



SAR EVALUATION REPORT

Applicant Name:
Apple Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Date of Testing:
12/20/2019 - 02/05/2020
Test Site/Location:
PCTEST Lab, Morgan Hill, CA, USA
Document Serial No.:
1C1912170055-01-R1.BCG

FCC ID: BCGA2232
APPLICANT: APPLE, INC.

DUT Type: Tablet Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: A2232
Additional Model(s): A2233

Equipment Class	Band & Mode	Tx Frequency	SAR
			1g Body (W/kg)
PCB	GPRS/EDGE 850	824.20 - 848.80 MHz	1.15
PCB	GPRS/EDGE 1900	1850.20 - 1909.80 MHz	1.01
PCB	UMTS 850	826.40 - 846.60 MHz	1.18
PCB	UMTS 1750	1712.4 - 1752.6 MHz	1.13
PCB	UMTS 1900	1852.4 - 1907.6 MHz	1.19
PCB	LTE Band 12	699.7 - 713.3 MHz	1.14
PCB	LTE Band 17	706.5 - 713.5 MHz	N/A
PCB	LTE Band 13	779.5 - 784.5 MHz	1.15
PCB	LTE Band 5 (Cell)	824.7 - 848.3 MHz	1.19
PCB	LTE Band 26 (Cell)	814.7 - 848.3 MHz	1.19
PCB	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	1.12
PCB	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	1.19
PCB	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	1.12
PCB	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	1.16
PCB	LTE Band 30	2307.5 - 2312.5 MHz	1.08
PCB	LTE Band 7	2502.5 - 2567.5 MHz	1.15
PCB	LTE Band 41	2496.5 - 2567.5 MHz	1.19
CBE	LTE Band 4B	3552.5 - 3697.5 MHz	1.19
DTTS	2.4 GHz WLAN	2412 - 2472 MHz	1.12
NII	U-NII-1	5150 - 5240 MHz	1.19
NII	U-NII-2A	5250 - 5320 MHz	N/A
NII	U-NII-2C	5500 - 5720 MHz	1.04
NII	U-NII-3	5745 - 5825 MHz	1.10
DSS/DTS	Bluetooth	2402 - 2480 MHz	1.16
Simultaneous SAR per KDB 690783 D01v0405:			1.59

Note: This revised Test Report (S/N: 1C1912170055-01-R1.BCG) 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 1.7 of this report; for North American frequency bands only.

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


Randy Ortanez
President



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

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GPRS/EDGE 850	Data	824.20 - 848.80 MHz
GPRS/EDGE 1900	Data	1850.20 - 1909.80 MHz
UMTS 850	Data	826.40 - 846.60 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 13	Data	779.5 - 784.5 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
LTE Band 48	Data	3552.5 - 3697.5 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz

1.2 Power Reduction for SAR

This device uses the manufacturer's proprietary motion detect mode to determine proximity to the user's body and set the licensed power level accordingly for SAR compliance. When being used in the hand or the body, the output power for licensed transmitters will always be reduced. Per FCC KDB Guidance, SAR testing was performed only using reduced output powers following the test positions in KDB Publication 616217.

This device additionally utilizes a power reduction mechanism for Bluetooth and WLAN operations. When WLAN/Bluetooth is operating simultaneously with certain combinations of 2G/3G/4G and 5 GHz WLAN antennas, the output power of is permanently reduced. SAR evaluations were additionally performed at the maximum allowed output power for these scenarios to evaluate simultaneous transmission compliance.

Detailed descriptions of the power reduction mechanisms are included in the operational description. The power reduction mechanisms were confirmed during the SAR Evaluation. Appendix G contains a summary of the verification results.

1.3 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.

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1.3.1 2G/3G/4G Output Power for Portable Use Conditions

Table 1-1
GPRS/EDGE 850

Antenna		Data- Burst Average GMSK (in dBm)		Data - Burst Average 8-PSK (in dBm)	
		1 TX Slots	2 TX Slots	1 TX Slots	2 TX Slots
Ant 1	Max allowed power	29.70	26.70	25.75	24.75
	Nominal	28.95	25.95	25.00	24.00
Ant 3	Max allowed power	29.50	28.00	27.75	26.75
	Nominal	28.75	27.25	27.00	26.00

Table 1-2
GPRS/EDGE 1900

Antenna		Data- Burst Average GMSK (in dBm)		Data - Burst Average 8-PSK (in dBm)	
		1 TX Slots	2 TX Slots	1 TX Slots	2 TX Slots
Ant 2a	Max allowed power	24.00	21.00	23.25	21.00
	Nominal	23.25	20.25	22.50	20.25
Ant 2b	Max allowed power	23.00	20.00	23.00	20.00
	Nominal	22.25	19.25	22.25	19.25
Ant 4a	Max allowed power	23.30	20.30	23.30	20.30
	Nominal	22.55	19.55	22.55	19.55
Ant 4b	Max allowed power	22.50	19.50	22.50	19.50
	Nominal	21.75	18.75	21.75	18.75

Table 1-3
UMTS B5 (850 MHz)

Antenna		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Ant 1	Max allowed power	20.70	20.70	20.70	20.70
	Nominal	20.20	20.20	20.20	20.20
Ant 3	Max allowed power	21.80	21.80	21.80	21.80
	Nominal	21.30	21.30	21.30	21.30

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Table 1-4
UMTS B4 (1750 MHz)

Antenna		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Ant 2a	Max allowed power	15.90	15.90	15.90	15.90
	Nominal	15.40	15.40	15.40	15.40
Ant 2b	Max allowed power	15.10	15.10	15.10	15.10
	Nominal	14.10	14.10	14.10	14.10
Ant 4a	Max allowed power	14.80	14.80	14.80	14.80
	Nominal	13.80	13.80	13.80	13.80
Ant 4b	Max allowed power	13.50	13.50	13.50	13.50
	Nominal	12.50	12.50	12.50	12.50

Table 1-5
UMTS B2 (1900 MHz)

Antenna		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Ant 2a	Max allowed power	15.00	15.00	15.00	15.00
	Nominal	14.00	14.00	14.00	14.00
Ant 2b	Max allowed power	14.00	14.00	14.00	14.00
	Nominal	13.00	13.00	13.00	13.00
Ant 4a	Max allowed power	14.80	14.80	14.80	14.80
	Nominal	13.80	13.80	13.80	13.80
Ant 4b	Max allowed power	13.50	13.50	13.50	13.50
	Nominal	12.50	12.50	12.50	12.50

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Mode / Band		Modulated Average Output Power (in dBm)					
		Ant 1	Ant 3	Ant 2a	Ant 2b	Ant 4a	Ant 4b
LTE FDD Band 12	Max allowed power	21.30	21.80				
	Nominal	20.80	21.30				
LTE FDD Band 17	Max allowed power	21.30	21.80				
	Nominal	20.80	21.30				
LTE FDD Band 13	Max allowed power	21.50	21.80				
	Nominal	21.00	21.30				
LTE FDD Band 26	Max allowed power	20.70	21.50				
	Nominal	20.20	21.00				
LTE FDD Band 5	Max allowed power	20.70	21.50				
	Nominal	20.20	21.00				
LTE FDD Band 5 Intra-band ULCA	Max allowed power	20.70	21.50				
	Nominal	19.70	20.50				
LTE FDD Band 4	Max allowed power			14.90	15.10	14.80	13.50
	Nominal			13.90	14.10	13.80	12.50
LTE FDD Band 66	Max allowed power			14.90	15.10	14.80	13.50
	Nominal			13.90	14.10	13.80	12.50
LTE FDD Band 2	Max allowed power			15.00	14.00	14.80	13.50
	Nominal			14.00	13.00	13.80	12.50
LTE FDD Band 25	Max allowed power			15.00	14.00	14.80	13.50
	Nominal			14.00	13.00	13.80	12.50
LTE FDD Band 30	Max allowed power			14.00	13.10	13.50	13.50
	Nominal			13.00	12.10	12.50	12.50
LTE FDD Band 7	Max allowed power			14.10	11.80	14.60	12.50
	Nominal			13.10	10.80	13.60	11.50
LTE FDD Band 7 Intra-band ULCA	Max allowed power			14.10	11.80	14.60	12.50
	Nominal			13.10	10.80	13.60	11.50
LTE TDD Band 41 (PC3)	Max allowed power			16.40	13.80	16.90	14.80
	Nominal			15.90	12.80	16.40	13.80
LTE TDD Band 41 (PC3) Intra-band ULCA	Max allowed power			16.40	13.80	16.90	14.80
	Nominal			15.40	12.80	15.90	13.80
LTE TDD Band 41 (PC2)	Max allowed power			16.40	13.80	16.90	14.80
	Nominal			15.90	12.80	16.40	13.80
LTE TDD Band 41 (PC2) Intra-band ULCA	Max allowed power			16.40	13.80	16.90	14.80
	Nominal			15.40	12.80	15.90	13.80
LTE TDD Band 48	Max allowed power	15.50	17.50		14.80		16.40
	Nominal	15.00	17.00		13.80		15.90

1.3.2 4G Output Power – Inter-band ULCA Active

Mode / Band		Modulated Average Output Power (in dBm)					
		Ant 1	Ant 3	Ant 2a	Ant 2b	Ant 4a	Ant 4b
LTE FDD Band 12	Max allowed power	18.30	18.80				
	Nominal	17.80	18.30				
LTE FDD Band 13	Max allowed power	18.50	18.80				
	Nominal	18.00	18.30				
LTE FDD Band 5	Max allowed power	17.70	18.50				
	Nominal	17.20	18.00				
LTE FDD Band 4	Max allowed power			11.90	12.10	11.80	10.50
	Nominal			10.90	11.10	10.80	9.50
LTE FDD Band 66	Max allowed power			11.90	12.10	11.80	10.50
	Nominal			10.90	11.10	10.80	9.50
LTE FDD Band 2	Max allowed power			12.00	11.00	11.80	10.50
	Nominal			11.00	10.00	10.80	9.50
LTE FDD Band 30	Max allowed power			11.00	10.10	10.50	10.50
	Nominal			10.00	9.10	9.50	9.50
LTE FDD Band 7	Max allowed power			11.10	8.80	11.60	9.50
	Nominal			10.10	7.80	10.60	8.50

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1.3.3 Unlicensed Maximum Output Power

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

A. Antenna 2A

Mode / Band		Modulated Average - Single Tx Chain (dBm)
Bluetooth BDR/LE	Maximum	14.50
	Nominal	13.00
Bluetooth EDR	Maximum	11.00
	Nominal	9.50
Bluetooth HDR	Maximum	7.50
	Nominal	6.00
Mode / Band		Modulated Average - MIMO (dBm)
Bluetooth BDR/LE	Maximum	14.50
	Nominal	13.00
Bluetooth EDR	Maximum	11.00
	Nominal	9.50
Bluetooth HDR	Maximum	7.50
	Nominal	6.00

Note: In MIMO operations, Antenna 2A transmits at maximum allowed powers at indicated above.

Mode/ Band			IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 2A	20 MHz Bandwidth	1	14.00	12.50	14.00	12.50	14.00	12.50	10.50	9.00
		2	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		3	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		4	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		5	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		6	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		7	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		8	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		9	14.00	12.50	14.00	12.50	14.00	12.50	14.00	12.50
		10	14.00	12.50	14.00	12.50	14.00	12.50	11.50	10.00
		11	14.00	12.50	14.00	12.50	14.00	12.50	10.00	8.50
		12	14.00	12.50	10.50	9.00	10.50	9.00	8.00	6.50
		13	12.00	10.50	0.50	-1.00	0.50	-1.00	N/A	N/A
Mode/ Band			IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)			
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal		
Modulated Average - 2 Tx Chain (dBm) - Antenna 2A	20 MHz Bandwidth	1	14.00	12.50	14.00	12.50	10.00	8.50		
		2	14.00	12.50	14.00	12.50	14.00	12.50		
		3	14.00	12.50	14.00	12.50	14.00	12.50		
		4	14.00	12.50	14.00	12.50	14.00	12.50		
		5	14.00	12.50	14.00	12.50	14.00	12.50		
		6	14.00	12.50	14.00	12.50	14.00	12.50		
		7	14.00	12.50	14.00	12.50	14.00	12.50		
		8	14.00	12.50	14.00	12.50	14.00	12.50		
		9	14.00	12.50	14.00	12.50	14.00	12.50		
		10	14.00	12.50	14.00	12.50	11.00	9.50		
		11	13.50	12.00	13.50	12.00	9.50	8.00		
		12	9.50	8.00	9.50	8.00	7.00	5.50		
		13	-1.50	-3.00	-1.50	-3.00	N/A	N/A		

Note: In MIMO operations, Antenna 2A transmits at maximum allowed powers at indicated above.

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B. Antenna 4A

Mode / Band		Modulated Average - Single Tx Chain (dBm)
Bluetooth BDR/LE	Maximum	15.00
	Nominal	13.50
Bluetooth EDR	Maximum	13.50
	Nominal	12.00
Bluetooth HDR	Maximum	9.50
	Nominal	8.00
Mode / Band		Modulated Average - MIMO (dBm)
Bluetooth BDR/LE	Maximum	15.00
	Nominal	13.50
Bluetooth EDR	Maximum	13.50
	Nominal	12.00
Bluetooth HDR	Maximum	9.50
	Nominal	8.00

Note: In MIMO operations, Antenna 4A transmits at maximum allowed powers at indicated above.

Mode/ Band		IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
Modulated Average - Single Tx Chain (dBm) - Antenna 4A	20 MHz Bandwidth	1	13.75	12.25	13.75	12.25	13.75	12.25	12.50
		2	13.75	12.25	13.75	12.25	13.75	12.25	13.75
		3	13.75	12.25	13.75	12.25	13.75	12.25	13.75
		4	13.75	12.25	13.75	12.25	13.75	12.25	13.75
		5	13.75	12.25	13.75	12.25	13.75	12.25	13.75
		6	13.75	12.25	13.75	12.25	13.75	12.25	13.75
		7	13.75	12.25	13.75	12.25	13.75	12.25	13.75
		8	13.75	12.25	13.75	12.25	13.75	12.25	13.75
		9	13.75	12.25	13.75	12.25	13.75	12.25	13.75
		10	13.75	12.25	13.75	12.25	13.75	12.25	13.50
		11	13.75	12.25	13.75	12.25	13.75	12.25	12.00
		12	13.75	12.25	11.00	9.50	11.00	9.50	10.00
		13	12.00	10.50	0.50	-1.00	0.50	-1.00	N/A

Mode/ Band		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum
Modulated Average - 2 Tx Chain (dBm) - Antenna 4A	20 MHz Bandwidth	1	13.75	12.25	13.75	12.25	12.00
		2	13.75	12.25	13.75	12.25	13.75
		3	13.75	12.25	13.75	12.25	13.75
		4	13.75	12.25	13.75	12.25	13.75
		5	13.75	12.25	13.75	12.25	13.75
		6	13.75	12.25	13.75	12.25	13.75
		7	13.75	12.25	13.75	12.25	13.75
		8	13.75	12.25	13.75	12.25	13.75
		9	13.75	12.25	13.75	12.25	13.75
		10	13.75	12.25	13.75	12.25	13.00
		11	13.50	12.00	13.50	12.00	11.50
		12	10.50	9.00	10.50	9.00	9.00
		13	0.00	-1.50	0.00	-1.50	N/A

Note: In MIMO operations, Antenna 4A transmits at maximum allowed powers at indicated above.

