	0.378	1.079	1.095	0.447		
5775	155	802.11ac	OFDM	80	13.0	12.95	13.0	12.67	0.05	Right	Tilt	MIMO	0287M	58.5	91.3	0.470	-	1.079	1.095	-		
5775	155	802.11ac	OFDM	80	13.0	12.95	13.0	12.67	0.19	Left	Cheek	MIMO	0287M	58.5	91.3	0.808	0.323	1.079	1.095	0.382		
5775	155	802.11ac	OFDM	80	13.0	12.95	13.0	12.67	0.19	Left	Tilt	MIMO	0287M	58.5	91.3	0.185	-	1.079	1.095	-		
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: To achieve the 16 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 13 dBm.

Table 11-34
NII MIMO Head SAR for conditions with 2.4 GHz WLAN and/or 5G NR

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]	Side	Test Position	Antenna State	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) (W/kg)	Plot #
MHz	Ch.															W/kg	(W/kg)					
5290	58	802.11ac	OFDM	80	11.0	10.78	11.0	10.77	0.15	Right	Cheek	MIMO	0287M	58.5	91.3	0.437	-	1.054	1.095	-	-	
5290	58	802.11ac	OFDM	80	11.0	10.78	11.0	10.77	0.16	Right	Tilt	MIMO	0287M	58.5	91.3	0.207	-	1.054	1.095	-	-	
5290	58	802.11ac	OFDM	80	11.0	10.78	11.0	10.77	0.15	Left	Cheek	MIMO	0287M	58.5	91.3	0.632	0.232	1.054	1.095	0.268	-	
5290	58	802.11ac	OFDM	80	11.0	10.78	11.0	10.77	-0.11	Left	Tilt	MIMO	0287M	58.5	91.3	0.107	-	1.054	1.095	-	-	
5530	106	802.11ac	OFDM	80	11.0	10.84	11.0	10.65	0.11	Right	Cheek	MIMO	0287M	58.5	91.3	0.548	-	1.084	1.095	-	-	
5530	106	802.11ac	OFDM	80	11.0	10.84	11.0	10.65	-0.10	Right	Tilt	MIMO	0287M	58.5	91.3	0.178	-	1.084	1.095	-	-	
5530	106	802.11ac	OFDM	80	11.0	10.84	11.0	10.65	-0.19	Left	Cheek	MIMO	0287M	58.5	91.3	0.682	0.251	1.084	1.095	0.298	-	
5530	106	802.11ac	OFDM	80	11.0	10.84	11.0	10.65	0.19	Left	Tilt	MIMO	0287M	58.5	91.3	0.098	-	1.084	1.095	-	-	
5775	155	802.11ac	OFDM	80	11.0	10.43	11.0	10.35	0.00	Right	Cheek	MIMO	0287M	58.5	91.3	0.454	-	1.161	1.095	-	-	
5775	155	802.11ac	OFDM	80	11.0	10.43	11.0	10.35	0.00	Right	Tilt	MIMO	0287M	58.5	91.3	0.184	-	1.161	1.095	-	-	
5775	155	802.11ac	OFDM	80	11.0	10.43	11.0	10.35	0.00	Left	Cheek	MIMO	0287M	58.5	91.3	0.540	0.173	1.161	1.095	0.220	-	
5775	155	802.11ac	OFDM	80	11.0	10.43	11.0	10.35	0.00	Left	Tilt	MIMO	0287M	58.5	91.3	0.066	-	1.161	1.095	-	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Note: NII MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 2.4 GHz WIFI was not transmitting during the above evaluations. To achieve the 14 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 11 dBm.

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**Table 11-35
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)	
2402.00	0	2.4 GHz Bluetooth	FHSS	18.0	17.52	-0.18	Right	Cheek	0287M	1	77.3	0.258	1.117	1.294	0.373	
2402.00	0	2.4 GHz Bluetooth	FHSS	18.0	17.52	-0.12	Right	Tilt	0287M	1	77.3	0.045	1.117	1.294	0.065	
2402.00	0	2.4 GHz Bluetooth	FHSS	18.0	17.52	0.06	Left	Cheek	0287M	1	77.3	0.367	1.117	1.294	0.530	A31
2402.00	0	2.4 GHz Bluetooth	FHSS	18.0	17.52	0.11	Left	Tilt	0287M	1	77.3	0.032	1.117	1.294	0.046	
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 11-36
GSM/UMTS/CDMA Body-Worn SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna State	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
820.10	564	CDMA BC10 (§90S)	TDSO / SO32	25.8	24.77	0.03	15 mm	3	0511M	1:1	back	0.292	1.268	0.370	A32
836.52	384	CDMA BC0 (§22H)	TDSO / SO32	25.5	24.57	0.02	15 mm	39	0511M	1:1	back	0.257	1.239	0.318	A34
1851.25	25	PCS CDMA	TDSO / SO32	24.5	23.47	-0.02	15 mm	2	0551M	1:1	back	0.618	1.268	0.784	A36
1880.00	600	PCS CDMA	TDSO / SO32	24.5	23.13	0.01	15 mm	2	0551M	1:1	back	0.514	1.371	0.705	
1908.75	1175	PCS CDMA	TDSO / SO32	24.5	23.45	0.00	15 mm	2	0551M	1:1	back	0.476	1.274	0.606	
836.60	190	GSM 850	GSM	33.5	32.36	-0.01	15 mm	N/A	0511M	1:8.3	back	0.271	1.300	0.352	A38
1880.00	661	GSM 1900	GSM	30.5	29.15	0.04	15 mm	N/A	0551M	1:8.3	back	0.246	1.365	0.336	A40
836.60	4183	UMTS 850	RMC	25.8	24.64	-0.08	15 mm	39	0511M	1:1	back	0.326	1.306	0.426	A42
1712.40	1312	UMTS 1750	RMC	24.5	23.43	-0.03	15 mm	26	0526M	1:1	back	0.651	1.279	0.833	
1732.40	1412	UMTS 1750	RMC	24.5	23.53	0.03	15 mm	26	0526M	1:1	back	0.744	1.250	0.930	A44
1752.60	1513	UMTS 1750	RMC	24.5	23.34	0.01	15 mm	26	0526M	1:1	back	0.712	1.306	0.930	
1852.40	9262	UMTS 1900	RMC	24.5	23.30	-0.01	15 mm	4	0526M	1:1	back	0.594	1.318	0.783	A46
1880.00	9400	UMTS 1900	RMC	24.5	22.92	0.00	15 mm	4	0526M	1:1	back	0.511	1.439	0.735	
1907.60	9538	UMTS 1900	RMC	24.5	23.19	0.02	15 mm	4	0526M	1:1	back	0.553	1.352	0.748	
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 11-37
LTE Body-Worn SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	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	25.8	25.02	0.01	0	0	0554M	QPSK	1	0	15 mm	back	1:1	0.181	1.197	0.217	A48
680.50	133297	Mid	LTE Band 71	20	24.8	24.23	-0.01	1	0	0554M	QPSK	50	25	15 mm	back	1:1	0.149	1.140	0.170	
707.50	23095	Mid	LTE Band 12	10	25.8	25.16	0.03	0	0	0554M	QPSK	1	25	15 mm	back	1:1	0.186	1.159	0.216	A50
707.50	23095	Mid	LTE Band 12	10	24.8	24.31	-0.01	1	0	0554M	QPSK	25	12	15 mm	back	1:1	0.154	1.119	0.172	
782.00	23230	Mid	LTE Band 13	10	25.8	25.16	0.01	0	1	0554M	QPSK	1	49	15 mm	back	1:1	0.239	1.159	0.277	A52
782.00	23230	Mid	LTE Band 13	10	24.8	24.22	-0.04	1	1	0554M	QPSK	25	12	15 mm	back	1:1	0.173	1.143	0.198	
793.00	23330	Mid	LTE Band 14	10	25.8	25.17	-0.02	0	1	0554M	QPSK	1	49	15 mm	back	1:1	0.258	1.157	0.299	A54
793.00	23330	Mid	LTE Band 14	10	24.8	24.15	0.03	1	1	0554M	QPSK	25	12	15 mm	back	1:1	0.202	1.161	0.235	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.98	0.00	0	39	0509M	QPSK	1	36	15 mm	back	1:1	0.285	1.208	0.344	A58
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.96	-0.05	1	39	0509M	QPSK	36	18	15 mm	back	1:1	0.233	1.213	0.283	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.5	24.03	-0.04	0	33	0520M	QPSK	1	0	15 mm	back	1:1	0.607	1.114	0.676	A62
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.5	23.88	-0.05	0	33	0520M	QPSK	1	0	15 mm	back	1:1	0.558	1.153	0.643	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.85	-0.01	0	33	0520M	QPSK	1	99	15 mm	back	1:1	0.466	1.161	0.541	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.5	23.09	0.00	1	33	0520M	QPSK	50	0	15 mm	back	1:1	0.487	1.099	0.535	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.24	0.17	0	N/A	0560M	QPSK	1	25	15 mm	back	1:1	0.443	1.191	0.528	A64
2310.00	27710	Mid	LTE Band 30	10	23.0	22.30	0.10	1	N/A	0560M	QPSK	25	0	15 mm	back	1:1	0.300	1.175	0.353	
2535.00	21100	Mid	LTE Band 7	20	24.5	23.73	0.09	0	N/A	0579M	QPSK	1	99	15 mm	back	1:1	0.358	1.194	0.427	A66
2535.00	21100	Mid	LTE Band 7	20	23.5	22.91	0.08	1	N/A	0579M	QPSK	50	25	15 mm	back	1:1	0.291	1.146	0.333	
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 11-38
LTE Band 5 (Cell) Body-Worn SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	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	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.89	-0.04	0	42	0427M	QPSK	1	0	15 mm	back	1:1	0.265	1.233	0.327	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.91	-0.03	0	42	0427M	QPSK	1	25	15 mm	back	1:1	0.276	1.227	0.339	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.97	0.03	1	42	0427M	QPSK	25	25	15 mm	back	1:1	0.225	1.211	0.272	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	25.31	0.00	0	42	0427M	QPSK	1	0	15 mm	back	1:1	0.280	1.119	0.313	A56
	SCC	829.30	20453	Mid		5									24							
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 11-39
LTE Band 66 (AWS) Body-Worn SAR

MEASUREMENT RESULTS																							
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Reported SAR (1g)	Plot #		
		MHz	Ch.	Low															Mid	High		W/kg	W/kg
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.76	0.03	0	26	0421M	QPSK	1	50	15 mm	back	1:1	0.678	1.186	0.804		
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	10	24.5	23.48	-0.07	0	26	0421M	QPSK	1	0	15 mm	back	1:1	0.674	1.265	0.853		
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.56	0.00	0	26	0421M	QPSK	1	0	15 mm	back	1:1	0.670	1.242	0.832		
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.60	0.02	0	26	0421M	QPSK	1	50	15 mm	back	1:1	0.746	1.230	0.918		
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.64	-0.04	0	26	0421M	QPSK	1	0	15 mm	back	1:1	0.697	1.219	0.850		
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	22.83	0.01	1	26	0421M	QPSK	50	25	15 mm	back	1:1	0.556	1.167	0.649		
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	22.75	0.00	1	26	0421M	QPSK	100	0	15 mm	back	1:1	0.554	1.189	0.659		
2 CC Uplink CA_66C	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	24.50	-0.13	0	26	0421M	QPSK	1	0	15 mm	back	1:1	0.800	1.000	0.800	A60	
	SCC	1725.20	132124	Mid		20									99								
2 CC Uplink CA_66B	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	10	24.5	24.15	0.01	0	26	0421M	QPSK	1	0	15 mm	back	1:1	0.760	1.084	0.824		
	SCC	1735.10	132233	Mid		10									49								
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 11-40
LTE Band 41 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	2593.00	40620	Mid	LTE Band 41	20	25.0	24.24	-0.15	0	0414M	QPSK	1	50	15 mm	back	1:1.58	0.242	1.191	0.288	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.10	0.08	0	0414M	QPSK	1	99	15 mm	back	1:1.58	0.232	1.230	0.285	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.34	-0.02	1	0414M	QPSK	50	25	15 mm	back	1:1.58	0.192	1.164	0.223	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	28.0	27.40	0.08	0	0414M	QPSK	1	50	15 mm	back	1:2.31	0.323	1.148	0.371	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	28.0	27.03	0.01	0	0414M	QPSK	1	99	15 mm	back	1:2.31	0.315	1.250	0.394	
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	LTE Band 41	20	25.0	24.99	-0.05	0	0414M	QPSK	1	99	15 mm	back	1:1.58	0.293	1.002	0.294	
	SCC	2612.80	40818	Mid								QPSK	1	0							
2 CC Uplink - Power Class 2	PCC	2593.00	40620	Mid	LTE Band 41	20	28.0	27.88	-0.08	0	0414M	QPSK	1	99	15 mm	back	1:2.31	0.395	1.028	0.406	A68
	SCC	2612.80	40818	Mid								QPSK	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 11-41
LTE Band 48 Body-Worn SAR

MEASUREMENT RESULTS																					
1 CC Uplink 2 CC Uplink	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	N/A	3560.00	55340	Low	LTE Band 48	20	23.0	22.16	-0.09	0	0764M	QPSK	1	50	15 mm	back	1:1.58	0.140	1.213	0.170	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	23.0	21.87	-0.19	0	0764M	QPSK	1	99	15 mm	back	1:1.58	0.132	1.297	0.171	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	23.0	22.26	-0.08	0	0764M	QPSK	50	25	15 mm	back	1:1.58	0.136	1.186	0.161	
2 CC Uplink	PCC	3560.00	55340	Low	LTE Band 48	20	23.0	21.92	-0.18	0	0764M	QPSK	1	99	15 mm	back	1:1.58	0.140	1.282	0.179	A70
	SCC	3579.80	55538	Low									1	0							
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 11-42
NR Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Antenna Config	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																			(W/kg)		(W/kg)
680.50	136100	Mid	NR Band n71	20	Ant A	25.8	25.04	0.06	0	0	0413M	DFT-S-OFDM	QPSK	1	53	15 mm	back	1:1	0.073	1.191	0.087	A72
680.50	136100	Mid	NR Band n71	20	Ant A	25.8	25.06	0.04	0	0	0413M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.072	1.186	0.085	
680.50	136100	Mid	NR Band n71	20	Ant A	24.3	23.55	0.04	1.5	0	0413M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.043	1.189	0.051	
707.50	141500	Mid	NR Band n12	15	Ant A	25.8	24.72	0.18	0	0	0406M	DFT-S-OFDM	QPSK	1	77	15 mm	back	1:1	0.227	1.282	0.291	
707.50	141500	Mid	NR Band n12	15	Ant A	25.8	24.62	-0.03	0	0	0406M	DFT-S-OFDM	QPSK	36	22	15 mm	back	1:1	0.254	1.312	0.333	A74
707.50	141500	Mid	NR Band n12	15	Ant A	24.3	22.88	0.04	1.5	0	0406M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.155	1.387	0.215	
836.50	167300	Mid	NR Band n5 (Cell)	20	Ant A	25.8	25.01	0.03	0	42	0407M	DFT-S-OFDM	QPSK	1	104	15 mm	back	1:1	0.267	1.199	0.320	A76
836.50	167300	Mid	NR Band n5 (Cell)	20	Ant A	25.8	25.00	0.04	0	42	0407M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.264	1.202	0.317	
836.50	167300	Mid	NR Band n5 (Cell)	20	Ant A	24.3	23.43	0.17	1.5	42	0407M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.179	1.222	0.219	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant A	25.0	24.62	0.04	0	26	0417M	DFT-S-OFDM	QPSK	1	108	15 mm	back	1:1	0.853	1.091	0.931	A78
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant A	25.0	24.49	0.02	0	26	0417M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.846	1.125	0.952	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant A	24.0	23.55	0.02	1	26	0417M	DFT-S-OFDM	QPSK	216	0	15 mm	back	1:1	0.669	1.109	0.742	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant A	23.5	23.50	0.01	1.5	26	0417M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.605	1.000	0.605	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant I	24.5	24.16	0.20	0	N/A	0247M	DFT-S-OFDM	QPSK	1	108	15 mm	back	1:1	0.398	1.081	0.430	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant I	24.5	23.98	0.20	0	N/A	0247M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.378	1.127	0.426	
1745.00	349000	Mid	NR Band n66 (AWS)	40	Ant I	23.0	22.46	0.15	1.5	N/A	0247M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.202	1.132	0.229	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant A	25.3	24.86	-0.07	0	33	0408M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.657	1.107	0.727	A80
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant A	25.3	24.68	-0.05	0	33	0408M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.579	1.153	0.668	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant A	23.8	22.82	0.06	1.5	33	0408M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.386	1.253	0.484	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant I	24.5	24.32	0.16	0	N/A	0303M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.233	1.042	0.243	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant I	24.5	24.16	0.19	0	N/A	0303M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.199	1.081	0.215	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant I	23.0	23.00	0.04	1.5	N/A	0303M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.175	1.000	0.175	
2310.00	462000	Mid	NR Band n30	10	Ant A	24.0	23.70	0.04	0	N/A	0419M	DFT-S-OFDM	QPSK	1	26	15 mm	back	1:1	0.533	1.072	0.571	
2310.00	462000	Mid	NR Band n30	10	Ant A	24.0	23.52	0.10	0	N/A	0419M	DFT-S-OFDM	QPSK	25	14	15 mm	back	1:1	0.541	1.117	0.604	A82
2310.00	462000	Mid	NR Band n30	10	Ant A	22.5	22.01	0.02	1.5	N/A	0419M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.382	1.119	0.427	
2592.99	518598	Mid	NR Band n41	100	Ant B	19.0	18.48	0.21	0	N/A	0311M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.105	1.127	0.118	A84
2592.99	518598	Mid	NR Band n41	100	Ant B	19.0	18.28	0.11	0	N/A	0311M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.104	1.180	0.123	
2592.99	518598	Mid	NR Band n41	100	Ant B	17.5	16.66	0.14	1.5	N/A	0311M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.070	1.213	0.085	
2592.99	518598	Mid	NR Band n41	100	Ant I	21.0	20.48	0.20	0	N/A	0289M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.062	1.127	0.070	
2592.99	518598	Mid	NR Band n41	100	Ant I	21.0	20.46	0.14	0	N/A	0289M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.066	1.132	0.075	
2592.99	518598	Mid	NR Band n41	100	Ant I	19.5	18.97	0.06	1.5	N/A	0289M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.083	1.130	0.094	
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 11-43
NR Band n77 Body-Worn SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
3750.00	650000	Low	NR Band n77	100	20.0	19.71	0.04	0	0870M	DFT-S-OFDM	QPSK	1	271	15 mm	back	1:1	0.131	1.069	0.140	
3750.00	650000	Low	NR Band n77	100	20.0	19.92	0.02	0	0870M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.134	1.019	0.137	A86
3750.00	650000	Low	NR Band n77	100	18.5	17.96	0.04	1.5	0870M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.095	1.132	0.108	
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 11-44
DTS SISO 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)	
2462	11	802.11b	DSSS	22	21.0	20.39	0.20	15 mm	1	0287M	1	back	98.9	0.152	0.103	1.151	1.011	0.120	
2412	1	802.11b	DSSS	22	19.5	19.49	0.08	15 mm	2	0287M	1	back	98.9	0.189	0.138	1.002	1.011	0.140	A88
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 11-45
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)	
2452	9	802.11n	OFDM	20	18.5	18.50	17.5	17.06	0.12	15 mm	MIMO	0287M	13	back	93.1	0.176	0.120	1.107	1.074	0.143	
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 21.0 dBm maximum allowed MIMO power shown in the documentation, antenna 1 transmits at a maximum allowed power of 18.5 dBm, and antenna 2 transmits at a maximum allowed power of 17.5 dBm.

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Table 11-46
NII SISO 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)			
5300	60	802.11a	OFDM	20	18.5	18.44	-0.07	15 mm	1	0412M	6	back	98.8	0.275	0.111	1.014	1.012	0.114	A90
5260	52	802.11a	OFDM	20	17.5	17.49	-0.15	15 mm	2	0412M	6	back	98.8	1.181	0.520	1.002	1.012	0.527	
5290	58	802.11ac	OFDM	80	11.0	10.77	0.15	15 mm	2	0412M	29.3	back	94.6	0.204	0.099	1.054	1.057	0.110	
5620	124	802.11a	OFDM	20	18.5	18.46	-0.01	15 mm	1	0412M	6	back	98.8	0.419	0.190	1.009	1.012	0.194	
5720	144	802.11a	OFDM	20	17.5	17.37	0.03	15 mm	2	0412M	6	back	98.8	0.923	0.439	1.030	1.012	0.458	
5530	106	802.11ac	OFDM	80	11.0	10.65	-0.04	15 mm	2	0412M	29.3	back	94.6	0.388	0.176	1.084	1.057	0.202	
5785	157	802.11a	OFDM	20	18.5	18.32	-0.08	15 mm	1	0412M	6	back	98.8	0.418	0.177	1.042	1.012	0.187	
5785	157	802.11a	OFDM	20	17.5	17.48	0.03	15 mm	2	0412M	6	back	98.8	1.094	0.460	1.005	1.012	0.468	
5775	155	802.11ac	OFDM	80	11.0	10.35	0.02	15 mm	2	0412M	29.3	back	94.6	0.354	0.149	1.161	1.057	0.183	
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
NII MIMO Body-Worn SAR for Conditions with 2.4 GHz and 5 GHz WLAN 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) (W/kg)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5290	58	802.11ac	OFDM	80	13.0	12.70	13.0	12.21	-0.16	15 mm	MIMO	0412M	58.5	back	91.3	0.584	0.262	1.199	1.095	0.344	
5530	106	802.11ac	OFDM	80	13.0	12.53	13.0	12.71	-0.01	15 mm	MIMO	0412M	58.5	back	91.3	0.556	0.244	1.114	1.095	0.298	
5775	155	802.11ac	OFDM	80	13.0	12.95	13.0	12.67	0.17	15 mm	MIMO	0412M	58.5	back	91.3	0.766	0.326	1.079	1.095	0.385	
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: NII MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 2.4 GHz WIFI was not transmitting during the above evaluations. To achieve the 16 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 13 dBm.

Table 11-48
NII MIMO Body-Worn SAR for Conditions with 5G NR(FR2)

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)	
5290	58	802.11ac	OFDM	80	11.0	10.78	11.0	10.77	-0.02	15 mm	MIMO	0412M	58.5	back	91.3	0.237	0.092	1.054	1.095	0.106	
5530	106	802.11ac	OFDM	80	11.0	10.84	11.0	10.65	0.15	15 mm	MIMO	0412M	58.5	back	91.3	0.380	0.171	1.084	1.095	0.203	
5775	155	802.11ac	OFDM	80	11.0	10.43	11.0	10.35	0.00	15 mm	MIMO	0412M	58.5	back	91.3	0.403	0.166	1.161	1.095	0.211	
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 14 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 11.0 dBm.

Table 11-49
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)	Plot #
MHz	Ch.											(W/kg)			(W/kg)	
2402	0	2.4 GHz Bluetooth	FHSS	18.0	17.52	0.13	15 mm	0287M	1	back	77.3	0.032	1.117	1.294	0.046	A92
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram							

FCC ID: A3LSMG996U	 Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
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11.3 Standalone Hotspot SAR Data

Table 11-50
GPRS/UMTS/CDMA Hotspot SAR Data

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Spacing	Antenna State	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)	EVDO Rev. 0	25.8	24.80	-0.05	10 mm	3	0511M	N/A	1:1	back	0.577	1.259	0.726	A33	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.8	24.80	0.04	10 mm	3	0511M	N/A	1:1	front	0.382	1.259	0.481		
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.8	24.80	0.01	10 mm	3	0511M	N/A	1:1	bottom	0.322	1.259	0.405		
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.8	24.80	-0.06	10 mm	3	0511M	N/A	1:1	right	0.222	1.259	0.279		
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	25.8	24.80	0.17	10 mm	3	0511M	N/A	1:1	left	0.074	1.259	0.093		
824.70	1013	CDMA BC0 (S22H)	EVDO Rev. 0	25.5	24.46	-0.13	10 mm	39	0511M	N/A	1:1	back	0.555	1.271	0.705		
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	25.5	24.55	-0.10	10 mm	39	0511M	N/A	1:1	back	0.619	1.245	0.771		
848.31	777	CDMA BC0 (S22H)	EVDO Rev. 0	25.5	24.53	-0.06	10 mm	39	0511M	N/A	1:1	back	0.657	1.250	0.821	A34	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	25.5	24.55	0.05	10 mm	39	0511M	N/A	1:1	front	0.301	1.245	0.375		
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	25.5	24.55	0.01	10 mm	39	0511M	N/A	1:1	bottom	0.331	1.245	0.412		
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	25.5	24.55	-0.02	10 mm	39	0511M	N/A	1:1	right	0.214	1.245	0.266		
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	25.5	24.55	0.18	10 mm	39	0511M	N/A	1:1	left	0.048	1.245	0.060		
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.07	-0.03	10 mm	2	0551M	N/A	1:1	back	0.378	1.239	0.468		
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.07	-0.02	10 mm	2	0551M	N/A	1:1	front	0.330	1.239	0.409		
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.45	-0.01	10 mm	2	0551M	N/A	1:1	bottom	0.734	1.135	0.833		
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.07	-0.03	10 mm	2	0551M	N/A	1:1	bottom	0.711	1.239	0.881		
1908.75	1175	PCS CDMA	EVDO Rev. 0	19.0	18.39	0.01	10 mm	2	0551M	N/A	1:1	bottom	0.790	1.151	0.909	A37	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.07	-0.14	10 mm	2	0551M	N/A	1:1	right	0.055	1.239	0.068		
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.07	0.04	10 mm	2	0551M	N/A	1:1	left	0.055	1.239	0.068		
824.20	128	GSM 850	GPRS	30.5	29.32	-0.16	10 mm	N/A	0511M	3	1:2.76	back	0.476	1.312	0.625		
836.60	190	GSM 850	GPRS	30.5	29.30	-0.15	10 mm	N/A	0511M	3	1:2.76	back	0.602	1.318	0.793		
848.80	251	GSM 850	GPRS	30.5	29.32	-0.13	10 mm	N/A	0511M	3	1:2.76	back	0.644	1.312	0.845	A39	
836.60	190	GSM 850	GPRS	30.5	29.30	-0.11	10 mm	N/A	0511M	3	1:2.76	front	0.396	1.318	0.522		
836.60	190	GSM 850	GPRS	30.5	29.30	0.07	10 mm	N/A	0511M	3	1:2.76	bottom	0.308	1.318	0.406		
836.60	190	GSM 850	GPRS	30.5	29.30	0.13	10 mm	N/A	0511M	3	1:2.76	right	0.202	1.318	0.266		
836.60	190	GSM 850	GPRS	30.5	29.30	0.08	10 mm	N/A	0511M	3	1:2.76	left	0.056	1.318	0.074		
1880.00	661	GSM 1900	GPRS	22.3	21.16	-0.03	10 mm	N/A	0551M	4	1:2.076	back	0.272	1.300	0.354		
1880.00	661	GSM 1900	GPRS	22.3	21.16	0.00	10 mm	N/A	0551M	4	1:2.076	front	0.237	1.300	0.308		
1850.20	512	GSM 1900	GPRS	22.3	21.19	0.01	10 mm	N/A	0551M	4	1:2.076	bottom	0.783	1.291	1.011		
1880.00	661	GSM 1900	GPRS	22.3	21.16	-0.08	10 mm	N/A	0551M	4	1:2.076	bottom	0.628	1.300	0.816		
1909.80	810	GSM 1900	GPRS	22.3	21.27	-0.02	10 mm	N/A	0551M	4	1:2.076	bottom	0.803	1.268	1.018	A41	
1880.00	661	GSM 1900	GPRS	22.3	21.16	0.14	10 mm	N/A	0551M	4	1:2.076	right	0.042	1.300	0.055		
1880.00	661	GSM 1900	GPRS	22.3	21.16	0.01	10 mm	N/A	0551M	4	1:2.076	left	0.041	1.300	0.053		
1909.80	810	GSM 1900	GPRS	22.3	21.27	-0.04	10 mm	N/A	0551M	4	1:2.076	bottom	0.780	1.268	0.989		
826.40	4132	UMTS 850	RMC	25.8	24.60	-0.17	10 mm	39	0511M	N/A	1:1	back	0.548	1.318	0.722		
836.60	4183	UMTS 850	RMC	25.8	24.64	-0.21	10 mm	39	0511M	N/A	1:1	back	0.632	1.306	0.825		
846.60	4233	UMTS 850	RMC	25.8	24.97	-0.13	10 mm	39	0511M	N/A	1:1	back	0.694	1.211	0.840	A43	
836.60	4183	UMTS 850	RMC	25.8	24.64	-0.07	10 mm	39	0511M	N/A	1:1	front	0.380	1.306	0.496		
836.60	4183	UMTS 850	RMC	25.8	24.64	0.00	10 mm	39	0511M	N/A	1:1	bottom	0.316	1.306	0.413		
836.60	4183	UMTS 850	RMC	25.8	24.64	-0.01	10 mm	39	0511M	N/A	1:1	right	0.230	1.306	0.300		
836.60	4183	UMTS 850	RMC	25.8	24.64	0.05	10 mm	39	0511M	N/A	1:1	left	0.051	1.306	0.067		
1732.40	1412	UMTS 1750	RMC	19.0	18.15	-0.05	10 mm	26	0526M	N/A	1:1	back	0.398	1.216	0.484		
1732.40	1412	UMTS 1750	RMC	19.0	18.15	-0.04	10 mm	26	0526M	N/A	1:1	front	0.376	1.216	0.457		
1712.40	1312	UMTS 1750	RMC	19.0	18.01	0.00	10 mm	26	0526M	N/A	1:1	bottom	0.543	1.256	0.682		
1732.40	1412	UMTS 1750	RMC	19.0	18.15	-0.01	10 mm	26	0526M	N/A	1:1	bottom	0.632	1.216	0.769	A45	
1752.60	1513	UMTS 1750	RMC	19.0	18.07	-0.01	10 mm	26	0526M	N/A	1:1	bottom	0.613	1.239	0.760		
1732.40	1412	UMTS 1750	RMC	19.0	18.15	0.02	10 mm	26	0526M	N/A	1:1	right	0.063	1.216	0.077		
1732.40	1412	UMTS 1750	RMC	19.0	18.15	0.02	10 mm	26	0526M	N/A	1:1	left	0.083	1.216	0.101		
1880.00	9400	UMTS 1900	RMC	19.0	17.62	0.07	10 mm	4	0551M	N/A	1:1	back	0.298	1.374	0.409		
1880.00	9400	UMTS 1900	RMC	19.0	17.62	0.01	10 mm	4	0551M	N/A	1:1	front	0.260	1.374	0.357		
1852.40	9262	UMTS 1900	RMC	19.0	17.99	-0.04	10 mm	4	0551M	N/A	1:1	bottom	0.701	1.262	0.885		
1880.00	9400	UMTS 1900	RMC	19.0	17.62	-0.01	10 mm	4	0551M	N/A	1:1	bottom	0.684	1.374	0.940		
1907.60	9538	UMTS 1900	RMC	19.0	17.87	0.02	10 mm	4	0551M	N/A	1:1	bottom	0.758	1.297	0.983	A47	
1880.00	9400	UMTS 1900	RMC	19.0	17.62	0.01	10 mm	4	0551M	N/A	1:1	right	0.041	1.374	0.056		
1880.00	9400	UMTS 1900	RMC	19.0	17.62	-0.17	10 mm	4	0551M	N/A	1:1	left	0.045	1.374	0.062		
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: Blue entry represents variability measurement.

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Document S/N: 1M2009140143-01-R2.A3L	Test Dates: 09/16/20 – 12/01/20	DUT Type: Portable Handset		Page 329 of 410

Table 11-51
LTE Band 71 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	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	25.8	25.02	-0.04	0	0	0554M	QPSK	1	0	10 mm	back	1:1	0.295	1.197	0.353	A49
680.50	133297	Mid	LTE Band 71	20	24.8	24.23	-0.01	1	0	0554M	QPSK	50	25	10 mm	back	1:1	0.252	1.140	0.287	
680.50	133297	Mid	LTE Band 71	20	25.8	25.02	0.02	0	0	0554M	QPSK	1	0	10 mm	front	1:1	0.195	1.197	0.233	
680.50	133297	Mid	LTE Band 71	20	24.8	24.23	0.02	1	0	0554M	QPSK	50	25	10 mm	front	1:1	0.163	1.140	0.186	
680.50	133297	Mid	LTE Band 71	20	25.8	25.02	-0.01	0	0	0554M	QPSK	1	0	10 mm	bottom	1:1	0.142	1.197	0.170	
680.50	133297	Mid	LTE Band 71	20	24.8	24.23	-0.01	1	0	0554M	QPSK	50	25	10 mm	bottom	1:1	0.123	1.140	0.140	
680.50	133297	Mid	LTE Band 71	20	25.8	25.02	-0.13	0	0	0554M	QPSK	1	0	10 mm	right	1:1	0.261	1.197	0.312	
680.50	133297	Mid	LTE Band 71	20	24.8	24.23	0.01	1	0	0554M	QPSK	50	25	10 mm	right	1:1	0.204	1.140	0.233	
680.50	133297	Mid	LTE Band 71	20	25.8	25.02	-0.16	0	5	0554M	QPSK	1	0	10 mm	left	1:1	0.127	1.197	0.152	
680.50	133297	Mid	LTE Band 71	20	24.8	24.23	0.02	1	5	0554M	QPSK	50	25	10 mm	left	1:1	0.116	1.140	0.132	
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 11-52
LTE Band 12 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	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)		
707.50	23095	Mid	LTE Band 12	10	25.8	25.16	-0.03	0	0	0554M	QPSK	1	25	10 mm	back	1:1	0.393	1.159	0.455	A51
707.50	23095	Mid	LTE Band 12	10	24.8	24.31	-0.05	1	0	0554M	QPSK	25	12	10 mm	back	1:1	0.281	1.119	0.314	
707.50	23095	Mid	LTE Band 12	10	25.8	25.16	0.01	0	0	0554M	QPSK	1	25	10 mm	front	1:1	0.216	1.159	0.250	
707.50	23095	Mid	LTE Band 12	10	24.8	24.31	0.00	1	0	0554M	QPSK	25	12	10 mm	front	1:1	0.178	1.119	0.199	
707.50	23095	Mid	LTE Band 12	10	25.8	25.16	0.05	0	107	0554M	QPSK	1	25	10 mm	bottom	1:1	0.204	1.159	0.236	
707.50	23095	Mid	LTE Band 12	10	24.8	24.31	-0.01	1	107	0554M	QPSK	25	12	10 mm	bottom	1:1	0.165	1.119	0.185	
707.50	23095	Mid	LTE Band 12	10	25.8	25.16	0.06	0	0	0554M	QPSK	1	25	10 mm	right	1:1	0.206	1.159	0.239	
707.50	23095	Mid	LTE Band 12	10	24.8	24.31	0.05	1	0	0554M	QPSK	25	12	10 mm	right	1:1	0.172	1.119	0.192	
707.50	23095	Mid	LTE Band 12	10	25.8	25.16	-0.14	0	1	0554M	QPSK	1	25	10 mm	left	1:1	0.099	1.159	0.115	
707.50	23095	Mid	LTE Band 12	10	24.8	24.31	-0.01	1	1	0554M	QPSK	25	12	10 mm	left	1:1	0.084	1.119	0.094	
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 11-53
LTE Band 13 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	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	25.8	25.16	-0.02	0	1	0554M	QPSK	1	49	10 mm	back	1:1	0.419	1.159	0.486	A53
782.00	23230	Mid	LTE Band 13	10	24.8	24.22	-0.07	1	1	0554M	QPSK	25	12	10 mm	back	1:1	0.336	1.143	0.384	
782.00	23230	Mid	LTE Band 13	10	25.8	25.16	-0.01	0	1	0554M	QPSK	1	49	10 mm	front	1:1	0.295	1.159	0.342	
782.00	23230	Mid	LTE Band 13	10	24.8	24.22	-0.03	1	1	0554M	QPSK	25	12	10 mm	front	1:1	0.219	1.143	0.250	
782.00	23230	Mid	LTE Band 13	10	25.8	25.16	-0.04	0	1	0554M	QPSK	1	49	10 mm	bottom	1:1	0.269	1.159	0.312	
782.00	23230	Mid	LTE Band 13	10	24.8	24.22	0.00	1	1	0554M	QPSK	25	12	10 mm	bottom	1:1	0.191	1.143	0.218	
782.00	23230	Mid	LTE Band 13	10	25.8	25.16	-0.06	0	1	0554M	QPSK	1	49	10 mm	right	1:1	0.229	1.159	0.265	
782.00	23230	Mid	LTE Band 13	10	24.8	24.22	0.03	1	1	0554M	QPSK	25	12	10 mm	right	1:1	0.150	1.143	0.171	
782.00	23230	Mid	LTE Band 13	10	25.8	25.16	0.15	0	1	0554M	QPSK	1	49	10 mm	left	1:1	0.106	1.159	0.123	
782.00	23230	Mid	LTE Band 13	10	24.8	24.22	-0.10	1	1	0554M	QPSK	25	12	10 mm	left	1:1	0.082	1.143	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												

Table 11-54
LTE Band 14 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	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)		
793.00	23330	Mid	LTE Band 14	10	25.8	25.17	-0.07	0	1	0554M	QPSK	1	49	10 mm	back	1:1	0.481	1.157	0.557	A55
793.00	23330	Mid	LTE Band 14	10	24.8	24.15	-0.04	1	1	0554M	QPSK	25	12	10 mm	back	1:1	0.346	1.161	0.402	
793.00	23330	Mid	LTE Band 14	10	25.8	25.17	0.01	0	1	0554M	QPSK	1	49	10 mm	front	1:1	0.313	1.157	0.362	
793.00	23330	Mid	LTE Band 14	10	24.8	24.15	0.02	1	1	0554M	QPSK	25	12	10 mm	front	1:1	0.239	1.161	0.277	
793.00	23330	Mid	LTE Band 14	10	25.8	25.17	-0.01	0	1	0554M	QPSK	1	49	10 mm	bottom	1:1	0.294	1.157	0.340	
793.00	23330	Mid	LTE Band 14	10	24.8	24.15	0.01	1	1	0554M	QPSK	25	12	10 mm	bottom	1:1	0.227	1.161	0.264	
793.00	23330	Mid	LTE Band 14	10	25.8	25.17	0.01	0	1	0554M	QPSK	1	49	10 mm	right	1:1	0.269	1.157	0.311	
793.00	23330	Mid	LTE Band 14	10	24.8	24.15	-0.01	1	1	0554M	QPSK	25	12	10 mm	right	1:1	0.200	1.161	0.232	
793.00	23330	Mid	LTE Band 14	10	25.8	25.17	0.02	0	1	0554M	QPSK	1	49	10 mm	left	1:1	0.129	1.157	0.149	
793.00	23330	Mid	LTE Band 14	10	24.8	24.15	0.14	1	1	0554M	QPSK	25	12	10 mm	left	1:1	0.106	1.161	0.123	
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 11-55
LTE Band 5 (Cell) Hotspot SAR

MEASUREMENT RESULTS																			
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Reported SAR (1g)
		MHz	Ch.															(W/kg)	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.89	-0.09	0	39	0427M	QPSK	1	0	10 mm	back	1:1	0.514
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.91	-0.02	0	39	0427M	QPSK	1	25	10 mm	back	1:1	0.568
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.97	-0.03	1	39	0427M	QPSK	25	25	10 mm	back	1:1	0.485
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	25.31	-0.07	0	39	0427M	QPSK	1	0	10 mm	back	1:1	0.541
	SCC	829.30	20453			5								1	24				
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.91	-0.03	0	39	0427M	QPSK	1	25	10 mm	front	1:1	0.366
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.97	-0.01	1	39	0427M	QPSK	25	25	10 mm	front	1:1	0.308
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.91	-0.05	0	39	0427M	QPSK	1	25	10 mm	bottom	1:1	0.311
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.97	-0.06	1	39	0427M	QPSK	25	25	10 mm	bottom	1:1	0.271
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.91	0.00	0	39	0427M	QPSK	1	25	10 mm	right	1:1	0.230
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.97	-0.05	1	39	0427M	QPSK	25	25	10 mm	right	1:1	0.196
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.91	-0.17	0	39	0427M	QPSK	1	25	10 mm	left	1:1	0.076
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.97	0.05	1	39	0427M	QPSK	25	25	10 mm	left	1:1	0.057
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 11-56
LTE Band 26 (Cell) Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	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	25.8	24.98	0.18	0	39	0509M	QPSK	1	36	10 mm	back	1:1	0.680	1.208	0.821	A59
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.96	-0.13	1	39	0509M	QPSK	36	18	10 mm	back	1:1	0.544	1.213	0.660	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.93	-0.10	1	39	0509M	QPSK	75	0	10 mm	back	1:1	0.536	1.222	0.655	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.98	-0.02	0	39	0509M	QPSK	1	36	10 mm	front	1:1	0.385	1.208	0.465	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.96	-0.01	1	39	0509M	QPSK	36	18	10 mm	front	1:1	0.315	1.213	0.382	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.98	0.01	0	39	0509M	QPSK	1	36	10 mm	bottom	1:1	0.308	1.208	0.372	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.96	0.02	1	39	0509M	QPSK	36	18	10 mm	bottom	1:1	0.253	1.213	0.307	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.98	-0.09	0	39	0509M	QPSK	1	36	10 mm	right	1:1	0.256	1.208	0.309	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.96	0.03	1	39	0509M	QPSK	36	18	10 mm	right	1:1	0.204	1.213	0.247	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.98	0.04	0	39	0509M	QPSK	1	36	10 mm	left	1:1	0.081	1.208	0.098	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.96	0.04	1	39	0509M	QPSK	36	18	10 mm	left	1:1	0.064	1.213	0.078	
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 11-57
LTE Band 66 (AWS) Hotspot SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	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	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	19.25	0.05	0	26	0421M	QPSK	1	50	10 mm	back	1:1	0.425	1.189	0.505	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	19.37	0.03	0	26	0421M	QPSK	50	0	10 mm	back	1:1	0.442	1.156	0.511	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	19.25	-0.02	0	26	0421M	QPSK	1	50	10 mm	front	1:1	0.422	1.189	0.502	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	19.37	0.00	0	26	0421M	QPSK	50	0	10 mm	front	1:1	0.434	1.156	0.502	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	19.25	-0.01	0	26	0421M	QPSK	1	50	10 mm	bottom	1:1	0.760	1.189	0.904	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.0	19.21	0.01	0	14	0421M	QPSK	1	50	10 mm	bottom	1:1	0.788	1.199	0.945	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	19.11	0.03	0	14	0421M	QPSK	1	0	10 mm	bottom	1:1	0.797	1.227	0.978	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	19.37	0.08	0	26	0421M	QPSK	50	0	10 mm	bottom	1:1	0.791	1.156	0.914	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	10	20.0	19.35	0.07	0	14	0421M	QPSK	25	0	10 mm	bottom	1:1	0.800	1.161	0.929	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.0	19.29	0.00	0	14	0421M	QPSK	50	0	10 mm	bottom	1:1	0.796	1.178	0.938	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.0	19.30	0.17	0	14	0421M	QPSK	50	25	10 mm	bottom	1:1	0.837	1.175	0.983	A61
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.0	19.29	0.07	0	14	0421M	QPSK	50	25	10 mm	bottom	1:1	0.834	1.178	0.982	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	19.24	0.13	0	26	0421M	QPSK	100	0	10 mm	bottom	1:1	0.797	1.191	0.949	
2 CC Uplink CA_66C	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.0	19.70	0.08	0	14	0421M	QPSK	50	0	10 mm	bottom	1:1	0.832	1.072	0.892	
	SCC	1725.20	132124	Mid	LTE Band 66 (AWS)	20								50	50							
2 CC Uplink CA_66B	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	10	20.0	19.70	0.09	0	14	0421M	QPSK	25	0	10 mm	bottom	1:1	0.829	1.072	0.889	
	SCC	1735.10	132223	Mid	LTE Band 66 (AWS)	10								25	25							
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	19.25	0.04	0	26	0421M	QPSK	1	50	10 mm	right	1:1	0.091	1.189	0.108	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	19.37	0.00	0	26	0421M	QPSK	50	0	10 mm	right	1:1	0.093	1.156	0.108	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	19.25	-0.07	0	26	0421M	QPSK	1	50	10 mm	left	1:1	0.106	1.189	0.126	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.0	19.37	0.00	0	26	0421M	QPSK	50	0	10 mm	left	1:1	0.115	1.156	0.133	
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 11-58
LTE Band 25 (PCS) Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	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)		
1860.00	26140	Low	LTE Band 25 (PCS)	20	18.5	17.86	0.08	0	18	0520M	QPSK	1	50	10 mm	back	1:1	0.328	1.159	0.380	
1860.00	26140	Low	LTE Band 25 (PCS)	20	18.5	18.02	0.00	0	18	0520M	QPSK	50	25	10 mm	back	1:1	0.340	1.117	0.380	
1860.00	26140	Low	LTE Band 25 (PCS)	20	18.5	17.86	0.08	0	18	0520M	QPSK	1	50	10 mm	front	1:1	0.293	1.159	0.340	
1860.00	26140	Low	LTE Band 25 (PCS)	20	18.5	18.02	0.03	0	18	0520M	QPSK	50	25	10 mm	front	1:1	0.306	1.117	0.342	
1860.00	26140	Low	LTE Band 25 (PCS)	20	18.5	17.86	-0.01	0	18	0520M	QPSK	1	50	10 mm	bottom	1:1	0.649	1.159	0.752	
1860.00	26140	Low	LTE Band 25 (PCS)	20	18.5	18.02	0.07	0	18	0520M	QPSK	50	25	10 mm	bottom	1:1	0.673	1.117	0.752	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	18.5	17.83	0.01	0	18	0520M	QPSK	50	50	10 mm	bottom	1:1	0.730	1.167	0.852	
1905.00	26590	High	LTE Band 25 (PCS)	20	18.5	17.84	0.03	0	18	0520M	QPSK	50	25	10 mm	bottom	1:1	0.733	1.164	0.853	A63
1860.00	26140	Low	LTE Band 25 (PCS)	20	18.5	17.85	0.00	0	18	0520M	QPSK	100	0	10 mm	bottom	1:1	0.660	1.161	0.766	
1860.00	26140	Low	LTE Band 25 (PCS)	20	18.5	17.86	0.04	0	1	0520M	QPSK	1	50	10 mm	right	1:1	0.033	1.159	0.038	
1860.00	26140	Low	LTE Band 25 (PCS)	20	18.5	18.02	0.21	0	1	0520M	QPSK	50	25	10 mm	right	1:1	0.034	1.117	0.038	
1860.00	26140	Low	LTE Band 25 (PCS)	20	18.5	17.86	-0.15	0	0	0520M	QPSK	1	50	10 mm	left	1:1	0.041	1.159	0.048	
1860.00	26140	Low	LTE Band 25 (PCS)	20	18.5	18.02	-0.01	0	0	0520M	QPSK	50	25	10 mm	left	1:1	0.041	1.117	0.046	
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 11-59
LTE Band 30 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)		
2310.00	27710	Mid	LTE Band 30	10	20.0	19.54	-0.03	0	0560M	QPSK	1	0	10 mm	back	1:1	0.361	1.112	0.401	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.56	0.00	0	0560M	QPSK	25	12	10 mm	back	1:1	0.357	1.107	0.395	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.54	0.05	0	0560M	QPSK	1	0	10 mm	front	1:1	0.196	1.112	0.218	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.56	0.03	0	0560M	QPSK	25	12	10 mm	front	1:1	0.195	1.107	0.216	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.54	-0.11	0	0560M	QPSK	1	0	10 mm	bottom	1:1	0.830	1.112	0.923	A65
2310.00	27710	Mid	LTE Band 30	10	20.0	19.56	-0.04	0	0560M	QPSK	25	12	10 mm	bottom	1:1	0.820	1.107	0.908	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.40	-0.05	0	0560M	QPSK	50	0	10 mm	bottom	1:1	0.810	1.148	0.930	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.54	0.11	0	0560M	QPSK	1	0	10 mm	right	1:1	0.018	1.112	0.020	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.56	0.17	0	0560M	QPSK	25	12	10 mm	right	1:1	0.019	1.107	0.021	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.54	0.12	0	0560M	QPSK	1	0	10 mm	left	1:1	0.030	1.112	0.033	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.56	0.14	0	0560M	QPSK	25	12	10 mm	left	1:1	0.030	1.107	0.033	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.54	-0.11	0	0560M	QPSK	1	0	10 mm	bottom	1:1	0.830	1.112	0.923	
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: Blue entry represents variability measurement.

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Table 11-60
LTE Band 7 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	Plot #
																(W/kg)		(1g)	
MHz	Ch.																		
2535.00	21100	Mid	LTE Band 7	20	20.0	19.44	-0.09	0	0579M	QPSK	1	50	10 mm	back	1:1	0.261	1.138	0.297	
2535.00	21100	Mid	LTE Band 7	20	20.0	19.42	-0.09	0	0579M	QPSK	50	25	10 mm	back	1:1	0.271	1.143	0.310	A67
2535.00	21100	Mid	LTE Band 7	20	20.0	19.44	0.08	0	0579M	QPSK	1	50	10 mm	front	1:1	0.208	1.138	0.237	
2535.00	21100	Mid	LTE Band 7	20	20.0	19.42	0.12	0	0579M	QPSK	50	25	10 mm	front	1:1	0.217	1.143	0.248	
2535.00	21100	Mid	LTE Band 7	20	20.0	19.44	0.06	0	0579M	QPSK	1	50	10 mm	bottom	1:1	0.233	1.138	0.265	
2535.00	21100	Mid	LTE Band 7	20	20.0	19.42	-0.01	0	0579M	QPSK	50	25	10 mm	bottom	1:1	0.245	1.143	0.280	
2535.00	21100	Mid	LTE Band 7	20	20.0	19.44	0.06	0	0579M	QPSK	1	50	10 mm	left	1:1	0.106	1.138	0.121	
2535.00	21100	Mid	LTE Band 7	20	20.0	19.42	0.07	0	0579M	QPSK	50	25	10 mm	left	1:1	0.110	1.143	0.126	
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 11-61
LTE Band 41 Hotspot 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	2593.00	40620	Mid	LTE Band 41	20	22.0	21.32	-0.05	0	0414M	QPSK	1	50	10 mm	back	1:1.58	0.261	1.169	0.305	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.25	0.00	0	0414M	QPSK	50	25	10 mm	back	1:1.58	0.268	1.189	0.319	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.32	0.03	0	0414M	QPSK	1	50	10 mm	front	1:1.58	0.235	1.169	0.275	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.25	0.03	0	0414M	QPSK	50	25	10 mm	front	1:1.58	0.238	1.189	0.283	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.32	0.04	0	0414M	QPSK	1	50	10 mm	bottom	1:1.58	0.279	1.169	0.326	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.25	0.08	0	0414M	QPSK	50	25	10 mm	bottom	1:1.58	0.287	1.189	0.341	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.24	0.04	0	0414M	QPSK	50	50	10 mm	bottom	1:1.58	0.286	1.191	0.341	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	23.6	22.75	0.03	0	0414M	QPSK	50	25	10 mm	bottom	1:2.31	0.273	1.216	0.332	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	23.6	22.71	-0.02	0	0414M	QPSK	50	50	10 mm	bottom	1:2.31	0.281	1.227	0.345	
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	LTE Band 41	20	22.0	21.68	-0.01	0	0414M	QPSK	50	50	10 mm	bottom	1:1.58	0.309	1.076	0.332	A69
	SCC	2612.80	40818	Mid									50	0							
2 CC Uplink - Power Class 2	PCC	2593.00	40620	Mid	LTE Band 41	20	23.6	22.97	-0.02	0	0414M	QPSK	50	50	10 mm	bottom	1:2.31	0.302	1.156	0.349	
	SCC	2612.80	40818	Mid									50	0							
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.32	0.06	0	0414M	QPSK	1	50	10 mm	left	1:1.58	0.104	1.169	0.122	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	22.0	21.25	-0.04	0	0414M	QPSK	50	25	10 mm	left	1:1.58	0.107	1.189	0.127	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak										Body											
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g)											
										averaged over 1 gram											

FCC ID: A3LSMG996U	 PCTEST Proud to be part of  element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1M2009140143-01-R2.A3L	Test Dates: 09/16/20 – 12/01/20	DUT Type: Portable Handset	Page 335 of 410	

Table 11-62
LTE Band 48 Hotspot SAR

MEASUREMENT RESULTS																					
1 CC Uplink 2 CC Uplink	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	N/A	3560.00	55340	Low	LTE Band 48	20	23.0	22.16	0.10	0	0764M	QPSK	1	50	10 mm	back	1:1.58	0.282	1.213	0.342	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	23.0	22.26	-0.02	0	0764M	QPSK	50	25	10 mm	back	1:1.58	0.218	1.186	0.259	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	23.0	22.16	0.09	0	0764M	QPSK	1	50	10 mm	front	1:1.58	0.333	1.213	0.404	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	23.0	22.26	-0.05	0	0764M	QPSK	50	25	10 mm	front	1:1.58	0.271	1.186	0.321	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	23.0	22.16	-0.01	0	0764M	QPSK	1	50	10 mm	right	1:1.58	0.503	1.213	0.610	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	23.0	21.67	-0.06	0	0764M	QPSK	1	50	10 mm	right	1:1.58	0.459	1.358	0.623	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	23.0	22.15	0.00	0	0764M	QPSK	1	50	10 mm	right	1:1.58	0.522	1.216	0.635	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	23.0	22.05	-0.07	0	0764M	QPSK	1	50	10 mm	right	1:1.58	0.537	1.245	0.669	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	23.0	22.26	0.20	0	0764M	QPSK	50	25	10 mm	right	1:1.58	0.550	1.186	0.652	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	23.0	21.85	-0.07	0	0764M	QPSK	50	0	10 mm	right	1:1.58	0.559	1.303	0.728	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	23.0	22.25	-0.10	0	0764M	QPSK	50	50	10 mm	right	1:1.58	0.559	1.189	0.665	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	23.0	22.03	-0.06	0	0764M	QPSK	50	0	10 mm	right	1:1.58	0.573	1.250	0.716	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	23.0	22.04	-0.08	0	0764M	QPSK	50	25	10 mm	right	1:1.58	0.586	1.247	0.731	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	23.0	22.04	-0.04	0	0764M	QPSK	100	0	10 mm	right	1:1.58	0.541	1.247	0.675	
2 CC Uplink	PCC	3690.00	56640	High	LTE Band 48	20	23.0	22.38	-0.03	0	0764M	QPSK	50	0	10 mm	right	1:1.58	0.595	1.153	0.686	A71
	SCC	3670.20	56442	High								QPSK	50	50							
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 11-63
NR Band n71 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	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	25.8	25.04	-0.02	0	0	0413M	DFT-S-OFDM	QPSK	1	53	10 mm	back	1:1	0.294	1.191	0.350	A73
680.50	136100	Mid	NR Band n71	20	25.8	25.06	0.01	0	0	0413M	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.302	1.186	0.358	
680.50	136100	Mid	NR Band n71	20	24.3	23.55	0.01	1.5	0	0413M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.200	1.189	0.238	
680.50	136100	Mid	NR Band n71	20	25.8	25.04	0.01	0	0	0413M	DFT-S-OFDM	QPSK	1	53	10 mm	front	1:1	0.177	1.191	0.211	
680.50	136100	Mid	NR Band n71	20	25.8	25.06	0.06	0	0	0413M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.181	1.186	0.215	
680.50	136100	Mid	NR Band n71	20	25.8	25.04	0.15	0	0	0413M	DFT-S-OFDM	QPSK	1	53	10 mm	bottom	1:1	0.113	1.191	0.135	
680.50	136100	Mid	NR Band n71	20	25.8	25.06	0.02	0	0	0413M	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.122	1.186	0.145	
680.50	136100	Mid	NR Band n71	20	25.8	25.04	-0.03	0	0	0413M	DFT-S-OFDM	QPSK	1	53	10 mm	right	1:1	0.251	1.191	0.299	
680.50	136100	Mid	NR Band n71	20	25.8	25.06	-0.06	0	0	0413M	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.251	1.186	0.298	
680.50	136100	Mid	NR Band n71	20	25.8	25.04	-0.02	0	5	0413M	DFT-S-OFDM	QPSK	1	53	10 mm	left	1:1	0.137	1.191	0.163	
680.50	136100	Mid	NR Band n71	20	25.8	25.06	-0.02	0	5	0413M	DFT-S-OFDM	QPSK	50	28	10 mm	left	1:1	0.141	1.186	0.167	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram													

FCC ID: A3LSMG996U	 Proud to be part of element	SAR EVALUATION REPORT		Approved by:
Document S/N: 1M2009140143-01-R2.A3L	Test Dates: 09/16/20 – 12/01/20	DUT Type: Portable Handset		Quality Manager
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Table 11-64
NR Band n12 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
707.50	141500	Mid	NR Band n12	15	25.8	24.72	-0.09	0	0	0406M	DFT-S-OFDM	QPSK	1	77	10 mm	back	1:1	0.355	1.282	0.455	A75
707.50	141500	Mid	NR Band n12	15	25.8	24.62	-0.12	0	0	0406M	DFT-S-OFDM	QPSK	36	22	10 mm	back	1:1	0.361	1.312	0.474	
707.50	141500	Mid	NR Band n12	15	24.3	22.88	-0.07	1.5	0	0406M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.220	1.387	0.305	
707.50	141500	Mid	NR Band n12	15	25.8	24.72	-0.08	0	0	0406M	DFT-S-OFDM	QPSK	1	77	10 mm	front	1:1	0.175	1.282	0.224	
707.50	141500	Mid	NR Band n12	15	25.8	24.62	0.02	0	0	0406M	DFT-S-OFDM	QPSK	36	22	10 mm	front	1:1	0.182	1.312	0.239	
707.50	141500	Mid	NR Band n12	15	25.8	24.72	-0.14	0	107	0406M	DFT-S-OFDM	QPSK	1	77	10 mm	bottom	1:1	0.177	1.282	0.227	
707.50	141500	Mid	NR Band n12	15	25.8	24.62	-0.07	0	107	0406M	DFT-S-OFDM	QPSK	36	22	10 mm	bottom	1:1	0.182	1.312	0.239	
707.50	141500	Mid	NR Band n12	15	25.8	24.72	0.04	0	0	0406M	DFT-S-OFDM	QPSK	1	77	10 mm	right	1:1	0.219	1.282	0.281	
707.50	141500	Mid	NR Band n12	15	25.8	24.62	-0.05	0	0	0406M	DFT-S-OFDM	QPSK	36	22	10 mm	right	1:1	0.217	1.312	0.285	
707.50	141500	Mid	NR Band n12	15	25.8	24.72	-0.17	0	1	0406M	DFT-S-OFDM	QPSK	1	77	10 mm	left	1:1	0.124	1.282	0.159	
707.50	141500	Mid	NR Band n12	15	25.8	24.62	0.16	0	1	0406M	DFT-S-OFDM	QPSK	36	22	10 mm	left	1:1	0.105	1.312	0.138	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Body 1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population								averaged over 1 gram													

Table 11-65
NR Band n5 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.01	0.06	0	39	0407M	DFT-S-OFDM	QPSK	1	104	10 mm	back	1:1	0.622	1.199	0.746	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.00	0.06	0	39	0407M	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.699	1.202	0.840	A77
836.50	167300	Mid	NR Band n5 (Cell)	20	24.8	24.08	0.03	1	39	0407M	DFT-S-OFDM	QPSK	100	0	10 mm	back	1:1	0.599	1.180	0.707	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.3	23.43	0.01	1.5	39	0407M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.493	1.222	0.602	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.01	-0.03	0	39	0407M	DFT-S-OFDM	QPSK	1	104	10 mm	front	1:1	0.462	1.199	0.554	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.00	0.05	0	39	0407M	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.479	1.202	0.576	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.01	-0.01	0	39	0407M	DFT-S-OFDM	QPSK	1	104	10 mm	bottom	1:1	0.350	1.199	0.420	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.00	-0.02	0	39	0407M	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.382	1.202	0.459	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.01	0.07	0	39	0407M	DFT-S-OFDM	QPSK	1	104	10 mm	right	1:1	0.237	1.199	0.284	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.00	-0.02	0	39	0407M	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.261	1.202	0.314	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.01	0.09	0	39	0407M	DFT-S-OFDM	QPSK	1	104	10 mm	left	1:1	0.060	1.199	0.072	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.8	25.00	0.03	0	39	0407M	DFT-S-OFDM	QPSK	50	28	10 mm	left	1:1	0.069	1.202	0.083	
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 11-66
NR Band n66 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Antenna Config	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant A	20.0	20.00	-0.04	0	26	0417M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.559	1.000	0.559	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant A	20.0	19.99	0.03	0	26	0417M	DFT-S-OFDM	QPSK	108	54	10 mm	back	1:1	0.595	1.002	0.596	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant A	20.0	20.00	0.00	0	26	0417M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.533	1.000	0.533	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant A	20.0	19.99	0.11	0	26	0417M	DFT-S-OFDM	QPSK	108	54	10 mm	front	1:1	0.555	1.002	0.556	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant A	20.0	20.00	0.16	0	14	0417M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.974	1.000	0.974	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant A	20.0	19.99	0.03	0	14	0417M	DFT-S-OFDM	QPSK	108	54	10 mm	bottom	1:1	1.000	1.002	1.002	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant A	20.0	19.98	-0.03	0	26	0417M	DFT-S-OFDM	QPSK	216	0	10 mm	bottom	1:1	1.030	1.005	1.035	A79
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant A	20.0	19.99	0.07	0	14	0417M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.997	1.002	0.999	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant A	20.0	20.00	0.11	0	26	0417M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.084	1.000	0.084	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant A	20.0	19.99	0.12	0	26	0417M	DFT-S-OFDM	QPSK	108	54	10 mm	right	1:1	0.079	1.002	0.079	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant A	20.0	20.00	-0.07	0	26	0417M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.134	1.000	0.134	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant A	20.0	19.99	0.02	0	26	0417M	DFT-S-OFDM	QPSK	108	54	10 mm	left	1:1	0.130	1.002	0.130	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant I	20.0	19.62	-0.02	0	N/A	0247M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.231	1.091	0.252	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant I	20.0	19.61	0.01	0	N/A	0247M	DFT-S-OFDM	QPSK	108	0	10 mm	back	1:1	0.229	1.094	0.251	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant I	20.0	19.62	0.18	0	N/A	0247M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.122	1.091	0.133	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant I	20.0	19.61	0.16	0	N/A	0247M	DFT-S-OFDM	QPSK	108	0	10 mm	front	1:1	0.129	1.094	0.141	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant I	20.0	19.62	0.08	0	N/A	0247M	DFT-S-OFDM	QPSK	1	1	10 mm	top	1:1	0.272	1.091	0.297	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant I	20.0	19.61	0.09	0	N/A	0247M	DFT-S-OFDM	QPSK	108	0	10 mm	top	1:1	0.268	1.094	0.293	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant I	20.0	19.63	0.05	0	N/A	0247M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.263	1.089	0.286	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant I	20.0	19.62	0.14	0	N/A	0247M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.038	1.091	0.041	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant I	20.0	19.61	0.04	0	N/A	0247M	DFT-S-OFDM	QPSK	108	0	10 mm	right	1:1	0.036	1.094	0.039	
1745.00	349000	Md	NR Band n66 (AWS)	40	Ant A	20.0	19.98	0.06	0	26	0417M	DFT-S-OFDM	QPSK	216	0	10 mm	bottom	1:1	1.010	1.005	1.015	
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: Blue entry represents variability measurement.

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Document S/N: 1M2009140143-01-R2.A3L	Test Dates: 09/16/20 – 12/01/20	DUT Type: Portable Handset		Page 338 of 410

Table 11-67
NR Band n25 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Antenna Config	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	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	Ant A	18.5	18.50	-0.02	0	18	0408M	DFT-S-OFDM	QPSK	1	214	10 mm	back	1:1	0.232	1.000	0.232	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant A	18.5	18.28	-0.07	0	18	0408M	DFT-S-OFDM	QPSK	108	0	10 mm	back	1:1	0.240	1.052	0.252	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant A	18.5	18.50	0.05	0	18	0408M	DFT-S-OFDM	QPSK	1	214	10 mm	front	1:1	0.205	1.000	0.205	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant A	18.5	18.28	0.06	0	18	0408M	DFT-S-OFDM	QPSK	108	0	10 mm	front	1:1	0.212	1.052	0.223	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant A	18.5	18.50	-0.05	0	18	0408M	DFT-S-OFDM	QPSK	1	214	10 mm	bottom	1:1	0.643	1.000	0.643	A81
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant A	18.5	18.28	-0.01	0	18	0408M	DFT-S-OFDM	QPSK	108	0	10 mm	bottom	1:1	0.597	1.052	0.628	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant A	18.5	18.44	-0.07	0	18	0408M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.582	1.014	0.590	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant A	18.5	18.50	0.19	0	1	0408M	DFT-S-OFDM	QPSK	1	214	10 mm	right	1:1	0.038	1.000	0.038	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant A	18.5	18.28	-0.04	0	1	0408M	DFT-S-OFDM	QPSK	108	0	10 mm	right	1:1	0.037	1.052	0.039	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant A	18.5	18.50	-0.15	0	0	0408M	DFT-S-OFDM	QPSK	1	214	10 mm	left	1:1	0.034	1.000	0.034	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant A	18.5	18.28	0.11	0	0	0408M	DFT-S-OFDM	QPSK	108	0	10 mm	left	1:1	0.036	1.052	0.038	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant I	20.0	19.98	-0.01	0	N/A	0303M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.193	1.005	0.194	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant I	20.0	19.67	0.16	0	N/A	0303M	DFT-S-OFDM	QPSK	108	108	10 mm	back	1:1	0.159	1.079	0.172	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant I	20.0	19.98	0.05	0	N/A	0303M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.112	1.005	0.113	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant I	20.0	19.67	0.14	0	N/A	0303M	DFT-S-OFDM	QPSK	108	108	10 mm	front	1:1	0.065	1.079	0.070	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant I	20.0	19.98	-0.03	0	N/A	0303M	DFT-S-OFDM	QPSK	1	1	10 mm	top	1:1	0.262	1.005	0.263	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant I	20.0	19.67	-0.07	0	N/A	0303M	DFT-S-OFDM	QPSK	108	108	10 mm	top	1:1	0.212	1.079	0.229	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant I	20.0	19.74	0.11	0	N/A	0303M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.259	1.062	0.275	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant I	20.0	19.98	0.16	0	N/A	0303M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.033	1.005	0.033	
1882.50	376500	Mid	NR Band n25 (PCS)	40	Ant I	20.0	19.67	0.07	0	N/A	0303M	DFT-S-OFDM	QPSK	108	108	10 mm	right	1:1	0.029	1.079	0.031	
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 11-68
NR Band n30 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR (lg)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
2310.00	462000	Mid	NR Band n30	10	20.0	19.59	0.04	0	0419M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.411	1.099	0.452	
2310.00	462000	Mid	NR Band n30	10	20.0	19.57	0.07	0	0419M	DFT-S-OFDM	QPSK	25	27	10 mm	back	1:1	0.398	1.104	0.439	
2310.00	462000	Mid	NR Band n30	10	20.0	19.59	0.02	0	0419M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.273	1.099	0.300	
2310.00	462000	Mid	NR Band n30	10	20.0	19.57	-0.01	0	0419M	DFT-S-OFDM	QPSK	25	27	10 mm	front	1:1	0.263	1.104	0.290	
2310.00	462000	Mid	NR Band n30	10	20.0	19.59	-0.10	0	0419M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.748	1.099	0.822	
2310.00	462000	Mid	NR Band n30	10	20.0	19.57	-0.11	0	0419M	DFT-S-OFDM	QPSK	25	27	10 mm	bottom	1:1	0.761	1.104	0.840	A83
2310.00	462000	Mid	NR Band n30	10	20.0	19.51	-0.10	0	0419M	DFT-S-OFDM	QPSK	50	0	10 mm	bottom	1:1	0.721	1.119	0.807	
2310.00	462000	Mid	NR Band n30	10	20.0	19.64	0.00	0	0419M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.704	1.086	0.765	
2310.00	462000	Mid	NR Band n30	10	20.0	19.59	0.06	0	0419M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.019	1.099	0.021	
2310.00	462000	Mid	NR Band n30	10	20.0	19.57	0.19	0	0419M	DFT-S-OFDM	QPSK	25	27	10 mm	right	1:1	0.017	1.104	0.019	
2310.00	462000	Mid	NR Band n30	10	20.0	19.59	0.17	0	0419M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.045	1.099	0.049	
2310.00	462000	Mid	NR Band n30	10	20.0	19.57	0.19	0	0419M	DFT-S-OFDM	QPSK	25	27	10 mm	left	1:1	0.048	1.104	0.053	
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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Document S/N: 1M2009140143-01-R2.A3L	Test Dates: 09/16/20 – 12/01/20	DUT Type: Portable Handset		Page 339 of 410