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C. 5GHz ANTlower

Mode/ Band		IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
Modulated Average - Single Tx Chain (dBm) - 5GHz ANTlower	20 MHz Bandwidth	36	16.00	14.50	16.00	14.50	16.00	14.50	15.00
		40	17.00	15.50	17.00	15.50	17.00	15.50	17.00
		44	17.00	15.50	17.00	15.50	17.00	15.50	17.00
		48	17.00	15.50	17.00	15.50	17.00	15.50	17.00
		52	16.75	15.25	16.75	15.25	16.75	15.25	16.75
		56	16.75	15.25	16.75	15.25	16.75	15.25	16.75
		60	16.75	15.25	16.75	15.25	16.75	15.25	16.75
		64	16.00	14.50	16.00	14.50	16.00	14.50	14.00
		100	15.50	14.00	15.50	14.00	15.50	14.00	14.00
		104	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		108	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		112	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		116	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		120	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		124	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		128	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		132	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		136	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		140	14.75	13.25	14.75	13.25	14.75	13.25	11.50
		144	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		149	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		153	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		157	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		161	15.50	14.00	15.50	14.00	15.50	14.00	15.50
		165	15.50	14.00	15.50	14.00	15.50	14.00	15.50
	40 MHz Bandwidth	38			14.00	12.50	14.00	12.50	11.00
		46			17.00	15.50	17.00	15.50	17.00
		54			16.75	15.25	16.75	15.25	16.75
		62			14.50	13.00	14.50	13.00	12.50
		102			14.00	12.50	14.00	12.50	10.50
		110			15.50	14.00	15.50	14.00	15.50
		118			15.50	14.00	15.50	14.00	15.50
		126			15.50	14.00	15.50	14.00	15.50
		134			15.50	14.00	15.50	14.00	15.00
		142			15.50	14.00	15.50	14.00	15.50
		151			15.50	14.00	15.50	14.00	15.50
		159			15.50	14.00	15.50	14.00	15.50
	80 MHz Bandwidth	42					13.50	12.00	10.50
		58					13.50	12.00	11.50
		106					13.00	11.50	9.50
		122					15.50	14.00	15.50
		138					15.50	14.00	15.50
		155					15.50	14.00	15.50

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Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) CDD - 5GHz ANTlower	20 MHz Bandwidth	36	15.00	13.50	15.00	13.50	15.00	13.50	14.00	12.50
		40	17.00	15.50	17.00	15.50	17.00	15.50	17.00	15.50
		44	17.00	15.50	17.00	15.50	17.00	15.50	17.00	15.50
		48	17.00	15.50	17.00	15.50	17.00	15.50	17.00	15.50
		52	16.75	15.25	16.75	15.25	16.75	15.25	16.75	15.25
		56	16.75	15.25	16.75	15.25	16.75	15.25	16.75	15.25
		60	16.75	15.25	16.75	15.25	16.75	15.25	16.75	15.25
		64	14.50	13.00	14.50	13.00	14.50	13.00	13.00	11.50
		100	14.00	12.50	14.00	12.50	14.00	12.50	12.75	11.25
		104	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		108	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		112	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		116	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		120	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		124	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		128	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		132	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		136	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		140	13.50	12.00	13.50	12.00	13.50	12.00	10.50	9.00
		144	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		149	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		153	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		157	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		161	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		165	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
	40 MHz Bandwidth	38			13.00	11.50	13.00	11.50	11.50	10.00
		46			17.00	15.50	17.00	15.50	17.00	15.50
		54			16.75	15.25	16.75	15.25	16.75	15.25
		62			12.50	11.00	12.50	11.00	11.25	9.75
		102			12.50	11.00	12.50	11.00	10.50	9.00
		110			15.50	14.00	15.50	14.00	15.50	14.00
		118			15.50	14.00	15.50	14.00	15.50	14.00
		126			15.50	14.00	15.50	14.00	15.50	14.00
		134			15.00	13.50	15.00	13.50	13.75	12.25
		142			15.50	14.00	15.50	14.00	15.50	14.00
		151			15.50	14.00	15.50	14.00	15.50	14.00
		159			15.50	14.00	15.50	14.00	15.50	14.00
	80 MHz Bandwidth	42					11.50	10.00	10.50	9.00
		58					11.00	9.50	10.00	8.50
		106					11.50	10.00	10.00	8.50
		122					15.50	14.00	15.50	14.00
		138					15.50	14.00	15.50	14.00
		155					15.50	14.00	14.00	12.50

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Mode/ Band			IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - 5GHz ANTlower	20 MHz Bandwidth	36	15.00	13.50	15.00	13.50	14.00	12.50
		40	17.00	15.50	17.00	15.50	17.00	15.50
		44	17.00	15.50	17.00	15.50	17.00	15.50
		48	17.00	15.50	17.00	15.50	17.00	15.50
		52	16.75	15.25	16.75	15.25	16.75	15.25
		56	16.75	15.25	16.75	15.25	16.75	15.25
		60	16.75	15.25	16.75	15.25	16.75	15.25
		64	14.50	13.00	14.50	13.00	13.00	11.50
		100	14.00	12.50	14.00	12.50	12.75	11.25
		104	15.50	14.00	15.50	14.00	15.50	14.00
		108	15.50	14.00	15.50	14.00	15.50	14.00
		112	15.50	14.00	15.50	14.00	15.50	14.00
		116	15.50	14.00	15.50	14.00	15.50	14.00
		120	15.50	14.00	15.50	14.00	15.50	14.00
		124	15.50	14.00	15.50	14.00	15.50	14.00
		128	15.50	14.00	15.50	14.00	15.50	14.00
		132	15.50	14.00	15.50	14.00	15.50	14.00
		136	15.50	14.00	15.50	14.00	15.50	14.00
		140	13.50	12.00	13.50	12.00	10.50	9.00
		144	15.50	14.00	15.50	14.00	15.50	14.00
		149	15.50	14.00	15.50	14.00	15.50	14.00
	40 MHz Bandwidth	153	15.50	14.00	15.50	14.00	15.50	14.00
		157	15.50	14.00	15.50	14.00	15.50	14.00
		161	15.50	14.00	15.50	14.00	15.50	14.00
		165	15.50	14.00	15.50	14.00	15.50	14.00
		38	13.00	11.50	13.00	11.50	11.50	10.00
		46	17.00	15.50	17.00	15.50	17.00	15.50
		54	16.75	15.25	16.75	15.25	16.75	15.25
		62	12.50	11.00	12.50	11.00	11.25	9.75
		102	12.50	11.00	12.50	11.00	10.50	9.00
		110	15.50	14.00	15.50	14.00	15.50	14.00
	80 MHz Bandwidth	118	15.50	14.00	15.50	14.00	15.50	14.00
		126	15.50	14.00	15.50	14.00	15.50	14.00
		134	15.00	13.50	15.00	13.50	13.75	12.25
		142	15.50	14.00	15.50	14.00	15.50	14.00
		151	15.50	14.00	15.50	14.00	15.50	14.00
		159	15.50	14.00	15.50	14.00	15.50	14.00
		42			11.50	10.00	10.50	9.00
		58			11.00	9.50	10.00	8.50
		106			11.50	10.00	10.00	8.50
		122			15.50	14.00	15.50	14.00
		138			15.50	14.00	15.50	14.00
		155			15.50	14.00	14.00	12.50

Note: In MIMO operations, 5GHz ANTlower transmits at maximum allowed powers as indicated above for both 2 Tx CDD and 2 Tx SDM.

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D. 5GHz ANTupper

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - 5GHz ANTupper	20 MHz Bandwidth	36	16.00	14.50	16.00	14.50	16.00	14.50	15.00	13.50
		40	17.00	15.50	17.00	15.50	17.00	15.50	17.00	15.50
		44	17.00	15.50	17.00	15.50	17.00	15.50	17.00	15.50
		48	17.00	15.50	17.00	15.50	17.00	15.50	17.00	15.50
		52	16.75	15.25	16.75	15.25	16.75	15.25	16.75	15.25
		56	16.75	15.25	16.75	15.25	16.75	15.25	16.75	15.25
		60	16.75	15.25	16.75	15.25	16.75	15.25	16.75	15.25
		64	16.00	14.50	16.00	14.50	16.00	14.50	14.00	12.50
		100	15.50	14.00	15.50	14.00	15.50	14.00	14.00	12.50
		104	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		108	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		112	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		116	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		120	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		124	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		128	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		132	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		136	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		140	14.75	13.25	14.75	13.25	14.75	13.25	11.50	10.00
		144	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		149	15.75	14.25	15.75	14.25	15.75	14.25	15.75	14.25
		153	15.75	14.25	15.75	14.25	15.75	14.25	15.75	14.25
		157	15.75	14.25	15.75	14.25	15.75	14.25	15.75	14.25
		161	15.75	14.25	15.75	14.25	15.75	14.25	15.75	14.25
		165	15.75	14.25	15.75	14.25	15.75	14.25	15.75	14.25
	40 MHz Bandwidth	38			14.00	12.50	14.00	12.50	12.50	11.00
		46			17.00	15.50	17.00	15.50	17.00	15.50
		54			16.75	15.25	16.75	15.25	16.75	15.25
		62			14.50	13.00	14.50	13.00	12.50	11.00
		102			14.00	12.50	14.00	12.50	12.00	10.50
		110			15.50	14.00	15.50	14.00	15.50	14.00
		118			15.50	14.00	15.50	14.00	15.50	14.00
		126			15.50	14.00	15.50	14.00	15.50	14.00
		134			15.50	14.00	15.50	14.00	15.00	13.50
		142			15.50	14.00	15.50	14.00	15.50	14.00
		151			15.75	14.25	15.75	14.25	15.75	14.25
		159			15.75	14.25	15.75	14.25	15.75	14.25
	80 MHz Bandwidth	42					13.50	12.00	12.00	10.50
		58					13.50	12.00	11.50	10.00
		106					13.00	11.50	11.00	9.50
		122					15.50	14.00	15.50	14.00
		138					15.50	14.00	15.50	14.00
		155					15.75	14.25	15.50	14.00

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Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) CDD - 5GHz ANTupper	20 MHz Bandwidth	36	15.00	13.50	15.00	13.50	15.00	13.50	14.00	12.50
		40	17.00	15.50	17.00	15.50	17.00	15.50	17.00	15.50
		44	17.00	15.50	17.00	15.50	17.00	15.50	17.00	15.50
		48	17.00	15.50	17.00	15.50	17.00	15.50	17.00	15.50
		52	16.75	15.25	16.75	15.25	16.75	15.25	16.75	15.25
		56	16.75	15.25	16.75	15.25	16.75	15.25	16.75	15.25
		60	16.75	15.25	16.75	15.25	16.75	15.25	16.75	15.25
		64	14.50	13.00	14.50	13.00	14.50	13.00	13.00	11.50
		100	14.00	12.50	14.00	12.50	14.00	12.50	12.75	11.25
		104	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		108	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		112	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		116	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		120	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		124	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		128	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		132	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		136	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		140	13.50	12.00	13.50	12.00	13.50	12.00	10.50	9.00
		144	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
		149	15.75	14.25	15.75	14.25	15.75	14.25	15.75	14.25
		153	15.75	14.25	15.75	14.25	15.75	14.25	15.75	14.25
		157	15.75	14.25	15.75	14.25	15.75	14.25	15.75	14.25
		161	15.75	14.25	15.75	14.25	15.75	14.25	15.75	14.25
		165	15.75	14.25	15.75	14.25	15.75	14.25	15.75	14.25
	40 MHz Bandwidth	38			13.00	11.50	13.00	11.50	11.50	10.00
		46			17.00	15.50	17.00	15.50	17.00	15.50
		54			16.75	15.25	16.75	15.25	16.75	15.25
		62			12.50	11.00	12.50	11.00	11.25	9.75
		102			12.50	11.00	12.50	11.00	10.50	9.00
		110			15.50	14.00	15.50	14.00	15.50	14.00
		118			15.50	14.00	15.50	14.00	15.50	14.00
		126			15.50	14.00	15.50	14.00	15.50	14.00
		134			15.00	13.50	15.00	13.50	13.75	12.25
		142			15.50	14.00	15.50	14.00	15.50	14.00
		151			15.75	14.25	15.75	14.25	15.75	14.25
		159			15.75	14.25	15.75	14.25	15.75	14.25
	80 MHz Bandwidth	42					11.50	10.00	10.50	9.00
		58					11.00	9.50	10.00	8.50
		106					11.50	10.00	10.00	8.50
		122					15.50	14.00	15.50	14.00
		138					15.50	14.00	15.50	14.00
		155					15.75	14.25	14.00	12.50

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Mode/ Band			IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - 5GHz ANTupper	20 MHz Bandwidth	36	15.00	13.50	15.00	13.50	14.00	12.50
		40	17.00	15.50	17.00	15.50	17.00	15.50
		44	17.00	15.50	17.00	15.50	17.00	15.50
		48	17.00	15.50	17.00	15.50	17.00	15.50
		52	16.75	15.25	16.75	15.25	16.75	15.25
		56	16.75	15.25	16.75	15.25	16.75	15.25
		60	16.75	15.25	16.75	15.25	16.75	15.25
		64	14.50	13.00	14.50	13.00	13.00	11.50
		100	14.00	12.50	14.00	12.50	12.75	11.25
		104	15.50	14.00	15.50	14.00	15.50	14.00
		108	15.50	14.00	15.50	14.00	15.50	14.00
		112	15.50	14.00	15.50	14.00	15.50	14.00
		116	15.50	14.00	15.50	14.00	15.50	14.00
		120	15.50	14.00	15.50	14.00	15.50	14.00
		124	15.50	14.00	15.50	14.00	15.50	14.00
		128	15.50	14.00	15.50	14.00	15.50	14.00
		132	15.50	14.00	15.50	14.00	15.50	14.00
		136	15.50	14.00	15.50	14.00	15.50	14.00
		140	13.50	12.00	13.50	12.00	10.50	9.00
		144	15.50	14.00	15.50	14.00	15.50	14.00
		149	15.75	14.25	15.75	14.25	15.75	14.25
		153	15.75	14.25	15.75	14.25	15.75	14.25
		157	15.75	14.25	15.75	14.25	15.75	14.25
		161	15.75	14.25	15.75	14.25	15.75	14.25
		165	15.75	14.25	15.75	14.25	15.75	14.25
	40 MHz Bandwidth	38	13.00	11.50	13.00	11.50	11.50	10.00
		46	17.00	15.50	17.00	15.50	17.00	15.50
		54	16.75	15.25	16.75	15.25	16.75	15.25
		62	12.50	11.00	12.50	11.00	11.25	9.75
		102	12.50	11.00	12.50	11.00	10.50	9.00
		110	15.50	14.00	15.50	14.00	15.50	14.00
		118	15.50	14.00	15.50	14.00	15.50	14.00
		126	15.50	14.00	15.50	14.00	15.50	14.00
		134	15.00	13.50	15.00	13.50	13.75	12.25
		142	15.50	14.00	15.50	14.00	15.50	14.00
		151	15.75	14.25	15.75	14.25	15.75	14.25
		159	15.75	14.25	15.75	14.25	15.75	14.25
	80 MHz Bandwidth	42			11.50	10.00	10.50	9.00
		58			11.00	9.50	10.00	8.50
		106			11.50	10.00	10.00	8.50
		122			15.50	14.00	15.50	14.00
		138			15.50	14.00	15.50	14.00
		155			15.75	14.25	14.00	12.50

Note: In MIMO operations, 5GHz ANTupper transmits at maximum allowed powers as indicated above for both 2 Tx CDD and 2 Tx SDM.