Table 11-69
NR Band n41 Hotspot SAR

MEASUREMENT RESULTS																		
FREQUENCY			Mode	Bandwidth [MHz]	Antenna Config	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)
MHz	Ch.																	(W/kg)
2592.99	518598	Mid	NR Band n41	100	Ant B	14.0	13.31	0.11	0	0311M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.075
2592.99	518598	Mid	NR Band n41	100	Ant B	14.0	13.20	0.13	0	0311M	DFT-S-OFDM	QPSK	135	0	10 mm	back	1:1	0.064
2592.99	518598	Mid	NR Band n41	100	Ant B	14.0	13.02	0.19	0	0311M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.050
2592.99	518598	Mid	NR Band n41	100	Ant B	14.0	13.31	0.14	0	0311M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.055
2592.99	518598	Mid	NR Band n41	100	Ant B	14.0	13.20	0.19	0	0311M	DFT-S-OFDM	QPSK	135	0	10 mm	front	1:1	0.053
2592.99	518598	Mid	NR Band n41	100	Ant B	14.0	13.31	0.05	0	0311M	DFT-S-OFDM	QPSK	1	137	10 mm	bottom	1:1	0.068
2592.99	518598	Mid	NR Band n41	100	Ant B	14.0	13.20	-0.01	0	0311M	DFT-S-OFDM	QPSK	135	0	10 mm	bottom	1:1	0.062
2592.99	518598	Mid	NR Band n41	100	Ant B	14.0	13.31	0.17	0	0311M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.031
2592.99	518598	Mid	NR Band n41	100	Ant B	14.0	13.20	0.19	0	0311M	DFT-S-OFDM	QPSK	135	0	10 mm	left	1:1	0.018
2592.99	518598	Mid	NR Band n41	100	Ant I	19.0	18.39	0.19	0	0289M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.084
2592.99	518598	Mid	NR Band n41	100	Ant I	19.0	18.38	0.18	0	0289M	DFT-S-OFDM	QPSK	135	0	10 mm	back	1:1	0.087
2592.99	518598	Mid	NR Band n41	100	Ant I	19.0	18.39	0.03	0	0289M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.078
2592.99	518598	Mid	NR Band n41	100	Ant I	19.0	18.38	0.10	0	0289M	DFT-S-OFDM	QPSK	135	0	10 mm	front	1:1	0.043
2592.99	518598	Mid	NR Band n41	100	Ant I	19.0	18.39	-0.04	0	0289M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.092
2592.99	518598	Mid	NR Band n41	100	Ant I	19.0	18.38	0.14	0	0289M	DFT-S-OFDM	QPSK	135	0	10 mm	top	1:1	0.076
2592.99	518598	Mid	NR Band n41	100	Ant I	19.0	18.38	0.18	0	0289M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.065
2592.99	518598	Mid	NR Band n41	100	Ant I	19.0	18.39	0.15	0	0289M	DFT-S-OFDM	QPSK	1	137	10 mm	right	1:1	0.025
2592.99	518598	Mid	NR Band n41	100	Ant I	19.0	18.38	0.17	0	0289M	DFT-S-OFDM	QPSK	135	0	10 mm	right	1:1	0.021
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 11-70
NR Band n77 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
3930.00	662000	High	NR Band n77	100	18.5	17.85	0.14	0	0870M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.169	1.161	0.196	
3930.00	662000	High	NR Band n77	100	18.5	17.78	0.12	0	0870M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.170	1.180	0.201	
3930.00	662000	High	NR Band n77	100	18.5	17.85	0.18	0	0870M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.166	1.161	0.193	
3930.00	662000	High	NR Band n77	100	18.5	17.78	-0.05	0	0870M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.164	1.180	0.194	
3750.00	650000	Low	NR Band n77	100	18.5	17.75	-0.18	0	0870M	DFT-S-OFDM	QPSK	1	271	10 mm	right	1:1	0.377	1.189	0.448	A87
3930.00	662000	High	NR Band n77	100	18.5	17.85	-0.09	0	0870M	DFT-S-OFDM	QPSK	1	137	10 mm	right	1:1	0.295	1.161	0.342	
3750.00	650000	Low	NR Band n77	100	18.5	17.77	-0.14	0	0870M	DFT-S-OFDM	QPSK	135	138	10 mm	right	1:1	0.371	1.183	0.439	
3930.00	662000	High	NR Band n77	100	18.5	17.78	-0.12	0	0870M	DFT-S-OFDM	QPSK	135	69	10 mm	right	1:1	0.298	1.180	0.352	
3930.00	662000	High	NR Band n77	100	18.5	17.77	-0.16	0	0870M	DFT-S-OFDM	QPSK	270	0	10 mm	right	1:1	0.310	1.183	0.367	
3930.00	662000	High	NR Band n77	100	18.5	17.15	-0.06	0	0870M	CP-OFDM	QPSK	1	1	10 mm	right	1:1	0.324	1.365	0.442	
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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Document S/N:	Test Dates:	DUT Type:		Quality Manager
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**Table 11-71
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)	
2462	11	802.11b	DSSS	22	21.0	20.39	0.16	10 mm	1	0287M	1	back	98.9	0.336	0.219	1.151	1.011	0.255	
2462	11	802.11b	DSSS	22	21.0	20.39	0.11	10 mm	1	0287M	1	front	98.9	0.315	-	1.151	1.011	-	
2462	11	802.11b	DSSS	22	21.0	20.39	0.17	10 mm	1	0287M	1	left	98.9	0.646	0.391	1.151	1.011	0.455	A89
2412	1	802.11b	DSSS	22	19.5	19.49	0.14	10 mm	2	0287M	1	back	98.9	0.435	0.346	1.002	1.011	0.351	
2412	1	802.11b	DSSS	22	19.5	19.49	-0.15	10 mm	2	0287M	1	front	98.9	0.030	-	1.002	1.011	-	
2412	1	802.11b	DSSS	22	19.5	19.49	0.16	10 mm	2	0287M	1	top	98.9	0.111	-	1.002	1.011	-	
2412	1	802.11b	DSSS	22	19.5	19.49	0.16	10 mm	2	0287M	1	left	98.9	0.026	-	1.002	1.011	-	
5785	157	802.11a	OFDM	20	18.5	18.32	0.09	10 mm	1	0412M	6	back	98.8	0.586	0.222	1.042	1.012	0.234	
5775	155	802.11ac	OFDM	80	11.0	10.43	0.00	10 mm	1	0412M	29.3	back	94.6	0.103	0.038	1.140	1.057	0.046	
5785	157	802.11a	OFDM	20	18.5	18.32	-0.18	10 mm	1	0412M	6	front	98.8	0.563	0.236	1.042	1.012	0.249	
5785	157	802.11a	OFDM	20	18.5	18.32	-0.13	10 mm	1	0412M	6	left	98.8	1.202	0.502	1.042	1.012	0.529	
5775	155	802.11ac	OFDM	80	11.0	10.43	0.00	10 mm	1	0412M	29.3	left	94.6	0.191	0.073	1.140	1.057	0.088	
5745	149	802.11a	OFDM	20	17.5	17.46	0.00	10 mm	2	0412M	6	back	98.8	1.425	0.650	1.009	1.012	0.664	
5785	157	802.11a	OFDM	20	17.5	17.48	0.09	10 mm	2	0412M	6	back	98.8	1.537	0.678	1.005	1.012	0.690	A91
5825	165	802.11a	OFDM	20	17.5	17.29	0.13	10 mm	2	0412M	6	back	98.8	1.255	0.564	1.050	1.012	0.599	
5775	155	802.11ac	OFDM	80	11.0	10.35	0.00	10 mm	2	0412M	29.3	back	94.6	0.495	0.235	1.161	1.057	0.288	
5785	157	802.11a	OFDM	20	17.5	17.48	0.00	10 mm	2	0412M	6	front	98.8	0.304	0.030	1.005	1.012	0.031	
5785	157	802.11a	OFDM	20	17.5	17.48	0.19	10 mm	2	0412M	6	top	98.8	0.418	0.176	1.005	1.012	0.179	
5785	157	802.11a	OFDM	20	17.5	17.48	0.17	10 mm	2	0412M	6	left	98.8	0.086	-	1.005	1.012	-	
5775	155	802.11ac	OFDM	80	11.0	10.35	0.00	10 mm	2	0412M	29.3	left	94.6	0.021	0.006	1.161	1.057	0.007	
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 11-72
2.4 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)	
2452	9	802.11n	OFDM	20	18.5	18.50	17.5	17.06	0.10	10 mm	MIMO	0287M	13	back	93.1	0.389	0.275	1.107	1.074	0.327	
2452	9	802.11n	OFDM	20	18.5	18.50	17.5	17.06	0.18	10 mm	MIMO	0287M	13	front	93.1	0.161	-	1.107	1.074	-	
2452	9	802.11n	OFDM	20	18.5	18.50	17.5	17.06	0.12	10 mm	MIMO	0287M	13	top	93.1	0.093	-	1.107	1.074	-	
2452	9	802.11n	OFDM	20	18.5	18.50	17.5	17.06	0.19	10 mm	MIMO	0287M	13	left	93.1	0.268	-	1.107	1.074	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak																					
Uncontrolled Exposure/General Population																					

Note: To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation, antenna 1 transmits at a maximum allowed power of 18.5 dBm and antenna 2 transmits at a maximum allowed power of 17.5 dBm.

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Table 11-73
2.4 WLAN MIMO Hotspot SAR for conditions with 2.4 GHz and 5 GHz WLAN or with 5G NR

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)		
2462	11	802.11n	OFDM	20	16.0	15.90	16.0	15.94	0.10	10 mm	MIMO	0287M	13	back	93.1	0.349	0.182	1.023	1.074	0.200	
2462	11	802.11n	OFDM	20	16.0	15.90	16.0	15.94	0.17	10 mm	MIMO	0287M	13	front	93.1	0.123	-	1.023	1.074	-	
2462	11	802.11n	OFDM	20	16.0	15.90	16.0	15.94	0.19	10 mm	MIMO	0287M	13	top	93.1	0.065	-	1.023	1.074	-	
2462	11	802.11n	OFDM	20	16.0	15.90	16.0	15.94	0.19	10 mm	MIMO	0287M	13	left	93.1	0.289	-	1.023	1.074	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

DTS MIMO were additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 5 GHz WIFI was not transmitting during DTS MIMO evaluations. To achieve the 19.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 16.0 dBm.

Table 11-74
5 GHz WLAN MIMO Hotspot SAR for conditions with 2.4 GHz and 5 GHz WLAN or with 5G NR

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)	
5775	155	802.11ac	OFDM	80	13.0	12.95	13.0	12.67	0.00	10 mm	MIMO	0412M	58.5	back	91.3	1.169	0.465	1.079	1.095	0.549	
5775	155	802.11ac	OFDM	80	13.0	12.95	13.0	12.67	0.00	10 mm	MIMO	0412M	58.5	front	91.3	0.251	0.121	1.079	1.095	0.143	
5775	155	802.11ac	OFDM	80	13.0	12.95	13.0	12.67	-0.15	10 mm	MIMO	0412M	58.5	top	91.3	0.302	0.129	1.079	1.095	0.152	
5775	155	802.11ac	OFDM	80	13.0	12.95	13.0	12.67	0.12	10 mm	MIMO	0412M	58.5	left	91.3	0.614	0.181	1.079	1.095	0.214	
5775	155	802.11ac	OFDM	80	11.0	10.43	11.0	10.35	0.16	10 mm	MIMO	0412M	58.5	back	91.3	0.563	0.281	1.161	1.095	0.357	
5775	155	802.11ac	OFDM	80	11.0	10.43	11.0	10.35	0.12	10 mm	MIMO	0412M	58.5	left	91.3	0.189	0.065	1.161	1.095	0.083	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak										Body											
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g) averaged over 1 gram											

NII MIMO were additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz and 5 GHz WLAN. 2.4 GHz WIFI was not transmitting during NII MIMO evaluations. To achieve the 16.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 13.0 dBm. To achieve the 14.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 11.0 dBm.

Table 11-75
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)	
2402	0	2.4 GHz Bluetooth	FHSS	18.0	17.52	0.03	10 mm	0287M	1	back	77.3	0.073	1.117	1.294	0.106	
2402	0	2.4 GHz Bluetooth	FHSS	18.0	17.52	0.04	10 mm	0287M	1	front	77.3	0.071	1.117	1.294	0.103	
2402	0	2.4 GHz Bluetooth	FHSS	18.0	17.52	-0.07	10 mm	0287M	1	left	77.3	0.122	1.117	1.294	0.176	A93
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 11-76
GPRS/UMTS/CDMA Phablet SAR Data

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna State	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.												(W/kg)		(W/kg)		
1880.00	600	PCS CDMA	EVDO Rev. 0	24.5	23.20	0.09	5 mm	2	0551M	N/A	1:1	back	1.060	1.349	1.430		
1880.00	600	PCS CDMA	EVDO Rev. 0	24.5	23.20	0.01	4 mm	2	0551M	N/A	1:1	front	1.160	1.349	1.565		
1880.00	600	PCS CDMA	EVDO Rev. 0	24.5	23.20	0.07	10 mm	2	0551M	N/A	1:1	bottom	1.370	1.349	1.848		
1880.00	600	PCS CDMA	EVDO Rev. 0	24.5	23.20	-0.05	0 mm	2	0551M	N/A	1:1	right	0.403	1.349	0.544		
1880.00	600	PCS CDMA	EVDO Rev. 0	24.5	23.20	-0.14	0 mm	2	0551M	N/A	1:1	left	0.498	1.349	0.672		
1880.00	600	PCS CDMA	EVDO Rev. 0	21.0	19.80	0.19	0 mm	2	0551M	N/A	1:1	back	1.150	1.318	1.516		
1880.00	600	PCS CDMA	EVDO Rev. 0	21.0	19.80	0.02	0 mm	2	0551M	N/A	1:1	front	1.060	1.318	1.397		
1851.25	25	PCS CDMA	EVDO Rev. 0	21.0	20.11	-0.09	0 mm	2	0551M	N/A	1:1	bottom	1.910	1.227	2.344		A94
1880.00	600	PCS CDMA	EVDO Rev. 0	21.0	19.80	-0.09	0 mm	2	0551M	N/A	1:1	bottom	1.780	1.318	2.346		
1908.75	1175	PCS CDMA	EVDO Rev. 0	21.0	20.13	0.00	0 mm	2	0551M	N/A	1:1	bottom	1.710	1.222	2.090		
1880.00	661	GSM 1900	GPRS	27.5	26.25	0.14	5 mm	N/A	0551M	3	1.2.76	back	0.976	1.334	1.302		
1880.00	661	GSM 1900	GPRS	27.5	26.25	0.05	4 mm	N/A	0551M	3	1.2.76	front	1.040	1.334	1.387		
1880.00	661	GSM 1900	GPRS	27.5	26.25	-0.09	10 mm	N/A	0551M	3	1.2.76	bottom	1.030	1.334	1.374		
1880.00	661	GSM 1900	GPRS	27.5	26.25	0.00	0 mm	N/A	0551M	3	1.2.76	right	0.310	1.334	0.414		
1880.00	661	GSM 1900	GPRS	27.5	26.25	-0.12	0 mm	N/A	0551M	3	1.2.76	left	0.397	1.334	0.530		
1850.20	512	GSM 1900	GPRS	24.3	22.82	0.12	0 mm	N/A	0551M	4	1.2.076	back	1.170	1.406	1.645		
1880.00	661	GSM 1900	GPRS	24.3	22.90	0.12	0 mm	N/A	0551M	4	1.2.076	back	1.100	1.380	1.518		
1909.80	810	GSM 1900	GPRS	24.3	23.02	-0.08	0 mm	N/A	0551M	4	1.2.076	back	1.250	1.343	1.679	A95	
1880.00	661	GSM 1900	GPRS	24.3	22.90	0.11	0 mm	N/A	0551M	4	1.2.076	front	1.040	1.380	1.435		
1880.00	661	GSM 1900	GPRS	24.3	22.90	0.07	0 mm	N/A	0551M	4	1.2.076	bottom	1.050	1.380	1.449		
1732.40	1412	UMTS 1750	RMC	24.5	23.53	-0.09	5 mm	26	0526M	N/A	1:1	back	1.500	1.250	1.875		
1712.40	1312	UMTS 1750	RMC	24.5	23.43	-0.10	4 mm	26	0526M	N/A	1:1	front	1.570	1.279	2.008		
1732.40	1412	UMTS 1750	RMC	24.5	23.53	0.00	4 mm	26	0526M	N/A	1:1	front	1.700	1.250	2.125		
1752.60	1513	UMTS 1750	RMC	24.5	23.34	-0.08	4 mm	26	0526M	N/A	1:1	front	1.590	1.306	2.077		
1732.40	1412	UMTS 1750	RMC	24.5	23.53	-0.05	10 mm	26	0526M	N/A	1:1	bottom	1.190	1.250	1.488		
1732.40	1412	UMTS 1750	RMC	24.5	23.53	0.01	0 mm	26	0526M	N/A	1:1	right	0.430	1.250	0.538		
1732.40	1412	UMTS 1750	RMC	24.5	23.53	0.02	0 mm	26	0526M	N/A	1:1	left	0.643	1.250	0.804		
1712.40	1312	UMTS 1750	RMC	21.5	20.70	-0.02	0 mm	26	0526M	N/A	1:1	back	1.830	1.202	2.200		
1732.40	1412	UMTS 1750	RMC	21.5	20.75	-0.03	0 mm	26	0526M	N/A	1:1	back	1.930	1.189	2.295		
1752.60	1513	UMTS 1750	RMC	21.5	20.53	-0.04	0 mm	26	0526M	N/A	1:1	back	1.860	1.250	2.325		
1712.40	1312	UMTS 1750	RMC	21.5	20.70	-0.08	0 mm	26	0526M	N/A	1:1	front	1.870	1.202	2.248		
1732.40	1412	UMTS 1750	RMC	21.5	20.75	-0.07	0 mm	26	0526M	N/A	1:1	front	1.940	1.189	2.307		
1752.60	1513	UMTS 1750	RMC	21.5	20.53	-0.06	0 mm	26	0526M	N/A	1:1	front	1.790	1.250	2.238		
1712.40	1312	UMTS 1750	RMC	21.5	20.70	0.05	0 mm	26	0526M	N/A	1:1	bottom	2.380	1.202	2.861		
1732.40	1412	UMTS 1750	RMC	21.5	20.75	0.13	0 mm	26	0526M	N/A	1:1	bottom	2.490	1.189	2.961	A96	
1752.60	1513	UMTS 1750	RMC	21.5	20.53	0.09	0 mm	26	0526M	N/A	1:1	bottom	2.250	1.250	2.813		
1732.40	1412	UMTS 1750	RMC	21.5	20.75	-0.11	0 mm	26	0526M	N/A	1:1	bottom	2.130	1.189	2.533		
1880.00	9400	UMTS 1900	RMC	24.5	22.92	0.04	5 mm	4	0551M	N/A	1:1	back	0.924	1.439	1.330		
1880.00	9400	UMTS 1900	RMC	24.5	22.92	-0.11	4 mm	4	0551M	N/A	1:1	front	1.150	1.439	1.655		
1880.00	9400	UMTS 1900	RMC	24.5	22.92	0.03	10 mm	4	0551M	N/A	1:1	bottom	1.180	1.439	1.698		
1880.00	9400	UMTS 1900	RMC	24.5	22.92	-0.11	0 mm	4	0551M	N/A	1:1	right	0.352	1.439	0.507		
1880.00	9400	UMTS 1900	RMC	24.5	22.92	-0.18	0 mm	4	0551M	N/A	1:1	left	0.458	1.439	0.659		
1880.00	9400	UMTS 1900	RMC	21.5	20.23	-0.06	0 mm	4	0551M	N/A	1:1	back	1.180	1.340	1.581		
1880.00	9400	UMTS 1900	RMC	21.5	20.23	-0.02	0 mm	4	0551M	N/A	1:1	front	1.050	1.340	1.407		
1852.40	9262	UMTS 1900	RMC	21.5	20.61	-0.05	0 mm	4	0551M	N/A	1:1	bottom	2.110	1.227	2.589	A97	
1880.00	9400	UMTS 1900	RMC	21.5	20.23	-0.06	0 mm	4	0551M	N/A	1:1	bottom	1.890	1.340	2.533		
1907.60	9538	UMTS 1900	RMC	21.5	20.46	-0.02	0 mm	4	0551M	N/A	1:1	bottom	1.890	1.271	2.402		
1852.40	9262	UMTS 1900	RMC	21.5	20.61	0.15	0 mm	4	0551M	N/A	1:1	bottom	2.050	1.227	2.515		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams										

Note: Blue entries represent variability measurements.

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Table 11-77
LTE Band 66 (AWS) Phablet SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	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	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.76	0.04	0	26	0421M	QPSK	1	50	5 mm	back	1:1	1.560	1.186	1.850	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	22.83	0.03	1	26	0421M	QPSK	50	25	5 mm	back	1:1	1.340	1.167	1.564	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.76	0.00	0	26	0421M	QPSK	1	50	4 mm	front	1:1	1.840	1.186	2.182	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.60	-0.04	0	26	0421M	QPSK	1	50	4 mm	front	1:1	1.780	1.230	2.189	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.5	23.64	0.00	0	26	0421M	QPSK	1	0	4 mm	front	1:1	1.700	1.219	2.072	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	22.83	-0.03	1	26	0421M	QPSK	50	25	4 mm	front	1:1	1.540	1.167	1.797	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	22.75	0.15	1	26	0421M	QPSK	100	0	4 mm	front	1:1	1.510	1.189	1.795	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.76	-0.09	0	13	0421M	QPSK	1	50	10 mm	bottom	1:1	1.130	1.186	1.340	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	22.83	-0.01	1	13	0421M	QPSK	50	25	10 mm	bottom	1:1	0.992	1.167	1.158	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.76	-0.02	0	26	0421M	QPSK	1	50	0 mm	right	1:1	0.435	1.186	0.516	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	22.83	0.04	1	26	0421M	QPSK	50	25	0 mm	right	1:1	0.361	1.167	0.421	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.76	-0.01	0	26	0421M	QPSK	1	50	0 mm	left	1:1	0.635	1.186	0.753	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	23.5	22.83	-0.01	1	26	0421M	QPSK	50	25	0 mm	left	1:1	0.539	1.167	0.629	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	19.90	0.02	0	27	0421M	QPSK	1	50	0 mm	back	1:1	1.570	1.148	1.802	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	19.86	0.00	0	27	0421M	QPSK	50	0	0 mm	back	1:1	1.670	1.159	1.936	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	19.90	-0.02	0	26	0421M	QPSK	1	50	0 mm	front	1:1	1.530	1.148	1.756	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	19.86	-0.02	0	26	0421M	QPSK	50	0	0 mm	front	1:1	1.630	1.159	1.889	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	19.90	-0.06	0	39	0421M	QPSK	1	50	0 mm	bottom	1:1	1.900	1.148	2.181	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.5	19.74	0.01	0	65	0421M	QPSK	1	99	0 mm	bottom	1:1	1.750	1.191	2.084	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.5	19.68	0.05	0	5	0421M	QPSK	1	50	0 mm	bottom	1:1	1.940	1.208	2.344	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	19.86	0.05	0	39	0421M	QPSK	50	0	0 mm	bottom	1:1	2.010	1.159	2.330	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.5	19.85	0.02	0	65	0421M	QPSK	50	25	0 mm	bottom	1:1	1.980	1.161	2.299	
1 CC Uplink	N/A	1775.00	132622	High	LTE Band 66 (AWS)	10	20.5	19.89	0.04	0	40	0421M	QPSK	25	0	0 mm	bottom	1:1	1.890	1.151	2.175	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.5	19.69	0.03	0	5	0421M	QPSK	50	0	0 mm	bottom	1:1	2.060	1.205	2.482	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.5	19.70	0.02	0	5	0421M	QPSK	50	25	0 mm	bottom	1:1	2.080	1.202	2.500	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	19.84	0.07	0	39	0421M	QPSK	100	0	0 mm	bottom	1:1	2.000	1.164	2.328	
2 CC Uplink CA_66B	PCC	1775.00	132622	High	LTE Band 66 (AWS)	10	20.5	20.05	0.03	0	40	0421M	QPSK	25	0	0 mm	bottom	1:1	1.910	1.109	2.118	
	SCC	1765.10	132523	High										25	25							
2 CC Uplink CA_66C	PCC	1770.00	132572	High	LTE Band 66 (AWS)	20	20.5	20.17	0.01	0	5	0421M	QPSK	50	0	0 mm	bottom	1:1	2.210	1.079	2.385	A98
	SCC	1750.20	132374	High										50	50							
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Phablet												
Spatial Peak										4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 10 grams												

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Table 11-78
LTE Band 25 (PCS) Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	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)			
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.5	24.03	-0.02	0	4	0520M	QPSK	1	0	5 mm	back	1:1	0.660	1.114	0.735	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.5	23.09	-0.06	1	4	0520M	QPSK	50	0	5 mm	back	1:1	0.603	1.099	0.663	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.5	24.03	0.18	0	2	0520M	QPSK	1	0	4 mm	front	1:1	0.947	1.114	1.055	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.5	23.09	-0.03	1	2	0520M	QPSK	50	0	4 mm	front	1:1	0.879	1.099	0.966	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.5	24.03	0.18	0	18	0520M	QPSK	1	0	10 mm	bottom	1:1	0.719	1.114	0.801	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.5	23.09	-0.14	1	18	0520M	QPSK	50	0	10 mm	bottom	1:1	0.575	1.099	0.632	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.5	24.03	0.05	0	3	0520M	QPSK	1	0	0 mm	right	1:1	0.362	1.114	0.403	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.5	23.09	0.16	1	3	0520M	QPSK	50	0	0 mm	right	1:1	0.288	1.099	0.317	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.5	24.03	-0.10	0	15	0520M	QPSK	1	0	0 mm	left	1:1	0.454	1.114	0.506	
1860.00	26140	Low	LTE Band 25 (PCS)	20	23.5	23.09	-0.05	1	15	0520M	QPSK	50	0	0 mm	left	1:1	0.320	1.099	0.352	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	19.99	0.13	0	18	0520M	QPSK	1	99	0 mm	back	1:1	1.180	1.125	1.328	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	20.04	0.12	0	18	0520M	QPSK	50	0	0 mm	back	1:1	1.290	1.112	1.434	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	19.99	-0.06	0	3	0520M	QPSK	1	99	0 mm	front	1:1	1.010	1.125	1.136	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	20.04	-0.09	0	3	0520M	QPSK	50	0	0 mm	front	1:1	1.080	1.112	1.201	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	19.99	0.14	0	41	0520M	QPSK	1	99	0 mm	bottom	1:1	1.690	1.125	1.901	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	20.04	0.08	0	41	0520M	QPSK	50	0	0 mm	bottom	1:1	1.890	1.112	2.102	A99
1882.50	26365	Mid	LTE Band 25 (PCS)	20	20.5	19.85	0.14	0	41	0520M	QPSK	50	25	0 mm	bottom	1:1	1.710	1.161	1.985	
1905.00	26590	High	LTE Band 25 (PCS)	20	20.5	19.90	0.16	0	41	0520M	QPSK	50	50	0 mm	bottom	1:1	1.670	1.148	1.917	
1860.00	26140	Low	LTE Band 25 (PCS)	20	20.5	19.93	0.00	0	41	0520M	QPSK	100	0	0 mm	bottom	1:1	1.820	1.140	2.075	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Phablet												
Spatial Peak								4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 10 grams												

FCC ID: A3LSMG996U	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by:
Document S/N:	Test Dates:	DUT Type:		Quality Manager
1M2009140143-01-R2.A3L	09/16/20 – 12/01/20	Portable Handset		Page 345 of 410

Table 11-79
LTE Band 30 Phablet SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	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)		
2310.00	27710	Mid	LTE Band 30	10	24.0	23.24	-0.02	0	0560M	QPSK	1	25	5 mm	back	1:1	0.945	1.191	1.125	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.30	-0.19	1	0560M	QPSK	25	0	5 mm	back	1:1	0.757	1.175	0.889	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.24	-0.15	0	0560M	QPSK	1	25	4 mm	front	1:1	0.828	1.191	0.986	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.30	-0.02	1	0560M	QPSK	25	0	4 mm	front	1:1	0.665	1.175	0.781	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.24	-0.10	0	0560M	QPSK	1	25	10 mm	bottom	1:1	1.060	1.191	1.262	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.30	-0.07	1	0560M	QPSK	25	0	10 mm	bottom	1:1	0.837	1.175	0.983	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.24	-0.12	0	0560M	QPSK	1	25	0 mm	right	1:1	0.078	1.191	0.093	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.30	-0.13	1	0560M	QPSK	25	0	0 mm	right	1:1	0.062	1.175	0.073	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.24	-0.08	0	0560M	QPSK	1	25	0 mm	left	1:1	0.316	1.191	0.376	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.30	-0.16	1	0560M	QPSK	25	0	0 mm	left	1:1	0.270	1.175	0.317	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.54	-0.17	0	0560M	QPSK	1	0	0 mm	back	1:1	1.070	1.112	1.190	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.56	-0.13	0	0560M	QPSK	25	12	0 mm	back	1:1	1.100	1.107	1.218	A100
2310.00	27710	Mid	LTE Band 30	10	20.0	19.54	-0.17	0	0560M	QPSK	1	0	0 mm	front	1:1	0.770	1.112	0.856	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.56	-0.12	0	0560M	QPSK	25	12	0 mm	front	1:1	0.780	1.107	0.863	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.54	0.03	0	0560M	QPSK	1	0	0 mm	bottom	1:1	0.803	1.112	0.893	
2310.00	27710	Mid	LTE Band 30	10	20.0	19.56	-0.02	0	0560M	QPSK	25	12	0 mm	bottom	1:1	0.799	1.107	0.884	
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 11-80
LTE Band 7 Phablet SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	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)		
2535.00	21100	Mid	LTE Band 7	20	24.5	23.73	-0.03	0	0579M	QPSK	1	99	5 mm	back	1:1	1.090	1.194	1.301	
2535.00	21100	Mid	LTE Band 7	20	23.5	22.91	0.01	1	0579M	QPSK	50	25	5 mm	back	1:1	0.871	1.146	0.998	
2535.00	21100	Mid	LTE Band 7	20	24.5	23.73	0.14	0	0579M	QPSK	1	99	4 mm	front	1:1	0.645	1.194	0.770	
2535.00	21100	Mid	LTE Band 7	20	23.5	22.91	0.10	1	0579M	QPSK	50	25	4 mm	front	1:1	0.523	1.146	0.599	
2535.00	21100	Mid	LTE Band 7	20	24.5	23.73	-0.02	0	0579M	QPSK	1	99	10 mm	bottom	1:1	0.373	1.194	0.445	
2535.00	21100	Mid	LTE Band 7	20	23.5	22.91	0.01	1	0579M	QPSK	50	25	10 mm	bottom	1:1	0.317	1.146	0.363	
2535.00	21100	Mid	LTE Band 7	20	24.5	23.73	-0.09	0	0579M	QPSK	1	99	0 mm	left	1:1	0.998	1.194	1.192	
2535.00	21100	Mid	LTE Band 7	20	23.5	22.91	-0.11	1	0579M	QPSK	50	25	0 mm	left	1:1	0.793	1.146	0.909	
2535.00	21100	Mid	LTE Band 7	20	20.0	19.44	-0.16	0	0579M	QPSK	1	50	0 mm	back	1:1	1.530	1.138	1.741	
2510.00	20850	Low	LTE Band 7	20	20.0	19.24	0.17	0	0579M	QPSK	50	25	0 mm	back	1:1	1.510	1.191	1.798	
2535.00	21100	Mid	LTE Band 7	20	20.0	19.42	-0.15	0	0579M	QPSK	50	25	0 mm	back	1:1	1.570	1.143	1.795	
2560.00	21350	High	LTE Band 7	20	20.0	19.33	-0.18	0	0579M	QPSK	50	25	0 mm	back	1:1	1.650	1.167	1.926	A101
2535.00	21100	Mid	LTE Band 7	20	20.0	19.44	-0.16	0	0579M	QPSK	1	50	0 mm	front	1:1	1.050	1.138	1.195	
2535.00	21100	Mid	LTE Band 7	20	20.0	19.42	-0.18	0	0579M	QPSK	50	25	0 mm	front	1:1	1.080	1.143	1.234	
2535.00	21100	Mid	LTE Band 7	20	20.0	19.44	-0.03	0	0579M	QPSK	1	50	0 mm	bottom	1:1	1.260	1.138	1.434	
2535.00	21100	Mid	LTE Band 7	20	20.0	19.42	0.11	0	0579M	QPSK	50	25	0 mm	bottom	1:1	1.310	1.143	1.497	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Phablet 4.0 W/kg (mW/g) averaged over 10 grams											

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Document S/N: 1M2009140143-01-R2.A3L	Test Dates: 09/16/20 – 12/01/20	DUT Type: Portable Handset	Page 346 of 410	

Table 11-81
LTE Band 41 Phablet 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]	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	2593.00	40620	Mid	LTE Band 41	20	25.0	24.24	-0.17	0	0414M	QPSK	1	50	5 mm	back	1:1.58	0.665	1.191	0.792
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.34	-0.13	1	0414M	QPSK	50	25	5 mm	back	1:1.58	0.529	1.164	0.616
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.24	0.12	0	0414M	QPSK	1	50	4 mm	front	1:1.58	0.437	1.191	0.520
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.34	0.19	1	0414M	QPSK	50	25	4 mm	front	1:1.58	0.351	1.164	0.409
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.24	0.01	0	0414M	QPSK	1	50	10 mm	bottom	1:1.58	0.274	1.191	0.326
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.34	-0.13	1	0414M	QPSK	50	25	10 mm	bottom	1:1.58	0.215	1.164	0.250
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	25.0	24.24	-0.06	0	0414M	QPSK	1	50	0 mm	left	1:1.58	0.721	1.191	0.859
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.34	-0.06	1	0414M	QPSK	50	25	0 mm	left	1:1.58	0.593	1.164	0.690
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	23.0	22.10	-0.19	0	0414M	QPSK	1	0	0 mm	back	1:1.58	1.580	1.230	1.943
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	23.0	22.24	-0.19	0	0414M	QPSK	1	50	0 mm	back	1:1.58	1.660	1.191	1.977
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	23.0	22.34	-0.14	0	0414M	QPSK	1	50	0 mm	back	1:1.58	1.850	1.164	2.153
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.09	-0.12	0	0414M	QPSK	1	0	0 mm	back	1:1.58	1.800	1.233	2.219
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.14	-0.10	0	0414M	QPSK	1	50	0 mm	back	1:1.58	1.850	1.219	2.255
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.21	-0.08	0	0414M	QPSK	1	50	0 mm	back	1:1.58	1.840	1.199	2.206
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	23.0	22.20	-0.14	0	0414M	QPSK	50	25	0 mm	back	1:1.58	1.540	1.202	1.851
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	23.0	22.27	0.01	0	0414M	QPSK	50	25	0 mm	back	1:1.58	1.580	1.183	1.869
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	23.0	22.35	-0.16	0	0414M	QPSK	50	25	0 mm	back	1:1.58	1.910	1.161	2.218
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.34	0.14	0	0414M	QPSK	50	25	0 mm	back	1:1.58	1.930	1.164	2.247
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.25	-0.18	0	0414M	QPSK	50	25	0 mm	back	1:1.58	1.890	1.189	2.247
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.28	-0.14	0	0414M	QPSK	100	0	0 mm	back	1:1.58	1.880	1.180	2.218
1 CC Uplink - Power Class 2	N/A	2636.50	41055	Mid-High	LTE Band 41	20	24.6	23.56	-0.18	0	0414M	QPSK	1	0	0 mm	back	1:2.31	1.780	1.271	2.262
1 CC Uplink - Power Class 2	N/A	2636.50	41055	Mid-High	LTE Band 41	20	24.6	23.77	-0.08	0	0414M	QPSK	1	50	0 mm	back	1:2.31	1.770	1.211	2.143
2 CC Uplink - Power Class 3	PCC	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.24	-0.11	0	0414M	QPSK	1	0	0 mm	back	1:1.58	1.840	1.191	2.191
	SCC	2616.70	40857	Mid-High								QPSK	1	99						
2 CC Uplink - Power Class 2	PCC	2636.50	41055	Mid-High	LTE Band 41	20	24.6	23.73	-0.13	0	0414M	QPSK	1	0	0 mm	back	1:2.31	1.910	1.222	2.334
	SCC	2616.70	40857	Mid-High								QPSK	1	99						
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	23.0	22.34	0.18	0	0414M	QPSK	1	50	0 mm	front	1:1.58	1.000	1.164	1.164
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	23.0	22.35	0.19	0	0414M	QPSK	50	25	0 mm	front	1:1.58	1.030	1.161	1.196
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	23.0	22.10	0.12	0	0414M	QPSK	1	0	0 mm	bottom	1:1.58	1.520	1.230	1.870
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	23.0	22.24	-0.08	0	0414M	QPSK	1	50	0 mm	bottom	1:1.58	1.580	1.191	1.882
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	23.0	22.34	-0.18	0	0414M	QPSK	1	50	0 mm	bottom	1:1.58	1.700	1.164	1.979
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.14	-0.19	0	0414M	QPSK	1	50	0 mm	bottom	1:1.58	1.730	1.219	2.109
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.21	-0.14	0	0414M	QPSK	1	50	0 mm	bottom	1:1.58	1.700	1.199	2.038
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	23.0	22.20	0.10	0	0414M	QPSK	50	25	0 mm	bottom	1:1.58	1.540	1.202	1.851
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	23.0	22.27	-0.18	0	0414M	QPSK	50	25	0 mm	bottom	1:1.58	1.640	1.183	1.940
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	23.0	22.35	0.10	0	0414M	QPSK	50	25	0 mm	bottom	1:1.58	1.750	1.161	2.032
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.34	0.17	0	0414M	QPSK	50	25	0 mm	bottom	1:1.58	1.850	1.164	2.153
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.25	0.18	0	0414M	QPSK	50	25	0 mm	bottom	1:1.58	1.770	1.189	2.105
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	23.0	22.28	0.16	0	0414M	QPSK	100	0	0 mm	bottom	1:1.58	1.820	1.180	2.148
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Phablet 4.0 W/kg (mW/g) averaged over 10 grams										

FCC ID: A3LSMG996U	 Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1M2009140143-01-R2.A3L	Test Dates: 09/16/20 – 12/01/20	DUT Type: Portable Handset		Page 347 of 410

Table 11-82
NR Band n66 Antenna A Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g) (W/kg)	Scaling Factor	Reported SAR (10g) (W/kg)	Plot #	
MHz	Ch.																				
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	24.62	-0.02	0	26	0417M	DFT-S-OFDM	QPSK	1	108	5 mm	back	1:1	1.810	1.091	1.975	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	24.49	-0.01	0	26	0417M	DFT-S-OFDM	QPSK	108	54	5 mm	back	1:1	1.790	1.125	2.014	
1745.00	349000	Md	NR Band n66 (AWS)	40	24.0	23.55	0.00	1	26	0417M	DFT-S-OFDM	QPSK	216	0	5 mm	back	1:1	1.420	1.109	1.575	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	24.62	0.09	0	26	0417M	DFT-S-OFDM	QPSK	1	108	4 mm	front	1:1	2.220	1.091	2.422	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	24.49	0.01	0	26	0417M	DFT-S-OFDM	QPSK	108	54	4 mm	front	1:1	1.940	1.125	2.183	
1745.00	349000	Md	NR Band n66 (AWS)	40	24.0	23.55	0.02	1	26	0417M	DFT-S-OFDM	QPSK	216	0	4 mm	front	1:1	1.550	1.109	1.719	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	24.62	0.01	0	13	0417M	DFT-S-OFDM	QPSK	1	108	10 mm	bottom	1:1	1.350	1.091	1.473	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	24.49	-0.08	0	13	0417M	DFT-S-OFDM	QPSK	108	54	10 mm	bottom	1:1	1.320	1.125	1.485	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	24.62	-0.02	0	26	0417M	DFT-S-OFDM	QPSK	1	108	0 mm	right	1:1	0.429	1.091	0.468	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	24.49	0.00	0	26	0417M	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.424	1.125	0.477	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	24.62	0.06	0	26	0417M	DFT-S-OFDM	QPSK	1	108	0 mm	left	1:1	0.791	1.091	0.863	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	24.49	0.05	0	26	0417M	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	0.775	1.125	0.872	
1745.00	349000	Md	NR Band n66 (AWS)	40	20.5	20.50	-0.10	0	27	0417M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	1.760	1.000	1.760	
1745.00	349000	Md	NR Band n66 (AWS)	40	20.5	20.50	-0.03	0	27	0417M	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	1.830	1.000	1.830	
1745.00	349000	Md	NR Band n66 (AWS)	40	20.5	20.50	-0.02	0	26	0417M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	1.790	1.000	1.790	
1745.00	349000	Md	NR Band n66 (AWS)	40	20.5	20.50	-0.02	0	26	0417M	DFT-S-OFDM	QPSK	108	0	0 mm	front	1:1	1.810	1.000	1.810	
1745.00	349000	Md	NR Band n66 (AWS)	40	20.5	20.50	0.03	0	65	0417M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	2.210	1.000	2.210	
1745.00	349000	Md	NR Band n66 (AWS)	40	20.5	20.50	0.04	0	65	0417M	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	2.290	1.000	2.290	AI03
1745.00	349000	Md	NR Band n66 (AWS)	40	20.5	20.49	0.02	0	39	0417M	DFT-S-OFDM	QPSK	216	0	0 mm	bottom	1:1	2.240	1.002	2.244	
1745.00	349000	Md	NR Band n66 (AWS)	40	20.5	20.47	0.02	0	65	0417M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	2.250	1.007	2.266	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Phablet 4.0 W/kg (mW/g) averaged over 10 grams													

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Table 11-83
NR Band n25 Antenna A Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	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	25.3	24.86	0.08	0	4	0408M	DFT-S-OFDM	QPSK	1	1	5 mm	back	1:1	1.070	1.107	1.184	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.3	24.68	0.10	0	4	0408M	DFT-S-OFDM	QPSK	108	54	5 mm	back	1:1	1.010	1.153	1.165	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.3	24.86	0.01	0	2	0408M	DFT-S-OFDM	QPSK	1	1	4 mm	front	1:1	1.140	1.107	1.262	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.3	24.68	-0.01	0	2	0408M	DFT-S-OFDM	QPSK	108	54	4 mm	front	1:1	1.110	1.153	1.280	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.3	24.86	0.02	0	18	0408M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	1.470	1.107	1.627	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.3	24.68	-0.05	0	18	0408M	DFT-S-OFDM	QPSK	108	54	10 mm	bottom	1:1	1.510	1.153	1.741	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.3	24.86	-0.12	0	3	0408M	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.327	1.107	0.362	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.3	24.68	-0.07	0	3	0408M	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.330	1.153	0.380	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.3	24.86	-0.05	0	15	0408M	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.548	1.107	0.607	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.3	24.68	-0.09	0	15	0408M	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	0.495	1.153	0.571	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.50	0.14	0	18	0408M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	1.090	1.000	1.090	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.39	0.19	0	18	0408M	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	1.100	1.026	1.129	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.50	0.04	0	3	0408M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	0.789	1.000	0.789	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.39	-0.09	0	3	0408M	DFT-S-OFDM	QPSK	108	0	0 mm	front	1:1	0.813	1.026	0.834	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.50	0.20	0	41	0408M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.830	1.000	1.830	AI04
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.39	0.15	0	41	0408M	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	1.750	1.026	1.796	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	20.47	0.14	0	41	0408M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.740	1.007	1.752	
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 11-84
NR Band n30 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
2310.00	462000	Mid	NR Band n30	10	24.0	23.70	-0.15	0	0419M	DFT-S-OFDM	QPSK	1	26	5 mm	back	1:1	1.340	1.072	1.436	
2310.00	462000	Mid	NR Band n30	10	24.0	23.52	-0.11	0	0419M	DFT-S-OFDM	QPSK	25	14	5 mm	back	1:1	1.320	1.117	1.474	
2310.00	462000	Mid	NR Band n30	10	24.0	23.70	0.00	0	0419M	DFT-S-OFDM	QPSK	1	26	4 mm	front	1:1	0.994	1.072	1.066	
2310.00	462000	Mid	NR Band n30	10	24.0	23.52	0.00	0	0419M	DFT-S-OFDM	QPSK	25	14	4 mm	front	1:1	0.979	1.117	1.094	
2310.00	462000	Mid	NR Band n30	10	24.0	23.70	0.03	0	0419M	DFT-S-OFDM	QPSK	1	26	10 mm	bottom	1:1	0.971	1.072	1.041	
2310.00	462000	Mid	NR Band n30	10	24.0	23.52	0.08	0	0419M	DFT-S-OFDM	QPSK	25	14	10 mm	bottom	1:1	0.977	1.117	1.091	
2310.00	462000	Mid	NR Band n30	10	24.0	23.70	0.20	0	0419M	DFT-S-OFDM	QPSK	1	26	0 mm	right	1:1	0.079	1.072	0.085	
2310.00	462000	Mid	NR Band n30	10	24.0	23.52	-0.08	0	0419M	DFT-S-OFDM	QPSK	25	14	0 mm	right	1:1	0.076	1.117	0.085	
2310.00	462000	Mid	NR Band n30	10	24.0	23.70	0.12	0	0419M	DFT-S-OFDM	QPSK	1	26	0 mm	left	1:1	0.414	1.072	0.444	
2310.00	462000	Mid	NR Band n30	10	24.0	23.52	-0.12	0	0419M	DFT-S-OFDM	QPSK	25	14	0 mm	left	1:1	0.408	1.117	0.456	
2310.00	462000	Mid	NR Band n30	10	20.0	19.59	-0.17	0	0419M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	1.510	1.099	1.659	AI05
2310.00	462000	Mid	NR Band n30	10	20.0	19.57	0.00	0	0419M	DFT-S-OFDM	QPSK	25	27	0 mm	back	1:1	1.440	1.104	1.590	
2310.00	462000	Mid	NR Band n30	10	20.0	19.64	-0.10	0	0419M	CP-OFDM	QPSK	1	1	0 mm	back	1:1	1.500	1.086	1.629	
2310.00	462000	Mid	NR Band n30	10	20.0	19.59	-0.14	0	0419M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	0.753	1.099	0.828	
2310.00	462000	Mid	NR Band n30	10	20.0	19.57	-0.12	0	0419M	DFT-S-OFDM	QPSK	25	27	0 mm	front	1:1	0.723	1.104	0.798	
2310.00	462000	Mid	NR Band n30	10	20.0	19.59	-0.12	0	0419M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.985	1.099	1.083	
2310.00	462000	Mid	NR Band n30	10	20.0	19.57	-0.15	0	0419M	DFT-S-OFDM	QPSK	25	27	0 mm	bottom	1:1	0.934	1.104	1.031	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Phablet 4.0 W/kg (mW/g) averaged over 10 grams												

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Table 11-85
NR Band n41 Antenna B Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
2592.99	518598	Mid	NR Band n41	100	19.0	18.48	0.03	0	0311M	DFT-S-OFDM	QPSK	1	137	5 mm	back	1:1	0.301	1.127	0.339	
2592.99	518598	Mid	NR Band n41	100	19.0	18.28	0.06	0	0311M	DFT-S-OFDM	QPSK	135	69	5 mm	back	1:1	0.317	1.180	0.374	
2592.99	518598	Mid	NR Band n41	100	19.0	18.48	-0.05	0	0311M	DFT-S-OFDM	QPSK	1	137	4 mm	front	1:1	0.266	1.127	0.300	
2592.99	518598	Mid	NR Band n41	100	19.0	18.28	0.00	0	0311M	DFT-S-OFDM	QPSK	135	69	4 mm	front	1:1	0.261	1.180	0.308	
2592.99	518598	Mid	NR Band n41	100	19.0	18.48	0.06	0	0311M	DFT-S-OFDM	QPSK	1	137	10 mm	bottom	1:1	0.099	1.127	0.112	
2592.99	518598	Mid	NR Band n41	100	19.0	18.28	0.02	0	0311M	DFT-S-OFDM	QPSK	135	69	10 mm	bottom	1:1	0.097	1.180	0.114	
2592.99	518598	Mid	NR Band n41	100	19.0	18.48	-0.05	0	0311M	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.236	1.127	0.266	
2592.99	518598	Mid	NR Band n41	100	19.0	18.28	-0.06	0	0311M	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.230	1.180	0.271	
2592.99	518598	Mid	NR Band n41	100	15.0	14.29	-0.18	0	0311M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.363	1.178	0.428	
2592.99	518598	Mid	NR Band n41	100	15.0	14.25	-0.16	0	0311M	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.359	1.189	0.427	
2592.99	518598	Mid	NR Band n41	100	15.0	14.29	-0.04	0	0311M	DFT-S-OFDM	QPSK	1	137	0 mm	front	1:1	0.300	1.178	0.353	
2592.99	518598	Mid	NR Band n41	100	15.0	14.25	-0.08	0	0311M	DFT-S-OFDM	QPSK	135	0	0 mm	front	1:1	0.292	1.189	0.347	
2592.99	518598	Mid	NR Band n41	100	15.0	14.29	0.05	0	0311M	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.371	1.178	0.437	
2592.99	518598	Mid	NR Band n41	100	15.0	14.25	-0.06	0	0311M	DFT-S-OFDM	QPSK	135	0	0 mm	bottom	1:1	0.384	1.189	0.457	
2592.99	518598	Mid	NR Band n41	100	15.0	14.06	-0.02	0	0311M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.398	1.242	0.494	A106
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 11-86
NR Band n77 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																(W/kg)	(W/kg)		
3750.00	650000	Low	NR Band n77	100	20.0	19.71	-0.06	0	0870M	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	1.069	1.030	1.101	
3930.00	662000	High	NR Band n77	100	20.0	19.57	0.20	0	0870M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.104	0.936	1.033	
3750.00	650000	Low	NR Band n77	100	20.0	19.92	0.14	0	0870M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.019	1.100	1.121	
3930.00	662000	High	NR Band n77	100	20.0	19.52	0.16	0	0870M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.117	0.925	1.033	
3750.00	650000	Low	NR Band n77	100	19.0	18.72	0.11	1	0870M	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	1.067	0.852	0.909	
3750.00	650000	Low	NR Band n77	100	20.0	19.71	-0.13	0	0870M	DFT-S-OFDM	QPSK	1	271	0 mm	front	1:1	1.069	1.780	1.903	
3930.00	662000	High	NR Band n77	100	20.0	19.57	-0.13	0	0870M	DFT-S-OFDM	QPSK	1	137	0 mm	front	1:1	1.104	1.660	1.833	
3750.00	650000	Low	NR Band n77	100	20.0	19.92	-0.11	0	0870M	DFT-S-OFDM	QPSK	135	69	0 mm	front	1:1	1.019	1.840	1.875	
3930.00	662000	High	NR Band n77	100	20.0	19.52	-0.11	0	0870M	DFT-S-OFDM	QPSK	135	69	0 mm	front	1:1	1.117	1.660	1.854	
3750.00	650000	Low	NR Band n77	100	19.0	18.72	-0.12	1	0870M	DFT-S-OFDM	QPSK	270	0	0 mm	front	1:1	1.067	1.200	1.280	
3750.00	650000	Low	NR Band n77	100	20.0	19.71	0.06	0	0870M	DFT-S-OFDM	QPSK	1	271	0 mm	right	1:1	1.069	2.820	3.015	
3930.00	662000	High	NR Band n77	100	20.0	19.57	-0.03	0	0870M	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	1.104	2.780	3.069	
3750.00	650000	Low	NR Band n77	100	20.0	19.92	-0.06	0	0870M	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	1.019	3.090	3.149	A107
3930.00	662000	High	NR Band n77	100	20.0	19.52	0.06	0	0870M	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	1.117	2.810	3.139	
3750.00	650000	Low	NR Band n77	100	19.0	18.72	-0.11	1	0870M	DFT-S-OFDM	QPSK	270	0	0 mm	right	1:1	1.067	2.420	2.582	
3750.00	650000	Low	NR Band n77	100	18.5	17.96	-0.16	1.5	0870M	CP-OFDM	QPSK	1	1	0 mm	right	1:1	1.132	2.090	2.366	
3750.00	650000	Low	NR Band n77	100	20.0	19.92	0.06	0	0870M	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	1.019	3.040	3.098	
3930.00	662000	High	NR Band n77	100	20.0	19.52	0.06	0	0870M	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	1.117	2.790	3.116	
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: Blue entries represent variability measurements.

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Table 11-87
WLAN SISO 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)	
5300	60	802.11a	OFDM	20	18.5	18.44	-0.16	0 mm	1	0287M	6	back	98.8	2.043	0.361	1.014	1.012	0.370	
5300	60	802.11a	OFDM	20	18.5	18.44	0.00	0 mm	1	0287M	6	front	98.8	9.624	1.110	1.014	1.012	1.139	
5300	60	802.11a	OFDM	20	18.5	18.44	0.15	0 mm	1	0287M	6	left	98.8	29.221	1.840	1.014	1.012	1.888	
5290	58	802.11ac	OFDM	80	11.0	10.78	0.00	0 mm	1	0287M	29.3	left	94.6	5.525	0.438	1.052	1.057	0.487	
5260	52	802.11a	OFDM	20	17.5	17.49	-0.13	0 mm	2	0287M	6	back	98.8	14.865	1.990	1.002	1.012	2.018	
5280	56	802.11a	OFDM	20	17.5	16.84	0.19	0 mm	2	0287M	6	back	98.8	12.001	1.510	1.164	1.012	1.779	
5300	60	802.11a	OFDM	20	17.5	16.98	-0.14	0 mm	2	0287M	6	back	98.8	11.332	1.470	1.127	1.012	1.677	
5290	58	802.11ac	OFDM	80	11.0	10.77	-0.18	0 mm	2	0287M	29.3	back	94.6	3.880	0.566	1.054	1.057	0.631	
5260	52	802.11a	OFDM	20	17.5	17.49	0.13	0 mm	2	0287M	6	front	98.8	1.122	0.191	1.002	1.012	0.194	
5260	52	802.11a	OFDM	20	17.5	17.49	0.16	0 mm	2	0287M	6	top	98.8	1.787	0.274	1.002	1.012	0.278	
5260	52	802.11a	OFDM	20	17.5	17.49	0.00	0 mm	2	0287M	6	left	98.8	0.561	0.068	1.002	1.012	0.069	
5620	124	802.11a	OFDM	20	18.5	18.46	0.17	0 mm	1	0287M	6	back	98.8	1.914	0.314	1.009	1.012	0.321	
5620	124	802.11a	OFDM	20	18.5	18.46	0.00	0 mm	1	0287M	6	front	98.8	12.363	1.030	1.009	1.012	1.052	
5520	104	802.11a	OFDM	20	18.5	18.31	-0.01	0 mm	1	0287M	6	left	98.8	27.933	1.720	1.045	1.012	1.819	
5600	120	802.11a	OFDM	20	18.5	18.38	0.17	0 mm	1	0287M	6	left	98.8	30.930	2.110	1.028	1.012	2.195	
5620	124	802.11a	OFDM	20	18.5	18.46	0.19	0 mm	1	0287M	6	left	98.8	36.626	2.090	1.009	1.012	2.134	
5720	144	802.11a	OFDM	20	18.5	18.28	0.19	0 mm	1	0287M	6	left	98.8	38.574	2.170	1.052	1.012	2.310	A108
5530	106	802.11ac	OFDM	80	11.0	10.84	0.05	0 mm	1	0287M	29.3	left	94.6	6.801	0.515	1.038	1.057	0.565	
5720	144	802.11a	OFDM	20	17.5	17.37	-0.13	0 mm	2	0287M	6	back	98.8	11.319	1.330	1.030	1.012	1.386	
5530	106	802.11ac	OFDM	80	11.0	10.65	0.13	0 mm	2	0287M	29.3	back	94.6	3.024	0.406	1.084	1.057	0.465	
5720	144	802.11a	OFDM	20	17.5	17.37	0.00	0 mm	2	0287M	6	front	98.8	1.007	0.137	1.030	1.012	0.143	
5720	144	802.11a	OFDM	20	17.5	17.37	0.00	0 mm	2	0287M	6	top	98.8	1.155	0.181	1.030	1.012	0.189	
5720	144	802.11a	OFDM	20	17.5	17.37	0.00	0 mm	2	0287M	6	left	98.8	0.890	0.052	1.030	1.012	0.054	
5600	120	802.11a	OFDM	20	18.5	18.38	0.10	0 mm	1	0287M	6	left	98.8	34.180	2.060	1.028	1.012	2.143	
5720	144	802.11a	OFDM	20	18.5	18.28	0.19	0 mm	1	0287M	6	left	98.8	51.302	2.080	1.052	1.012	2.214	
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: Blue entries represent variability measurements.

Table 11-88
WLAN MIMO Phablet SAR for conditions with 5G NR(FR2) and/or 2.4 GHz WLAN

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)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5290	58	802.11ac	OFDM	80	11.0	10.78	11.0	10.77	0.15	0 mm	MIMO	0287M	58.5	back	91.3	3.707	0.450	1.054	1.095	0.519	
5290	58	802.11ac	OFDM	80	11.0	10.78	11.0	10.77	0.16	0 mm	MIMO	0287M	58.5	left	91.3	7.991	0.524	1.054	1.095	0.605	
5530	106	802.11ac	OFDM	80	11.0	10.84	11.0	10.65	0.11	0 mm	MIMO	0287M	58.5	back	91.3	3.733	0.444	1.084	1.095	0.527	
5530	106	802.11ac	OFDM	80	11.0	10.84	11.0	10.65	0.00	0 mm	MIMO	0287M	58.5	left	91.3	6.639	0.418	1.084	1.095	0.496	
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 14.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 11.0 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 manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB Publication 648474 D04v01r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was ≤ 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were required.
8. 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 13 for variability analysis.
9. 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).
10. 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.
11. This device supports dynamic antenna tuning for some bands. Per FCC Guidance, SAR was measured according to the normally required SAR measurement configurations with tuner active. The auto-tune state determined by the device was verified before and after each SAR measurement and is listed in tables above. Please see Section 14 for supplemental data.
12. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information).
13. 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.
14. This device uses Qualcomm Smart Transmit for 2G/3G/4G/5G operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).

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.

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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.
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.
6. CDMA 1X Advanced technology was not required for SAR since the maximum allowed output powers for 1X Advanced was not more than 0.25 dB higher than the maximum powers for 1X.

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 and MCC=001 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 1g SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for LTE B41/48, and > 0.4 for NR n77, 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.

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7. 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 FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions. Please see Section 14 for linearity results.
8. For LTE Band 5, LTE Band 66, LTE Band 48, and 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.
9. This device supports LTE Band 41 ULCA active with Power Class 2. Highest SAR test configuration for each exposure condition in Power Class 3 with ULCA active was repeated with Power Class 2 with ULCA active.

NR Notes:

1. NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. Per FCC Guidance, the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency as the NR test results. Additional tuner states were evaluated per April 2019 TCBC Workshop Guidance. Please see Section 14 for supplemental data.
6. 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.

WLAN Notes:

1. For held-to-ear, and 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/ax) 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. 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.

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5. 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.
6. 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.
7. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

12.1 Introduction

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

12.2 Simultaneous Transmission Procedures

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

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

(*) For test positions that were not required to be evaluated for WLAN SAR per FCC KDB publication 248227, the worst case WLAN SAR result for the applicable exposure conditions was used for simultaneous transmission analysis.

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

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12.3 Head SAR Simultaneous Transmission Analysis

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

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Head SAR	CDMA BC10 (§90S)	0.312	0.408	0.265	0.720	0.577	0.985
	CDMA BC0 (§22H)	0.240	0.408	0.265	0.648	0.505	0.913
	PCS CDMA	0.188	0.408	0.265	0.596	0.453	0.861
	GSM 850	0.163	0.408	0.265	0.571	0.428	0.836
	GSM 1900	0.087	0.408	0.265	0.495	0.352	0.760
	UMTS 850	0.230	0.408	0.265	0.638	0.495	0.903
	UMTS 1750	0.194	0.408	0.265	0.602	0.459	0.867
	UMTS 1900	0.183	0.408	0.265	0.591	0.448	0.856
	LTE Band 71	0.092	0.408	0.265	0.500	0.357	0.765
	LTE Band 12	0.154	0.408	0.265	0.562	0.419	0.827
	LTE Band 13	0.165	0.408	0.265	0.573	0.430	0.838
	LTE Band 14	0.200	0.408	0.265	0.608	0.465	0.873
	LTE Band 5 (Cell)	0.210	0.408	0.265	0.618	0.475	0.883
	LTE Band 26 (Cell)	0.219	0.408	0.265	0.627	0.484	0.892
	LTE Band 66 (AWS)	0.244	0.408	0.265	0.652	0.509	0.917
	LTE Band 25 (PCS)	0.162	0.408	0.265	0.570	0.427	0.835
	LTE Band 30	0.050	0.408	0.265	0.458	0.315	0.723
	LTE Band 7	0.068	0.408	0.265	0.476	0.333	0.741
	LTE Band 48	0.503	0.408	0.265	0.911	0.768	1.176
	LTE Band 41	0.099	0.408	0.265	0.507	0.364	0.772
	NR Band n71	0.093	0.408	0.265	0.501	0.358	0.766
	NR Band n12	0.135	0.408	0.265	0.543	0.400	0.808
	NR Band n5 (Cell)	0.175	0.408	0.265	0.583	0.440	0.848
	NR Band n66 (AWS)	0.448	0.408	0.265	0.856	0.713	1.121
	NR Band n25 (PCS)	0.327	0.408	0.265	0.735	0.592	1.000
	NR Band n30	0.039	0.408	0.265	0.447	0.304	0.712
	NR Band n41	0.647	0.408	0.265	1.055	0.912	1.320
	NR Band n77	0.622	0.408	0.265	1.030	0.887	1.295

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

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Head SAR	CDMA BC10 (\$90S)	0.312	0.510	0.274	0.822	0.586	1.096
	CDMA BC0 (\$22H)	0.240	0.510	0.274	0.750	0.514	1.024
	PCS CDMA	0.188	0.510	0.274	0.698	0.462	0.972
	GSM 850	0.163	0.510	0.274	0.673	0.437	0.947
	GSM 1900	0.087	0.510	0.274	0.597	0.361	0.871
	UMTS 850	0.230	0.510	0.274	0.740	0.504	1.014
	UMTS 1750	0.194	0.510	0.274	0.704	0.468	0.978
	UMTS 1900	0.183	0.510	0.274	0.693	0.457	0.967
	LTE Band 71	0.092	0.510	0.274	0.602	0.366	0.876
	LTE Band 12	0.154	0.510	0.274	0.664	0.428	0.938
	LTE Band 13	0.165	0.510	0.274	0.675	0.439	0.949
	LTE Band 14	0.200	0.510	0.274	0.710	0.474	0.984
	LTE Band 5 (Cell)	0.210	0.510	0.274	0.720	0.484	0.994
	LTE Band 26 (Cell)	0.219	0.510	0.274	0.729	0.493	1.003
	LTE Band 66 (AWS)	0.244	0.510	0.274	0.754	0.518	1.028
	LTE Band 25 (PCS)	0.162	0.510	0.274	0.672	0.436	0.946
	LTE Band 30	0.050	0.510	0.274	0.560	0.324	0.834
	LTE Band 7	0.068	0.510	0.274	0.578	0.342	0.852
	LTE Band 48	0.503	0.510	0.274	1.013	0.777	1.287
	LTE Band 41	0.099	0.510	0.274	0.609	0.373	0.883
	NR Band n71	0.093	0.510	0.274	0.603	0.367	0.877
	NR Band n12	0.135	0.510	0.274	0.645	0.409	0.919
	NR Band n5 (Cell)	0.175	0.510	0.274	0.685	0.449	0.959
	NR Band n66 (AWS)	0.448	0.510	0.274	0.958	0.722	1.232
	NR Band n25 (PCS)	0.327	0.510	0.274	0.837	0.601	1.111
	NR Band n30	0.039	0.510	0.274	0.549	0.313	0.823
	NR Band n41	0.647	0.510	0.274	1.157	0.921	1.431
	NR Band n77	0.622	0.510	0.274	1.132	0.896	1.406

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

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO at 12 dBm SAR (W/kg)	5 GHz WLAN MIMO at 12 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	CDMA BC10 (\$90S)	0.312	0.220	0.643	1.175
	CDMA BC0 (\$22H)	0.240	0.220	0.643	1.103
	PCS CDMA	0.188	0.220	0.643	1.051
	GSM 850	0.163	0.220	0.643	1.026
	GSM 1900	0.087	0.220	0.643	0.950
	UMTS 850	0.230	0.220	0.643	1.093
	UMTS 1750	0.194	0.220	0.643	1.057
	UMTS 1900	0.183	0.220	0.643	1.046
	LTE Band 71	0.092	0.220	0.643	0.955
	LTE Band 12	0.154	0.220	0.643	1.017
	LTE Band 13	0.165	0.220	0.643	1.028
	LTE Band 14	0.200	0.220	0.643	1.063
	LTE Band 5 (Cell)	0.210	0.220	0.643	1.073
	LTE Band 26 (Cell)	0.219	0.220	0.643	1.082
	LTE Band 66 (AWS)	0.244	0.220	0.643	1.107
	LTE Band 25 (PCS)	0.162	0.220	0.643	1.025
	LTE Band 30	0.050	0.220	0.643	0.913
	LTE Band 7	0.068	0.220	0.643	0.931
	LTE Band 48	0.503	0.220	0.643	1.366
	LTE Band 41	0.099	0.220	0.643	0.962
	NR Band n71	0.093	0.220	0.643	0.956
	NR Band n12	0.135	0.220	0.643	0.998
	NR Band n5 (Cell)	0.175	0.220	0.643	1.038
	NR Band n66 (AWS)	0.448	0.220	0.643	1.311
	NR Band n25 (PCS)	0.327	0.220	0.643	1.190
	NR Band n30	0.039	0.220	0.643	0.902
	NR Band n41	0.647	0.220	0.643	1.510
	NR Band n77	0.622	0.220	0.643	1.485

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

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	CDMA BC10 (§90S)	0.312	0.530	0.842
	CDMA BC0 (§22H)	0.240	0.530	0.770
	PCS CDMA	0.188	0.530	0.718
	GSM 850	0.163	0.530	0.693
	GSM 1900	0.087	0.530	0.617
	UMTS 850	0.230	0.530	0.760
	UMTS 1750	0.194	0.530	0.724
	UMTS 1900	0.183	0.530	0.713
	LTE Band 71	0.092	0.530	0.622
	LTE Band 12	0.154	0.530	0.684
	LTE Band 13	0.165	0.530	0.695
	LTE Band 14	0.200	0.530	0.730
	LTE Band 5 (Cell)	0.210	0.530	0.740
	LTE Band 26 (Cell)	0.219	0.530	0.749
	LTE Band 66 (AWS)	0.244	0.530	0.774
	LTE Band 25 (PCS)	0.162	0.530	0.692
	LTE Band 30	0.050	0.530	0.580
	LTE Band 7	0.068	0.530	0.598
	LTE Band 48	0.503	0.530	1.033
	LTE Band 41	0.099	0.530	0.629
	NR Band n71	0.093	0.530	0.623
	NR Band n12	0.135	0.530	0.665
	NR Band n5 (Cell)	0.175	0.530	0.705
	NR Band n66 (AWS)	0.448	0.530	0.978
	NR Band n25 (PCS)	0.327	0.530	0.857
	NR Band n30	0.039	0.530	0.569
	NR Band n41	0.647	0.530	1.177
	NR Band n77	0.622	0.530	1.152

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

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Head SAR	CDMA BC10 (§90S)	0.312	0.530	0.510	0.274	1.352	1.116
	CDMA BC0 (§22H)	0.240	0.530	0.510	0.274	1.280	1.044
	PCS CDMA	0.188	0.530	0.510	0.274	1.228	0.992
	GSM 850	0.163	0.530	0.510	0.274	1.203	0.967
	GSM 1900	0.087	0.530	0.510	0.274	1.127	0.891
	UMTS 850	0.230	0.530	0.510	0.274	1.270	1.034
	UMTS 1750	0.194	0.530	0.510	0.274	1.234	0.998
	UMTS 1900	0.183	0.530	0.510	0.274	1.223	0.987
	LTE Band 71	0.092	0.530	0.510	0.274	1.132	0.896
	LTE Band 12	0.154	0.530	0.510	0.274	1.194	0.958
	LTE Band 13	0.165	0.530	0.510	0.274	1.205	0.969
	LTE Band 14	0.200	0.530	0.510	0.274	1.240	1.004
	LTE Band 5 (Cell)	0.210	0.530	0.510	0.274	1.250	1.014
	LTE Band 26 (Cell)	0.219	0.530	0.510	0.274	1.259	1.023
	LTE Band 66 (AWS)	0.244	0.530	0.510	0.274	1.284	1.048
	LTE Band 25 (PCS)	0.162	0.530	0.510	0.274	1.202	0.966
	LTE Band 30	0.050	0.530	0.510	0.274	1.090	0.854
	LTE Band 7	0.068	0.530	0.510	0.274	1.108	0.872
	LTE Band 48	0.503	0.530	0.510	0.274	1.543	1.307
	LTE Band 41	0.099	0.530	0.510	0.274	1.139	0.903
Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 at 10 dBm SAR (W/kg)	5 GHz WLAN Ant 2 at 10 dBm SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Head SAR	NR Band n71	0.093	0.530	0.271	0.107	0.894	0.730
	NR Band n12	0.135	0.530	0.271	0.107	0.936	0.772
	NR Band n5 (Cell)	0.175	0.530	0.271	0.107	0.976	0.812
	NR Band n66 (AWS)	0.448	0.530	0.271	0.107	1.249	1.085
	NR Band n25 (PCS)	0.327	0.530	0.271	0.107	1.128	0.964
	NR Band n30	0.039	0.530	0.271	0.107	0.840	0.676
	NR Band n41	0.647	0.530	0.271	0.107	1.448	1.284
	NR Band n77	0.622	0.530	0.271	0.107	1.423	1.259

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Table 12-6
Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN MIMO (Held to Ear)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN MIMO at 12 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	CDMA BC10 (\$90S)	0.312	0.530	0.643	1.485
	CDMA BC0 (\$22H)	0.240	0.530	0.643	1.413
	PCS CDMA	0.188	0.530	0.643	1.361
	GSM 850	0.163	0.530	0.643	1.336
	GSM 1900	0.087	0.530	0.643	1.260
	UMTS 850	0.230	0.530	0.643	1.403
	UMTS 1750	0.194	0.530	0.643	1.367
	UMTS 1900	0.183	0.530	0.643	1.356
	LTE Band 71	0.092	0.530	0.643	1.265
	LTE Band 12	0.154	0.530	0.643	1.327
	LTE Band 13	0.165	0.530	0.643	1.338
	LTE Band 14	0.200	0.530	0.643	1.373
	LTE Band 5 (Cell)	0.210	0.530	0.643	1.383
	LTE Band 26 (Cell)	0.219	0.530	0.643	1.392
	LTE Band 66 (AWS)	0.244	0.530	0.643	1.417
	LTE Band 25 (PCS)	0.162	0.530	0.643	1.335
	LTE Band 30	0.050	0.530	0.643	1.223
	LTE Band 7	0.068	0.530	0.643	1.241
	LTE Band 48	0.503	0.530	0.643	See Table Below
	LTE Band 41	0.099	0.530	0.643	1.272
Simult Tx	Configuration	LTE Band 48 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN MIMO at 12 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Head SAR	Right Cheek	0.503	0.373	0.643	1.519
	Right Tilt	0.041	0.065	0.643*	0.749
	Left Cheek	0.254	0.530	0.596	1.380
	Left Tilt	0.071	0.046	0.643*	0.760

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Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 at 10 dBm SAR (W/kg)	5 GHz WLAN Ant 2 at 10 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	NR Band n71	0.093	0.530	0.271	0.107	1.001
	NR Band n12	0.135	0.530	0.271	0.107	1.043
	NR Band n5 (Cell)	0.175	0.530	0.271	0.107	1.083
	NR Band n66 (AWS)	0.448	0.530	0.271	0.107	1.356
	NR Band n25 (PCS)	0.327	0.530	0.271	0.107	1.235
	NR Band n30	0.039	0.530	0.271	0.107	0.947
	NR Band n41	0.647	0.530	0.271	0.107	1.555
	NR Band n77	0.622	0.530	0.271	0.107	1.530

12.4 Body-Worn Simultaneous Transmission Analysis

Table 12-7
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body - Worn SAR	CDMA BC10 (\$90S)	0.370	0.120	0.140	0.490	0.510	0.630
	CDMA BC0 (\$22H)	0.318	0.120	0.140	0.438	0.458	0.578
	PCS CDMA	0.784	0.120	0.140	0.904	0.924	1.044
	GSM 850	0.352	0.120	0.140	0.472	0.492	0.612
	GSM 1900	0.336	0.120	0.140	0.456	0.476	0.596
	UMTS 850	0.426	0.120	0.140	0.546	0.566	0.686
	UMTS 1750	0.930	0.120	0.140	1.050	1.070	1.190
	UMTS 1900	0.783	0.120	0.140	0.903	0.923	1.043
	LTE Band 71	0.217	0.120	0.140	0.337	0.357	0.477
	LTE Band 12	0.216	0.120	0.140	0.336	0.356	0.476
	LTE Band 13	0.277	0.120	0.140	0.397	0.417	0.537
	LTE Band 14	0.299	0.120	0.140	0.419	0.439	0.559
	LTE Band 5 (Cell)	0.339	0.120	0.140	0.459	0.479	0.599
	LTE Band 26 (Cell)	0.344	0.120	0.140	0.464	0.484	0.604
	LTE Band 66 (AWS)	0.918	0.120	0.140	1.038	1.058	1.178
	LTE Band 25 (PCS)	0.676	0.120	0.140	0.796	0.816	0.936
	LTE Band 30	0.528	0.120	0.140	0.648	0.668	0.788
	LTE Band 7	0.427	0.120	0.140	0.547	0.567	0.687
	LTE Band 48	0.179	0.120	0.140	0.299	0.319	0.439
	LTE Band 41	0.406	0.120	0.140	0.526	0.546	0.666
	NR Band n71	0.087	0.120	0.140	0.207	0.227	0.347
	NR Band n12	0.333	0.120	0.140	0.453	0.473	0.593
	NR Band n5 (Cell)	0.320	0.120	0.140	0.440	0.460	0.580
	NR Band n66 (AWS)	0.952	0.120	0.140	1.072	1.092	1.212
	NR Band n25 (PCS)	0.727	0.120	0.140	0.847	0.867	0.987
	NR Band n30	0.604	0.120	0.140	0.724	0.744	0.864
	NR Band n41	0.123	0.120	0.140	0.243	0.263	0.383
	NR Band n77	0.140	0.120	0.140	0.260	0.280	0.400