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1.3.4 Unlicensed Reduced Output Power

A. Antenna 2a

Below table is applicable in the following conditions:

-Simultaneous conditions with 5GHz WLAN

Mode / Band		Modulated Average - Single Tx Chain (dBm)
Bluetooth BDR/LE Reduced	Maximum	11.50
	Nominal	10.00
Bluetooth EDR Reduced	Maximum	11.00
	Nominal	9.50
Bluetooth HDR Reduced	Maximum	7.50
	Nominal	6.00

Below table is applicable in the following conditions:

-Simultaneous conditions with 5GHz WLAN

Mode / Band		Modulated Average - MIMO (dBm)
Bluetooth BDR/LE Reduced	Maximum	11.50
	Nominal	10.00
Bluetooth EDR Reduced	Maximum	11.00
	Nominal	9.50
Bluetooth HDR Reduced	Maximum	7.50
	Nominal	6.00

Note: In MIMO operations, Antenna 2A transmits at maximum allowed powers at indicated above.

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Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1/2A/2B Active
- Simultaneous conditions with Licensed Bands Antenna 1/2A/2B Active and 5GHz WLAN
- Simultaneous conditions with Inter-band ULCA active
- Simultaneous conditions with Inter-band ULCA active and 5GHz WLAN

Mode / Band		Modulated Average - Single Tx Chain (dBm)
Bluetooth BDR/LE Reduced	Maximum	7.50
	Nominal	6.00
Bluetooth EDR Reduced	Maximum	7.50
	Nominal	6.00
Bluetooth HDR Reduced	Maximum	7.50
	Nominal	6.00

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1/2A/2B Active
- Simultaneous conditions with Licensed Bands Antenna 1/2A/2B Active and 5GHz WLAN
- Simultaneous conditions with Inter-band ULCA active
- Simultaneous conditions with Inter-band ULCA active and 5GHz WLAN

Mode / Band		Modulated Average - MIMO (dBm)
Bluetooth BDR/LE Reduced	Maximum	7.50
	Nominal	6.00
Bluetooth EDR Reduced	Maximum	7.50
	Nominal	6.00
Bluetooth HDR Reduced	Maximum	7.50
	Nominal	6.00

Note: In MIMO operations, Antenna 2A transmits at maximum allowed powers at indicated above.

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2A/2B
- Simultaneous conditions with LTE Inter-band ULCA

Mode/ Band		IEEE 802.11b (2.4 GHz)			IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 2A	20 MHz Bandwidth	1	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		2	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		3	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		4	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		5	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		6	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		7	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		8	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		9	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		10	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		11	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		12	7.00	5.50	7.00	5.50	7.00	5.50	7.00	5.50
		13	7.00	5.50	0.50	-1.00	0.50	-1.00	N/A	N/A

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Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2A/2B
- Simultaneous conditions with LTE Inter-band ULCA

Mode/ Band		Channel	IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 2A	20 MHz Bandwidth	1	7.00	5.50	7.00	5.50	7.00	5.50
		2	7.00	5.50	7.00	5.50	7.00	5.50
		3	7.00	5.50	7.00	5.50	7.00	5.50
		4	7.00	5.50	7.00	5.50	7.00	5.50
		5	7.00	5.50	7.00	5.50	7.00	5.50
		6	7.00	5.50	7.00	5.50	7.00	5.50
		7	7.00	5.50	7.00	5.50	7.00	5.50
		8	7.00	5.50	7.00	5.50	7.00	5.50
		9	7.00	5.50	7.00	5.50	7.00	5.50
		10	7.00	5.50	7.00	5.50	7.00	5.50
		11	7.00	5.50	7.00	5.50	7.00	5.50
		12	7.00	5.50	7.00	5.50	7.00	5.50
		13	-1.50	-3.00	-1.50	-3.00	N/A	N/A

Note: In MIMO operations, Antenna 2A transmits at maximum allowed powers at indicated above.

B. Antenna 4a

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3/4A/4B Active
- Simultaneous conditions with Licensed Bands Antenna 3/4A/4B Active and 5GHz WLAN
- Simultaneous conditions with Inter-band ULCA active
- Simultaneous conditions with Inter-band ULCA active and 5GHz WLAN

Mode / Band		Modulated Average - Single Tx Chain (dBm)
Bluetooth BDR/LE Reduced	Maximum	8.00
	Nominal	6.50
Bluetooth EDR Reduced	Maximum	8.00
	Nominal	6.50
Bluetooth HDR Reduced	Maximum	8.00
	Nominal	6.50

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3/4A/4B Active
- Simultaneous conditions with Licensed Bands Antenna 3/4A/4B Active and 5GHz WLAN
- Simultaneous conditions with Inter-band ULCA active
- Simultaneous conditions with Inter-band ULCA active and 5GHz WLAN

Mode / Band		Modulated Average - MIMO (dBm)
Bluetooth BDR/LE Reduced	Maximum	8.00
	Nominal	6.50
Bluetooth EDR Reduced	Maximum	8.00
	Nominal	6.50
Bluetooth HDR Reduced	Maximum	8.00
	Nominal	6.50

Note: In MIMO operations, Antenna 4A transmits at maximum allowed powers at indicated above.

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Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 4A/4B
- Simultaneous conditions with LTE Inter-band ULCA

Mode/ Band			IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - Antenna 4A	20 MHz Bandwidth	1	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		2	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		3	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		4	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		5	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		6	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		7	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		8	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		9	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		10	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		11	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		12	6.75	5.25	6.75	5.25	6.75	5.25	6.75	5.25
		13	6.75	5.25	0.50	-1.00	0.50	-1.00	N/A	N/A

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 4A/4B
- Simultaneous conditions with LTE Inter-band ULCA

Mode/ Band			IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 4A	20 MHz Bandwidth	1	6.75	5.25	6.75	5.25	6.75	5.25
		2	6.75	5.25	6.75	5.25	6.75	5.25
		3	6.75	5.25	6.75	5.25	6.75	5.25
		4	6.75	5.25	6.75	5.25	6.75	5.25
		5	6.75	5.25	6.75	5.25	6.75	5.25
		6	6.75	5.25	6.75	5.25	6.75	5.25
		7	6.75	5.25	6.75	5.25	6.75	5.25
		8	6.75	5.25	6.75	5.25	6.75	5.25
		9	6.75	5.25	6.75	5.25	6.75	5.25
		10	6.75	5.25	6.75	5.25	6.75	5.25
		11	6.75	5.25	6.75	5.25	6.75	5.25
		12	6.75	5.25	6.75	5.25	6.75	5.25
		13	0.00	-1.50	0.00	-1.50	N/A	N/A

Note: In MIMO operations, Antenna 4A transmits at maximum allowed powers at indicated above.

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C. 5GHz ANTlower

Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2A
- Simultaneous conditions with LTE Inter-band ULCA

Mode/ Band		Channel	IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - 5GHz ANTlower	20 MHz Bandwidth	36	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		40	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		44	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		48	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		52	12.75	11.25	12.75	11.25	12.75	11.25	12.75	11.25
		56	12.75	11.25	12.75	11.25	12.75	11.25	12.75	11.25
		60	12.75	11.25	12.75	11.25	12.75	11.25	12.75	11.25
		64	12.75	11.25	12.75	11.25	12.75	11.25	12.75	11.25
		100	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		104	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		108	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		112	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		116	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		120	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		124	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		128	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		132	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		136	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		140	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		144	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		149	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		153	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		157	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		161	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		165	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
	40 MHz Bandwidth	38			13.00	11.50	13.00	11.50	12.50	11.00
		46			13.00	11.50	13.00	11.50	13.00	11.50
		54			12.75	11.25	12.75	11.25	12.75	11.25
		62			12.75	11.25	12.75	11.25	12.50	11.00
		102			11.50	10.00	11.50	10.00	11.50	10.00
		110			11.50	10.00	11.50	10.00	11.50	10.00
		118			11.50	10.00	11.50	10.00	11.50	10.00
		126			11.50	10.00	11.50	10.00	11.50	10.00
		134			11.50	10.00	11.50	10.00	11.50	10.00
		142			11.50	10.00	11.50	10.00	11.50	10.00
		151			11.50	10.00	11.50	10.00	11.50	10.00
		159			11.50	10.00	11.50	10.00	11.50	10.00
	80 MHz Bandwidth	42					13.00	11.50	12.00	10.50
		58					12.75	11.25	11.50	10.00
		106					11.50	10.00	11.00	9.50
		122					11.50	10.00	11.50	10.00
		138					11.50	10.00	11.50	10.00
		155					11.50	10.00	11.50	10.00

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Below table is applicable in the following conditions:

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- Simultaneous conditions with LTE Inter-band ULCA

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) CDD - 5GHz ANTlower	20 MHz Bandwidth	36	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		40	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		44	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		48	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		52	12.75	11.25	12.75	11.25	12.75	11.25	12.75	11.25
		56	12.75	11.25	12.75	11.25	12.75	11.25	12.75	11.25
		60	12.75	11.25	12.75	11.25	12.75	11.25	12.75	11.25
		64	12.75	11.25	12.75	11.25	12.75	11.25	12.75	11.25
		100	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		104	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		108	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		112	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		116	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		120	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		124	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		128	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		132	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		136	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		140	11.50	10.00	11.50	10.00	11.50	10.00	10.50	9.00
		144	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		149	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
	40 MHz Bandwidth	153	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		157	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		161	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		165	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		38			13.00	11.50	13.00	11.50	13.00	11.50
		46			13.00	11.50	13.00	11.50	13.00	11.50
		54			12.75	11.25	12.75	11.25	12.75	11.25
		62			12.50	11.00	12.50	11.00	11.25	9.75
		102			11.50	10.00	11.50	10.00	10.50	9.00
		110			11.50	10.00	11.50	10.00	11.50	10.00
	80 MHz Bandwidth	118			11.50	10.00	11.50	10.00	11.50	10.00
		126			11.50	10.00	11.50	10.00	11.50	10.00
		134			11.50	10.00	11.50	10.00	11.50	10.00
		142			11.50	10.00	11.50	10.00	11.50	10.00
		151			11.50	10.00	11.50	10.00	11.50	10.00
		159			11.50	10.00	11.50	10.00	11.50	10.00
		42					11.50	10.00	10.50	9.00
		58					11.00	9.50	10.00	8.50
		106					11.50	10.00	10.00	8.50
		122					11.50	10.00	11.50	10.00
		138					11.50	10.00	11.50	10.00
		155					11.50	10.00	11.50	10.00

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Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 2A
- Simultaneous conditions with LTE Inter-band ULCA

Mode/ Band		Channel	IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - 5GHz ANTlower	20 MHz Bandwidth	36	13.00	11.50	13.00	11.50	13.00	11.50
		40	13.00	11.50	13.00	11.50	13.00	11.50
		44	13.00	11.50	13.00	11.50	13.00	11.50
		48	13.00	11.50	13.00	11.50	13.00	11.50
		52	12.75	11.25	12.75	11.25	12.75	11.25
		56	12.75	11.25	12.75	11.25	12.75	11.25
		60	12.75	11.25	12.75	11.25	12.75	11.25
		64	12.75	11.25	12.75	11.25	12.75	11.25
		100	11.50	10.00	11.50	10.00	11.50	10.00
		104	11.50	10.00	11.50	10.00	11.50	10.00
		108	11.50	10.00	11.50	10.00	11.50	10.00
		112	11.50	10.00	11.50	10.00	11.50	10.00
		116	11.50	10.00	11.50	10.00	11.50	10.00
		120	11.50	10.00	11.50	10.00	11.50	10.00
		124	11.50	10.00	11.50	10.00	11.50	10.00
		128	11.50	10.00	11.50	10.00	11.50	10.00
		132	11.50	10.00	11.50	10.00	11.50	10.00
		136	11.50	10.00	11.50	10.00	11.50	10.00
		140	11.50	10.00	11.50	10.00	10.50	9.00
		144	11.50	10.00	11.50	10.00	11.50	10.00
		149	11.50	10.00	11.50	10.00	11.50	10.00
		153	11.50	10.00	11.50	10.00	11.50	10.00
		157	11.50	10.00	11.50	10.00	11.50	10.00
		161	11.50	10.00	11.50	10.00	11.50	10.00
		165	11.50	10.00	11.50	10.00	11.50	10.00
	40 MHz Bandwidth	38	13.00	11.50	13.00	11.50	11.50	10.00
		46	13.00	11.50	13.00	11.50	13.00	11.50
		54	12.75	11.25	12.75	11.25	12.75	11.25
		62	12.50	11.00	12.50	11.00	11.25	9.75
		102	11.50	10.00	11.50	10.00	10.50	9.00
		110	11.50	10.00	11.50	10.00	11.50	10.00
		118	11.50	10.00	11.50	10.00	11.50	10.00
		126	11.50	10.00	11.50	10.00	11.50	10.00
		134	11.50	10.00	11.50	10.00	11.50	10.00
		142	11.50	10.00	11.50	10.00	11.50	10.00
		151	11.50	10.00	11.50	10.00	11.50	10.00
		159	11.50	10.00	11.50	10.00	11.50	10.00
	80 MHz Bandwidth	42			11.50	10.00	10.50	9.00
		58			11.00	9.50	10.00	8.50
		106			11.50	10.00	10.00	8.50
		122			11.50	10.00	11.50	10.00
		138			11.50	10.00	11.50	10.00
		155			11.50	10.00	11.50	10.00

Note: In MIMO operations, 5GHz ANTlower transmits at maximum allowed powers as indicated above for both 2 Tx CDD and 2 Tx SDM.