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Table 12-8
Simultaneous Transmission Scenario with 5 GHz WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			SPLSR		
		1	2	3	1+2	1+3	1+2+3	1+2	1+3	2+3
Body - Worn SAR	CDMA BC10 (\$90S)	0.370	0.194	0.527	0.564	0.897	1.091	N/A	N/A	N/A
	CDMA BC0 (\$22H)	0.318	0.194	0.527	0.512	0.845	1.039	N/A	N/A	N/A
	PCS CDMA	0.784	0.194	0.527	0.978	1.311	1.505	N/A	N/A	N/A
	GSM 850	0.352	0.194	0.527	0.546	0.879	1.073	N/A	N/A	N/A
	GSM 1900	0.336	0.194	0.527	0.530	0.863	1.057	N/A	N/A	N/A
	UMTS 850	0.426	0.194	0.527	0.620	0.953	1.147	N/A	N/A	N/A
	UMTS 1750	0.930	0.194	0.527	1.124	1.457	See Note 1	0.01	0.01	0.01
	UMTS 1900	0.783	0.194	0.527	0.977	1.310	1.504	N/A	N/A	N/A
	LTE Band 71	0.217	0.194	0.527	0.411	0.744	0.938	N/A	N/A	N/A
	LTE Band 12	0.216	0.194	0.527	0.410	0.743	0.937	N/A	N/A	N/A
	LTE Band 13	0.277	0.194	0.527	0.471	0.804	0.998	N/A	N/A	N/A
	LTE Band 14	0.299	0.194	0.527	0.493	0.826	1.020	N/A	N/A	N/A
	LTE Band 5 (Cell)	0.339	0.194	0.527	0.533	0.866	1.060	N/A	N/A	N/A
	LTE Band 26 (Cell)	0.344	0.194	0.527	0.538	0.871	1.065	N/A	N/A	N/A
	LTE Band 66 (AWS)	0.918	0.194	0.527	1.112	1.445	See Note 1	0.01	0.01	0.01
	LTE Band 25 (PCS)	0.676	0.194	0.527	0.870	1.203	1.397	N/A	N/A	N/A
	LTE Band 30	0.528	0.194	0.527	0.722	1.055	1.249	N/A	N/A	N/A
	LTE Band 7	0.427	0.194	0.527	0.621	0.954	1.148	N/A	N/A	N/A
	LTE Band 48	0.179	0.194	0.527	0.373	0.706	0.900	N/A	N/A	N/A
	LTE Band 41	0.406	0.194	0.527	0.600	0.933	1.127	N/A	N/A	N/A
	NR Band n71	0.087	0.194	0.527	0.281	0.614	0.808	N/A	N/A	N/A
	NR Band n12	0.333	0.194	0.527	0.527	0.860	1.054	N/A	N/A	N/A
	NR Band n5 (Cell)	0.320	0.194	0.527	0.514	0.847	1.041	N/A	N/A	N/A
	NR Band n66 (AWS)	0.952	0.194	0.527	1.146	1.479	See Note 1	0.01	0.01	0.01
	NR Band n25 (PCS)	0.727	0.194	0.527	0.921	1.254	1.448	N/A	N/A	N/A
	NR Band n30	0.604	0.194	0.527	0.798	1.131	1.325	N/A	N/A	N/A
	NR Band n41	0.123	0.194	0.527	0.317	0.650	0.844	N/A	N/A	N/A
	NR Band n77	0.140	0.194	0.527	0.334	0.667	0.861	N/A	N/A	N/A

Note 1 - No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

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Table 12-9
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO at 12 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn SAR	CDMA BC10 (\$90S)	0.370	0.143	0.385	0.898
	CDMA BC0 (\$22H)	0.318	0.143	0.385	0.846
	PCS CDMA	0.784	0.143	0.385	1.312
	GSM 850	0.352	0.143	0.385	0.880
	GSM 1900	0.336	0.143	0.385	0.864
	UMTS 850	0.426	0.143	0.385	0.954
	UMTS 1750	0.930	0.143	0.385	1.458
	UMTS 1900	0.783	0.143	0.385	1.311
	LTE Band 71	0.217	0.143	0.385	0.745
	LTE Band 12	0.216	0.143	0.385	0.744
	LTE Band 13	0.277	0.143	0.385	0.805
	LTE Band 14	0.299	0.143	0.385	0.827
	LTE Band 5 (Cell)	0.339	0.143	0.385	0.867
	LTE Band 26 (Cell)	0.344	0.143	0.385	0.872
	LTE Band 66 (AWS)	0.918	0.143	0.385	1.446
	LTE Band 25 (PCS)	0.676	0.143	0.385	1.204
	LTE Band 30	0.528	0.143	0.385	1.056
	LTE Band 7	0.427	0.143	0.385	0.955
	LTE Band 48	0.179	0.143	0.385	0.707
	LTE Band 41	0.406	0.143	0.385	0.934
	NR Band n71	0.087	0.143	0.385	0.615
	NR Band n12	0.333	0.143	0.385	0.861
	NR Band n5 (Cell)	0.320	0.143	0.385	0.848
	NR Band n66 (AWS)	0.952	0.143	0.385	1.480
	NR Band n25 (PCS)	0.727	0.143	0.385	1.255
	NR Band n30	0.604	0.143	0.385	1.132
	NR Band n41	0.123	0.143	0.385	0.651
	NR Band n77	0.140	0.143	0.385	0.668

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Table 12-10
Simultaneous Transmission Scenario with Bluetooth (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body - Worn SAR	CDMA BC10 (§90S)	0.370	0.046	0.416
	CDMA BC0 (§22H)	0.318	0.046	0.364
	PCS CDMA	0.784	0.046	0.830
	GSM 850	0.352	0.046	0.398
	GSM 1900	0.336	0.046	0.382
	UMTS 850	0.426	0.046	0.472
	UMTS 1750	0.930	0.046	0.976
	UMTS 1900	0.783	0.046	0.829
	LTE Band 71	0.217	0.046	0.263
	LTE Band 12	0.216	0.046	0.262
	LTE Band 13	0.277	0.046	0.323
	LTE Band 14	0.299	0.046	0.345
	LTE Band 5 (Cell)	0.339	0.046	0.385
	LTE Band 26 (Cell)	0.344	0.046	0.390
	LTE Band 66 (AWS)	0.918	0.046	0.964
	LTE Band 25 (PCS)	0.676	0.046	0.722
	LTE Band 30	0.528	0.046	0.574
	LTE Band 7	0.427	0.046	0.473
	LTE Band 48	0.179	0.046	0.225
	LTE Band 41	0.406	0.046	0.452
	NR Band n71	0.087	0.046	0.133
	NR Band n12	0.333	0.046	0.379
	NR Band n5 (Cell)	0.320	0.046	0.366
	NR Band n66 (AWS)	0.952	0.046	0.998
	NR Band n25 (PCS)	0.727	0.046	0.773
	NR Band n30	0.604	0.046	0.650
	NR Band n41	0.123	0.046	0.169
	NR Band n77	0.140	0.046	0.186

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Table 12-11
Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			SPLSR					
		1	2	3	4	1+2+3	1+2+4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Body - Worn SAR	CDMA BC10 (S90S)	0.370	0.046	0.194	0.527	0.767	0.943	1.137	N/A	N/A	N/A	N/A	N/A	N/A
	CDMA BC0 (S22H)	0.318	0.046	0.194	0.527	0.767	0.891	1.085	N/A	N/A	N/A	N/A	N/A	N/A
	PCS CDMA	0.784	0.046	0.194	0.527	0.767	1.357	1.551	N/A	N/A	N/A	N/A	N/A	N/A
	GSM 850	0.352	0.046	0.194	0.527	0.767	0.925	1.119	N/A	N/A	N/A	N/A	N/A	N/A
	GSM 1900	0.336	0.046	0.194	0.527	0.767	0.909	1.103	N/A	N/A	N/A	N/A	N/A	N/A
	UMTS 850	0.426	0.046	0.194	0.527	0.767	0.999	1.193	N/A	N/A	N/A	N/A	N/A	N/A
	UMTS 1750	0.930	0.046	0.194	0.527	0.767	1.503	See Note 1	0.01	0.01	0.01	0.01	0.01	0.01
	UMTS 1900	0.783	0.046	0.194	0.527	0.767	1.356	1.550	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 71	0.217	0.046	0.194	0.527	0.767	0.790	0.984	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 12	0.216	0.046	0.194	0.527	0.767	0.789	0.983	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 13	0.277	0.046	0.194	0.527	0.767	0.850	1.044	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 14	0.299	0.046	0.194	0.527	0.767	0.872	1.066	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 5 (Cell)	0.339	0.046	0.194	0.527	0.767	0.912	1.106	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 26 (Cell)	0.344	0.046	0.194	0.527	0.767	0.917	1.111	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 66 (AWS)	0.918	0.046	0.194	0.527	0.767	1.491	See Note 1	0.01	0.01	0.01	0.01	0.01	0.01
	LTE Band 25 (PCS)	0.676	0.046	0.194	0.527	0.767	1.249	1.443	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 30	0.528	0.046	0.194	0.527	0.767	1.101	1.295	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 7	0.427	0.046	0.194	0.527	0.767	1.000	1.194	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 48	0.179	0.046	0.194	0.527	0.767	0.752	0.946	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 41	0.406	0.046	0.194	0.527	0.767	0.979	1.173	N/A	N/A	N/A	N/A	N/A	N/A
	NR Band n71	0.087	0.046	0.194	0.527	0.767	0.660	0.854	N/A	N/A	N/A	N/A	N/A	N/A
	NR Band n12	0.333	0.046	0.194	0.527	0.767	0.906	1.100	N/A	N/A	N/A	N/A	N/A	N/A
	NR Band n5 (Cell)	0.320	0.046	0.194	0.527	0.767	0.893	1.087	N/A	N/A	N/A	N/A	N/A	N/A
	NR Band n66 (AWS)	0.952	0.046	0.194	0.527	0.767	1.525	See Note 1	0.01	0.01	0.01	0.01	0.01	0.01
	NR Band n25 (PCS)	0.727	0.046	0.194	0.527	0.767	1.300	1.494	N/A	N/A	N/A	N/A	N/A	N/A
	NR Band n30	0.604	0.046	0.194	0.527	0.767	1.177	1.371	N/A	N/A	N/A	N/A	N/A	N/A
	NR Band n41	0.123	0.046	0.194	0.527	0.767	0.696	0.890	N/A	N/A	N/A	N/A	N/A	N/A
	NR Band n77	0.140	0.046	0.194	0.527	0.240	0.713	0.380	N/A	N/A	N/A	N/A	N/A	N/A

Note 1 - No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

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12.5 Hotspot SAR Simultaneous Transmission Analysis

Table 12-12
Simultaneous Transmission Scenario with 2.4 GHz WLAN SISO (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Hotspot	EVDO BC10 (\$90S)	0.726	0.455	0.351	1.181	1.077
	EVDO BC0 (\$22H)	0.821	0.455	0.351	1.276	1.172
	PCS EVDO	0.909	0.455	0.351	1.364	1.260
	GPRS 850	0.845	0.455	0.351	1.300	1.196
	GPRS 1900	1.018	0.455	0.351	1.473	1.369
	UMTS 850	0.840	0.455	0.351	1.295	1.191
	UMTS 1750	0.769	0.455	0.351	1.224	1.120
	UMTS 1900	0.983	0.455	0.351	1.438	1.334
	LTE Band 71	0.353	0.455	0.351	0.808	0.704
	LTE Band 12	0.455	0.455	0.351	0.910	0.806
	LTE Band 13	0.486	0.455	0.351	0.941	0.837
	LTE Band 14	0.557	0.455	0.351	1.012	0.908
	LTE Band 5 (Cell)	0.697	0.455	0.351	1.152	1.048
	LTE Band 26 (Cell)	0.821	0.455	0.351	1.276	1.172
	LTE Band 66 (AWS)	0.983	0.455	0.351	1.438	1.334
	LTE Band 25 (PCS)	0.853	0.455	0.351	1.308	1.204
	LTE Band 30	0.930	0.455	0.351	1.385	1.281
	LTE Band 7	0.310	0.455	0.351	0.765	0.661
	LTE Band 48	0.731	0.455	0.351	1.186	1.082
	LTE Band 41	0.349	0.455	0.351	0.804	0.700
	NR Band n71	0.358	0.455	0.351	0.813	0.709
	NR Band n12	0.474	0.455	0.351	0.929	0.825
	NR Band n5 (Cell)	0.840	0.455	0.351	1.295	1.191
	NR Band n66 (AWS)	1.035	0.455	0.351	1.490	1.386
	NR Band n25 (PCS)	0.643	0.455	0.351	1.098	0.994
	NR Band n30	0.840	0.455	0.351	1.295	1.191
	NR Band n41	0.106	0.455	0.351	0.561	0.457
	NR Band n77	0.448	0.455	0.351	0.903	0.799

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Table 12-13
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	EVDO BC10 (S90S)	0.726	0.327	1.053
	EVDO BC0 (S22H)	0.821	0.327	1.148
	PCS EVDO	0.909	0.327	1.236
	GPRS 850	0.845	0.327	1.172
	GPRS 1900	1.018	0.327	1.345
	UMTS 850	0.840	0.327	1.167
	UMTS 1750	0.769	0.327	1.096
	UMTS 1900	0.983	0.327	1.310
	LTE Band 71	0.353	0.327	0.680
	LTE Band 12	0.455	0.327	0.782
	LTE Band 13	0.486	0.327	0.813
	LTE Band 14	0.557	0.327	0.884
	LTE Band 5 (Cell)	0.697	0.327	1.024
	LTE Band 26 (Cell)	0.821	0.327	1.148
	LTE Band 66 (AWS)	0.983	0.327	1.310
	LTE Band 25 (PCS)	0.853	0.327	1.180
	LTE Band 30	0.930	0.327	1.257
	LTE Band 7	0.310	0.327	0.637
	LTE Band 48	0.731	0.327	1.058
	LTE Band 41	0.349	0.327	0.676
	NR Band n71	0.358	0.327	0.685
	NR Band n12	0.474	0.327	0.801
	NR Band n5 (Cell)	0.840	0.327	1.167
	NR Band n66 (AWS)	1.035	0.327	1.362
	NR Band n25 (PCS)	0.643	0.327	0.970
	NR Band n30	0.840	0.327	1.167
	NR Band n41	0.106	0.327	0.433
	NR Band n77	0.448	0.327	0.775

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Table 12-14
Simultaneous Transmission Scenario with 5 GHz WLAN SISO (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Hotspot	EVDO BC10 (\$90S)	0.726	0.529	0.690	1.255	1.416
	EVDO BC0 (\$22H)	0.821	0.529	0.690	1.350	1.511
	PCS EVDO	0.909	0.529	0.690	1.438	See Table Below
	GPRS 850	0.845	0.529	0.690	1.374	1.535
	GPRS 1900	1.018	0.529	0.690	1.547	See Table Below
	UMTS 850	0.840	0.529	0.690	1.369	1.530
	UMTS 1750	0.769	0.529	0.690	1.298	1.459
	UMTS 1900	0.983	0.529	0.690	1.512	See Table Below
	LTE Band 71	0.353	0.529	0.690	0.882	1.043
	LTE Band 12	0.455	0.529	0.690	0.984	1.145
	LTE Band 13	0.486	0.529	0.690	1.015	1.176
	LTE Band 14	0.557	0.529	0.690	1.086	1.247
	LTE Band 5 (Cell)	0.697	0.529	0.690	1.226	1.387
	LTE Band 26 (Cell)	0.821	0.529	0.690	1.350	1.511
	LTE Band 66 (AWS)	0.983	0.529	0.690	1.512	See Table Below
	LTE Band 25 (PCS)	0.853	0.529	0.690	1.382	1.543
	LTE Band 30	0.930	0.529	0.690	1.459	See Table Below
	LTE Band 7	0.310	0.529	0.690	0.839	1.000
	LTE Band 48	0.731	0.529	0.690	1.260	1.421
	LTE Band 41	0.349	0.529	0.690	0.878	1.039
	NR Band n71	0.358	0.529	0.690	0.887	1.048
	NR Band n12	0.474	0.529	0.690	1.003	1.164
	NR Band n5 (Cell)	0.840	0.529	0.690	1.369	1.530
	NR Band n66 (AWS)	1.035	0.529	0.690	1.564	See Table Below
	NR Band n25 (PCS)	0.643	0.529	0.690	1.172	1.333
	NR Band n30	0.840	0.529	0.690	1.369	1.530
	NR Band n41	0.106	0.529	0.690	0.635	0.796
	NR Band n77	0.448	0.529	0.690	0.977	1.138

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+3			1	2	3	1+3
Hotspot SAR	Back	0.468	0.234	0.690	1.158	Hotspot SAR	Back	0.354	0.234	0.690	1.044
	Front	0.409	0.249	0.031	0.440		Front	0.308	0.249	0.031	0.339
	Top	-	-	0.179	0.179		Top	-	-	0.179	0.179
	Bottom	0.909	-	-	0.909		Bottom	1.018	-	-	1.018
	Right	0.068	-	-	0.068		Right	0.055	-	-	0.055
	Left	0.068	0.529	0.690*	0.758		Left	0.053	0.529	0.690*	0.743
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+3			1	2	3	1+3
Hotspot SAR	Back	0.409	0.234	0.690	1.099	Hotspot SAR	Back	0.511	0.234	0.690	1.201
	Front	0.357	0.249	0.031	0.388		Front	0.502	0.249	0.031	0.533
	Top	-	-	0.179	0.179		Top	-	-	0.179	0.179
	Bottom	0.983	-	-	0.983		Bottom	0.983	-	-	0.983
	Right	0.056	-	-	0.056		Right	0.108	-	-	0.108
	Left	0.062	0.529	0.690*	0.752		Left	0.133	0.529	0.690*	0.823

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Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+3
Hotspot SAR	Back	0.401	0.234	0.690	1.091
	Front	0.218	0.249	0.031	0.249
	Top	-	-	0.179	0.179
	Bottom	0.930	-	-	0.930
	Right	0.021	-	-	0.021
	Left	0.033	0.529	0.690*	0.723

Simult Tx	Configuration	NR Band n66 (AWS) Antenna 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+3
Hotspot SAR	Back	0.252	0.234	0.690	0.942
	Front	0.141	0.249	0.031	0.172
	Top	0.297	-	0.179	0.476
	Right	0.041	-	-	0.041
	Left	-	0.529	0.690*	0.690

Simult Tx	Configuration	NR Band n66 (AWS) Antenna A SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+3
Hotspot SAR	Back	0.596	0.234	0.690	1.286
	Front	0.556	0.249	0.031	0.587
	Top	-	-	0.179	0.179
	Bottom	1.035	-	-	1.035
	Right	0.084	-	-	0.084
	Left	0.134	0.529	0.690*	0.824

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Table 12-15
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO (Hotspot at 1.0 cm)

Simult Tx	Configuration	EVDO BC10 (\$90S) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR			Simult Tx	Configuration	EVDO BC0 (\$22H) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR		
		1	2	3	1+2+3	1+2	1+3	2+3			1	2	3	1+2+3	1+2	1+3	2+3
		Back	0.726	0.234	0.690	See Note 1	0.01	0.01			0.02	Back	0.821	0.234	0.690	See Note 1	0.01
Hotspot SAR	Front	0.481	0.249	0.031	0.761	N/A	N/A	N/A	Hotspot SAR	Front	0.375	0.249	0.031	0.655	N/A	N/A	N/A
	Top	-	-	0.179	0.179	N/A	N/A	N/A		Top	-	-	0.179	0.179	N/A	N/A	N/A
	Bottom	0.405	-	-	0.405	N/A	N/A	N/A		Bottom	0.412	-	-	0.412	N/A	N/A	N/A
	Right	0.279	-	-	0.279	N/A	N/A	N/A		Right	0.266	-	-	0.266	N/A	N/A	N/A
	Left	0.093	0.529	0.690*	1.312	N/A	N/A	N/A		Left	0.060	0.529	0.690*	1.279	N/A	N/A	N/A
Simult Tx	Configuration	PCS EVDO SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 850 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	1+2+3			1	2	3	1+2+3	1+2	1+3	2+3			
		Back	0.468	0.234	0.690			1.392	Back	0.845	0.234	0.690	See Note 1	0.01	0.01	0.02	
Hotspot SAR	Front	0.409	0.249	0.031	0.689	Hotspot SAR	Front	0.522	0.249	0.031	0.802	N/A	N/A	N/A			
	Top	-	-	0.179	0.179		Top	-	-	0.179	0.179	N/A	N/A	N/A			
	Bottom	0.909	-	-	0.909		Bottom	0.406	-	-	0.406	N/A	N/A	N/A			
	Right	0.068	-	-	0.068		Right	0.266	-	-	0.266	N/A	N/A	N/A			
	Left	0.068	0.529	0.690*	1.287		Left	0.074	0.529	0.690*	1.293	N/A	N/A	N/A			
Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 850 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	1+2+3			1	2	3	1+2+3	1+2	1+3	2+3			
		Back	0.354	0.234	0.690			1.278	Back	0.840	0.234	0.690	See Note 1	0.01	0.01	0.02	
Hotspot SAR	Front	0.308	0.249	0.031	0.588	Hotspot SAR	Front	0.496	0.249	0.031	0.776	N/A	N/A	N/A			
	Top	-	-	0.179	0.179		Top	-	-	0.179	0.179	N/A	N/A	N/A			
	Bottom	1.018	-	-	1.018		Bottom	0.413	-	-	0.413	N/A	N/A	N/A			
	Right	0.055	-	-	0.055		Right	0.300	-	-	0.300	N/A	N/A	N/A			
	Left	0.053	0.529	0.690*	1.272		Left	0.067	0.529	0.690*	1.286	N/A	N/A	N/A			
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	1+2+3			1	2	3	1+2+3	1+2	1+3	2+3			
		Back	0.484	0.234	0.690			1.408	Back	0.409	0.234	0.690	1.333				
Hotspot SAR	Front	0.457	0.249	0.031	0.737	Hotspot SAR	Front	0.357	0.249	0.031	0.637						
	Top	-	-	0.179	0.179		Top	-	-	0.179	0.179						
	Bottom	0.769	-	-	0.769		Bottom	0.983	-	-	0.983						
	Right	0.077	-	-	0.077		Right	0.056	-	-	0.056						
	Left	0.101	0.529	0.690*	1.320		Left	0.062	0.529	0.690*	1.281						
Simult Tx	Configuration	LTE Band 71 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	1+2+3			1	2	3	1+2+3	1+2	1+3	2+3			
		Back	0.353	0.234	0.690			1.277	Back	0.455	0.234	0.690	1.379				
Hotspot SAR	Front	0.233	0.249	0.031	0.513	Hotspot SAR	Front	0.250	0.249	0.031	0.530						
	Top	-	-	0.179	0.179		Top	-	-	0.179	0.179						
	Bottom	0.170	-	-	0.170		Bottom	0.236	-	-	0.236						
	Right	0.312	-	-	0.312		Right	0.239	-	-	0.239						
	Left	0.152	0.529	0.690*	1.371		Left	0.115	0.529	0.690*	1.334						
Simult Tx	Configuration	LTE Band 13 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 14 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	1+2+3			1	2	3	1+2+3	1+2	1+3	2+3			
		Back	0.486	0.234	0.690			1.410	Back	0.557	0.234	0.690	1.481				
Hotspot SAR	Front	0.342	0.249	0.031	0.622	Hotspot SAR	Front	0.362	0.249	0.031	0.642						
	Top	-	-	0.179	0.179		Top	-	-	0.179	0.179						
	Bottom	0.312	-	-	0.312		Bottom	0.340	-	-	0.340						
	Right	0.265	-	-	0.265		Right	0.311	-	-	0.311						
	Left	0.123	0.529	0.690*	1.342		Left	0.149	0.529	0.690*	1.368						

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Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR		
		1	2	3	1+2+3	1+2	1+3	2+3
Hotspot SAR	Back	0.697	0.234	0.690	See Note 1	0.01	0.01	0.02
	Front	0.449	0.249	0.031	0.729	N/A	N/A	N/A
	Top	-	-	0.179	0.179	N/A	N/A	N/A
	Bottom	0.382	-	-	0.382	N/A	N/A	N/A
	Right	0.282	-	-	0.282	N/A	N/A	N/A
	Left	0.093	0.529	0.690*	1.312	N/A	N/A	N/A
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	1+2+3			
Hotspot SAR	Back	0.511	0.234	0.690	1.435			
	Front	0.502	0.249	0.031	0.782			
	Top	-	-	0.179	0.179			
	Bottom	0.983	-	-	0.983			
	Right	0.108	-	-	0.108			
	Left	0.133	0.529	0.690*	1.352			

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	1+2+3			
Hotspot SAR	Back	0.821	0.234	0.690	See Note 1	0.01	0.01	0.02
	Front	0.465	0.249	0.031	0.745	N/A	N/A	N/A
	Top	-	-	0.179	0.179	N/A	N/A	N/A
	Bottom	0.372	-	-	0.372	N/A	N/A	N/A
	Right	0.309	-	-	0.309	N/A	N/A	N/A
	Left	0.098	0.529	0.690*	1.317	N/A	N/A	N/A
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	1+2+3			
Hotspot SAR	Back	0.380	0.234	0.690	1.304			
	Front	0.342	0.249	0.031	0.622			
	Top	-	-	0.179	0.179			
	Bottom	0.853	-	-	0.853			
	Right	0.038	-	-	0.038			
	Left	0.048	0.529	0.690*	1.267			

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.401	0.234	0.690	1.325
	Front	0.218	0.249	0.031	0.498
	Top	-	-	0.179	0.179
	Bottom	0.930	-	-	0.930
	Right	0.021	-	-	0.021
	Left	0.033	0.529	0.690*	1.252
Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.310	0.234	0.690	1.234
	Front	0.248	0.249	0.031	0.528
	Top	-	-	0.179	0.179
	Bottom	0.280	-	-	0.280
	Left	0.126	0.529	0.690*	1.345

Simult Tx	Configuration	LTE Band 48 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.342	0.234	0.690	1.266
	Front	0.404	0.249	0.031	0.684
	Top	-	-	0.179	0.179
	Right	0.731	-	-	0.731
	Left	-	0.529	0.690*	1.219

Simult Tx	Configuration	NR Band n71 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.358	0.234	0.690	1.282
	Front	0.215	0.249	0.031	0.495
	Top	-	-	0.179	0.179
	Bottom	0.145	-	-	0.145
	Right	0.299	-	-	0.299
	Left	0.167	0.529	0.690*	1.386
Simult Tx	Configuration	NR Band n12 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.474	0.234	0.690	1.398
	Front	0.239	0.249	0.031	0.519
	Top	-	-	0.179	0.179
	Bottom	0.239	-	-	0.239
	Right	0.285	-	-	0.285
	Left	0.159	0.529	0.690*	1.378

Simult Tx	Configuration	NR Band n5 (Cell) SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR		
		1	2	3	1+2+3	1+2	1+3	2+3
Hotspot SAR	Back	0.840	0.234	0.690	See Note 1	0.01	0.01	0.02
	Front	0.576	0.249	0.031	0.856	N/A	N/A	N/A
	Top	-	-	0.179	0.179	N/A	N/A	N/A
	Bottom	0.459	-	-	0.459	N/A	N/A	N/A
	Right	0.314	-	-	0.314	N/A	N/A	N/A
	Left	0.083	0.529	0.690*	1.302	N/A	N/A	N/A

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Simult Tx	Configuration	NR Band n66 (AWS) Antenna A SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n66 (AWS) Antenna I SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.596	0.234	0.690	1.520	Hotspot SAR	Back	0.252	0.234	0.690	1.176
	Front	0.556	0.249	0.031	0.836		Front	0.141	0.249	0.031	0.421
	Top	-	-	0.179	0.179		Top	0.297	-	0.179	0.476
	Bottom	1.035	-	-	1.035		Right	0.041	-	-	0.041
	Right	0.084	-	-	0.084		Left	-	0.529	0.690*	1.219
	Left	0.134	0.529	0.690*	1.353						
Simult Tx	Configuration	NR Band n25 (PCS) Antenna A SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 (PCS) Antenna I SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.252	0.234	0.690	1.176	Hotspot SAR	Back	0.194	0.234	0.690	1.118
	Front	0.223	0.249	0.031	0.503		Front	0.113	0.249	0.031	0.393
	Top	-	-	0.179	0.179		Top	0.275	-	0.179	0.454
	Bottom	0.643	-	-	0.643		Right	0.033	-	-	0.033
	Right	0.039	-	-	0.039		Left	-	0.529	0.690*	1.219
	Left	0.038	0.529	0.690*	1.257						
Simult Tx	Configuration	NR Band n30 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n41 Antenna B SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.452	0.234	0.690	1.376	Hotspot SAR	Back	0.088	0.234	0.690	1.012
	Front	0.300	0.249	0.031	0.580		Front	0.064	0.249	0.031	0.344
	Top	-	-	0.179	0.179		Top	-	-	0.179	0.179
	Bottom	0.840	-	-	0.840		Bottom	0.080	-	-	0.080
	Right	0.021	-	-	0.021		Left	0.036	0.529	0.690*	1.255
	Left	0.053	0.529	0.690*	1.272						
Simult Tx	Configuration	NR Band n41 Antenna I SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n77 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.100	0.234	0.690	1.024	Hotspot SAR	Back	0.201	0.234	0.690	1.125
	Front	0.090	0.249	0.031	0.370		Front	0.194	0.249	0.031	0.474
	Top	0.106	-	0.179	0.285		Top	-	-	0.179	0.179
	Right	0.029	-	-	0.029		Right	0.448	-	-	0.448
	Left	-	0.529	0.690*	1.219		Left	-	0.529	0.690*	1.219

Note 1 - No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

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Table 12-16
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO at 15 dBm SAR (W/kg)	5 GHz WLAN MIMO at 12 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot	EVDO BC10 (\$90S)	0.726	0.200	0.549	1.475
	EVDO BC0 (\$22H)	0.821	0.200	0.549	1.570
	PCS EVDO	0.909	0.200	0.549	See Table Below
	GPRS 850	0.845	0.200	0.549	1.594
	GPRS 1900	1.018	0.200	0.549	See Table Below
	UMTS 850	0.840	0.200	0.549	1.589
	UMTS 1750	0.769	0.200	0.549	1.518
	UMTS 1900	0.983	0.200	0.549	See Table Below
	LTE Band 71	0.353	0.200	0.549	1.102
	LTE Band 12	0.455	0.200	0.549	1.204
	LTE Band 13	0.486	0.200	0.549	1.235
	LTE Band 14	0.557	0.200	0.549	1.306
	LTE Band 5 (Cell)	0.697	0.200	0.549	1.446
	LTE Band 26 (Cell)	0.821	0.200	0.549	1.570
	LTE Band 66 (AWS)	0.983	0.200	0.549	See Table Below
	LTE Band 25 (PCS)	0.853	0.200	0.549	See Table Below
	LTE Band 30	0.930	0.200	0.549	See Table Below
	LTE Band 7	0.310	0.200	0.549	1.059
	LTE Band 48	0.731	0.200	0.549	1.480
	LTE Band 41	0.349	0.200	0.549	1.098
	NR Band n71	0.358	0.200	0.549	1.107
	NR Band n12	0.474	0.200	0.549	1.223
	NR Band n5 (Cell)	0.840	0.200	0.549	1.589
	NR Band n66 (AWS)	1.035	0.200	0.549	See Table Below
	NR Band n25 (PCS)	0.643	0.200	0.549	1.392
	NR Band n30	0.840	0.200	0.549	1.589
	NR Band n41	0.106	0.200	0.549	0.855
	NR Band n77	0.448	0.200	0.549	1.197

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz WLAN MIMO at 15 dBm SAR (W/kg)	5 GHz WLAN MIMO at 12 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz WLAN MIMO at 15 dBm SAR (W/kg)	5 GHz WLAN MIMO at 12 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.468	0.200	0.549	1.217	Hotspot SAR	Back	0.354	0.200	0.549	1.103
	Front	0.409	0.200*	0.143	0.752		Front	0.308	0.200*	0.143	0.651
	Top	-	0.200*	0.152	0.352		Top	-	0.200*	0.152	0.352
	Bottom	0.909	-	-	0.909		Bottom	1.018	-	-	1.018
	Right	0.068	-	-	0.068		Right	0.055	-	-	0.055
	Left	0.068	0.200*	0.214	0.482		Left	0.053	0.200*	0.214	0.467

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Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN MIMO at 15 dBm SAR (W/kg)	5 GHz WLAN MIMO at 12 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.409	0.200	0.549	1.158
	Front	0.357	0.200*	0.143	0.700
	Top	-	0.200*	0.152	0.352
	Bottom	0.983	-	-	0.983
	Right	0.056	-	-	0.056
	Left	0.062	0.200*	0.214	0.476

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO at 15 dBm SAR (W/kg)	5 GHz WLAN MIMO at 12 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN MIMO at 15 dBm SAR (W/kg)	5 GHz WLAN MIMO at 12 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.511	0.200	0.549	1.260	Hotspot SAR	Back	0.380	0.200	0.549	1.129
	Front	0.502	0.200*	0.143	0.845		Front	0.342	0.200*	0.143	0.685
	Top	-	0.200*	0.152	0.352		Top	-	0.200*	0.152	0.352
	Bottom	0.983	-	-	0.983		Bottom	0.853	-	-	0.853
	Right	0.108	-	-	0.108		Right	0.038	-	-	0.038
	Left	0.133	0.200*	0.214	0.547		Left	0.048	0.200*	0.214	0.462

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	2.4 GHz WLAN MIMO at 15 dBm SAR (W/kg)	5 GHz WLAN MIMO at 12 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n66 (AWS) Antenna A SAR (W/kg)	2.4 GHz WLAN MIMO at 15 dBm SAR (W/kg)	5 GHz WLAN MIMO at 12 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.401	0.200	0.549	1.150	Hotspot SAR	Back	0.596	0.200	0.549	1.345
	Front	0.218	0.200*	0.143	0.561		Front	0.556	0.200*	0.143	0.899
	Top	-	0.200*	0.152	0.352		Top	-	0.200*	0.152	0.352
	Bottom	0.930	-	-	0.930		Bottom	1.035	-	-	1.035
	Right	0.021	-	-	0.021		Right	0.084	-	-	0.084
	Left	0.033	0.200*	0.214	0.447		Left	0.134	0.200*	0.214	0.548

Simult Tx	Configuration	NR Band n66 (AWS) Antenna I SAR (W/kg)	2.4 GHz WLAN MIMO at 15 dBm SAR (W/kg)	5 GHz WLAN MIMO at 12 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.252	0.200	0.549	1.001
	Front	0.141	0.200*	0.143	0.484
	Top	0.297	0.200*	0.152	0.649
	Right	0.041	-	-	0.041
	Left	-	0.200*	0.214	0.414

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Table 12-17
Simultaneous Transmission Scenario with Bluetooth (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	EVDO BC10 (S90S)	0.726	0.176	0.902
	EVDO BC0 (S22H)	0.821	0.176	0.997
	PCS EVDO	0.909	0.176	1.085
	GPRS 850	0.845	0.176	1.021
	GPRS 1900	1.018	0.176	1.194
	UMTS 850	0.840	0.176	1.016
	UMTS 1750	0.769	0.176	0.945
	UMTS 1900	0.983	0.176	1.159
	LTE Band 71	0.353	0.176	0.529
	LTE Band 12	0.455	0.176	0.631
	LTE Band 13	0.486	0.176	0.662
	LTE Band 14	0.557	0.176	0.733
	LTE Band 5 (Cell)	0.697	0.176	0.873
	LTE Band 26 (Cell)	0.821	0.176	0.997
	LTE Band 66 (AWS)	0.983	0.176	1.159
	LTE Band 25 (PCS)	0.853	0.176	1.029
	LTE Band 30	0.930	0.176	1.106
	LTE Band 7	0.310	0.176	0.486
	LTE Band 48	0.731	0.176	0.907
	LTE Band 41	0.349	0.176	0.525
	NR Band n71	0.358	0.176	0.534
	NR Band n12	0.474	0.176	0.650
	NR Band n5 (Cell)	0.840	0.176	1.016
	NR Band n66 (AWS)	1.035	0.176	1.211
	NR Band n25 (PCS)	0.643	0.176	0.819
	NR Band n30	0.840	0.176	1.016
	NR Band n41	0.106	0.176	0.282
	NR Band n77	0.448	0.176	0.624

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Table 12-18
Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN SISO (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	EVDO BC10 (\$90S)	0.726	0.176	0.529	0.690	1.431	1.592
	EVDO BC0 (\$22H)	0.821	0.176	0.529	0.690	1.526	See Table Below
	PCS EVDO	0.909	0.176	0.529	0.690	See Table Below	See Table Below
	GPRS 850	0.845	0.176	0.529	0.690	1.550	See Table Below
	GPRS 1900	1.018	0.176	0.529	0.690	See Table Below	See Table Below
	UMTS 850	0.840	0.176	0.529	0.690	1.545	See Table Below
	UMTS 1750	0.769	0.176	0.529	0.690	1.474	See Table Below
	UMTS 1900	0.983	0.176	0.529	0.690	See Table Below	See Table Below
	LTE Band 71	0.353	0.176	0.529	0.690	1.058	1.219
	LTE Band 12	0.455	0.176	0.529	0.690	1.160	1.321
	LTE Band 13	0.486	0.176	0.529	0.690	1.191	1.352
	LTE Band 14	0.557	0.176	0.529	0.690	1.262	1.423
	LTE Band 5 (Cell)	0.697	0.176	0.529	0.690	1.402	1.563
	LTE Band 26 (Cell)	0.821	0.176	0.529	0.690	1.526	See Table Below
	LTE Band 66 (AWS)	0.983	0.176	0.529	0.690	See Table Below	See Table Below
	LTE Band 25 (PCS)	0.853	0.176	0.529	0.690	1.558	See Table Below
	LTE Band 30	0.930	0.176	0.529	0.690	See Table Below	See Table Below
	LTE Band 7	0.310	0.176	0.529	0.690	1.015	1.176
	LTE Band 48	0.731	0.176	0.529	0.690	1.436	See Table Below
	LTE Band 41	0.349	0.176	0.529	0.690	1.054	1.215
	NR Band n71	0.358	0.176	0.529	0.690	1.063	1.224
	NR Band n12	0.474	0.176	0.529	0.690	1.179	1.340
	NR Band n5 (Cell)	0.840	0.176	0.529	0.690	1.545	See Table Below
	NR Band n66 (AWS)	1.035	0.176	0.529	0.690	See Table Below	See Table Below
	NR Band n25 (PCS)	0.643	0.176	0.529	0.690	1.348	1.509
	NR Band n30	0.840	0.176	0.529	0.690	1.545	See Table Below
	NR Band n41	0.106	0.176	0.529	0.690	0.811	0.972
	NR Band n77	0.448	0.176	0.529	0.690	1.153	1.314

Simult Tx	Configuration	EVDO BC0 (\$22H) SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR				Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+4	1+2	1+4	2+4	1			2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.821	0.106	0.234	0.690	See Note 1	0.01	0.01	0.01	Hotspot SAR	Back	0.468	0.106	0.234	0.690	0.808	1.264
	Front	0.375	0.103	0.249	0.031	0.509	N/A	N/A	N/A		Front	0.409	0.103	0.249	0.031	0.761	0.543
	Top	-	-	-	0.179	0.179	N/A	N/A	N/A		Top	-	-	-	0.179	0.000	0.179
	Bottom	0.412	-	-	-	0.412	N/A	N/A	N/A		Bottom	0.909	-	-	-	0.909	0.909
	Right	0.266	-	-	-	0.266	N/A	N/A	N/A		Right	0.068	-	-	-	0.068	0.068
	Left	0.060	0.176	0.529	0.690*	0.926	N/A	N/A	N/A		Left	0.068	0.176	0.529	0.690*	0.773	0.934

Simult Tx	Configuration	GPRS 850 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR				Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+4	1+2	1+4	2+4	1			2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.845	0.106	0.234	0.690	See Note 1	0.01	0.01	0.01	Hotspot SAR	Back	0.354	0.106	0.234	0.690	0.694	1.150
	Front	0.522	0.103	0.249	0.031	0.656	N/A	N/A	N/A		Front	0.308	0.103	0.249	0.031	0.660	0.442
	Top	-	-	-	0.179	0.179	N/A	N/A	N/A		Top	-	-	-	0.179	0.000	0.179
	Bottom	0.406	-	-	-	0.406	N/A	N/A	N/A		Bottom	1.018	-	-	-	1.018	1.018
	Right	0.266	-	-	-	0.266	N/A	N/A	N/A		Right	0.055	-	-	-	0.055	0.055
	Left	0.074	0.176	0.529	0.690*	0.940	N/A	N/A	N/A		Left	0.053	0.176	0.529	0.690*	0.758	0.919

Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR				Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+4	1+2	1+4	2+4	1			2	3	4	1+2+4	
Hotspot SAR	Back	0.840	0.106	0.234	0.690	See Note 1	0.01	0.01	0.01	Hotspot SAR	Back	0.484	0.106	0.234	0.690	1.280	
	Front	0.496	0.103	0.249	0.031	0.630	N/A	N/A	N/A		Front	0.457	0.103	0.249	0.031	0.591	
	Top	-	-	-	0.179	0.179	N/A	N/A	N/A		Top	-	-	-	0.179	0.179	
	Bottom	0.413	-	-	-	0.413	N/A	N/A	N/A		Bottom	0.769	-	-	-	0.769	
	Right	0.300	-	-	-	0.300	N/A	N/A	N/A		Right	0.077	-	-	-	0.077	
	Left	0.067	0.176	0.529	0.690*	0.933	N/A	N/A	N/A		Left	0.101	0.176	0.529	0.690*	0.967	

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Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.409	0.106	0.234	0.690	0.749	1.205
	Front	0.357	0.103	0.249	0.031	0.709	0.491
	Top	-	-	-	0.179	0.000	0.179
	Bottom	0.983	-	-	-	0.983	0.983
	Right	0.056	-	-	-	0.056	0.056
	Left	0.062	0.176	0.529	0.690*	0.767	0.928

Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR			
		1	2	3	4	1+2+4	1+2	1+4	2+4	
Hotspot SAR	Back	0.821	0.106	0.234	0.690	See Note 1	0.01	0.01	0.01	
	Front	0.465	0.103	0.249	0.031	0.599	N/A	N/A	N/A	
	Top	-	-	-	0.179	0.179	N/A	N/A	N/A	
	Bottom	0.372	-	-	-	0.372	N/A	N/A	N/A	
	Right	0.309	-	-	-	0.309	N/A	N/A	N/A	
	Left	0.098	0.176	0.529	0.690*	0.964	N/A	N/A	N/A	

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.511	0.106	0.234	0.690	0.851	1.307
	Front	0.502	0.103	0.249	0.031	0.854	0.636
	Top	-	-	-	0.179	0.000	0.179
	Bottom	0.983	-	-	-	0.983	0.983
	Right	0.108	-	-	-	0.108	0.108
	Left	0.133	0.176	0.529	0.690*	0.838	0.999

Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.380	0.106	0.234	0.690	0.720	1.176
	Front	0.342	0.103	0.249	0.031	0.694	0.476
	Top	-	-	-	0.179	0.000	0.179
	Bottom	0.853	-	-	-	0.853	0.853
	Right	0.038	-	-	-	0.038	0.038
	Left	0.048	0.176	0.529	0.690*	0.753	0.914

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.401	0.106	0.234	0.690	0.741	1.197
	Front	0.218	0.103	0.249	0.031	0.570	0.352
	Top	-	-	-	0.179	0.000	0.179
	Bottom	0.930	-	-	-	0.930	0.930
	Right	0.021	-	-	-	0.021	0.021
	Left	0.033	0.176	0.529	0.690*	0.738	0.899

Simult Tx	Configuration	LTE Band 48 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+4
Hotspot SAR	Back	0.342	0.106	0.234	0.690	1.138
	Front	0.404	0.103	0.249	0.031	0.538
	Top	-	-	-	0.179	0.179
	Right	0.731	-	-	-	0.731
	Left	-	0.176	0.529	0.690*	0.866

Simult Tx	Configuration	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR			
		1	2	3	4	1+2+4	1+2	1+4	2+4	
Hotspot SAR	Back	0.840	0.106	0.234	0.690	See Note 1	0.01	0.01	0.01	
	Front	0.576	0.103	0.249	0.031	0.710	N/A	N/A	N/A	
	Top	-	-	-	0.179	0.179	N/A	N/A	N/A	
	Bottom	0.459	-	-	-	0.459	N/A	N/A	N/A	
	Right	0.314	-	-	-	0.314	N/A	N/A	N/A	
	Left	0.083	0.176	0.529	0.690*	0.949	N/A	N/A	N/A	

Simult Tx	Configuration	NR Band n66 (AWS) Antenna A SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.596	0.106	0.234	0.690	0.936	1.392
	Front	0.556	0.103	0.249	0.031	0.908	0.690
	Top	-	-	-	0.179	0.000	0.179
	Bottom	1.035	-	-	-	1.035	1.035
	Right	0.084	-	-	-	0.084	0.084
	Left	0.134	0.176	0.529	0.690*	0.839	1.000

Simult Tx	Configuration	NR Band n66 (AWS) Antenna I SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	Back	0.252	0.106	0.234	0.690	0.592	1.048
	Front	0.141	0.103	0.249	0.031	0.493	0.275
	Top	0.297	-	-	0.179	0.297	0.476
	Right	0.041	-	-	-	0.041	0.041
	Left	-	0.176	0.529	0.690*	0.705	0.866

Simult Tx	Configuration	NR Band n30 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+4
Hotspot SAR	Back	0.452	0.106	0.234	0.690	1.248
	Front	0.300	0.103	0.249	0.031	0.434
	Top	-	-	-	0.179	0.179
	Bottom	0.840	-	-	-	0.840
	Right	0.021	-	-	-	0.021
	Left	0.053	0.176	0.529	0.690*	0.919

Note 1 - No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

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Table 12-19
Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN MIMO (Hotspot at 1.0 cm)

Simult Tx	Configuration	SPLSR										Simult Tx	Configuration	SPLSR										
		EVDO BC10 (90S) SAR (W/kg)		2.4 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SAR (W/kg)		SAR (W/kg)				SAR (W/kg)		SAR (W/kg)		SAR (W/kg)		SAR (W/kg)		SAR (W/kg)		
		1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4			3+4	1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4
Hotspot SAR	Back	0.726	0.106	0.234	0.690	See Note 1	0.01	0.01	0.01	0.01	0.01	0.02	Back	0.821	0.106	0.234	0.690	See Note 1	0.01	0.01	0.01	0.01	0.01	0.02
	Front	0.481	0.103	0.249	0.031	0.864	N/A	N/A	N/A	N/A	N/A	N/A	Front	0.375	0.103	0.249	0.031	0.758	N/A	N/A	N/A	N/A	N/A	N/A
	Top	-	-	-	0.179	0.179	N/A	N/A	N/A	N/A	N/A	N/A	Top	-	-	-	0.179	0.179	N/A	N/A	N/A	N/A	N/A	
	Bottom	0.405	-	-	-	0.405	N/A	N/A	N/A	N/A	N/A	N/A	Bottom	0.412	-	-	-	0.412	N/A	N/A	N/A	N/A	N/A	N/A
	Right	0.279	-	-	-	0.279	N/A	N/A	N/A	N/A	N/A	N/A	Right	0.256	-	-	-	0.256	N/A	N/A	N/A	N/A	N/A	N/A
Left	0.093	0.176	0.529	0.690*	1.488	N/A	N/A	N/A	N/A	N/A	N/A	Left	0.060	0.176	0.529	0.690*	1.455	N/A	N/A	N/A	N/A	N/A	N/A	
Simult Tx	Configuration	PCS EVDO SAR (W/kg)		2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 850 SAR (W/kg)		2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR								
		1	2	3	4	1+2+3+4	1			2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4					
		Back <td>0.468</td> <td>0.106</td> <td>0.234</td> <td>0.690</td> <td>1.498</td> <td>Back</td> <td>0.845</td> <td>0.106</td> <td>0.234</td> <td>0.690</td> <td>See Note 1</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.02</td>	0.468	0.106	0.234	0.690	1.498			Back	0.845	0.106	0.234	0.690	See Note 1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Hotspot SAR	Front	0.409	0.103	0.249	0.031	0.792	0.792	Hotspot SAR	Front	0.522	0.103	0.249	0.031	0.905	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Top	-	-	-	-	0.179	0.179		Top	-	-	-	-	0.179	0.179	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bottom	0.909	-	-	-	-	0.909		Bottom	0.406	-	-	-	-	0.406	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Right	0.068	-	-	-	-	0.068		Right	0.266	-	-	-	-	0.266	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Left	0.068	0.176	0.529	0.690*	1.463	1.463		Left	0.074	0.176	0.529	0.690*	1.469	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Simult Tx	Configuration	GPRS 1900 SAR (W/kg)		2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 850 SAR (W/kg)		2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR								
		1	2	3	4	1+2+3+4	1			2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4					
		Back <td>0.354</td> <td>0.106</td> <td>0.234</td> <td>0.690</td> <td>1.384</td> <td>Back</td> <td>0.840</td> <td>0.106</td> <td>0.234</td> <td>0.690</td> <td>See Note 1</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.02</td>	0.354	0.106	0.234	0.690	1.384			Back	0.840	0.106	0.234	0.690	See Note 1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Hotspot SAR	Front	0.308	0.103	0.249	0.031	0.691	0.691	Hotspot SAR	Front	0.496	0.103	0.249	0.031	0.879	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Top	-	-	-	-	0.179	0.179		Top	-	-	-	-	0.179	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Bottom	1.018	-	-	-	-	1.018		Bottom	0.413	-	-	-	-	0.413	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Right	0.055	-	-	-	-	0.055		Right	0.300	-	-	-	-	0.300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Left	0.053	0.176	0.529	0.690*	1.448	1.448		Left	0.067	0.176	0.529	0.690*	1.462	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)		2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)		2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR								
		1	2	3	4	1+2+3+4	1			2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4					
		Back <td>0.484</td> <td>0.106</td> <td>0.234</td> <td>0.690</td> <td>1.514</td> <td>Back</td> <td>0.409</td> <td>0.106</td> <td>0.234</td> <td>0.690</td> <td>1.439</td>	0.484	0.106	0.234	0.690	1.514			Back	0.409	0.106	0.234	0.690	1.439									
Hotspot SAR	Front	0.457	0.103	0.249	0.031	0.840	0.840	Hotspot SAR	Front	0.357	0.103	0.249	0.031	0.740	0.740									
	Top	-	-	-	-	0.179	0.179		Top	-	-	-	-	0.179	0.179									
	Bottom	0.769	-	-	-	-	0.769		Bottom	0.983	-	-	-	-	0.983									
	Right	0.077	-	-	-	-	0.077		Right	0.056	-	-	-	-	0.056									
	Left	0.101	0.176	0.529	0.690*	1.496	1.496		Left	0.062	0.176	0.529	0.690*	1.457										
Simult Tx	Configuration	LTE Band 71 SAR (W/kg)		2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)		2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR								
		1	2	3	4	1+2+3+4	1			2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4					
		Back <td>0.353</td> <td>0.106</td> <td>0.234</td> <td>0.690</td> <td>1.383</td> <td>Back</td> <td>0.455</td> <td>0.106</td> <td>0.234</td> <td>0.690</td> <td>1.485</td>	0.353	0.106	0.234	0.690	1.383			Back	0.455	0.106	0.234	0.690	1.485									
Hotspot SAR	Front	0.233	0.103	0.249	0.031	0.616	0.616	Hotspot SAR	Front	0.250	0.103	0.249	0.031	0.633	0.633									
	Top	-	-	-	-	0.179	0.179		Top	-	-	-	-	0.179	0.179									
	Bottom	0.170	-	-	-	-	0.170		Bottom	0.236	-	-	-	-	0.236									
	Right	0.312	-	-	-	-	0.312		Right	0.239	-	-	-	-	0.239									
	Left	0.152	0.176	0.529	0.690*	1.547	1.547		Left	0.115	0.176	0.529	0.690*	1.510										
Simult Tx	Configuration	LTE Band 13 SAR (W/kg)		2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 14 SAR (W/kg)		2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR								
		1	2	3	4	1+2+3+4	1			2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4					
		Back <td>0.486</td> <td>0.106</td> <td>0.234</td> <td>0.690</td> <td>1.516</td> <td>Back</td> <td>0.557</td> <td>0.106</td> <td>0.234</td> <td>0.690</td> <td>1.587</td>	0.486	0.106	0.234	0.690	1.516			Back	0.557	0.106	0.234	0.690	1.587									
Hotspot SAR	Front	0.342	0.103	0.249	0.031	0.725	0.725	Hotspot SAR	Front	0.362	0.103	0.249	0.031	0.745	0.745									
	Top	-	-	-	-	0.179	0.179		Top	-	-	-	-	0.179	0.179									
	Bottom	0.312	-	-	-	-	0.312		Bottom	0.340	-	-	-	-	0.340									
	Right	0.265	-	-	-	-	0.265		Right	0.311	-	-	-	-	0.311									
	Left	0.123	0.176	0.529	0.690*	1.518	1.518		Left	0.149	0.176	0.529	0.690*	1.544										
Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)		2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)		2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR								
		1	2	3	4	1+2+3+4	1			2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4					
		Back <td>0.697</td> <td>0.106</td> <td>0.234</td> <td>0.690</td> <td>See Note 1</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.02</td> <td>Back</td> <td>0.821</td> <td>0.106</td> <td>0.234</td> <td>0.690</td> <td>See Note 1</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.01</td> <td>0.02</td>	0.697	0.106	0.234	0.690	See Note 1			0.01	0.01	0.01	0.01	0.01	0.02	Back	0.821	0.106	0.234	0.690	See Note 1	0.01	0.01	0.01
Hotspot SAR	Front	0.449	0.103	0.249	0.031	0.832	N/A	N/A	N/A	N/A	N/A	N/A	Front	0.465	0.103	0.249	0.031	0.848	N/A	N/A	N/A	N/A	N/A	N/A
	Top	-	-	-	0.179	0.179	N/A	N/A	N/A	N/A	N/A	N/A	Top	-	-	-	0.179	0.179	N/A	N/A	N/A	N/A	N/A	
	Bottom	0.382	-	-	-	0.382	N/A	N/A	N/A	N/A	N/A	N/A	Bottom	0.372	-	-	-	0.372	N/A	N/A	N/A	N/A	N/A	N/A
	Right	0.282	-	-	-	0.282	N/A	N/A	N/A	N/A	N/A	N/A	Right	0.256	-	-	-	0.256	N/A	N/A	N/A	N/A	N/A	N/A
	Left	0.093	0.176	0.529	0.690*	1.488	N/A	N/A	N/A	N/A	N/A	N/A	Left	0.098	0.176	0.529	0.690*	1.493	N/A	N/A	N/A	N/A	N/A	N/A

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Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.511	0.106	0.234	0.690	1.541	Hotspot SAR	Back	0.380	0.106	0.234	0.690	1.410
	Front	0.502	0.103	0.249	0.031	0.885		Front	0.342	0.103	0.249	0.031	0.725
	Top	-	-	-	0.179	0.179		Top	-	-	-	0.179	0.179
	Bottom	0.983	-	-	-	0.983		Bottom	0.853	-	-	-	0.853
	Right	0.108	-	-	-	0.108		Right	0.038	-	-	-	0.038
	Left	0.133	0.176	0.529	0.690*	1.528		Left	0.048	0.176	0.529	0.690*	1.443

Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.401	0.106	0.234	0.690	1.431	Hotspot SAR	Back	0.310	0.106	0.234	0.690	1.340
	Front	0.218	0.103	0.249	0.031	0.601		Front	0.248	0.103	0.249	0.031	0.631
	Top	-	-	-	0.179	0.179		Top	-	-	-	0.179	0.179
	Bottom	0.930	-	-	-	0.930		Bottom	0.280	-	-	-	0.280
	Right	0.021	-	-	-	0.021		Right	0.126	-	-	-	0.126
	Left	0.033	0.176	0.529	0.690*	1.428		Left	0.126	0.176	0.529	0.690*	1.521

Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 48 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.319	0.106	0.234	0.690	1.349	Hotspot SAR	Back	0.342	0.106	0.234	0.690	1.372
	Front	0.283	0.103	0.249	0.031	0.666		Front	0.404	0.103	0.249	0.031	0.787
	Top	-	-	-	0.179	0.179		Top	-	-	-	0.179	0.179
	Bottom	0.349	-	-	-	0.349		Bottom	0.731	-	-	-	0.731
	Right	0.127	-	-	-	0.127		Right	0.127	-	-	-	0.127
	Left	0.127	0.176	0.529	0.690*	1.522		Left	0.127	0.176	0.529	0.690*	1.395

Simult Tx	Configuration	NR Band n71 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n12 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.358	0.106	0.234	0.690	1.388	Hotspot SAR	Back	0.474	0.106	0.234	0.690	1.504
	Front	0.215	0.103	0.249	0.031	0.598		Front	0.239	0.103	0.249	0.031	0.622
	Top	-	-	-	0.179	0.179		Top	-	-	-	0.179	0.179
	Bottom	0.145	-	-	-	0.145		Bottom	0.239	-	-	-	0.239
	Right	0.299	-	-	-	0.299		Right	0.285	-	-	-	0.285
	Left	0.167	0.176	0.529	0.690*	1.562		Left	0.159	0.176	0.529	0.690*	1.554

Simult Tx	Configuration	NR Band n5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Hotspot SAR	Back	0.840	0.106	0.234	0.690	See Note 1	0.01	0.01	0.01	0.01	0.01	0.02
	Front	0.576	0.103	0.249	0.031	0.959	N/A	N/A	N/A	N/A	N/A	N/A
	Top	-	-	-	0.179	0.179	N/A	N/A	N/A	N/A	N/A	N/A
	Bottom	0.459	-	-	-	0.459	N/A	N/A	N/A	N/A	N/A	N/A
	Right	0.314	-	-	-	0.314	N/A	N/A	N/A	N/A	N/A	N/A
	Left	0.083	0.176	0.529	0.690*	1.478	N/A	N/A	N/A	N/A	N/A	N/A
Simult Tx	Configuration	NR Band n66 (AWS) Antenna A SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	SPLSR					
		1	2	3	4	1+2+3+4	1+2	1+3	1+4	2+3	2+4	3+4
Hotspot SAR	Back	0.596	0.106	0.234	0.690	See Note 1	0.01	0.01	0.01	0.01	0.01	0.02
	Front	0.556	0.103	0.249	0.031	0.939	N/A	N/A	N/A	N/A	N/A	N/A
	Top	-	-	-	0.179	0.179	N/A	N/A	N/A	N/A	N/A	N/A
	Bottom	1.035	-	-	-	1.035	N/A	N/A	N/A	N/A	N/A	N/A
	Right	0.084	-	-	-	0.084	N/A	N/A	N/A	N/A	N/A	N/A
	Left	0.134	0.176	0.529	0.690*	1.529	N/A	N/A	N/A	N/A	N/A	N/A

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Simult Tx	Configuration	NR Band n66 (AWS) Antenna I SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.252	0.106	0.234	0.690	1.282
	Front	0.141	0.103	0.249	0.031	0.524
	Top	0.297	-	-	0.179	0.476
	Right	0.041	-	-	-	0.041
	Left	-	0.176	0.529	0.690*	1.395
Simult Tx	Configuration	NR Band n25 (PCS) Antenna A SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.252	0.106	0.234	0.690	1.282
	Front	0.223	0.103	0.249	0.031	0.606
	Top	-	-	-	0.179	0.179
	Bottom	0.643	-	-	-	0.643
	Right	0.039	-	-	-	0.039
	Left	0.038	0.176	0.529	0.690*	1.433
Simult Tx	Configuration	NR Band n30 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.452	0.106	0.234	0.690	1.482
	Front	0.300	0.103	0.249	0.031	0.683
	Top	-	-	-	0.179	0.179
	Bottom	0.840	-	-	-	0.840
	Right	0.021	-	-	-	0.021
	Left	0.053	0.176	0.529	0.690*	1.448
Simult Tx	Configuration	NR Band n41 Antenna B SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.088	0.106	0.234	0.690	1.118
	Front	0.064	0.103	0.249	0.031	0.447
	Top	-	-	-	0.179	0.179
	Bottom	0.080	-	-	-	0.080
	Right	-	-	-	-	0.000
	Left	0.036	0.176	0.529	0.690*	1.431
Simult Tx	Configuration	NR Band n41 Antenna I SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.100	0.106	0.234	0.690	1.130
	Front	0.090	0.103	0.249	0.031	0.473
	Top	0.106	-	-	0.179	0.285
	Right	0.029	-	-	-	0.029
	Left	-	0.176	0.529	0.690*	1.395
Simult Tx	Configuration	NR Band n77 SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.201	0.106	0.234	0.690	1.231
	Front	0.194	0.103	0.249	0.031	0.577
	Top	-	-	-	0.179	0.179
	Right	0.448	-	-	-	0.448
	Left	-	0.176	0.529	0.690*	1.395

Note 1 - No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

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12.6 Phablet Simultaneous Transmission Analysis

For SAR summation, the highest reported SAR across all test distances was used as the most conservative evaluation for simultaneous transmission analysis for each device edge.

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR (scaled to the maximum output power, including tolerance) < 1.2 W/kg. Therefore no further analysis beyond the tables included in this section was required to determine that possible simultaneous transmission scenarios would not exceed the SAR limit.

Table 12-20
Simultaneous Transmission Scenario with 5 GHz WLAN (Phablet)

Simult Tx		Configuration	GPRS 1900 SAR (W/kg)		5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)						SPLSR					
			1		2	3	1+2	1+3	1+2+3									
			Back	Front	Top	Bottom	Right	Left										
Phablet SAR	Back	1.679	0.370	2.018	2.049	3.697	See Note 1	0.03	0.05	0.10								
	Front	1.435	1.139	0.194	2.574	1.629	2.768	N/A	N/A	N/A								
	Top	-	-	0.278	0.000	0.278	0.278	N/A	N/A	N/A								
	Bottom	1.449	-	-	1.449	1.449	N/A	N/A	N/A	N/A								
	Right	0.414	-	-	0.414	0.414	0.414	N/A	N/A	N/A								
	Left	0.530	2.310	0.069	2.940	0.599	2.909	N/A	N/A	N/A								

Simult Tx		Configuration	UMTS 1750 SAR (W/kg)		5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)						SPLSR					
			1		2	3	1+2	1+3	1+2+3									
			Back	Front	Top	Bottom	Right	Left										
Phablet SAR	Back	2.325	0.370	2.018	2.695	See Note 1	See Note 1	0.04	0.06	0.10								
	Front	2.307	1.139	0.194	3.446	2.501	3.640	N/A	N/A	N/A								
	Top	-	-	0.278	0.000	0.278	0.278	N/A	N/A	N/A								
	Bottom	2.961	-	-	2.961	2.961	2.961	N/A	N/A	N/A								
	Right	0.538	-	-	0.538	0.538	0.538	N/A	N/A	N/A								
	Left	0.804	2.310	0.069	3.114	0.873	3.183	N/A	N/A	N/A								

Simult Tx		Configuration	UMTS 1900 SAR (W/kg)		5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)						SPLSR					
			1		2	3	1+2	1+3	1+2+3									
			Back	Front	Top	Bottom	Right	Left										
Phablet SAR	Back	1.581	0.370	2.018	1.951	3.599	3.969											
	Front	1.655	1.139	0.194	2.794	1.849	2.988											
	Top	-	-	0.278	0.000	0.278	0.278											
	Bottom	2.589	-	-	2.589	2.589	2.589											
	Right	0.507	-	-	0.507	0.507	0.507											
	Left	0.659	2.310	0.069	2.969	0.728	3.038											

Simult Tx		Configuration	LTE Band 66 (AWS) SAR (W/kg)		5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)						SPLSR					
			1		2	3	1+2	1+3	1+2+3									
			Back	Front	Top	Bottom	Right	Left										
Phablet SAR	Back	1.936	0.370	2.018	2.306	3.954	See Note 1	0.03	0.06	0.10								
	Front	2.189	1.139	0.194	3.328	2.383	3.522	N/A	N/A	N/A								
	Top	-	-	0.278	0.000	0.278	0.278	N/A	N/A	N/A								
	Bottom	2.500	-	-	2.500	2.500	N/A	N/A	N/A	N/A								
	Right	0.516	-	-	0.516	0.516	N/A	N/A	N/A	N/A								
	Left	0.753	2.310	0.069	3.063	0.822	3.132	N/A	N/A	N/A								

Simult Tx		Configuration	LTE Band 7 SAR (W/kg)		5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)						SPLSR					
			1		2	3	1+2	1+3	1+2+3									
			Back	Front	Top	Bottom	Right	Left										
Phablet SAR	Back	1.926	0.370	2.018	2.296	3.944	See Note 1	0.03	0.06	0.10								
	Front	1.234	1.139	0.194	2.373	1.428	2.567	N/A	N/A	N/A								
	Top	-	-	0.278	0.000	0.278	0.278	N/A	N/A	N/A								
	Bottom	1.497	-	-	1.497	1.497	N/A	N/A	N/A	N/A								
	Right	0.669	-	-	0.669	0.669	0.669	N/A	N/A	N/A								
	Left	1.192	2.310	0.069	3.502	1.261	3.571	N/A	N/A	N/A								

Simult Tx		Configuration	LTE Band 41 SAR (W/kg)		5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)						SPLSR					
			1		2	3	1+2	1+3	1+2+3									
			Back	Front	Top	Bottom	Right	Left										
Phablet SAR	Back	2.334	0.370	2.018	2.704	See Note 1	See Note 1	0.04	0.06	0.10								
	Front	1.196	1.139	0.194	2.335	1.390	2.529	N/A	N/A	N/A								
	Top	-	-	0.278	0.000	0.278	0.278	N/A	N/A	N/A								
	Bottom	2.153	-	-	2.153	2.153	N/A	N/A	N/A	N/A								
	Right	0.477	-	-	0.477	0.477	0.477	N/A	N/A	N/A								
	Left	0.859	2.310	0.069	3.169	0.928	3.238	N/A	N/A	N/A								

Simult Tx		Configuration	NR Band n66 (AWS) Antenna A SAR (W/kg)		5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)						SPLSR					
			1		2	3	1+2	1+3	1+2+3									
			Back	Front	Top	Bottom	Right	Left										
Phablet SAR	Back	2.014	0.370	2.018	2.384	See Note 1	See Note 1	0.03	0.06	0.10								
	Front	2.422	1.139	0.194	3.561	2.618	3.755	N/A	N/A	N/A								
	Top	-	-	0.278	0.000	0.278	0.278	N/A	N/A	N/A								
	Bottom	2.290	-	-	2.290	2.290	2.290	N/A	N/A	N/A								
	Right	0.477	-	-	0.477	0.477	0.477	N/A	N/A	N/A								
	Left	0.872	2.310	0.069	3.182	0.941	3.251	N/A	N/A	N/A								

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Simult Tx	Configuration	NR Band n25 (PCS) Antenna A SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Phablet SAR	Back	1.184	0.370	2.018	1.554	3.202	3.572
	Front	1.280	1.139	0.194	2.419	1.474	2.613
	Top	-	-	0.278	-	0.278	0.278
	Bottom	1.830	-	-	1.830	1.830	1.830
	Right	0.380	-	-	0.380	0.380	0.380
	Left	0.607	2.310	0.069	2.917	0.676	2.986

Simult Tx	Configuration	NR Band n41 Antenna B SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Phablet SAR	Back	0.428	0.370	2.018	0.798	2.446	2.816
	Front	0.353	1.139	0.194	1.492	0.547	1.686
	Top	-	-	0.278	0.000	0.278	0.278
	Bottom	0.494	-	-	0.494	0.494	0.494
	Right	0.271	2.310	0.069	2.581	0.340	2.650
	Left	-	-	-	-	-	-

Simult Tx	Configuration	NR Band n30 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)			SPLSR		
		1	2	3	1+2	1+3	1+2+3	1+2	1+3	2+3
Phablet SAR	Back	1.659	0.370	2.018	2.029	3.677	See Note 1	0.03	0.05	0.10
	Front	1.094	1.139	0.194	2.233	1.288	2.427	N/A	N/A	N/A
	Top	-	-	0.278	0.000	0.278	0.278	N/A	N/A	N/A
	Bottom	1.091	-	-	1.091	1.091	1.091	N/A	N/A	N/A
	Right	0.085	-	-	0.085	0.085	0.085	N/A	N/A	N/A
	Left	0.456	2.310	0.069	2.766	0.525	2.835	N/A	N/A	N/A

Simult Tx	Configuration	NR Band n77 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Phablet SAR	Back	1.121	0.370	2.018	1.491	3.139	3.509
	Front	1.903	1.139	0.194	3.042	2.097	3.236
	Top	-	-	0.278	0.000	0.278	0.278
	Right	3.149	-	-	3.149	3.149	3.149
	Left	-	2.310	0.069	2.310	0.069	2.379
	Bottom	-	-	-	-	-	-

Note 1 - No evaluation was performed to determine the aggregate 10g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.10 per FCC KDB 447498 D01v06. See Section 12.7 for detailed SPLS ratio analysis.