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D. 5GHz ANTupper

Below table is applicable in the following conditions:

-Simultaneous conditions with Licensed Bands Antenna 3

-Simultaneous conditions with LTE Inter-band ULCA

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm) - 5GHz ANTupper	20 MHz Bandwidth	36	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
		40	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
		44	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
		48	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
		52	11.75	10.25	11.75	10.25	11.75	10.25	11.75	10.25
		56	11.75	10.25	11.75	10.25	11.75	10.25	11.75	10.25
		60	11.75	10.25	11.75	10.25	11.75	10.25	11.75	10.25
		64	11.75	10.25	11.75	10.25	11.75	10.25	11.75	10.25
		100	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		104	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		108	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		112	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		116	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		120	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		124	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		128	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		132	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		136	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		140	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		144	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		149	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		153	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		157	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		161	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		165	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
	40 MHz Bandwidth	38			12.00	10.50	12.00	10.50	12.00	10.50
		46			12.00	10.50	12.00	10.50	12.00	10.50
		54			11.75	10.25	11.75	10.25	11.75	10.25
		62			11.75	10.25	11.75	10.25	11.75	10.25
		102			10.50	9.00	10.50	9.00	10.50	9.00
		110			10.50	9.00	10.50	9.00	10.50	9.00
		118			10.50	9.00	10.50	9.00	10.50	9.00
		126			10.50	9.00	10.50	9.00	10.50	9.00
		134			10.50	9.00	10.50	9.00	10.50	9.00
		142			10.50	9.00	10.50	9.00	10.50	9.00
		151			10.75	9.25	10.75	9.25	10.75	9.25
		159			10.75	9.25	10.75	9.25	10.75	9.25
	80 MHz Bandwidth	42					12.00	10.50	12.00	10.50
		58					11.75	10.25	11.50	10.00
		106					10.50	9.00	10.50	9.00
		122					10.50	9.00	10.50	9.00
		138					10.50	9.00	10.50	9.00
		155					10.75	9.25	10.75	9.25

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Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3
- Simultaneous conditions with LTE Inter-band ULCA

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) CDD - 5GHz ANTupper	20 MHz Bandwidth	36	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
		40	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
		44	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
		48	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
		52	11.75	10.25	11.75	10.25	11.75	10.25	11.75	10.25
		56	11.75	10.25	11.75	10.25	11.75	10.25	11.75	10.25
		60	11.75	10.25	11.75	10.25	11.75	10.25	11.75	10.25
		64	11.75	10.25	11.75	10.25	11.75	10.25	11.75	10.25
		100	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		104	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		108	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		112	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		116	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		120	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		124	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		128	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		132	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		136	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		140	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		144	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		149	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		153	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		157	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		161	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		165	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
	40 MHz Bandwidth	38			12.00	10.50	12.00	10.50	11.50	10.00
		46			12.00	10.50	12.00	10.50	12.00	10.50
		54			11.75	10.25	11.75	10.25	11.75	10.25
		62			11.75	10.25	11.75	10.25	11.25	9.75
		102			10.50	9.00	10.50	9.00	10.50	9.00
		110			10.50	9.00	10.50	9.00	10.50	9.00
		118			10.50	9.00	10.50	9.00	10.50	9.00
		126			10.50	9.00	10.50	9.00	10.50	9.00
		134			10.50	9.00	10.50	9.00	10.50	9.00
		142			10.50	9.00	10.50	9.00	10.50	9.00
		151			10.75	9.25	10.75	9.25	10.75	9.25
		159			10.75	9.25	10.75	9.25	10.75	9.25
	80 MHz Bandwidth	42					11.50	10.00	10.50	9.00
		58					11.00	9.50	10.00	8.50
		106					10.50	9.00	10.00	8.50
		122					10.50	9.00	10.50	9.00
		138					10.50	9.00	10.50	9.00
		155					10.75	9.25	10.75	9.25

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Below table is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3
- Simultaneous conditions with LTE Inter-band ULCA

Mode/ Band		Channel	IEEE 802.11n (5 GHz)		IEEE 802.11ac (5 GHz)		IEEE 802.11ax SU (5 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) SDM - 5GHz ANTupper	20 MHz Bandwidth	36	12.00	10.50	12.00	10.50	12.00	10.50
		40	12.00	10.50	12.00	10.50	12.00	10.50
		44	12.00	10.50	12.00	10.50	12.00	10.50
		48	12.00	10.50	12.00	10.50	12.00	10.50
		52	11.75	10.25	11.75	10.25	11.75	10.25
		56	11.75	10.25	11.75	10.25	11.75	10.25
		60	11.75	10.25	11.75	10.25	11.75	10.25
		64	11.75	10.25	11.75	10.25	11.75	10.25
		100	10.50	9.00	10.50	9.00	10.50	9.00
		104	10.50	9.00	10.50	9.00	10.50	9.00
		108	10.50	9.00	10.50	9.00	10.50	9.00
		112	10.50	9.00	10.50	9.00	10.50	9.00
		116	10.50	9.00	10.50	9.00	10.50	9.00
		120	10.50	9.00	10.50	9.00	10.50	9.00
		124	10.50	9.00	10.50	9.00	10.50	9.00
		128	10.50	9.00	10.50	9.00	10.50	9.00
		132	10.50	9.00	10.50	9.00	10.50	9.00
		136	10.50	9.00	10.50	9.00	10.50	9.00
		140	10.50	9.00	10.50	9.00	10.50	9.00
		144	10.50	9.00	10.50	9.00	10.50	9.00
		149	10.75	9.25	10.75	9.25	10.75	9.25
		153	10.75	9.25	10.75	9.25	10.75	9.25
		157	10.75	9.25	10.75	9.25	10.75	9.25
		161	10.75	9.25	10.75	9.25	10.75	9.25
		165	10.75	9.25	10.75	9.25	10.75	9.25
	40 MHz Bandwidth	38	12.00	10.50	12.00	10.50	11.50	10.00
		46	12.00	10.50	12.00	10.50	12.00	10.50
		54	11.75	10.25	11.75	10.25	11.75	10.25
		62	11.75	10.25	11.75	10.25	11.25	9.75
		102	10.50	9.00	10.50	9.00	10.50	9.00
		110	10.50	9.00	10.50	9.00	10.50	9.00
		118	10.50	9.00	10.50	9.00	10.50	9.00
		126	10.50	9.00	10.50	9.00	10.50	9.00
		134	10.50	9.00	10.50	9.00	10.50	9.00
		142	10.50	9.00	10.50	9.00	10.50	9.00
	80 MHz Bandwidth	151	10.75	9.25	10.75	9.25	10.75	9.25
		159	10.75	9.25	10.75	9.25	10.75	9.25
		42			11.50	10.00	10.50	9.00
		58			11.00	9.50	10.00	8.50
		106			10.50	9.00	10.00	8.50
		122			10.50	9.00	10.50	9.00
		138			10.50	9.00	10.50	9.00
		155			10.75	9.25	10.75	9.25

Note: In MIMO operations, 5GHz ANTupper transmits at maximum allowed powers as indicated above for both 2 Tx CDD and 2 Tx SDM.

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1.4 DUT Antenna Locations

The overall diagonal dimension of the device is > 200 mm. A diagram showing the location of the device antennas can be found in Appendix E. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filings.

**Table 1-6
Device Edges/Sides for SAR Testing**

Device Sides/Edges for SAR Testing						
Mode	Back	Front	Top	Bottom	Right	Left
GPRS 850 Ant 1	Yes	No	No	Yes	No	Yes
UMTS 850 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 12 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 13 Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 5 (Cell) Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 26 (Cell) Ant 1	Yes	No	No	Yes	No	Yes
LTE Band 48 Ant 1	Yes	No	No	Yes	No	Yes
GPRS 850 Ant 3	Yes	No	Yes	No	Yes	No
UMTS 850 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 12 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 13 Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 5 (Cell) Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 26 (Cell) Ant 3	Yes	No	Yes	No	Yes	No
LTE Band 48 Ant 3	Yes	No	Yes	No	Yes	No
GPRS 1900 Ant 4A	Yes	No	Yes	No	No	Yes
UMTS 1750 Ant 4A	Yes	No	Yes	No	No	Yes
UMTS 1900 Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 4 (AWS) Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 66 (AWS) Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 2 (PCS) Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 25 (PCS) Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 30 Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 7 Ant 4A	Yes	No	Yes	No	No	Yes
LTE Band 41 Ant 4A	Yes	No	Yes	No	No	Yes
GPRS 1900 Ant 4B	Yes	No	Yes	No	No	Yes
UMTS 1750 Ant 4B	Yes	No	Yes	No	No	Yes
UMTS 1900 Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 4 (AWS) Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 66 (AWS) Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 2 (PCS) Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 25 (PCS) Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 30 Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 7 Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 41 Ant 4B	Yes	No	Yes	No	No	Yes
LTE Band 48 Ant 4B	Yes	No	Yes	No	No	Yes
GPRS 1900 Ant 2A	Yes	No	No	Yes	Yes	No
UMTS 1750 Ant 2A	Yes	No	No	Yes	Yes	No
UMTS 1900 Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 4 (AWS) Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 66 (AWS) Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 2 (PCS) Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 25 (PCS) Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 30 Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 7 Ant 2A	Yes	No	No	Yes	Yes	No
LTE Band 41 Ant 2A	Yes	No	No	Yes	Yes	No
GPRS 1900 Ant 2B	Yes	No	No	Yes	Yes	No
UMTS 1750 Ant 2B	Yes	No	No	Yes	Yes	No
UMTS 1900 Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 4 (AWS) Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 66 (AWS) Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 2 (PCS) Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 25 (PCS) Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 30 Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 7 Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 41 Ant 2B	Yes	No	No	Yes	Yes	No
LTE Band 48 Ant 2B	Yes	No	No	Yes	Yes	No
2.4 GHz WLAN Ant 4A	Yes	No	Yes	No	No	Yes
2.4 GHz WLAN Ant 2A	Yes	No	No	Yes	Yes	No
WLAN 5GHz ANTlower	Yes	No	No	Yes	Yes	No
WLAN 5GHz ANTupper	Yes	No	Yes	No	Yes	No
Bluetooth Ant 4A	Yes	No	Yes	No	No	Yes
Bluetooth Ant 2A	Yes	No	No	Yes	Yes	No

Note: Per FCC KDB Publication 616217 D04v01r01, particular edges were not required to be evaluated for SAR based on the SAR exclusion threshold in KDB 447498 D01V06. Additional edges may have been evaluated for simultaneous transmission analysis.

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1.5 Simultaneous Transmission Capabilities

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

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06 4.3.2 procedures.

Table 1-7
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Body
1	Cellular Band + 2.4 GHz Wi-Fi	Yes
2	Cellular Band + 5 GHz Wi-Fi	Yes
3	Cellular Band + 2.4 GHz Bluetooth	Yes
4	Cellular Band+ 2.4 GHz Wi-Fi MIMO	Yes
5	Cellular Band + 5 GHz Wi-Fi MIMO	Yes
6	Cellular Band + 2.4 GHz Bluetooth MIMO (TxBF)	Yes
7	Cellular Band + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes
8	Cellular Band + 2.4 GHz Bluetooth MIMO (TxBF) + 5 GHz Wi-Fi	Yes
9	Cellular Band + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes
10	Cellular Band + 2.4 GHz Bluetooth MIMO (TxBF) + 5 GHz Wi-Fi MIMO	Yes
11	2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes
12	2.4 GHz Bluetooth MIMO (TxBF) + 5 GHz Wi-Fi	Yes
13	2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes
14	2.4 GHz Bluetooth MIMO (TxBF) + 5 GHz Wi-Fi MIMO	Yes

Table 1-8
Simultaneous Transmission Scenarios of Inter-band ULCA

No.	LTE Inter-Band ULCA Transmit Configuration	Body	Note
1	Cellular Ant 1 + Cellular Ant 2A	Yes	LTE Bands transmitting from Ant 1: LTE B5/12/13 LTE Bands transmitting from Ant 2A: LTE B2/4/7/66/30
2	Cellular Ant 1 + Cellular Ant 4A	Yes	LTE Bands transmitting from Ant 1: LTE B5/12/13 LTE Bands transmitting from Ant 4A: LTE B2/4/7/66/30
3	Cellular Ant 1 + Cellular Ant 4B	Yes	LTE Bands transmitting from Ant 1: LTE B5/12/13 LTE Bands transmitting from Ant 4B: LTE B2/4/7/66/30
4	Cellular Ant 3 + Cellular Ant 2A	Yes	LTE Bands transmitting from Ant 3: LTE B5/12/13 LTE Bands transmitting from Ant 2A: LTE B2/4/7/66/30
5	Cellular Ant 3 + Cellular Ant 2B	Yes	LTE Bands transmitting from Ant 3: LTE B5/12/13 LTE Bands transmitting from Ant 2B: LTE B2/4/7/66/30
6	Cellular Ant 3 + Cellular Ant 4A	Yes	LTE Bands transmitting from Ant 3: LTE B5/12/13 LTE Bands transmitting from Ant 4A: LTE B2/4/7/66/30

Note: The technical description includes all the possible Inter-band ULCA combinations.

Table 1-9
Simultaneous Transmission Scenarios with Inter-band ULCA Active

No.	Capable Transmit Configuration	Body
1	LTE Inter-Band ULCA + 2.4 GHz Wi-Fi	Yes
2	LTE Inter-Band ULCA + 5 GHz Wi-Fi	Yes
3	LTE Inter-Band ULCA + 2.4 GHz Bluetooth	Yes
4	LTE Inter-Band ULCA+ 2.4 GHz Wi-Fi MIMO	Yes
5	LTE Inter-Band ULCA + 5 GHz Wi-Fi MIMO	Yes
6	LTE Inter-Band ULCA + 2.4 GHz Bluetooth MIMO (TxBF)	Yes
7	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5 GHz Wi-Fi	Yes
8	LTE Inter-Band ULCA + 2.4 GHz Bluetooth MIMO (TxBF) + 5 GHz Wi-Fi	Yes
9	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5 GHz Wi-Fi MIMO	Yes
10	LTE Inter-Band ULCA + 2.4 GHz Bluetooth MIMO (TxBF) + 5 GHz Wi-Fi MIMO	Yes

Note: LTE inter-band ULCA can operate in any of the combinations in Table 1-8.

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1. There are no limitations in the above listed simultaneous transmission scenarios between cellular antennas and BT/WI-FI antennas.
2. 2.4 GHz WLAN, and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
3. 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.
4. This device supports VOWIFI.

1.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Since UNII-1 band has higher maximum output power than UNII-2A band and the highest reported SAR for UNII-1 is less than 1.2 W/kg, SAR is not required for UNII-2A band according to FCC KDB Publication 248227 D01v02r02

The WLAN/Bluetooth chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with the identical mechanical structure to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report. WLAN/Bluetooth SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining WLAN/Bluetooth configurations.

This device supports channel 1-13 for 2.4 GHz WLAN. However, because channel 12/13 targets are not higher than that of channels 1-11, channels 1, 6, and 11 were considered for SAR testing per FCC KDB 248227 D01V02r02

This device supports IEEE 802.11ac with the following features:

- a) Up to 80 MHz Bandwidth only
- b) No aggregate channel configurations
- c) 2 Tx antenna output
- d) 256 QAM is supported
- e) TDWR and Band gap channels are supported

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 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.

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(B) Licensed Transmitter(s)

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

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

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

This device supports intra-band LTE Carrier Aggregation (CA) for LTE Band 41, LTE Band 5, and LTE Band 7 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

This device supports inter-band LTE Carrier Aggregation (CA) for LTE Bands 2/4/5/7/12/13/30/66 with two component carriers in the uplink. Additional SAR Measurements were performed for some positions at the maximum allowed output power in inter-band ULCA mode. All single uplink 1g SAR values for each band were < 0.8 W/kg and the algebraic summation of the 1g SAR inter-band ULCA values were < 1.45. Per Fall 2018 TCB Workshop notes, no additional measurements were required.