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12.7 SPLSR Evaluation and Analysis

Per FCC KDB Publication 447498 D01v06, when the sum of the standalone transmitters is more than 1.6 W/kg for 1g and 4 W/kg for 10g, the SAR sum to peak locations can be analyzed to determine SAR distribution overlaps. When the SAR peak to location ratio (shown below) for each pair of antennas is ≤ 0.04 for 1g and ≤ 0.10 for 10g, simultaneous SAR evaluation is not required. The distance between the transmitters was calculated using the following formula.

$$\text{Distance}_{\text{Tx1} - \text{Tx2}} = R_i = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2} \text{ (Body-Worn, Hotspot, Phablet)}$$

$$\text{SPLS Ratio} = \frac{(SAR_1 + SAR_2)^{1.5}}{R_i}$$

12.7.1 Body-Worn Back Side SPLSR Evaluation and Analysis

Table 12-21
Peak SAR Locations for Body-Worn Back Side

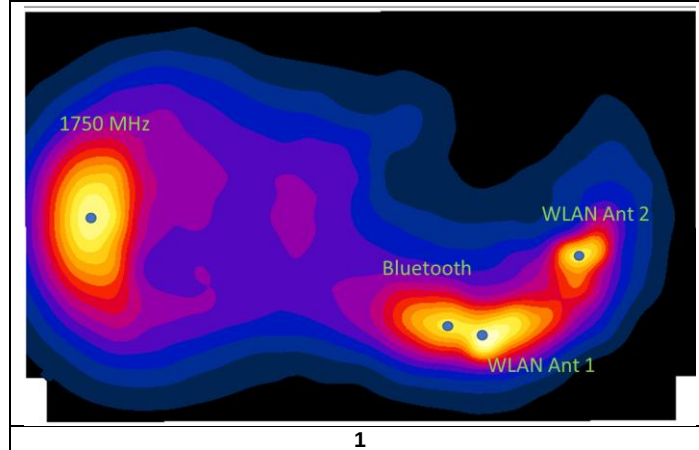
Mode/Band	x (mm)	y (mm)
5 GHz WLAN Ant 1	16.00	38.00
5 GHz WLAN Ant 2	-14.00	68.00
Bluetooth	6.20	18.00
UMTS 1750	-25.00	-82.50
LTE Band 66 (AWS)	-23.50	-79.50
NR Band n66 Antenna A (AWS)	-23.50	-84.00

Table 12-22
Body-Worn Back Side SAR to Peak Location Separation Ratio Calculations

Antenna Pair		Standalone SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D _{a-b}	(a+b) ^{1.5} /D _{a-b}	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.194	0.527	0.721	42.43	0.01	1
Bluetooth	5 GHz WLAN Ant 1	0.046	0.194	0.24	22.27	0.01	
Bluetooth	5 GHz WLAN Ant 2	0.046	0.527	0.573	53.93	0.01	
UMTS 1750	Bluetooth	0.930	0.046	0.976	105.23	0.01	
UMTS 1750	5 GHz WLAN Ant 1	0.930	0.194	1.124	127.28	0.01	
UMTS 1750	5 GHz WLAN Ant 2	0.930	0.527	1.457	150.90	0.01	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.194	0.527	0.721	42.43	0.01	
Bluetooth	5 GHz WLAN Ant 1	0.046	0.194	0.24	22.27	0.01	
Bluetooth	5 GHz WLAN Ant 2	0.046	0.527	0.573	53.93	0.01	
LTE Band 66 (AWS)	Bluetooth	0.918	0.046	0.964	101.92	0.01	
LTE Band 66 (AWS)	5 GHz WLAN Ant 1	0.918	0.194	1.112	123.96	0.01	
LTE Band 66 (AWS)	5 GHz WLAN Ant 2	0.918	0.527	1.445	147.81	0.01	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.194	0.527	0.721	42.43	0.01	
Bluetooth	5 GHz WLAN Ant 1	0.046	0.194	0.24	22.27	0.01	
Bluetooth	5 GHz WLAN Ant 2	0.046	0.527	0.573	53.93	0.01	
NR Band n66 Antenna A (AWS)	Bluetooth	0.952	0.046	0.998	106.24	0.01	
NR Band n66 Antenna A (AWS)	5 GHz WLAN Ant 1	0.952	0.194	1.146	128.24	0.01	
NR Band n66 Antenna A (AWS)	5 GHz WLAN Ant 2	0.952	0.527	1.479	152.30	0.01	

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Table 12-23
Back Side SAR to Peak Location Separation Ratio Plots



12.7.2 Hotspot Back Side SPLSR Evaluation and Analysis

Table 12-24
Peak SAR Locations for Hotspot Back Side

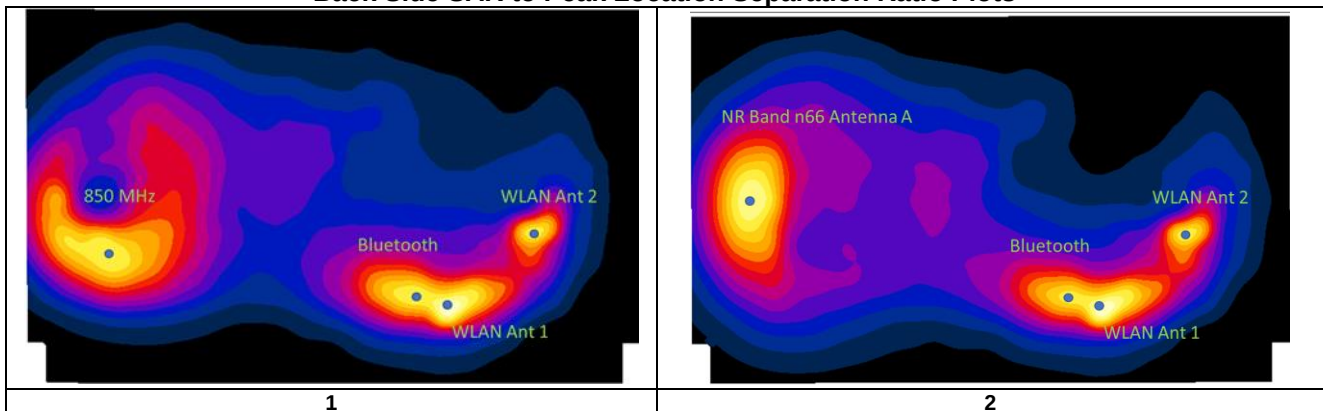
Mode/Band	x (mm)	y (mm)
5 GHz WLAN Ant 1	16.00	40.00
5 GHz WLAN Ant 2	-19.00	70.00
Bluetooth	8.60	21.60
EVDO BC10 (§90S)	-8.50	-81.50
EVDO BC0 (§22H)	-8.50	-81.50
GPRS 850	-7.00	-81.50
UMTS 850	-8.50	-73.50
LTE Band 5 (Cell)	-12.00	-80.00
LTE Band 26 (Cell)	-8.50	-81.50
NR Band n5 (Cell)	-9.00	-81.50
NR Band n66 Antenna A (AWS)	-22.00	-81.00

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Table 12-25
Hotspot Back Side SAR to Peak Location Separation Ratio Calculations

Antenna Pair		Standalone SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D _{a-b}	(a+b) ^{1.5} /D _{a-b}	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.234	0.690	0.924	46.10	0.02	1
Bluetooth	5 GHz WLAN Ant 1	0.106	0.234	0.34	19.83	0.01	
Bluetooth	5 GHz WLAN Ant 2	0.106	0.690	0.796	55.72	0.01	
EVDO BC10 (\$90S)	Bluetooth	0.726	0.106	0.832	104.51	0.01	
EVDO BC10 (\$90S)	5 GHz WLAN Ant 1	0.726	0.234	0.96	123.95	0.01	
EVDO BC10 (\$90S)	5 GHz WLAN Ant 2	0.726	0.690	1.416	151.86	0.01	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.234	0.690	0.924	46.10	0.02	
Bluetooth	5 GHz WLAN Ant 1	0.106	0.234	0.34	19.83	0.01	
Bluetooth	5 GHz WLAN Ant 2	0.106	0.690	0.796	55.72	0.01	
EVDO BC0 (\$22H)	Bluetooth	0.821	0.106	0.927	104.51	0.01	
EVDO BC0 (\$22H)	5 GHz WLAN Ant 1	0.821	0.234	1.055	123.95	0.01	
EVDO BC0 (\$22H)	5 GHz WLAN Ant 2	0.821	0.690	1.511	151.86	0.01	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.234	0.690	0.924	46.10	0.02	
Bluetooth	5 GHz WLAN Ant 1	0.106	0.234	0.34	19.83	0.01	
Bluetooth	5 GHz WLAN Ant 2	0.106	0.690	0.796	55.72	0.01	
GPRS 850	Bluetooth	0.845	0.106	0.951	104.27	0.01	
GPRS 850	5 GHz WLAN Ant 1	0.845	0.234	1.079	123.66	0.01	
GPRS 850	5 GHz WLAN Ant 2	0.845	0.690	1.535	151.97	0.01	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.234	0.690	0.924	46.10	0.02	
Bluetooth	5 GHz WLAN Ant 1	0.106	0.234	0.34	19.83	0.01	
Bluetooth	5 GHz WLAN Ant 2	0.106	0.690	0.796	55.72	0.01	
UMTS 850	Bluetooth	0.840	0.106	0.946	96.63	0.01	
UMTS 850	5 GHz WLAN Ant 1	0.840	0.234	1.074	116.11	0.01	
UMTS 850	5 GHz WLAN Ant 2	0.840	0.690	1.53	143.88	0.01	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.234	0.690	0.924	46.10	0.02	2
Bluetooth	5 GHz WLAN Ant 1	0.106	0.234	0.34	19.83	0.01	
Bluetooth	5 GHz WLAN Ant 2	0.106	0.690	0.796	55.72	0.01	
UMTS 850	Bluetooth	0.840	0.106	0.946	96.63	0.01	
UMTS 850	5 GHz WLAN Ant 1	0.840	0.234	1.074	116.11	0.01	
UMTS 850	5 GHz WLAN Ant 2	0.840	0.690	1.53	143.88	0.01	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.234	0.690	0.924	46.10	0.02	
Bluetooth	5 GHz WLAN Ant 1	0.106	0.234	0.34	19.83	0.01	
Bluetooth	5 GHz WLAN Ant 2	0.106	0.690	0.796	55.72	0.01	
LTE Band 5 (Cell)	Bluetooth	0.697	0.106	0.803	103.67	0.01	
LTE Band 5 (Cell)	5 GHz WLAN Ant 1	0.697	0.234	0.931	123.22	0.01	
LTE Band 5 (Cell)	5 GHz WLAN Ant 2	0.697	0.690	1.387	150.16	0.01	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.234	0.690	0.924	46.10	0.02	
Bluetooth	5 GHz WLAN Ant 1	0.106	0.234	0.34	19.83	0.01	
Bluetooth	5 GHz WLAN Ant 2	0.106	0.690	0.796	55.72	0.01	
LTE Band 26 (Cell)	Bluetooth	0.821	0.106	0.927	104.51	0.01	
LTE Band 26 (Cell)	5 GHz WLAN Ant 1	0.821	0.234	1.055	123.95	0.01	
LTE Band 26 (Cell)	5 GHz WLAN Ant 2	0.821	0.690	1.511	151.86	0.01	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.234	0.690	0.924	46.10	0.02	
Bluetooth	5 GHz WLAN Ant 1	0.106	0.234	0.34	19.83	0.01	
Bluetooth	5 GHz WLAN Ant 2	0.106	0.690	0.796	55.72	0.01	
NR Band n5 (Cell)	Bluetooth	0.840	0.106	0.946	104.59	0.01	
NR Band n5 (Cell)	5 GHz WLAN Ant 1	0.840	0.234	1.074	124.05	0.01	
NR Band n5 (Cell)	5 GHz WLAN Ant 2	0.840	0.690	1.53	151.83	0.01	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.234	0.690	0.924	46.10	0.02	
Bluetooth	5 GHz WLAN Ant 1	0.106	0.234	0.34	19.83	0.01	
Bluetooth	5 GHz WLAN Ant 2	0.106	0.690	0.796	55.72	0.01	
NR Band n66 Antenna A (AWS)	Bluetooth	0.596	0.106	0.702	107.07	0.01	
NR Band n66 Antenna A (AWS)	5 GHz WLAN Ant 1	0.596	0.234	0.83	126.83	0.01	
NR Band n66 Antenna A (AWS)	5 GHz WLAN Ant 2	0.596	0.690	1.286	151.03	0.01	

Table 12-26
Back Side SAR to Peak Location Separation Ratio Plots



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12.7.3 Phablet Back Side SPLSR Evaluation and Analysis

Table 12-27
Peak SAR Locations for Phablet Back Side

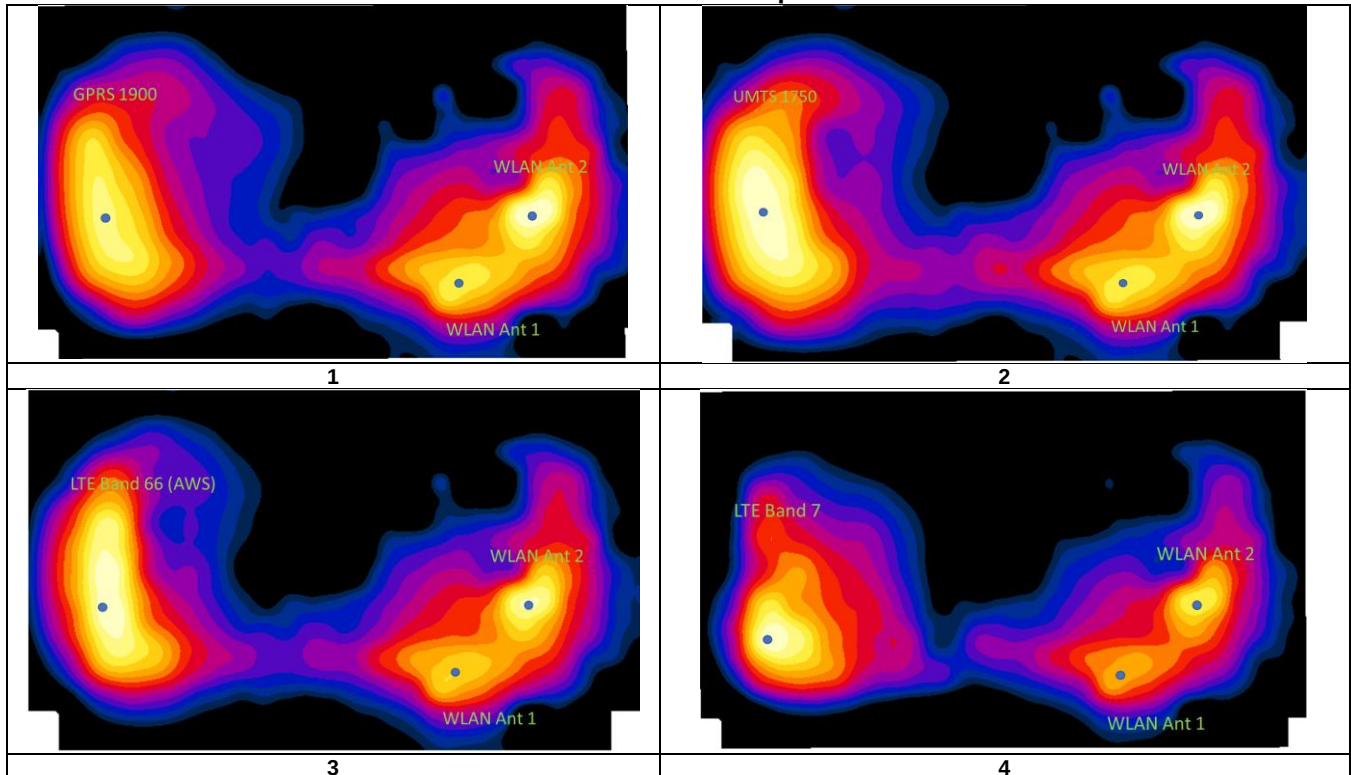
Mode/Band	x (mm)	y (mm)
5 GHz WLAN Ant 1	11.00	32.00
5 GHz WLAN Ant 2	-10.00	64.00
GPRS 1900	-9.60	-73.30
UMTS 1750	-3.00	-82.50
LTE Band 66 (AWS)	-11.50	-75.00
LTE Band 7	-12.20	-77.40
LTE Band 41	0.40	-79.40
NR Band n66 Antenna A	-28.00	-81.00
NR Band n30	-9.40	-68.40

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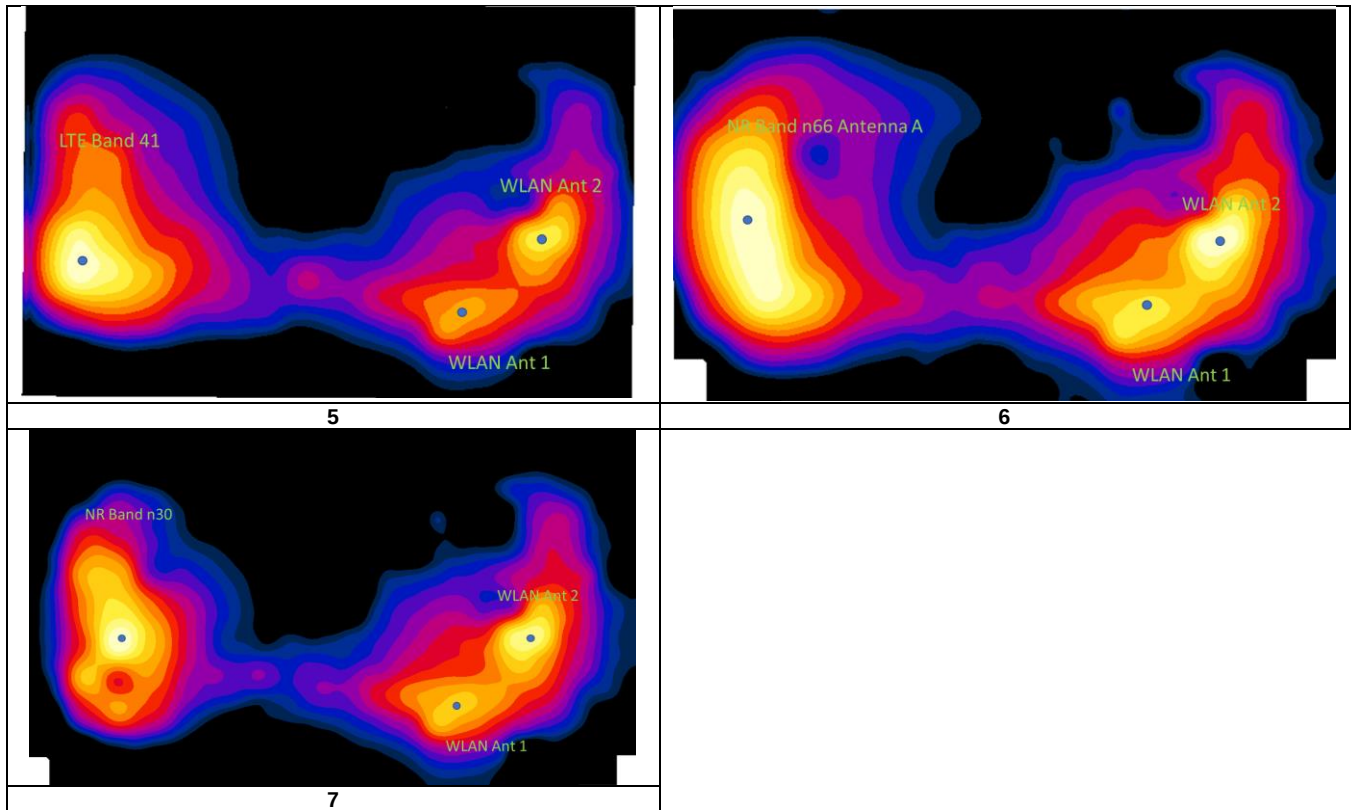
Table 12-28
Phablet Back Side SAR to Peak Location Separation Ratio Calculations

Antenna Pair		Standalone SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D _{a-b}	$(a+b)^{1.5}/D_{a-b}$	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.370	2.018	2.388	38.28	0.10	1
GPRS 1900	5 GHz WLAN Ant 1	1.679	0.370	2.049	107.30	0.03	
GPRS 1900	5 GHz WLAN Ant 2	1.679	2.018	3.697	137.30	0.05	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.370	2.018	2.388	38.28	0.10	2
UMTS 1750	5 GHz WLAN Ant 1	2.325	0.370	2.695	115.35	0.04	
UMTS 1750	5 GHz WLAN Ant 2	2.325	2.018	4.343	146.67	0.06	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.370	2.018	2.388	38.28	0.10	3
LTE Band 66 (AWS)	5 GHz WLAN Ant 1	1.936	0.370	2.306	109.34	0.03	
LTE Band 66 (AWS)	5 GHz WLAN Ant 2	1.936	2.018	3.954	139.01	0.06	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.370	2.018	2.388	38.28	0.10	4
LTE Band 7	5 GHz WLAN Ant 1	1.926	0.370	2.296	111.83	0.03	
LTE Band 7	5 GHz WLAN Ant 2	1.926	2.018	3.944	141.42	0.06	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.370	2.018	2.388	38.28	0.10	5
LTE Band 41	5 GHz WLAN Ant 1	2.334	0.370	2.704	111.90	0.04	
LTE Band 41	5 GHz WLAN Ant 2	2.334	2.018	4.352	143.78	0.06	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.370	2.018	2.388	38.28	0.10	6
NR Band n66 Antenna A	5 GHz WLAN Ant 1	2.014	0.370	2.384	119.54	0.03	
NR Band n66 Antenna A	5 GHz WLAN Ant 2	2.014	2.018	4.032	146.11	0.06	
5 GHz WLAN Ant 1	5 GHz WLAN Ant 2	0.370	2.018	2.388	38.28	0.10	7
NR Band n30	5 GHz WLAN Ant 1	1.659	0.370	2.029	102.45	0.03	
NR Band n30	5 GHz WLAN Ant 2	1.659	2.018	3.677	132.40	0.05	

Table 12-29
Back Side SAR to Peak Location Separation Ratio Plots



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12.8 Simultaneous Transmission Conclusion

The above numerical summed SAR results and SPLSR analysis are sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

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13 SAR MEASUREMENT VARIABILITY

13.1 Measurement Variability

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

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 ($\sim 10\%$ 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 13-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	# of Time Slots	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), Antenna A, 40 MHz Bandwidth	DFT-s-OFDM QPSK, 216 RB, 0 RB Offset	N/A	bottom	10 mm	1.030	1.010	1.02	N/A	N/A	N/A	N/A
1900	1909.80	810	GSM 1900	GPRS	4	bottom	10 mm	0.803	0.780	1.03	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	N/A	bottom	10 mm	0.830	0.830	1.00	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 13-2
Phablet SAR Measurement Variability Results

PHABLET VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Data Rate (Mbps)	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	1732.40	1412	UMTS 1750	RMC	N/A	bottom	0 mm	2.490	2.130	1.17	N/A	N/A	N/A	N/A
1900	1852.40	9262	UMTS 1900	RMC	N/A	bottom	0 mm	2.110	2.050	1.03	N/A	N/A	N/A	N/A
3700	3750.00	650000	NR Band n77, 100 MHz Bandwidth	DFT-s-OFDM, 135 RB, 69 RB Offset	N/A	right	0 mm	3.090	3.040	1.02	N/A	N/A	N/A	N/A
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	DFT-s-OFDM, 135 RB, 69 RB Offset	N/A	right	0 mm	2.810	2.790	1.01	N/A	N/A	N/A	N/A
5600	5600.00	120	802.11a, 20 MHz Bandwidth	OFDM , ANT 1	6	left	0 mm	2.110	2.060	1.02	N/A	N/A	N/A	N/A
5750	5720.00	144	802.11a, 20 MHz Bandwidth	OFDM , ANT 1	6	left	0 mm	2.170	2.080	1.04	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							

13.2 Measurement Uncertainty

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

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14 ADDITIONAL TESTING PER FCC GUIDANCE

14.1 Tuner Testing

Per April 2019 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 11 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Per FCC Guidance, during NR testing the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other than impedance matching.

To evaluate all the tuner states, the 120 tuner states were divided among the aggregate band, mode and exposure combinations. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state was able to be established remotely so that the device was not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe remained stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was $> 1.2 \text{ W/kg}$ for a particular band/mode/exposure condition, point SAR measurements were made for all 120 states.

The operational description contains more information about the design and implementation of the dynamic antenna tuning.

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Table 14-1
UMTS/CDMA Supplemental Head SAR Data

Supplemental Head SAR Data											
UMTS B5		UMTS B4		UMTS B2		CDMA BC10		CDMA BC0		CDMA BC1	
RMC		RMC		RMC		EVDO Rev.A		EVDO Rev.A		EVDO Rev.A	
Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek
Frequency (MHz)	836.60	Frequency (MHz)	1732.40	Frequency (MHz)	1880.00	Frequency (MHz)	820.10	Frequency (MHz)	836.52	Frequency (MHz)	1880.00
Channel	4183	Channel	1412	Channel	9400	Channel	564	Channel	384	Channel	600
Measured 1g SAR (W/kg)	0.176	Measured 1g SAR (W/kg)	0.155	Measured 1g SAR (W/kg)	0.127	Measured 1g SAR (W/kg)	0.249	Measured 1g SAR (W/kg)	0.194	Measured 1g SAR (W/kg)	0.139
Average Value of Time Sweep (W/kg)											
Auto-tune (State 0)	0.237	Auto-tune (State 26)	0.222	Auto-tune (State 14)	0.180	Auto-tune (State 0)	0.323	Auto-tune (State 0)	0.258	Auto-tune (State 113)	0.200
Default (State 0)	0.237	Default (State 0)	0.182	Default (State 0)	0.176	Default (State 0)	0.322	Default (State 0)	0.249	Default (State 0)	0.211
State 0	0.237	State 26	0.227	State 2	0.174	State 0	0.322	State 0	0.249	State 1	0.211
State 3	0.206	State 61	0.177	State 14	0.175	State 80	0.205	State 51	0.010	State 15	0.215
State 20	0.121	State 81	0.165	State 17	0.168	State 95	0.225	State 83	0.205	State 33	0.211
State 38	0.003	State 101	0.109	State 34	0.167	State 107	0.328	State 102	0.010	State 44	0.143
State 57	0.198	State 116	0.234	State 48	0.056	State 114	0.128	State 118	0.171	State 113	0.201

Table 14-2
LTE Supplemental Head SAR Data

Supplemental Head SAR Data											
LTE B71		LTE B12		LTE B13		LTE B14		LTE B5		LTE B26	
QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	782.00	Frequency (MHz)	836.50	Frequency (MHz)	836.50
Channel	133297	Channel	23095	Channel	23230	Channel	23330	Channel	20525	Channel	20825
Measured 1g SAR (W/kg)	0.077	Measured 1g SAR (W/kg)	0.133	Measured 1g SAR (W/kg)	0.142	Measured 1g SAR (W/kg)	0.173	Measured 1g SAR (W/kg)	0.171	Measured 1g SAR (W/kg)	0.181
Average Value of Time Sweep (W/kg)											
Auto-tune (State 2)	0.102	Auto-tune (State 0)	0.165	Auto-tune (State 1)	0.221	Auto-tune (State 2)	0.250	Auto-tune (State 42)	0.232	Auto-tune (State 0)	0.248
Default (State 0)	0.114	Default (State 0)	0.152	Default (State 0)	0.180	Default (State 0)	0.225	Default (State 0)	0.239	Default (State 0)	0.242
State 2	0.138	State 0	0.152	State 1	0.209	State 0	0.225	State 0	0.239	State 0	0.242
State 4	0.103	State 2	0.159	State 7	0.165	State 2	0.242	State 5	0.241	State 13	0.198
State 18	0.102	State 6	0.132	State 19	0.113	State 11	0.049	State 31	0.161	State 37	0.263
State 40	0.098	State 35	0.013	State 26	0.016	State 23	0.039	State 42	0.243	State 47	0.095
State 60	0.019	State 59	0.037	State 56	0.138	State 49	0.053	State 53	0.111	State 68	0.199
State 104	0.115	State 82	0.073	State 67	0.136	State 88	0.076	State 77	0.009	State 96	0.187
State 112	0.115	State 119	0.036	State 94	0.103	State 117	0.181	State 96	0.183	State 115	0.240

Table 14-3
NR Supplemental Head SAR Data

Supplemental Head SAR Data									
NR Band n71		NR Band n12		NR Band n5		NR Band n66		NR Band n25/2	
DTF-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 53 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 1 RB, 108 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 1 RB, 1 RB Offset	
Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	836.50	Frequency (MHz)	1745.00	Frequency (MHz)	1882.50
Channel	136100	Channel	141500	Channel	167300	Channel	349000	Channel	376500
Measured 1g SAR (W/kg)	0.078	Measured 1g SAR (W/kg)	0.103	Measured 1g SAR (W/kg)	0.146	Measured 1g SAR (W/kg)	0.217	Measured 1g SAR (W/kg)	0.132
Average Value of Time Sweep (W/kg)									
Auto-tune (State 104)	0.104	Auto-tune (State 0)	0.138	Auto-tune (State 0)	0.186	Auto-tune (State 26)	0.308	Auto-tune (State 0)	0.168
Default (State 0)	0.092	Default (State 0)	0.138	Default (State 0)	0.186	Default (State 0)	0.261	Default (State 0)	0.168
State 2	0.094	State 0	0.138	State 0	0.186	State 12	0.059	State 0	0.168
State 47	0.050	State 2	0.153	State 9	0.055	State 26	0.308	State 4	0.162
State 67	0.044	State 8	0.105	State 42	0.141	State 28	0.302	State 16	0.182
State 92	0.033	State 26	0.041	State 65	0.175	State 30	0.294	State 46	0.055
State 104	0.104	State 58	0.080	State 75	0.026	State 34	0.231	State 72	0.070
State 112	0.100	State 93	0.069	State 99	0.055	State 63	0.158	State 110	0.148
State 113	0.069	State 113	0.094	State 115	0.181	State 112	0.255	State 118	0.155

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Table 14-4
UMTS/CDMA Supplemental Body SAR Data

Supplemental Body SAR Data																							
UMTS B5				UMTS B4				UMTS B2				CDMA BC10				CDMA BC0				CDMA BC1			
RMC		RMC		RMC		RMC		EVDO Rev0		EVDO Rev0		EVDO Rev0		EVDO Rev0		EVDO Rev0		EVDO Rev0		EVDO Rev0		EVDO Rev0	
Test Position	Back	Test Position	Back	Test Position	Bottom	Test Position	Bottom	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Bottom	Test Position	Bottom	Test Position	Bottom	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	15 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	846.60	Frequency (MHz)	1732.40	Frequency (MHz)	1907.60	Frequency (MHz)	820.10	Frequency (MHz)	820.10	Frequency (MHz)	848.31	Frequency (MHz)	848.31	Frequency (MHz)	1906.75	Frequency (MHz)	1906.75	Frequency (MHz)	1906.75	Frequency (MHz)	1906.75	Frequency (MHz)	1906.75
Channel	4233	Channel	1412	Channel	9538	Channel	564	Channel	564	Channel	777	Channel	777	Channel	1175	Channel	1175	Channel	1175	Channel	1175	Channel	1175
Measured 1g SAR (W/kg)	0.694	Measured 1g SAR (W/kg)	0.744	Measured 1g SAR (W/kg)	0.758	Measured 1g SAR (W/kg)	0.577	Measured 1g SAR (W/kg)	0.577	Measured 1g SAR (W/kg)	0.657	Measured 1g SAR (W/kg)	0.657	Measured 1g SAR (W/kg)	0.790	Measured 1g SAR (W/kg)	0.790	Measured 1g SAR (W/kg)	0.790	Measured 1g SAR (W/kg)	0.790	Measured 1g SAR (W/kg)	0.790
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 39)	1.178	Auto-tune (State 26)	1.158	Auto-tune (State 4)	1.221	Auto-tune (State 3)	0.952	Auto-tune (State 39)	1.071	Auto-tune (State 39)	1.071	Auto-tune (State 39)	1.071	Auto-tune (State 2)	1.303	Auto-tune (State 2)	1.303	Auto-tune (State 2)	1.303	Auto-tune (State 2)	1.303	Auto-tune (State 2)	1.303
Default (State 0)	1.074	Default (State 0)	0.922	Default (State 0)	1.220	Default (State 0)	0.878	Default (State 0)	0.878	Default (State 0)	0.878	Default (State 0)	0.878	Default (State 0)	1.242	Default (State 0)	1.242	Default (State 0)	1.242	Default (State 0)	1.242	Default (State 0)	1.242
State 20	0.568	State 10	0.431	State 0	1.220	State 3	0.924	State 24	0.138	State 0	1.242	State 24	0.138	State 0	1.242	State 24	0.138	State 0	1.242	State 24	0.138	State 0	1.242
State 39	1.117	State 26	1.153	State 1	1.217	State 11	0.195	State 39	1.067	State 1	1.268	State 39	1.067	State 1	1.268	State 39	1.067	State 1	1.268	State 39	1.067	State 1	1.268
State 43	0.861	State 27	1.092	State 2	1.216	State 39	0.925	State 50	0.118	State 2	1.263	State 39	0.925	State 50	0.118	State 2	1.263	State 39	0.925	State 50	0.118	State 2	1.263
State 78	0.591	State 64	0.442	State 3	1.214	State 62	0.06	State 77	0.057	State 3	1.254	State 62	0.06	State 77	0.057	State 3	1.254	State 62	0.06	State 77	0.057	State 3	1.254
State 103	0.027	State 113	1.038	State 4	1.209	State 67	0.226	State 108	0.395	State 4	1.258	State 67	0.226	State 108	0.395	State 4	1.258	State 67	0.226	State 108	0.395	State 4	1.258
				State 5	1.209									State 5	1.258							State 5	1.258
				State 6	1.182									State 6	1.221							State 6	1.221
				State 7	1.15									State 7	1.178							State 7	1.178
				State 8	1.085									State 8	1.111							State 8	1.111
				State 9	0.965									State 9	0.985							State 9	0.985
				State 10	0.853									State 10	0.866							State 10	0.866
				State 11	0.695									State 11	0.702							State 11	0.702
				State 12	0.487									State 12	0.494							State 12	0.494
				State 13	1.168									State 13	1.225							State 13	1.225
				State 14	1.189									State 14	1.239							State 14	1.239
				State 15	1.192									State 15	1.243							State 15	1.243
				State 16	1.198									State 16	1.244							State 16	1.244
				State 17	1.199									State 17	1.245							State 17	1.245
				State 18	1.195									State 18	1.244							State 18	1.244
				State 19	1.189									State 19	1.237							State 19	1.237
				State 20	1.172									State 20	1.197							State 20	1.197
				State 21	1.12									State 21	1.142							State 21	1.142
				State 22	1.011									State 22	1.028							State 22	1.028
				State 23	0.901									State 23	0.914							State 23	0.914
				State 24	0.738									State 24	0.748							State 24	0.748
				State 25	0.518									State 25	0.527							State 25	0.527
				State 26	0.896									State 26	1.047							State 26	1.047
				State 27	1.046									State 27	1.097							State 27	1.097
				State 28	1.059									State 28	1.111							State 28	1.111
				State 29	1.065									State 29	1.123							State 29	1.123
				State 30	1.086									State 30	1.146							State 30	1.146
				State 31	1.085									State 31	1.142							State 31	1.142
				State 32	1.125									State 32	1.178							State 32	1.178
				State 33	1.144									State 33	1.194							State 33	1.194
				State 34	1.151									State 34	1.199							State 34	1.199
				State 35	1.094									State 35	1.119							State 35	1.119
				State 36	0.986									State 36	1.012							State 36	1.012
				State 37	0.812									State 37	0.827							State 37	0.827
				State 38	0.547									State 38	0.555							State 38	0.555
				State 39	0.943									State 39	0.952							State 39	0.952
				State 40	0.914									State 40	0.917							State 40	0.917
				State 41	0.919									State 41	0.932							State 41	0.932
				State 42	0.904									State 42	0.917							State 42	0.917
				State 43	0.878									State 43	0.887							State 43	0.887
				State 44	0.853									State 44	0.862							State 44	0.862
				State 45	0.801									State 45	0.806							State 45	0.806
				State 46	0.746									State 46	0.748							State 46	0.748
				State 47	0.65									State 47	0.681							State 47	0.681
				State 48	0.519									State 48	0.519							State 48	0.519
				State 49	0.426									State 49	0.425							State 49	0.425
				State 50	0.321									State 50	0.318							State 50	0.318
				State 51	0.208									State 51	0.208							State 51	0.208
				State 52	0.922									State 52	0.963							State 52	0.963
				State 53	0.977									State 53	1.015							State 53	1.015
				State 54	0.994									State 54	1.031							State 54	1.031
				State 55	1.006									State 55	1.045							State 55	1.045
				State 56	1.029									State 56	1.067							State 56	1.067
				State 57	1.026									State 57	1.068							State 57	1.068
				State 58	1.086									State 58	1.124							State 58	1.124
				State 59	1.122									State 59	1.157							State 59	1.157
				State 60	1.149									State 60	1.178							State 60	1.178
				State 61	1.16									State 61	1.142							State 61	1.142
				State 62	1.099									State 62	1.091							State 62	1.091
				State 63	0.8									State 63	0.866							State 63	0.866
				State 64	0.572									State 64	0.572							State 64	0.572
				State 65	0.999									State 65	1.012							State 65	1.012
				State 66	1.012									State 66	1.022							State 66	1.022
				State 67	1.006									State 67	1.011							State 67	1.011
				State 68	0.993									State 68	0.999							State 68	0.999
				State 69	0.973									State 69	0.975							State 69	0.975
				State 70	0.977									State 70	0.98							State 70	0.98
				State 71	0.9									State 71	0.905							State 71	0.905
				State 72	0.843									State 72	0.843							State 72	0.843
				State 73	0.741									State 73	0.742							State 73	0.742
				State 74	0.598									State 74	0.597								

Table 14-5
LTE Supplemental Body SAR Data

Supplemental Body SAR Data															
LTE B71		LTE B12		LTE B13		LTE B14		LTE B5		LTE B26		LTE B66/4		LTE B25/2	
QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset		QPSK, 20 MHz Bandwidth, 50 RB, 25 RB Offset		QPSK, 20 MHz Bandwidth, 50 RB, 25 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00	Frequency (MHz)	835.50	Frequency (MHz)	831.50	Frequency (MHz)	1745.00	Frequency (MHz)	1905.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330	Channel	20525	Channel	26865	Channel	132322	Channel	26590
Measured 1g SAR (W/kg)	0.295	Measured 1g SAR (W/kg)	0.393	Measured 1g SAR (W/kg)	0.419	Measured 1g SAR (W/kg)	0.481	Measured 1g SAR (W/kg)	0.568	Measured 1g SAR (W/kg)	0.680	Measured 1g SAR (W/kg)	0.837	Measured 1g SAR (W/kg)	0.853
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.502	Auto-tune (State 0)	0.619	Auto-tune (State 1)	0.679	Auto-tune (State 1)	0.774	Auto-tune (State 39)	0.940	Auto-tune (State 39)	1.077	Auto-tune (State 14)	1.262	Auto-tune (State 18)	1.151
Default (State 0)	0.564	Default (State 0)	0.711	Default (State 0)	0.543	Default (State 0)	0.725	Default (State 0)	0.850	Default (State 0)	1.003	Default (State 0)	1.257	Default (State 0)	1.159
State 0	0.564	State 0	0.711	State 0	0.543	State 0	0.725	State 3	0.909	State 0	1.003	State 0	1.257	State 0	1.159
State 5	0.494	State 1	0.740	State 1	0.638	State 1	0.803	State 26	0.296	State 22	0.287	State 1	1.209	State 1	1.177
State 8	0.301	State 19	0.485	State 25	0.028	State 5	0.790	State 35	0.227	State 39	1.024	State 2	1.196	State 13	1.152
State 37	0.039	State 55	0.362	State 33	0.322	State 21	0.27	State 39	0.94	State 43	0.81	State 3	1.169	State 18	1.156
State 75	0.075	State 71	0.408	State 56	0.426	State 32	0.494	State 42	0.844	State 65	0.889	State 4	1.135	State 24	0.723
State 94	0.246	State 84	0.285	State 73	0.136	State 74	0.126	State 70	0.573	State 90	0.044	State 5	1.138	State 42	0.862
State 102	0.015	State 97	0.366	State 100	0.042	State 86	0.088	State 85	0.565	State 99	0.298	State 6	1.065	State 76	0.356
State 112	0.089	State 107	0.682	State 116	0.11	State 101	0.036	State 103	0.02	State 111	0.369	State 7	1.002	State 106	0.964
												State 8	0.912		
												State 9	0.79		
												State 10	0.684		
												State 11	0.573		
												State 12	0.423		
												State 13	1.321		
												State 14	1.301		
												State 15	1.303		
												State 16	1.287		
												State 17	1.274		
												State 18	1.279		
												State 19	1.222		
												State 20	1.185		
												State 21	1.117		
												State 22	1.011		
												State 23	0.921		
												State 24	0.796		
												State 25	0.602		
												State 26	1.288		
												State 27	1.289		
												State 28	1.284		
												State 29	1.276		
												State 30	1.255		
												State 31	1.251		
												State 32	1.206		
												State 33	1.144		
												State 34	1.056		
												State 35	0.922		
												State 36	0.804		
												State 37	0.667		
												State 38	0.478		
												State 39	0.68		
												State 40	0.638		
												State 41	0.622		
												State 42	0.61		
												State 43	0.583		
												State 44	0.58		
												State 45	0.516		
												State 46	0.474		
												State 47	0.415		
												State 48	0.338		
												State 49	0.295		
												State 50	0.222		
												State 51	0.153		
												State 52	1.164		
												State 53	1.184		
												State 54	1.188		
												State 55	1.19		
												State 56	1.196		
												State 57	1.205		
State 58	1.199														
State 59	1.181														
State 60	1.142														
State 61	1.067														
State 62	0.984														
State 63	0.85														
State 64	0.641														
State 65	0.782														
State 66	0.771														
State 67	0.764														
State 68	0.759														
State 69	0.74														
State 70	0.746														
State 71	0.691														
State 72	0.655														
State 73	0.584														
State 74	0.509														
State 75	0.443														
State 76	0.364														
State 77	0.265														
State 78	1.179														
State 79	1.122														
State 80	1.114														
State 81	1.102														
State 82	1.077														
State 83	1.056														
State 84	0.986														
State 85	0.853														
State 86	0.872														
State 87	0.76														
State 88	0.659														
State 89	0.545														
State 90	0.401														
State 91	1.213														
State 92	1.209														
State 93	1.196														
State 94	1.193														
State 95	1.183														
State 96	1.185														
State 97	1.146														
State 98	1.118														
State 99	1.063														
State 100	0.967														
State 101	0.886														
State 102	0.763														
State 103	0.592														
State 104	1.25														
State 105	1.325														
State 106	1.321														
State 107	0.682														
State 108	1.18														
State 109	0.791														
State 110	1.181														
State 111	1.22														
State 112	1.256														
State 113	1.326														
State 114	1.319														
State 115	0.684														
State 116	1.154														
State 117	0.788														
State 118	1.184														
State 119	1.217														

Table 14-6
NR Supplemental Body SAR Data

NR Band n71		NR Band n12		Supplemental Body SAR Data		NR Band n66		NR Band n252	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 216 RB, 0 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 1 RB, 1 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Bottom	Test Position	Back
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	15 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	836.50	Frequency (MHz)	1745.00	Frequency (MHz)	1898.50
Channel	136100	Channel	141500	Channel	167300	Channel	349000	Channel	376500
Measured 1g SAR (W/kg)	0.302	Measured 1g SAR (W/kg)	0.361	Measured 1g SAR (W/kg)	0.699	Measured 1g SAR (W/kg)	1.030	Measured 1g SAR (W/kg)	0.657
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.517	Auto-tune (State 0)	0.602	Auto-tune (State 39)	1.148	Auto-tune (State 26)	1.666	Auto-tune (State 33)	1.060
Default (State 0)	0.517	Default (State 0)	0.602	Default (State 0)	1.139	Default (State 0)	1.553	Default (State 0)	0.939
State 0	0.517	State 0	0.602	State 1	1.125	State 0	1.553	State 0	0.939
State 5	0.435	State 1	0.656	State 3	1.078	State 1	1.494	State 23	0.533
State 9	0.246	State 11	0.160	State 28	0.782	State 2	1.473	State 33	1.060
State 25	0.03	State 29	0.256	State 39	1.148	State 3	1.452	State 46	0.309
State 41	0.443	State 50	0.141	State 42	0.937	State 4	1.41	State 62	0.638
State 66	0.496	State 69	0.487	State 52	0.4	State 5	1.399	State 84	0.715
State 89	0.049	State 92	0.267	State 79	0.842	State 6	1.294	State 98	0.781
State 111	0.065	State 107	0.625	State 105	0.941	State 7	1.223	State 109	0.718
						State 8	1.116		
						State 9	0.968		
						State 10	0.87		
						State 11	0.72		
						State 12	0.531		
						State 13	1.67		
						State 14	1.644		
						State 15	1.636		
						State 16	1.627		
						State 17	1.601		
						State 18	1.602		
						State 19	1.541		
						State 20	1.492		
						State 21	1.417		
						State 22	1.305		
						State 23	1.187		
						State 24	1.027		
						State 25	0.791		
						State 26	1.666		
						State 27	1.605		
						State 28	1.595		
						State 29	1.585		
						State 30	1.569		
						State 31	1.573		
						State 32	1.516		
						State 33	1.453		
						State 34	1.353		
						State 35	1.19		
						State 36	1.053		
						State 37	0.874		
						State 38	0.636		
						State 39	0.821		
						State 40	0.778		
						State 41	0.756		
						State 42	0.745		
						State 43	0.714		
						State 44	0.716		
						State 45	0.634		
						State 46	0.589		
						State 47	0.516		
						State 48	0.422		
						State 49	0.357		
						State 50	0.283		
						State 51	0.195		
						State 52	1.45		
						State 53	1.474		
						State 54	1.487		
						State 55	1.493		
						State 56	1.507		
						State 57	1.51		
						State 58	1.505		
						State 59	1.5		
						State 60	1.464		
						State 61	1.379		
						State 62	1.289		
						State 63	1.135		
						State 64	0.892		
						State 65	0.96		
						State 66	0.964		
						State 67	0.951		
						State 68	0.941		
						State 69	0.922		
						State 70	0.923		
						State 71	0.863		
						State 72	0.826		
						State 73	0.755		
						State 74	0.657		
						State 75	0.578		
						State 76	0.477		
						State 77	0.35		
						State 78	1.45		
						State 79	1.392		
						State 80	1.374		
						State 81	1.366		
						State 82	1.323		
						State 83	1.32		
						State 84	1.236		
						State 85	1.172		
						State 86	1.096		
						State 87	0.938		
						State 88	0.827		
						State 89	0.69		
						State 90	0.514		
						State 91	1.494		
						State 92	1.496		
						State 93	1.488		
						State 94	1.479		
						State 95	1.466		
						State 96	1.467		
						State 97	1.423		
						State 98	1.389		
						State 99	1.345		
						State 100	1.237		
						State 101	1.132		
						State 102	0.98		
						State 103	0.769		
						State 104	1.565		
						State 105	1.651		
						State 106	1.64		
						State 107	0.824		
						State 108	1.454		
						State 109	0.955		
						State 110	1.462		
						State 111	1.529		
						State 112	1.558		
						State 113	1.665		
						State 114	1.641		
						State 115	0.819		
						State 116	1.462		
						State 117	0.952		
						State 118	1.456		
						State 119	1.524		

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14.2 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 14-7
LTE Band 41 Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25	28
Measured Output Power (dBm)	24.24	27.4
Measured SAR (W/kg)	0.0572	0.0858
Measured Power (mW)	265.46	549.54
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	168.04	237.95
% deviation from expected linearity		5.93%

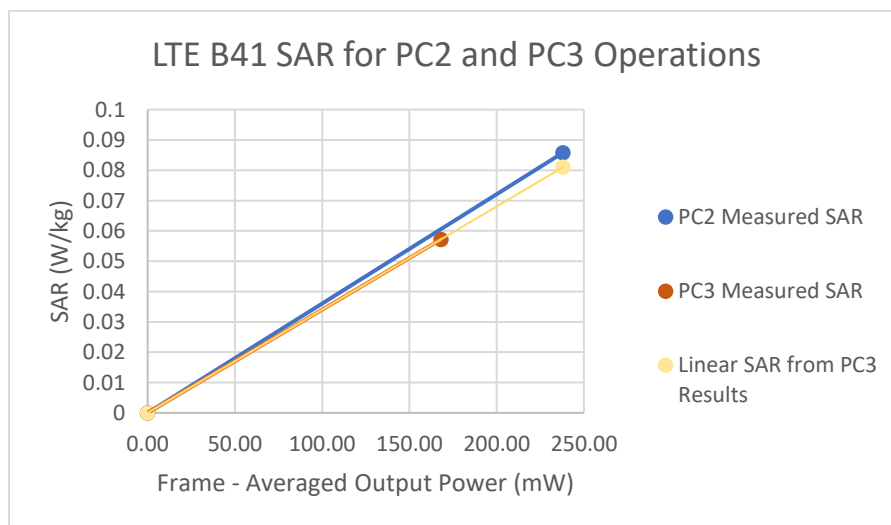


Figure 14-1
LTE Band 41 Head Linearity

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Table 14-8
LTE Band 41 ULCA Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25	28
Measured Output Power (dBm)	24.99	27.88
Measured SAR (W/kg)	0.0652	0.0823
Measured Power (mW)	315.50	613.76
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	199.71	265.76
% deviation from expected linearity		-5.14%

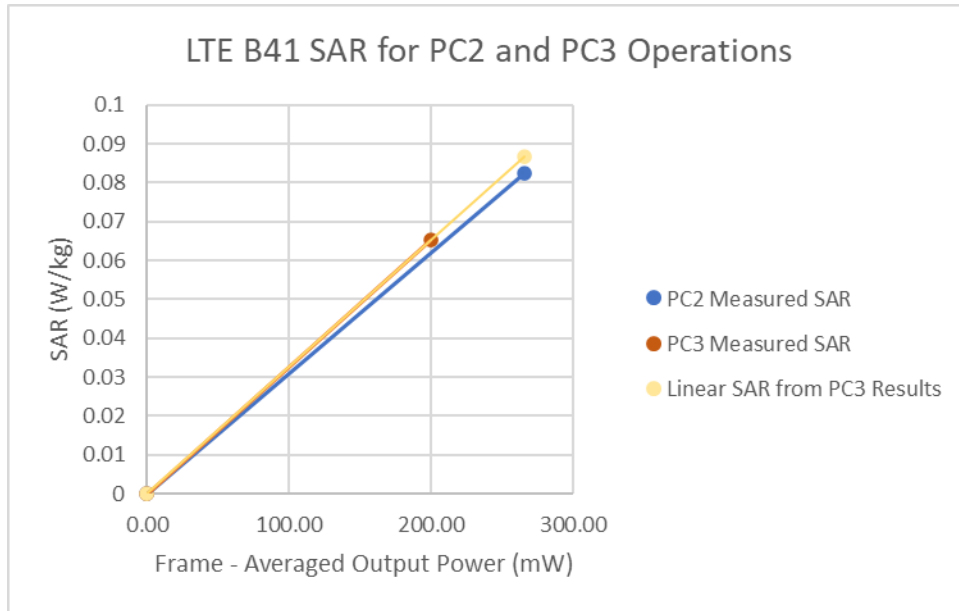


Figure 14-2
LTE Band 41 ULCA Head Linearity

FCC ID: A3LSMG996U	 Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 14-9
LTE Band 41 Body-Worn Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25	28
Measured Output Power (dBm)	24.24	27.4
Measured SAR (W/kg)	0.242	0.323
Measured Power (mW)	265.46	549.54
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	168.04	237.95
% deviation from expected linearity		-5.75%

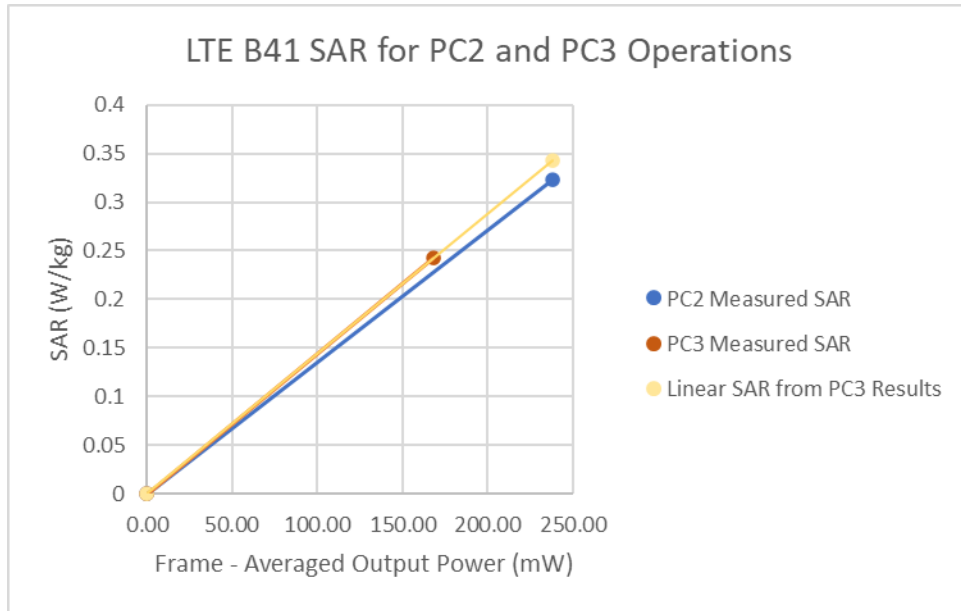


Figure 14-3
LTE Band 41 Body-Worn Linearity

FCC ID: A3LSMG996U	 Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 14-10
LTE Band 41 ULCA Body-Worn Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25	28
Measured Output Power (dBm)	24.99	27.88
Measured SAR (W/kg)	0.293	0.395
Measured Power (mW)	315.50	613.76
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	199.71	265.76
% deviation from expected linearity		1.31%

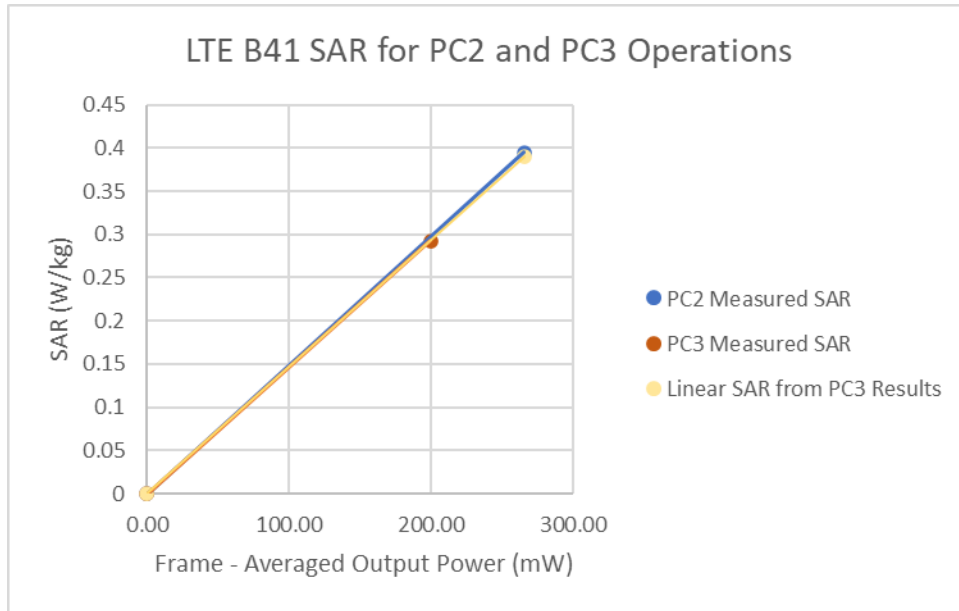


Figure 14-4
LTE Band 41 ULCA Body-Worn Linearity

FCC ID: A3LSMG996U	 Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 14-11
LTE Band 41 Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22	23.6
Measured Output Power (dBm)	21.24	22.71
Measured SAR (W/kg)	0.286	0.281
Measured Power (mW)	133.05	186.64
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	84.22	80.81
% deviation from expected linearity		2.39%

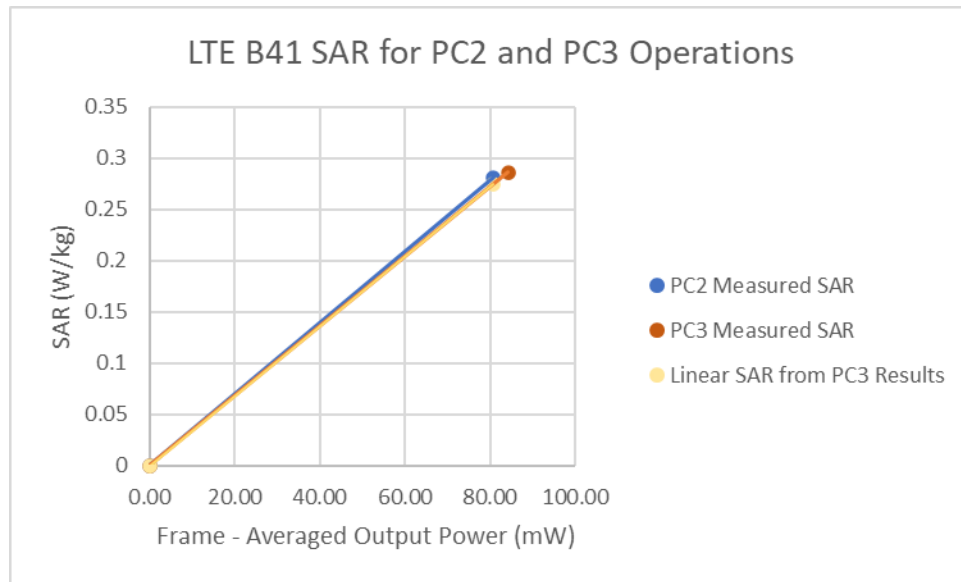


Figure 14-5
LTE Band 41 Hotspot Linearity

FCC ID: A3LSMG996U	 Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 14-12
LTE Band 41 ULCA Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22	23.6
Measured Output Power (dBm)	21.68	22.97
Measured SAR (W/kg)	0.309	0.302
Measured Power (mW)	147.23	198.15
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	93.20	85.80
% deviation from expected linearity		6.16%

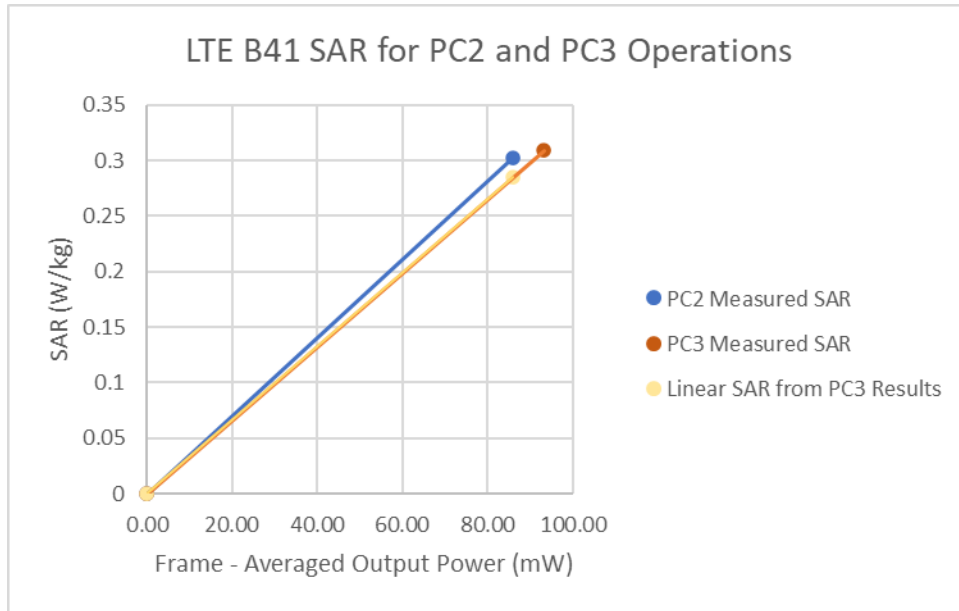


Figure 14-6
LTE Band 41 ULCA Hotspot Linearity

FCC ID: A3LSMG996U	 Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 14-13
LTE Band 41 Phablet Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23	24.6
Measured Output Power (dBm)	22.14	23.77
Measured SAR (W/kg)	1.85	1.77
Measured Power (mW)	163.68	238.23
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	103.61	103.15
% deviation from expected linearity		-3.90%

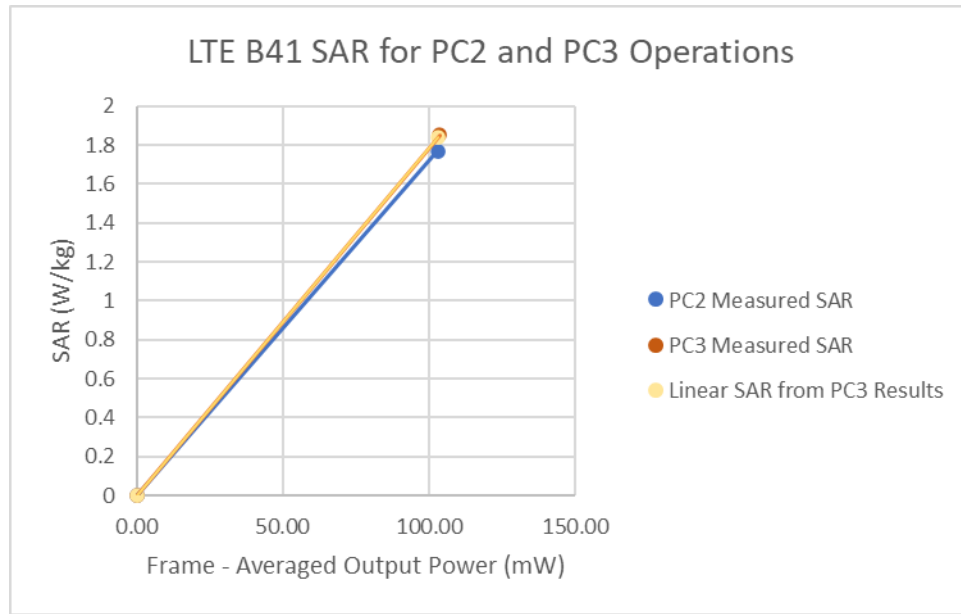


Figure 14-7
LTE Band 41 Phablet Linearity

FCC ID: A3LSMG996U	 Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 14-14
LTE Band 41 ULCA Phablet Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23	24.6
Measured Output Power (dBm)	22.24	23.73
Measured SAR (W/kg)	1.84	1.91
Measured Power (mW)	167.49	236.05
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	106.02	102.21
% deviation from expected linearity		7.68%

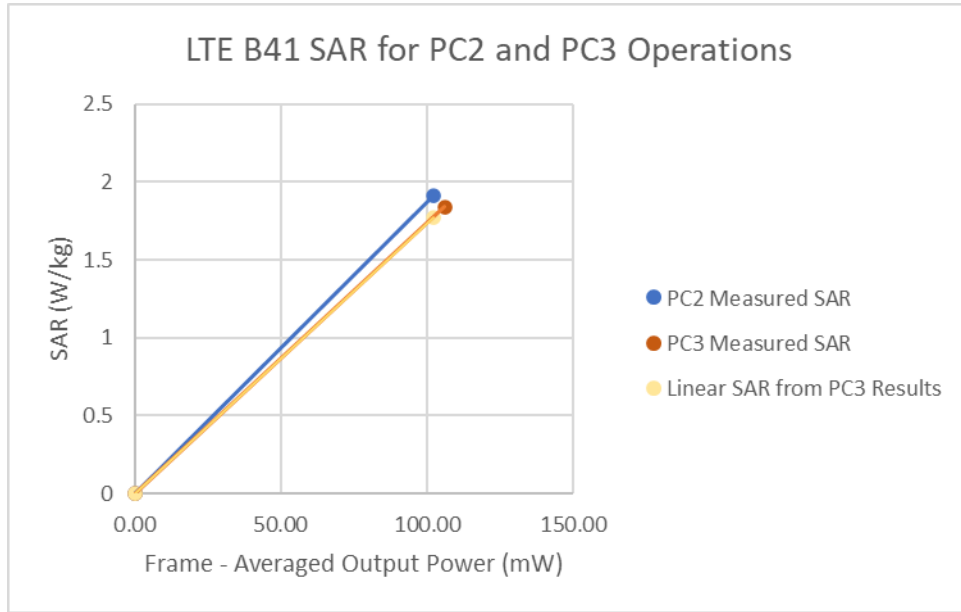


Figure 14-8
LTE Band 41 ULCA Phablet Linearity

FCC ID: A3LSMG996U	 Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
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15 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	85033E	1 5mm Standard Calibration Kit	6/6/2020	Annual	6/6/2021	MP53402332
Agilent	8594A	(8Hz-2 GHz) Spectrum Analyzer	N/A	N/A	N/A	3051A00387
Agilent	8753ES	Network Analyzer	3/5/2020	Annual	3/5/2021	MM40000472
Agilent	8753ES	S-Parameter Network Analyzer	12/31/2019	Annual	12/31/2020	U539170122
Agilent	E4438C	ESG Vector Signal Generator	12/13/2019	Annual	12/13/2020	MM42082659
Agilent	E4438C	ESG Vector Signal Generator	3/8/2019	Biennial	3/8/2021	MM42082385
Agilent	E5515C	8960 Series 10 Wireless Communications Test Set	2/10/2020	Annual	2/10/2021	GB42230225
Agilent	E5515C	Wireless Communications Test Set	2/26/2020	Annual	2/26/2021	GB44400860
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170664
Agilent	N5182A	MMG Vector Signal Generator	2/19/2020	Annual	2/19/2021	MM47420651
Agilent	N9030A	PKA Signal Analyzer (44GHz)	8/17/2020	Annual	8/17/2021	MM52350166
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433972
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Anritsu	MA24106A	USB Power Sensor	9/15/2020	Annual	9/15/2021	1244515
Anritsu	MA2410B	USB Power Sensor	2/21/2020	Annual	2/21/2021	1244524
Anritsu	MA2411B	Pulse Power Sensor	12/4/2019	Annual	12/4/2020	1126066
Anritsu	MA2411B	Pulse Power Sensor	1/21/2020	Annual	1/21/2021	1207470
Anritsu	ML2495A	Power Meter	11/15/2019	Annual	11/15/2020	1039008
Anritsu	ML2495A	Power Meter	12/17/2019	Annual	12/17/2020	941001
Anritsu	MT8821C	Radio Communication Analyzer	3/10/2020	Annual	3/10/2021	6200901190
Anritsu	MT8821C	Radio Communication Analyzer	6/15/2020	Annual	6/15/2021	6201381794
Anritsu	MT8821C	Radio Communication Analyzer	2/21/2020	Annual	2/21/2021	6201895213
Anritsu	MT8821C	Radio Communication Analyzer	11/22/2019	Annual	11/22/2020	6202044715
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/17/2020	Biennial	2/17/2022	200113269
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/17/2020	Biennial	2/17/2022	200113274
Control Company	4040	Therm./ Clock/ Humidity Monitor	3/6/2020	Biennial	3/6/2022	200170313
Control Company	4352	Long Stem Thermometer	6/26/2019	Biennial	6/26/2021	192282744
Control Company	4352	Long Stem Thermometer	6/26/2019	Biennial	6/26/2021	192282739
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181768819
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181768817
Keysight	7720	Dual Directional Coupler	CBT	N/A	CBT	MM52180215
KEYSIGHT	E4438C	VECTOR SIGNAL GENERATOR	6/22/2020	Annual	6/22/2021	MM45092078
Keyight Technologies	AT/N6705B	DC Power Supply	N/A	N/A	N/A	MM53001315
Keyight Technologies	N6705B	DC Power Analyzer	4/27/2019	Biennial	4/27/2021	MM53000509
Keyight Technologies	U3601A	Digital Multimeter	5/14/2020	Biennial	5/14/2022	MM57201470
Insize	1108-150	Digital Caliper	1/17/2020	Biennial	1/17/2022	40910536
MC1	BW-N40V1	6dB Attenuator	CBT	N/A	CBT	119
MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R897950903
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2500+	Low Pass Filter DC to 2000 MHz	CBT	N/A	CBT	N/A
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-SW2	Attenuator (3dB)	CBT	N/A	CBT	120
Pasternack	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	N/A
Pasternack	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	1445
Pasternack	PE2208-6	Bi-directional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2208-10	Bi-directional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	11/4/2020	Annual	11/4/2021	100976
Rohde & Schwarz	CMW500	Radio Communication Tester	11/5/2020	Annual	11/5/2021	112347
Rohde & Schwarz	CMW500	Radio Communication Tester	3/27/2020	Annual	3/27/2021	128633
Rohde & Schwarz	CMW500	Radio Communication Tester	5/21/2020	Annual	5/21/2021	128635
Rohde & Schwarz	ZNL16	Vector Network Analyzer	9/29/2020	Annual	9/29/2021	101307
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/12/2020	Annual	5/12/2021	1070
SPEAG	D1750V2	1750 MHz SAR Dipole	10/22/2018	Triennial	10/22/2021	1158
SPEAG	D1750V2	1750 MHz SAR Dipole	5/23/2018	Triennial	5/23/2021	1006
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Triennial	10/23/2021	56080
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Triennial	10/23/2021	56149
SPEAG	D1900V2	1900 MHz SAR Dipole	2/21/2019	Biennial	2/21/2021	56148
SPEAG	D2300V2	2300 MHz SAR Dipole	8/13/2018	Triennial	8/13/2021	1073
SPEAG	D2450V2	2450 MHz SAR Dipole	8/16/2018	Triennial	8/16/2021	981
SPEAG	D2600V2	2600 MHz SAR Dipole	4/11/2018	Triennial	4/11/2021	9604
SPEAG	D2600V2	2600 MHz SAR Dipole	11/12/2019	Annual	11/12/2020	1071
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	1064
SPEAG	D3500V2	3500 MHz SAR Dipole	1/21/2020	Annual	1/21/2021	1097
SPEAG	D3700V2	3700 MHz SAR Dipole	1/21/2020	Annual	1/21/2021	1067
SPEAG	D3900V2	3900 MHz SAR Dipole	10/9/2020	Annual	10/9/2021	1056
SPEAG	D564V2	5 GHz SAR Dipole	3/16/2018	Triennial	1/16/2021	1057
SPEAG	D564V2	5 GHz SAR Dipole	8/10/2018	Triennial	8/10/2021	1137
SPEAG	D750V1	750 MHz SAR Dipole	10/19/2018	Triennial	10/19/2021	1161
SPEAG	D750V1	750 MHz Dipole	3/11/2020	Annual	3/11/2021	1054
SPEAG	D835V2	835 MHz SAR Dipole	1/13/2020	Annual	1/13/2021	46132
SPEAG	D835V2	835 MHz SAR Dipole	10/19/2018	Triennial	10/19/2021	46133
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/12/2020	Annual	8/12/2021	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2020	Annual	1/13/2021	1530
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2020	Annual	1/13/2021	1538
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/21/2020	Annual	3/21/2021	1368
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2020	Annual	4/15/2021	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/20/2020	Annual	5/20/2021	728
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/18/2020	Annual	6/18/2021	1334
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/11/2020	Annual	8/11/2021	1450
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/14/2020	Annual	5/14/2021	1583
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/9/2019	Annual	12/9/2020	1533
SPEAG	EX3DV4	SAR Probe	1/21/2020	Annual	1/21/2021	3589
SPEAG	EX3DV4	SAR Probe	1/21/2020	Annual	1/21/2021	7488
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	5/18/2020	Annual	5/18/2021	7538
SPEAG	EX3DV4	SAR Probe	12/11/2019	Annual	12/11/2020	7570
SPEAG	EX3DV4	SAR Probe	12/11/2019	Annual	12/11/2020	7571
SPEAG	EX3DV4	SAR Probe	7/31/2020	Annual	7/31/2021	7308
SPEAG	EX3DV4	SAR Probe	10/20/2020	Annual	10/20/2021	7539
SPEAG	EX3DV4	SAR Probe	8/19/2020	Annual	8/19/2021	7547

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.
- Each equipment item was used solely within its respective calibration period.

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16 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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17 CONCLUSION

17.1 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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