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 64QAM on the uplink and 256QAM on the downlink for LTE Operations. Conducted powers for 64QAM uplink configurations were measured per Section 5.1 of FCC KDB Publication 941225 D05v02r05. SAR was not required for 64QAM since the highest maximum output power for 64 QAM 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.

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 13.1).

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.

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1.7 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02 (2G/3G/4G)
- 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 616217 D04v01r02 (Tablet)
- 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)
- October 2018 TCB Workshop Notes (Inter-band Uplink Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)

1.8 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 10.

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3 INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

3.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/m³)
- E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

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4

DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

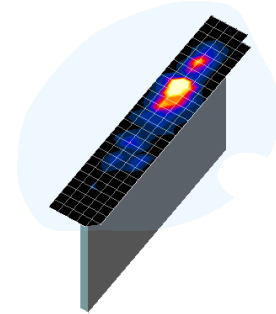


Figure 4-1
Sample SAR Area
Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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5 TEST CONFIGURATION POSITIONS

5.1 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 $\delta = 0.02$.

5.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR Exclusion Threshold in KDB 447498 D01v06 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

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6.1 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.

6.2 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 6-1
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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Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

7.1 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.

7.2 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.

7.3 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.

7.4 SAR Measurement Conditions for UMTS

7.4.1 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.

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7.4.2 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.

7.4.3 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.

7.4.4 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.

7.4.5 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.

7.5 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).

7.5.1 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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7.5.2 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.

7.5.3 A-MPR

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

7.5.4 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.

According to FCC KDB 447498 D01v06, when the reported (scaled) SAR for LTE Band 41 is ≤ 0.6 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 the highest output power for that channel.

7.5.5 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.

7.5.6 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

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downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

7.6 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.

7.6.1 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.

7.6.2 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.

7.6.3 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.

7.6.4 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.

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- 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.

7.6.5 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.

7.6.6 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 7.6.5).

7.6.7 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.

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7.6.8 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.

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8 RF CONDUCTED POWERS

8.1 GSM Conducted Powers

Table 8-1
Conducted Power Ant 1

Maximum Burst-Averaged Output Power					
Band	Channel	GPRS/EDGE Data (GMSK)		EDGE Data (8-PSK)	
		GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 850	128	29.61	26.64	25.63	24.61
	190	29.50	26.57	25.50	24.49
	251	29.54	26.58	25.56	24.55

Calculated Maximum Frame-Averaged Output Power					
Band	Channel	GPRS/EDGE Data (GMSK)		EDGE Data (8-PSK)	
		GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 850	128	20.58	20.62	16.60	18.59
	190	20.47	20.55	16.47	18.47
	251	20.51	20.56	16.53	18.53

GSM 850	Frame Avg. Targets:	19.92	19.93	15.97	17.98
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Table 8-2
Conducted Power Ant 3

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 850	128	29.31	26.85	27.56	26.69
	190	29.27	26.77	27.49	26.61
	251	29.26	26.67	27.40	26.51

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 850	128	20.28	20.83	18.53	20.67
	190	20.24	20.75	18.46	20.59
	251	20.23	20.65	18.37	20.49

GSM 850	Frame Avg. Targets:	19.72	21.23	17.97	19.98
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Table 8-3
Conducted Power Ant 2a

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	23.87	20.70	23.15	20.71
	661	23.84	20.68	23.18	20.73
	810	23.97	20.90	23.25	20.95

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	14.84	14.68	14.12	14.69
	661	14.81	14.66	14.15	14.71
	810	14.94	14.88	14.22	14.93

GSM 1900	Frame Avg.Targets:	14.22	14.23	13.47	14.23
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Table 8-4
Conducted Power Ant 2b

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	22.71	19.78	22.74	19.77
	661	22.73	19.84	22.80	19.80
	810	22.96	19.90	22.97	20.00

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	13.68	13.76	13.71	13.75
	661	13.70	13.82	13.77	13.78
	810	13.93	13.88	13.94	13.98

GSM 1900	Frame Avg.Targets:	13.22	13.23	13.22	13.23
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Table 8-5
Conducted Power Ant 4a

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	23.15	20.07	23.23	20.15
	661	23.02	20.11	23.10	19.94
	810	23.26	20.30	23.27	20.15

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	14.12	14.05	14.20	14.13
	661	13.99	14.09	14.07	13.92
	810	14.23	14.28	14.24	14.13

GSM 1900	Frame Avg. Targets:	13.52	13.53	13.52	13.53
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Table 8-6
Conducted Power Ant 4b

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	22.42	19.46	22.49	19.46
	661	22.26	19.11	22.22	19.11
	810	22.17	19.07	22.17	19.03

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	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot
GSM 1900	512	13.39	13.44	13.46	13.44
	661	13.23	13.09	13.19	13.09
	810	13.14	13.05	13.14	13.01

GSM 1900	Frame Avg. Targets:	12.72	12.73	12.72	12.73
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Note:

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

GSM Class: C
GPRS Multislot class: 10 (Max 2 Tx uplink slots)
EDGE Multislot class: 10 (Max 2 Tx uplink slots)
DTM Multislot Class: N/A



Figure 8-1
Power Measurement Setup

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8.2 UMTS Conducted Powers

Table 8-7
Conducted Power Ant 1

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	20.49	20.68	20.55	-
6	HSDPA	Subtest 1	20.39	20.66	20.54	0
6		Subtest 2	20.44	20.70	20.55	0
6		Subtest 3	20.50	20.68	20.58	0.5
6		Subtest 4	20.47	20.66	20.59	0.5
6	HSUPA	Subtest 1	20.42	20.67	20.53	0
6		Subtest 2	20.47	20.69	20.55	2
6		Subtest 3	20.49	20.70	20.57	1
6		Subtest 4	20.51	20.70	20.60	2
6		Subtest 5	20.45	20.68	20.55	0
8	DC-HSDPA	Subtest 1	20.47	20.68	20.60	0
8		Subtest 2	20.45	20.69	20.59	0
8		Subtest 3	20.46	20.70	20.60	0.5
8		Subtest 4	20.43	20.70	20.61	0.5

Table 8-8
Conducted Power Ant 3

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	20.85	20.80	20.81	-
6	HSDPA	Subtest 1	20.88	20.84	20.81	0
6		Subtest 2	20.84	20.81	20.80	0
6		Subtest 3	20.89	20.80	20.83	0.5
6		Subtest 4	20.93	20.81	20.82	0.5
6	HSUPA	Subtest 1	20.85	20.81	20.86	0
6		Subtest 2	20.90	20.86	20.85	2
6		Subtest 3	20.90	20.80	20.89	1
6		Subtest 4	20.92	20.88	20.88	2
6		Subtest 5	20.84	20.80	20.80	0
8	DC-HSDPA	Subtest 1	20.87	20.83	20.81	0
8		Subtest 2	20.85	20.81	20.80	0
8		Subtest 3	20.85	20.80	20.83	0.5
8		Subtest 4	20.82	20.81	20.81	0.5

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Table 8-9
Conducted Power Ant 2a

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	15.62	15.41	15.58	14.63	14.62	14.93	-
6	HSDPA	Subtest 1	15.62	15.33	15.37	14.09	14.30	14.73	0
6		Subtest 2	15.70	15.35	15.41	14.26	14.34	14.79	0
6		Subtest 3	15.73	15.37	15.47	14.30	14.38	14.80	0.5
6		Subtest 4	15.75	15.39	15.48	14.30	14.37	14.76	0.5
6	HSUPA	Subtest 1	15.61	15.25	15.34	14.27	14.29	14.75	0
6		Subtest 2	15.60	15.29	15.39	14.35	14.42	14.76	2
6		Subtest 3	15.61	15.28	15.39	14.26	14.38	14.76	1
6		Subtest 4	15.62	15.28	15.42	14.37	14.42	14.83	2
6		Subtest 5	15.63	15.24	15.37	14.19	14.23	14.70	0
8	DC-HSDPA	Subtest 1	15.65	15.25	15.37	14.16	14.30	14.74	0
8		Subtest 2	15.67	15.28	15.41	14.19	14.26	14.79	0
8		Subtest 3	15.73	15.32	15.45	14.28	14.29	14.80	0.5
8		Subtest 4	15.70	15.33	15.40	14.25	14.31	14.76	0.5

Table 8-10
Conducted Power Ant 2b

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	14.90	14.94	14.64	13.65	13.80	13.90	-
6	HSDPA	Subtest 1	15.04	14.87	14.71	13.36	13.57	13.86	0
6		Subtest 2	15.03	14.80	14.70	13.47	13.63	13.93	0
6		Subtest 3	15.07	14.88	14.71	13.51	13.66	13.90	0.5
6		Subtest 4	15.09	14.89	14.72	13.54	13.67	13.94	0.5
6	HSUPA	Subtest 1	15.06	14.83	14.71	13.42	13.58	13.87	0
6		Subtest 2	15.04	14.85	14.77	13.57	13.71	13.93	2
6		Subtest 3	15.09	14.88	14.76	13.48	13.65	13.92	1
6		Subtest 4	15.08	14.90	14.81	13.52	13.70	13.99	2
6		Subtest 5	14.97	14.75	14.62	13.49	13.56	13.84	0
8	DC-HSDPA	Subtest 1	15.06	14.86	14.72	13.74	13.59	13.85	0
8		Subtest 2	15.03	14.80	14.65	13.44	13.62	13.89	0
8		Subtest 3	15.09	14.86	14.69	13.48	13.66	13.93	0.5
8		Subtest 4	15.07	14.81	14.73	13.77	13.59	13.43	0.5

Table 8-11
Conducted Power Ant 4a

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	14.58	14.69	14.53	14.67	14.63	14.48	-
6	HSDPA	Subtest 1	14.40	14.63	14.38	14.43	14.40	14.65	0
6		Subtest 2	14.41	14.64	14.39	14.57	14.45	14.70	0
6		Subtest 3	14.41	14.71	14.43	14.61	14.52	14.71	0.5
6		Subtest 4	14.44	14.74	14.42	14.62	14.48	14.76	0.5
6	HSUPA	Subtest 1	14.32	14.58	14.34	14.49	14.39	14.65	0
6		Subtest 2	14.31	14.52	14.31	14.59	14.50	14.73	2
6		Subtest 3	14.34	14.57	14.33	14.58	14.47	14.66	1
6		Subtest 4	14.42	14.63	14.39	14.66	14.55	14.78	2
6		Subtest 5	14.38	14.55	14.33	14.56	14.42	14.68	0
8	DC-HSDPA	Subtest 1	14.41	14.64	14.39	14.56	14.38	14.65	0
8		Subtest 2	14.40	14.63	14.43	14.61	14.47	14.69	0
8		Subtest 3	14.41	14.66	14.43	14.58	14.45	14.74	0.5
8		Subtest 4	14.43	14.71	14.41	14.58	14.43	14.72	0.5

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Table 8-12
Conducted Power Ant 4b

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	13.30	13.31	13.27	13.26	13.19	13.11	-
6	HSDPA	Subtest 1	13.34	13.21	13.48	13.39	13.26	13.34	0
6		Subtest 2	13.37	13.24	13.49	13.40	13.39	13.36	0
6		Subtest 3	13.43	13.33	13.50	13.50	13.26	13.31	0.5
6		Subtest 4	13.32	13.27	13.49	13.43	13.25	13.35	0.5
6	HSUPA	Subtest 1	13.08	13.00	13.19	13.13	13.00	13.08	0
6		Subtest 2	13.20	13.13	13.43	13.40	13.28	13.31	2
6		Subtest 3	13.11	13.03	13.31	13.27	13.08	13.18	1
6		Subtest 4	13.37	13.27	13.50	13.49	13.31	13.39	2
6		Subtest 5	13.25	13.15	13.39	13.37	13.22	13.25	0
8	DC-HSDPA	Subtest 1	13.40	13.32	13.50	13.28	13.18	13.28	0
8		Subtest 2	13.31	13.25	13.48	13.41	13.35	13.50	0
8		Subtest 3	13.33	13.28	13.50	13.43	13.30	13.32	0.5
8		Subtest 4	13.36	13.30	13.49	13.39	13.22	13.33	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

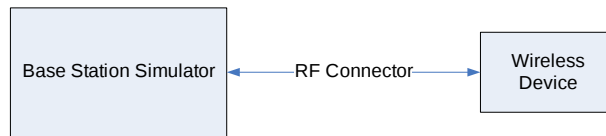


Figure 8-2
Power Measurement Setup

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8.3 LTE Conducted Powers

8.3.1 LTE Band 12

Table 8-13
LTE Band 12 Conducted Powers Ant 1 - 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	21.05	0	0
	1	25	21.00		0
	1	49	21.04		0
	25	0	20.99		0
	25	12	21.07	0-1	0
	25	25	21.15		0
	50	0	21.02		0
	50	0	21.02		0
16QAM	1	0	21.00	0-1	0
	1	25	21.05		0
	1	49	21.10		0
	25	0	20.52		0
	25	12	20.64	0-2	0
	25	25	20.69		0
	50	0	20.65		0
	50	0	20.96		0
64QAM	1	0	20.96	0-2	0
	1	25	20.98		0
	1	49	21.05		0
	25	0	20.55		0
	25	12	20.66	0-3	0
	25	25	20.72		0
	50	0	20.68		0
	50	0	20.68		0

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.

Table 8-14
LTE Band 12 Conducted Powers Ant 1 - 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	20.96	20.91	20.94	0	0
	1	12	21.08	20.74	20.96		0
	1	24	21.06	20.75	20.82		0
	12	0	21.00	20.89	21.15	0-1	0
	12	6	21.01	20.77	21.08		0
	12	13	21.04	20.78	20.97		0
	25	0	20.97	20.75	21.06		0
	16QAM	1	0	20.99	21.19	21.14	0-1
1		12	21.19	21.17	21.12	0	
1		24	21.09	20.83	20.98	0	
12		0	21.06	20.92	21.04	0-2	0
12		6	21.00	20.80	21.13		0
12		13	20.95	20.84	21.02		0
25		0	20.97	20.79	21.09		0
64QAM		1	0	21.21	21.27	21.05	0-2
	1	12	21.19	20.93	21.07	0	
	1	24	21.17	21.15	20.97	0	
	12	0	21.05	20.93	21.16	0-3	0
	12	6	21.06	20.80	21.10		0
	12	13	21.04	20.79	20.91		0
	25	0	21.06	20.80	21.09		0

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Table 8-15
LTE Band 12 Conducted Powers Ant 1 - 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	20.83	20.83	21.08	0	0
	1	7	21.02	20.75	21.03		0
	1	14	20.99	20.71	20.82		0
	8	0	21.00	20.91	21.14	0-1	0
	8	4	21.08	20.79	21.04		0
	8	7	21.10	20.85	20.96		0
	15	0	21.10	20.81	21.03		0
16QAM	1	0	21.07	21.06	21.13	0-1	0
	1	7	21.30	21.05	21.19		0
	1	14	21.14	21.01	21.05		0
	8	0	21.04	20.90	21.17	0-2	0
	8	4	21.06	20.81	21.13		0
	8	7	21.16	20.86	21.03		0
	15	0	21.12	20.82	21.05		0
64QAM	1	0	21.06	20.95	21.28	0-2	0
	1	7	21.09	21.04	21.14		0
	1	14	21.13	21.00	21.00		0
	8	0	20.98	20.93	21.19	0-3	0
	8	4	21.10	20.82	21.08		0
	8	7	21.05	20.85	21.10		0
	15	0	21.05	20.87	21.08		0

Table 8-16
LTE Band 12 Conducted Powers Ant 1 - 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	21.04	20.93	21.10	0	0
	1	2	21.00	20.89	21.04		0
	1	5	21.05	20.88	21.00		0
	3	0	20.96	20.83	21.01		0
	3	2	21.01	20.80	21.00		0
	3	3	21.03	20.81	20.90		0
	6	0	21.05	20.88	21.02	0-1	0
16QAM	1	0	21.12	21.12	21.30	0-1	0
	1	2	21.18	21.02	21.22		0
	1	5	21.20	20.97	21.15		0
	3	0	20.80	20.74	20.97		0
	3	2	20.85	20.65	20.93		0
	3	3	20.94	20.70	20.90		0
	6	0	20.77	20.68	20.85	0-2	0
64QAM	1	0	21.07	20.75	21.26	0-2	0
	1	2	21.11	20.74	21.13		0
	1	5	21.15	20.70	21.05		0
	3	0	20.70	20.54	20.72		0
	3	2	20.74	20.50	20.67		0
	3	3	20.71	20.48	20.64		0
	6	0	20.61	20.43	20.62	0-3	0

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Table 8-17
LTE Band 12 Conducted Powers Ant 1 - 10 MHz Bandwidth, Inter-band ULCA Active

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	17.96	0	0
	1	25	17.93		0
	1	49	18.13		0
	25	0	17.80	0-1	0
	25	12	17.87		0
	25	25	17.99		0
	50	0	17.92		0
16QAM	1	0	17.87	0-1	0
	1	25	17.89		0
	1	49	18.09		0
	25	0	17.60	0-2	0
	25	12	17.70		0
	25	25	17.74		0
	50	0	17.73		0
64QAM	1	0	17.95	0-2	0
	1	25	17.96		0
	1	49	18.22		0
	25	0	17.54	0-3	0
	25	12	17.62		0
	25	25	17.75		0
	50	0	17.70		0

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.

Table 8-18
LTE Band 12 Conducted Powers Ant 1 - 5 MHz Bandwidth, Inter-band ULCA Active

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	17.77	17.79	17.87	0	0
	1	12	17.91	17.62	17.89		0
	1	24	17.94	17.69	17.78		0
	12	0	17.96	17.83	18.09	0-1	0
	12	6	17.96	17.70	17.96		0
	12	13	18.01	17.70	17.90		0
	25	0	17.98	17.69	17.98		0
16QAM	1	0	17.75	17.69	17.79	0-1	0
	1	12	17.79	17.52	17.76		0
	1	24	17.79	17.59	17.65		0
	12	0	17.69	17.62	17.80	0-2	0
	12	6	17.72	17.50	17.68		0
	12	13	17.74	17.51	17.64		0
	25	0	17.77	17.44	17.77		0
64QAM	1	0	17.62	17.86	17.94	0-2	0
	1	12	17.86	17.71	18.01		0
	1	24	17.85	17.59	17.92		0
	12	0	17.70	17.56	17.88	0-3	0
	12	6	17.69	17.47	17.79		0
	12	13	17.73	17.45	17.76		0
	25	0	17.66	17.52	17.72		0

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Table 8-19
LTE Band 12 Conducted Powers Ant 1 - 3 MHz Bandwidth, Inter-band ULCA Active

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	17.65	17.70	17.83	0	0
	1	7	17.85	17.62	17.79		0
	1	14	17.81	17.54	17.66		0
	8	0	17.87	17.79	17.93	0-1	0
	8	4	17.92	17.67	17.87		0
	8	7	17.93	17.72	17.84		0
	15	0	17.93	17.71	17.90		0
16QAM	1	0	17.66	17.86	17.98	0-1	0
	1	7	17.93	17.67	18.00		0
	1	14	17.95	17.62	17.81		0
	8	0	17.79	17.68	17.78	0-2	0
	8	4	17.83	17.58	17.73		0
	8	7	17.83	17.61	17.73		0
	15	0	17.83	17.56	17.74		0
64QAM	1	0	17.73	17.89	18.02	0-2	0
	1	7	17.89	17.83	18.14		0
	1	14	17.84	17.49	17.95		0
	8	0	17.65	17.62	17.85	0-3	0
	8	4	17.74	17.47	17.80		0
	8	7	17.69	17.52	17.81		0
	15	0	17.73	17.49	17.73		0

Table 8-20
LTE Band 12 Conducted Powers Ant 1 - 1.4 MHz Bandwidth, Inter-band ULCA Active

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	17.89	17.77	17.97	0	0
	1	2	17.92	17.73	17.89		0
	1	5	18.00	17.73	17.88		0
	3	0	17.77	17.68	17.80		0
	3	2	17.84	17.67	17.82		0
	3	3	17.85	17.66	17.77		0
	6	0	17.83	17.64	17.80	0-1	0
16QAM	1	0	18.05	17.79	18.02	0-1	0
	1	2	17.98	17.74	17.92		0
	1	5	18.00	17.80	17.85		0
	3	0	17.75	17.67	17.80		0
	3	2	17.80	17.65	17.67		0
	3	3	17.75	17.66	17.78		0
	6	0	17.83	17.58	17.72	0-2	0
64QAM	1	0	17.75	17.63	18.01	0-2	0
	1	2	17.77	17.82	17.88		0
	1	5	17.85	17.66	17.72		0
	3	0	17.67	17.63	17.91		0
	3	2	17.73	17.51	17.88		0
	3	3	17.78	17.58	17.79		0
	6	0	17.69	17.47	17.61	0-3	0

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Table 8-21
LTE Band 12 Conducted Powers Ant 3 - 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	21.51	0	0
	1	25	21.39		0
	1	49	21.57		0
	25	0	21.48	0-1	0
	25	12	21.43		0
	25	25	21.49		0
	50	0	21.45		0
16QAM	1	0	21.53	0-1	0
	1	25	21.42		0
	1	49	21.62		0
	25	0	21.28	0-2	0
	25	12	21.20		0
	25	25	21.27		0
	50	0	21.23		0
64QAM	1	0	21.60	0-2	0
	1	25	21.50		0
	1	49	21.67		0
	25	0	21.21	0-3	0
	25	12	21.19		0
	25	25	21.27		0
	50	0	21.23		0

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.

Table 8-22
LTE Band 12 Conducted Powers Ant 3 - 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	21.39	21.48	21.30	0	0
	1	12	21.49	21.25	21.45		0
	1	24	21.61	21.16	21.60		0
	12	0	21.50	21.45	21.45	0-1	0
	12	6	21.54	21.36	21.51		0
	12	13	21.62	21.27	21.66		0
	25	0	21.59	21.38	21.56		0
16QAM	1	0	21.75	21.79	21.71	0-1	0
	1	12	21.80	21.73	21.61		0
	1	24	21.78	21.58	21.74		0
	12	0	21.58	21.49	21.45	0-2	0
	12	6	21.63	21.38	21.56		0
	12	13	21.71	21.28	21.73		0
	25	0	21.67	21.39	21.57		0
64QAM	1	0	21.77	21.80	21.51	0-2	0
	1	12	21.80	21.69	21.79		0
	1	24	21.78	21.58	21.78		0
	12	0	21.53	21.43	21.52	0-3	0
	12	6	21.63	21.39	21.55		0
	12	13	21.67	21.28	21.69		0
	25	0	21.65	21.40	21.60		0

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Table 8-23
LTE Band 12 Conducted Powers Ant 3 - 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	21.64	21.40	21.59	0	0
	1	7	21.66	21.38	21.73		0
	1	14	21.65	21.15	21.65		0
	8	0	21.52	21.48	21.64	0-1	0
	8	4	21.59	21.41	21.76		0
	8	7	21.66	21.34	21.69		0
	15	0	21.60	21.44	21.78		0
16QAM	1	0	21.61	21.57	21.72	0-1	0
	1	7	21.67	21.49	21.78		0
	1	14	21.75	21.52	21.66		0
	8	0	21.28	21.29	21.42	0-2	0
	8	4	21.34	21.24	21.45		0
	8	7	21.44	21.14	21.48		0
	15	0	21.34	21.23	21.49		0
64QAM	1	0	21.52	21.60	21.74	0-2	0
	1	7	21.68	21.61	21.72		0
	1	14	21.62	21.39	21.65		0
	8	0	21.32	21.27	21.39	0-3	0
	8	4	21.40	21.33	21.53		0
	8	7	21.45	21.22	21.49		0
	15	0	21.32	21.34	21.51		0

Table 8-24
LTE Band 12 Conducted Powers Ant 3 - 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	21.52	21.36	21.76	0	0
	1	2	21.53	21.33	21.78		0
	1	5	21.62	21.32	21.78		0
	3	0	21.51	21.43	21.70		0
	3	2	21.49	21.41	21.71		0
	3	3	21.49	21.41	21.72		0
	6	0	21.49	21.44	21.73	0-1	0
16QAM	1	0	21.70	21.54	21.76	0-1	0
	1	2	21.69	21.52	21.79		0
	1	5	21.76	21.58	21.77		0
	3	0	21.42	21.31	21.53		0
	3	2	21.35	21.37	21.58		0
	3	3	21.37	21.28	21.55		0
	6	0	21.34	21.30	21.50	0-2	0
64QAM	1	0	21.67	21.50	21.77	0-2	0
	1	2	21.52	21.54	21.78		0
	1	5	21.73	21.49	21.78		0
	3	0	21.41	21.27	21.56		0
	3	2	21.33	21.23	21.62		0
	3	3	21.40	21.27	21.66		0
	6	0	21.33	21.26	21.60	0-3	0

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Table 8-25
LTE Band 12 Conducted Powers Ant 3 - 10 MHz Bandwidth, Inter-band ULCA Active

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	18.51	0	0
	1	25	18.36		0
	1	49	18.68		0
	25	0	18.44	0-1	0
	25	12	18.39		0
	25	25	18.49		0
	50	0	18.44		0
16QAM	1	0	18.40	0-1	0
	1	25	18.41		0
	1	49	18.40		0
	25	0	18.39	0-2	0
	25	12	18.39		0
	25	25	18.39		0
	50	0	18.39		0
64QAM	1	0	18.41	0-2	0
	1	25	18.40		0
	1	49	18.41		0
	25	0	18.38	0-3	0
	25	12	18.37		0
	25	25	18.39		0
	50	0	18.38		0

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.

Table 8-26
LTE Band 12 Conducted Powers Ant 3 - 5 MHz Bandwidth, Inter-band ULCA Active

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	18.42	18.33	18.18	0	0
	1	12	18.49	18.25	18.40		0
	1	24	18.59	18.17	18.59		0
	12	0	18.35	18.36	18.34	0-1	0
	12	6	18.36	18.28	18.39		0
	12	13	18.44	18.19	18.48		0
16QAM	25	0	18.39	18.28	18.41	0	
	1	0	18.36	18.48	18.44	0-1	0
	1	12	18.56	18.44	18.66		0
	1	24	18.65	18.31	18.69		0
	12	0	18.35	18.40	18.34	0-2	0
	12	6	18.42	18.35	18.43		0
12	13	18.48	18.18	18.54	0		
64QAM	25	0	18.42	18.31	18.49	0	
	1	0	18.68	18.58	18.33	0-2	0
	1	12	18.53	18.52	18.49		0
	1	24	18.69	18.54	18.73		0
	12	0	18.45	18.36	18.36	0-3	0
	12	6	18.42	18.32	18.48		0
12	13	18.49	18.23	18.55	0		
	25	0	18.45	18.24	18.40	0	

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Table 8-27
LTE Band 12 Conducted Powers Ant 3 - 3 MHz Bandwidth, Inter-band ULCA Active

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	18.29	18.32	18.34	0	0
	1	7	18.41	18.32	18.49		0
	1	14	18.41	18.15	18.45		0
	8	0	18.44	18.45	18.48	0-1	0
	8	4	18.47	18.36	18.58		0
	8	7	18.54	18.29	18.55		0
	15	0	18.50	18.38	18.58		0
16QAM	1	0	18.60	18.39	18.65	0-1	0
	1	7	18.62	18.62	18.66		0
	1	14	18.60	18.30	18.58		0
	8	0	18.49	18.51	18.49	0-2	0
	8	4	18.54	18.41	18.61		0
	8	7	18.60	18.33	18.55		0
	15	0	18.58	18.43	18.63		0
64QAM	1	0	18.57	18.63	18.75	0-2	0
	1	7	18.67	18.61	18.79		0
	1	14	18.61	18.37	18.71		0
	8	0	18.54	18.45	18.59	0-3	0
	8	4	18.50	18.39	18.63		0
	8	7	18.59	18.32	18.60		0
	15	0	18.54	18.39	18.61		0

Table 8-28
LTE Band 12 Conducted Powers Ant 3 - 1.4 MHz Bandwidth, Inter-band ULCA Active

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	18.32	18.31	18.73	0	0
	1	2	18.35	18.28	18.67		0
	1	5	18.41	18.30	18.75		0
	3	0	18.45	18.38	18.58		0
	3	2	18.41	18.38	18.58		0
	3	3	18.42	18.39	18.62		0
	6	0	18.42	18.37	18.57	0-1	0
16QAM	1	0	18.50	18.65	18.68	0-1	0
	1	2	18.59	18.63	18.71		0
	1	5	18.64	18.60	18.80		0
	3	0	18.62	18.46	18.69		0
	3	2	18.56	18.42	18.70		0
	3	3	18.61	18.49	18.68		0
	6	0	18.51	18.43	18.67	0-2	0
64QAM	1	0	18.60	18.64	18.78	0-2	0
	1	2	18.67	18.60	18.78		0
	1	5	18.66	18.63	18.80		0
	3	0	18.57	18.42	18.72		0
	3	2	18.54	18.45	18.76		0
	3	3	18.62	18.36	18.67		0
	6	0	18.51	18.42	18.64	0-3	0

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LTE Band 13

Table 8-29
LTE Band 13 Conducted Powers Ant 1 - 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	21.22	0	0
	1	25	20.93		0
	1	49	21.08		0
	25	0	20.85	0-1	0
	25	12	20.97		0
	25	25	21.07		0
	50	0	21.02		0
	50	0	21.02		0
16QAM	1	0	21.37	0-1	0
	1	25	21.18		0
	1	49	21.40		0
	25	0	20.84	0-2	0
	25	12	21.03		0
	25	25	21.15		0
	50	0	21.07		0
	50	0	21.07		0
64QAM	1	0	21.25	0-2	0
	1	25	21.23		0
	1	49	21.40		0
	25	0	20.90	0-3	0
	25	12	21.00		0
	25	25	21.15		0
	50	0	21.09		0
	50	0	21.09		0

Table 8-30
LTE Band 13 Conducted Powers Ant 1 - 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	21.27	0	0
	1	12	21.20		0
	1	24	21.27		0
	12	0	21.28	0-1	0
	12	6	21.25		0
	12	13	21.15		0
	25	0	21.20		0
	25	0	21.20		0
16QAM	1	0	21.48	0-1	0
	1	12	21.44		0
	1	24	21.40		0
	12	0	21.06	0-2	0
	12	6	21.07		0
	12	13	20.98		0
	25	0	20.93		0
	25	0	20.93		0
64QAM	1	0	21.20	0-2	0
	1	12	21.10		0
	1	24	21.12		0
	12	0	20.90	0-3	0
	12	6	20.83		0
	12	13	20.74		0
	25	0	20.79		0
	25	0	20.79		0

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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Table 8-31
LTE Band 13 Conducted Powers Ant 1 - 10 MHz Bandwidth, Inter-band ULCA Active

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	18.37	0	0
	1	25	18.19		0
	1	49	18.44		0
	25	0	18.16	0-1	0
	25	12	18.19		0
	25	25	18.32		0
	50	0	18.25		0
16QAM	1	0	18.31	0-1	0
	1	25	18.11		0
	1	49	18.33		0
	25	0	17.90	0-2	0
	25	12	18.00		0
	25	25	18.14		0
	50	0	18.05		0
64QAM	1	0	18.33	0-2	0
	1	25	18.21		0
	1	49	18.49		0
	25	0	17.85	0-3	0
	25	12	18.02		0
	25	25	18.17		0
	50	0	18.09		0

Table 8-32
LTE Band 13 Conducted Powers Ant 1 - 5 MHz Bandwidth, Inter-band ULCA Active

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	17.96	0	0
	1	12	17.92		0
	1	24	18.01		0
	12	0	18.12	0-1	0
	12	6	18.12		0
	12	13	18.01		0
	25	0	18.03		0
16QAM	1	0	18.08	0-1	0
	1	12	18.06		0
	1	24	18.11		0
	12	0	18.13	0-2	0
	12	6	18.15		0
	12	13	18.05		0
	25	0	18.08		0
64QAM	1	0	18.17	0-2	0
	1	12	18.05		0
	1	24	18.19		0
	12	0	17.91	0-3	0
	12	6	17.96		0
	12	13	17.83		0
	25	0	17.87		0

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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Table 8-33
LTE Band 13 Conducted Powers Ant 3 - 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	21.64	0	0
	1	25	21.39		0
	1	49	21.18		0
	25	0	21.24	0-1	0
	25	12	21.43		0
	25	25	21.33		0
	50	0	21.37		0
16QAM	1	0	21.47	0-1	0
	1	25	21.35		0
	1	49	21.17		0
	25	0	20.80	0-2	0
	25	12	21.01		0
	25	25	20.92		0
	50	0	20.94		0
64QAM	1	0	21.52	0-2	0
	1	25	21.40		0
	1	49	21.20		0
	25	0	20.80	0-3	0
	25	12	20.96		0
	25	25	20.91		0
	50	0	20.97		0

Table 8-34
LTE Band 13 Conducted Powers Ant 3 - 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	21.23	0	0
	1	12	21.39		0
	1	24	21.33		0
	12	0	21.41	0-1	0
	12	6	21.45		0
	12	13	21.46		0
	25	0	21.45		0
16QAM	1	0	21.01	0-1	0
	1	12	21.24		0
	1	24	21.19		0
	12	0	21.13	0-2	0
	12	6	21.11		0
	12	13	21.16		0
	25	0	21.06		0
64QAM	1	0	21.23	0-2	0
	1	12	21.32		0
	1	24	21.33		0
	12	0	21.02	0-3	0
	12	6	21.12		0
	12	13	21.13		0
	25	0	21.02		0

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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Table 8-35
LTE Band 13 Conducted Powers Ant 3 - 10 MHz Bandwidth, Inter-band ULCA Active

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	18.45	0	0
	1	25	18.71		0
	1	49	18.47		0
	25	0	18.45	0-1	0
	25	12	18.62		0
	25	25	18.50		0
16QAM	50	0	18.61	0-1	0
	1	0	18.69		0
	1	25	18.49		0
	1	49	18.33	0-2	0
	25	0	17.94		0
	25	12	18.08		0
64QAM	25	25	18.04	0-2	0
	50	0	18.15		0
	1	0	18.61	0-2	0
	1	25	18.43		0
	1	49	18.07		0
	25	0	17.94	0-3	0
	25	12	18.11		0
	25	25	18.05		0
	50	0	18.14		0

Table 8-36
LTE Band 13 Conducted Powers Ant 3 - 5 MHz Bandwidth, Inter-band ULCA Active

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	18.37	0	0
	1	12	18.47		0
	1	24	18.54		0
	12	0	18.46	0-1	0
	12	6	18.48		0
	12	13	18.50		0
16QAM	25	0	18.43	0-1	0
	1	0	18.22		0
	1	12	18.33		0
	1	24	18.38	0-2	0
	12	0	18.28		0
	12	6	18.34		0
64QAM	12	13	18.33	0-2	0
	25	0	18.31		0
	1	0	18.59	0-2	0
	1	12	18.59		0
	1	24	18.67		0
	12	0	18.33	0-3	0
	12	6	18.39		0
	12	13	18.38		0
	25	0	18.26		0

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 5

Table 8-37
LTE Band 5 Conducted Powers Ant 1 - 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	20.51	0	0
	1	25	20.62		0
	1	49	20.57		0
	25	0	20.50	0-1	0
	25	12	20.61		0
	25	25	20.54		0
	50	0	20.60		0
16QAM	1	0	20.52	0-1	0
	1	25	20.66		0
	1	49	20.54		0
	25	0	20.28	0-2	0
	25	12	20.35		0
	25	25	20.32		0
	50	0	20.37		0
64QAM	1	0	20.45	0-2	0
	1	25	20.55		0
	1	49	20.48		0
	25	0	20.28	0-3	0
	25	12	20.39		0
	25	25	20.35		0
	50	0	20.36		0

Note: LTE Band 5 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.

Table 8-38
LTE Band 5 Conducted Powers Ant 1 - 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	20.37	20.36	20.47	0	0
	1	12	20.22	20.54	20.51		0
	1	24	20.17	20.65	20.69		0
	12	0	20.31	20.52	20.45	0-1	0
	12	6	20.27	20.52	20.47		0
	12	13	20.24	20.62	20.57		0
	25	0	20.29	20.62	20.49		0
16QAM	1	0	20.57	20.67	20.48	0-1	0
	1	12	20.41	20.67	20.54		0
	1	24	20.43	20.68	20.69		0
	12	0	20.08	20.30	20.27	0-2	0
	12	6	20.05	20.29	20.28		0
	12	13	19.98	20.35	20.35		0
	25	0	20.08	20.33	20.25		0
64QAM	1	0	20.62	20.62	20.62	0-2	0
	1	12	20.47	20.68	20.64		0
	1	24	20.38	20.69	20.70		0
	12	0	20.09	20.34	20.29	0-3	0
	12	6	20.05	20.30	20.27		0
	12	13	20.02	20.41	20.37		0
	25	0	20.05	20.40	20.24		0

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Table 8-39
LTE Band 5 Conducted Powers Ant 1 - 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	20.29	20.41	20.38	0	0
	1	7	20.21	20.56	20.50		0
	1	14	20.14	20.53	20.54		0
	8	0	20.38	20.55	20.52	0-1	0
	8	4	20.30	20.62	20.60		0
	8	7	20.30	20.64	20.67		0
	15	0	20.32	20.65	20.63		0
16QAM	1	0	20.51	20.66	20.48	0-1	0
	1	7	20.29	20.70	20.68		0
	1	14	20.22	20.62	20.61		0
	8	0	20.22	20.43	20.34	0-2	0
	8	4	20.16	20.49	20.47		0
	8	7	20.16	20.45	20.53		0
	15	0	20.14	20.41	20.44		0
64QAM	1	0	20.23	20.58	20.51	0-2	0
	1	7	20.26	20.70	20.57		0
	1	14	20.11	20.59	20.55		0
	8	0	20.25	20.34	20.42	0-3	0
	8	4	20.12	20.40	20.47		0
	8	7	20.14	20.45	20.53		0
	15	0	20.11	20.43	20.42		0

Table 8-40
LTE Band 5 Conducted Powers Ant 1 - 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	20.49	20.56	20.68	0	0
	1	2	20.40	20.51	20.69		0
	1	5	20.36	20.62	20.70		0
	3	0	20.40	20.53	20.66		0
	3	2	20.36	20.58	20.68		0
	3	3	20.35	20.55	20.69		0
	6	0	20.36	20.54	20.67	0-1	0
16QAM	1	0	20.43	20.60	20.67	0-1	0
	1	2	20.32	20.58	20.69		0
	1	5	20.28	20.69	20.70		0
	3	0	20.34	20.47	20.60		0
	3	2	20.25	20.54	20.63		0
	3	3	20.27	20.53	20.64		0
	6	0	20.22	20.47	20.59	0-2	0
64QAM	1	0	20.32	20.59	20.58	0-2	0
	1	2	20.27	20.63	20.67		0
	1	5	20.24	20.68	20.69		0
	3	0	20.32	20.45	20.67		0
	3	2	20.24	20.44	20.70		0
	3	3	20.25	20.49	20.68		0
	6	0	20.20	20.43	20.53	0-3	0

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Table 8-41
LTE Band 5 Conducted Powers Ant 1 - 10 MHz Bandwidth, Inter-band ULCA Active

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	17.40	0	0
	1	25	17.50		0
	1	49	17.46		0
	25	0	17.37	0-1	0
	25	12	17.46		0
	25	25	17.45		0
	50	0	17.45		0
16QAM	1	0	17.45	0-1	0
	1	25	17.52		0
	1	49	17.47		0
	25	0	17.18	0-2	0
	25	12	17.24		0
	25	25	17.22		0
	50	0	17.25		0
64QAM	1	0	17.31	0-2	0
	1	25	17.37		0
	1	49	17.34		0
	25	0	17.17	0-3	0
	25	12	17.24		0
	25	25	17.22		0
	50	0	17.24		0

Note: LTE Band 5 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.

Table 8-42
LTE Band 5 Conducted Powers Ant 1 - 5 MHz Bandwidth, Inter-band ULCA Active

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	17.21	17.19	17.16	0	0
	1	12	17.02	17.34	17.22		0
	1	24	17.00	17.46	17.38		0
	12	0	17.18	17.41	17.35	0-1	0
	12	6	17.13	17.40	17.36		0
	12	13	17.11	17.49	17.46		0
	25	0	17.15	17.48	17.39		0
16QAM	1	0	17.46	17.45	17.32	0-1	0
	1	12	17.17	17.51	17.39		0
	1	24	17.18	17.64	17.54		0
	12	0	17.21	17.48	17.35	0-2	0
	12	6	17.18	17.46	17.37		0
	12	13	17.16	17.56	17.41		0
	25	0	17.19	17.50	17.44		0
64QAM	1	0	17.25	17.29	17.34	0-2	0
	1	12	17.15	17.33	17.23		0
	1	24	17.22	17.58	17.44		0
	12	0	17.03	17.23	17.24	0-3	0
	12	6	17.00	17.25	17.25		0
	12	13	17.00	17.28	17.28		0
	25	0	17.02	17.25	17.23		0

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Table 8-43
LTE Band 5 Conducted Powers Ant 1 - 3 MHz Bandwidth, Inter-band ULCA Active

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	17.21	17.19	17.16	0	0
	1	7	17.02	17.34	17.22		0
	1	14	17.01	17.46	17.38		0
	8	0	17.18	17.41	17.35	0-1	0
	8	4	17.13	17.40	17.36		0
	8	7	17.11	17.49	17.46		0
	15	0	17.15	17.48	17.39		0
16QAM	1	0	17.46	17.45	17.32	0-1	0
	1	7	17.17	17.51	17.39		0
	1	14	17.18	17.64	17.54		0
	8	0	17.21	17.48	17.35	0-2	0
	8	4	17.18	17.46	17.37		0
	8	7	17.16	17.56	17.41		0
	15	0	17.19	17.50	17.44		0
64QAM	1	0	17.20	17.42	17.41	0-2	0
	1	7	17.16	17.48	17.58		0
	1	14	17.03	17.33	17.48		0
	8	0	17.15	17.27	17.19	0-3	0
	8	4	17.04	17.33	17.30		0
	8	7	17.00	17.35	17.43		0
	15	0	17.06	17.30	17.30		0

Table 8-44
LTE Band 5 Conducted Powers Ant 1 - 1.4 MHz Bandwidth, Inter-band ULCA Active

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	17.38	17.50	17.46	0	0
	1	2	17.28	17.40	17.52		0
	1	5	17.20	17.50	17.47		0
	3	0	17.22	17.35	17.39		0
	3	2	17.18	17.42	17.39		0
	3	3	17.18	17.43	17.39		0
	6	0	17.18	17.41	17.38	0-1	0
16QAM	1	0	17.53	17.64	17.58	0-1	0
	1	2	17.27	17.47	17.53		0
	1	5	17.29	17.61	17.57		0
	3	0	17.40	17.46	17.50		0
	3	2	17.29	17.48	17.48		0
	3	3	17.40	17.61	17.57	0	
64QAM	6	0	17.26	17.51	17.45	0-2	0
	1	0	17.04	17.16	17.23	0-2	0
	1	2	17.01	17.06	17.23		0
	1	5	16.89	17.34	17.30		0
	3	0	17.00	17.04	17.29		0
	3	2	16.92	17.13	17.30		0
	3	3	16.91	17.13	17.35		0
	6	0	16.95	17.06	17.17	0-3	0

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Table 8-45
LTE Band 5 Conducted Powers Ant 3 - 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	20.92	0	0
	1	25	20.76		0
	1	49	20.93		0
	25	0	20.83	0-1	0
	25	12	20.79		0
	25	25	20.95		0
16QAM	50	0	20.83	0-1	0
	1	0	20.93		0
	1	25	20.73		0
	1	49	20.92	0-2	0
	25	0	20.62		0
	25	12	20.64		0
	25	25	20.74		0
	50	0	20.64		0
64QAM	1	0	20.91	0-2	0
	1	25	20.94		0
	1	49	20.88		0
	25	0	20.64	0-3	0
	25	12	20.63		0
	25	25	20.72		0
	50	0	20.62		0

Note: LTE Band 5 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.

Table 8-46
LTE Band 5 Conducted Powers Ant 3 - 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	20.87	20.54	21.03	0	0
	1	12	20.92	20.51	20.89		0
	1	24	20.97	20.58	20.85		0
	12	0	20.84	20.63	20.85	0-1	0
	12	6	20.85	20.59	20.76		0
	12	13	20.88	20.58	20.74		0
	25	0	20.87	20.61	20.76		0
16QAM	1	0	21.06	20.80	21.08	0-1	0
	1	12	21.16	20.88	21.04		0
	1	24	21.11	20.96	20.96		0
	12	0	20.91	20.70	20.92	0-2	0
	12	6	20.95	20.68	20.84		0
	12	13	20.96	20.65	20.75		0
	25	0	20.94	20.64	20.82		0
64QAM	1	0	21.09	20.81	21.17	0-2	0
	1	12	21.13	20.82	21.00		0
	1	24	21.16	20.87	21.04		0
	12	0	20.95	20.72	20.92	0-3	0
	12	6	20.94	20.68	20.84		0
	12	13	20.94	20.65	20.81		0
	25	0	20.94	20.69	20.80		0

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Table 8-47
LTE Band 5 Conducted Powers Ant 3 - 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	20.87	20.58	20.66	0	0
	1	7	21.00	20.63	20.67		0
	1	14	20.96	20.59	20.59		0
	8	0	20.82	20.65	20.79	0-1	0
	8	4	20.88	20.65	20.77		0
	8	7	20.89	20.64	20.71		0
	15	0	20.88	20.67	20.77		0
16QAM	1	0	20.88	20.78	21.00	0-1	0
	1	7	20.95	20.79	21.03		0
	1	14	20.84	20.73	20.83		0
	8	0	20.91	20.78	20.83	0-2	0
	8	4	20.94	20.70	20.78		0
	8	7	20.95	20.70	20.67		0
	15	0	20.93	20.74	20.85		0
64QAM	1	0	20.86	20.78	20.99	0-2	0
	1	7	20.97	20.76	21.00		0
	1	14	20.87	20.84	20.85		0
	8	0	20.92	20.76	20.88	0-3	0
	8	4	20.99	20.74	20.83		0
	8	7	20.93	20.74	20.75		0
	15	0	20.93	20.73	20.83		0

Table 8-48
LTE Band 5 Conducted Powers Ant 3 - 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	20.84	20.51	21.00	0	0
	1	2	20.89	20.55	20.86		0
	1	5	20.94	20.55	20.82		0
	3	0	20.81	20.60	20.82		0
	3	2	20.82	20.56	20.73		0
	3	3	20.85	20.55	20.71		0
	6	0	20.82	20.56	20.71	0-1	0
16QAM	1	0	21.01	20.75	21.03	0-1	0
	1	2	21.11	20.83	20.99		0
	1	5	21.06	20.91	20.91		0
	3	0	20.86	20.65	20.87		0
	3	2	20.90	20.63	20.79		0
	3	3	20.91	20.60	20.70		0
	6	0	20.90	20.60	20.78	0-2	0
64QAM	1	0	21.05	20.77	21.13	0-2	0
	1	2	21.09	20.78	20.96		0
	1	5	21.12	20.83	21.00		0
	3	0	20.91	20.68	20.88		0
	3	2	20.87	20.61	20.77		0
	3	3	20.87	20.58	20.74		0
	6	0	20.87	20.62	20.73	0-3	0

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Table 8-49
LTE Band 5 Conducted Powers Ant 3 - 10 MHz Bandwidth, Inter-band ULCA Active

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	18.17	0	0
	1	25	18.08		0
	1	49	18.28		0
	25	0	18.12	0-1	0
	25	12	18.11		0
	25	25	18.24		0
	50	0	18.13		0
16QAM	1	0	18.20	0-1	0
	1	25	18.07		0
	1	49	18.29		0
	25	0	17.91	0-2	0
	25	12	17.88		0
	25	25	18.06		0
	50	0	17.89		0
64QAM	1	0	18.25	0-2	0
	1	25	18.14		0
	1	49	18.43		0
	25	0	17.91	0-3	0
	25	12	17.87		0
	25	25	18.06		0
	50	0	17.88		0

Note: LTE Band 5 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.

Table 8-50
LTE Band 5 Conducted Powers Ant 3 - 5 MHz Bandwidth, Inter-band ULCA Active

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	17.94	18.15	18.11	0	0	
	1	12	18.05	18.13	18.04		0-1	0
	1	24	18.15	18.25	17.86			0
	12	0	18.09	18.08	18.24	0		
	12	6	18.11	18.09	18.17	0		
	12	13	18.17	18.11	18.02	0		
	25	0	18.15	18.11	18.18	0		
16QAM	1	0	18.16	18.27	18.19	0-1	0	
	1	12	18.31	18.30	18.15		0-2	0
	1	24	18.43	18.30	18.04			0
	12	0	18.20	18.07	18.28	0		
	12	6	18.20	18.09	18.22	0		
	12	13	18.27	18.13	18.05	0		
	25	0	18.16	18.13	18.21	0		
64QAM	1	0	18.14	18.23	18.37	0-2	0	
	1	12	18.17	18.18	18.33		0-3	0
	1	24	18.25	18.31	18.17			0
	12	0	18.20	18.07	18.27	0		
	12	6	18.24	18.09	18.22	0		
	12	13	18.28	18.12	18.03	0		
	25	0	18.19	18.12	18.17	0		

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Table 8-51
LTE Band 5 Conducted Powers Ant 3 - 3 MHz Bandwidth, Inter-band ULCA Active

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	17.94	17.96	18.12	0	0
	1	7	18.09	18.02	18.00		0
	1	14	18.08	18.02	17.87		0
	8	0	18.09	18.05	18.17	0-1	0
	8	4	18.15	18.07	18.09		0
	8	7	18.17	18.12	17.98		0
	15	0	18.19	18.11	18.11		0
16QAM	1	0	18.09	18.14	18.25	0-1	0
	1	7	18.28	18.27	18.27		0
	1	14	18.35	18.15	18.08		0
	8	0	18.20	18.15	18.26	0-2	0
	8	4	18.23	18.11	18.16		0
	8	7	18.28	18.24	18.00		0
	15	0	18.19	18.18	18.13		0
64QAM	1	0	18.19	18.12	18.50	0-2	0
	1	7	18.33	18.30	18.42		0
	1	14	18.29	18.31	18.23		0
	8	0	18.15	18.13	18.25	0-3	0
	8	4	18.24	18.13	18.13		0
	8	7	18.28	18.21	18.05		0
	15	0	18.23	18.15	18.15		0

Table 8-52
LTE Band 5 Conducted Powers Ant 3 - 1.4 MHz Bandwidth, Inter-band ULCA Active

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	17.99	18.06	18.11	0	0
	1	2	17.99	18.04	18.00		0
	1	5	18.07	18.04	18.06		0
	3	0	18.06	18.11	17.91		0
	3	2	18.07	18.11	17.89		0
	3	3	18.06	18.11	17.96		0
	6	0	18.08	18.10	17.90	0-1	0
16QAM	1	0	18.25	18.40	18.36	0-1	0
	1	2	18.23	18.32	18.07		0
	1	5	18.28	18.30	18.07		0
	3	0	18.20	18.09	18.08		0
	3	2	18.27	18.18	17.95		0
	3	3	18.26	18.22	18.10		0
	6	0	18.18	18.15	17.91	0-2	0
64QAM	1	0	18.28	18.23	18.18	0-2	0
	1	2	18.18	18.21	18.06		0
	1	5	18.36	18.30	17.99		0
	3	0	18.19	18.16	18.04		0
	3	2	18.22	18.13	17.99		0
	3	3	18.24	18.13	18.06		0
	6	0	18.22	18.09	17.98	0-3	0

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LTE Band 26

Table 8-53
LTE Band 26 Conducted Powers Ant 1 - 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	26865	26990		
			(819.0 MHz)	(831.5 MHz)	(844.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	20.45	20.24	20.41	0	0
	1	25	20.42	20.31	20.41		0
	1	49	20.36	20.49	20.63		0
	25	0	20.39	20.37	20.45	0-1	0
	25	12	20.45	20.36	20.43		0
	25	25	20.56	20.40	20.59		0
	50	0	20.40	20.37	20.45		0
	50	0	20.40	20.37	20.45		0
16QAM	1	0	20.59	20.46	20.47	0-1	0
	1	25	20.52	20.54	20.47		0
	1	49	20.54	20.66	20.64		0
	25	0	20.24	20.18	20.24	0-2	0
	25	12	20.25	20.20	20.24		0
	25	25	20.22	20.20	20.36		0
	50	0	20.25	20.18	20.23		0
	50	0	20.25	20.18	20.23		0
64QAM	1	0	20.43	20.31	20.56	0-2	0
	1	25	20.58	20.40	20.57		0
	1	49	20.55	20.67	20.70		0
	25	0	20.21	20.20	20.30	0-3	0
	25	12	20.24	20.18	20.25		0
	25	25	20.25	20.24	20.43		0
	50	0	20.26	20.22	20.24		0
	50	0	20.26	20.22	20.24		0

Table 8-54
LTE Band 26 Conducted Powers Ant 1 - 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	20.19	19.96	20.33	0	0
	1	12	20.09	20.07	20.39		0
	1	24	20.28	20.16	20.56		0
	12	0	20.07	20.01	20.30	0-1	0
	12	6	20.17	20.05	20.34		0
	12	13	20.23	20.15	20.41		0
	25	0	20.22	20.13	20.36		0
16QAM	1	0	20.60	20.38	20.27	0-1	0
	1	12	20.52	20.47	20.56		0
	1	24	20.59	20.70	20.67		0
	12	0	20.04	19.96	20.26	0-2	0
	12	6	20.14	20.00	20.26		0
	12	13	20.17	20.13	20.37		0
	25	0	20.11	20.08	20.33		0
64QAM	1	0	20.66	20.35	20.59	0-2	0
	1	12	20.50	20.36	20.70		0
	1	24	20.70	20.57	20.69		0
	12	0	20.09	19.92	20.22	0-3	0
	12	6	20.13	20.01	20.22		0
	12	13	20.25	20.11	20.31		0
	25	0	20.18	20.09	20.29		0

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Table 8-55
LTE Band 26 Conducted Powers Ant 1 - 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	20.17	19.93	20.30	0	0
	1	7	20.05	20.10	20.38		0
	1	14	20.07	20.07	20.42		0
	8	0	20.10	20.07	20.26	0-1	0
	8	4	19.98	20.11	20.33		0
	8	7	20.04	20.12	20.42		0
	15	0	20.04	20.14	20.32		0
16QAM	1	0	20.58	20.36	20.68	0-1	0
	1	7	20.49	20.47	20.70		0
	1	14	20.46	20.41	20.67		0
	8	0	20.18	20.16	20.31	0-2	0
	8	4	20.04	20.17	20.41		0
	8	7	20.05	20.20	20.49		0
	15	0	20.06	20.20	20.37		0
64QAM	1	0	20.49	20.27	20.66	0-2	0
	1	7	20.40	20.46	20.58		0
	1	14	20.35	20.40	20.70		0
	8	0	20.16	20.13	20.29	0-3	0
	8	4	20.00	20.14	20.36		0
	8	7	20.10	20.12	20.47		0
	15	0	20.01	20.18	20.35		0

Table 8-56
LTE Band 26 Conducted Powers Ant 1 – 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	20.25	20.04	20.39	0	0
	1	2	20.16	20.01	20.46		0
	1	5	20.10	20.09	20.44		0
	3	0	20.16	20.06	20.37		0
	3	2	20.14	20.12	20.39		0
	3	3	20.15	20.12	20.39		0
16QAM	6	0	20.14	20.12	20.45	0-1	0
	1	0	20.66	20.48	20.68	0-1	0
	1	2	20.46	20.37	20.70		0
	1	5	20.49	20.47	20.69		0
	3	0	20.18	20.23	20.45		0
	3	2	20.18	20.24	20.63		0
3	3	20.34	20.30	20.55	0		
64QAM	6	0	20.17	20.18	20.50	0-2	0
	1	0	20.69	20.41	20.70	0-2	0
	1	2	20.39	20.32	20.69		0
	1	5	20.35	20.53	20.66		0
	3	0	20.25	20.25	20.57		0
	3	2	20.13	20.28	20.61		0
3	3	20.31	20.17	20.56	0		
64QAM	6	0	20.18	20.20	20.54	0-3	0

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Table 8-57
LTE Band 26 Conducted Powers Ant 3 - 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	20.85	20.79	20.79	0	0
	1	25	20.75	20.74	20.82		0
	1	49	20.84	20.62	20.70		0
	25	0	20.79	20.81	20.85	0-1	0
	25	12	20.78	20.78	20.84		0
	25	25	20.84	20.74	20.87		0
	50	0	20.80	20.81	20.80		0
	50	0	20.80	20.81	20.80		0
16QAM	1	0	20.81	20.87	20.86	0-1	0
	1	25	20.64	20.79	20.80		0
	1	49	20.81	20.64	20.76		0
	25	0	20.50	20.54	20.56	0-2	0
	25	12	20.51	20.53	20.58		0
	25	25	20.55	20.50	20.59		0
	50	0	20.50	20.50	20.59		0
	50	0	20.50	20.50	20.59		0
64QAM	1	0	20.85	20.87	20.85	0-2	0
	1	25	20.74	20.68	20.80		0
	1	49	20.86	20.53	20.60		0
	25	0	20.51	20.52	20.56	0-3	0
	25	12	20.50	20.53	20.59		0
	25	25	20.57	20.50	20.59		0
	50	0	20.56	20.51	20.58		0
	50	0	20.56	20.51	20.58		0

Table 8-58
LTE Band 26 Conducted Powers Ant 3 - 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	20.90	20.73	20.84	0	0
	1	12	20.64	20.68	20.74		0
	1	24	20.58	20.57	20.57		0
	12	0	20.84	20.86	20.90	0-1	0
	12	6	20.69	20.81	20.82		0
	12	13	20.64	20.75	20.65		0
	25	0	20.70	20.82	20.84		0
	25	0	20.98	20.97	20.99		0
16QAM	1	0	20.76	20.85	20.68	0-1	0
	1	12	20.67	20.74	20.65		0
	1	24	20.67	20.67	20.72		0
	12	0	20.67	20.67	20.72	0-2	0
	12	6	20.55	20.60	20.62		0
	12	13	20.50	20.51	20.51		0
	25	0	20.52	20.58	20.61		0
	25	0	20.99	20.80	20.98		0
64QAM	1	0	20.86	20.73	20.95	0-2	0
	1	12	20.80	20.75	20.71		0
	1	24	20.80	20.75	20.71		0
	12	0	20.65	20.60	20.69	0-3	0
	12	6	20.55	20.53	20.58		0
	12	13	20.52	20.53	20.52		0
	25	0	20.51	20.60	20.58		0
	25	0	20.51	20.60	20.58		0

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Table 8-59
LTE Band 26 Conducted Powers Ant 3 - 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	20.95	20.68	20.77	0	0
	1	7	20.88	20.70	20.65		0
	1	14	20.69	20.57	20.52		0
	8	0	20.92	20.85	20.74	0-1	0
	8	4	20.82	20.79	20.67		0
	8	7	20.75	20.78	20.56		0
16QAM	15	0	20.86	20.80	20.72	0-1	0
	1	0	20.91	20.87	20.83		0
	1	7	20.84	20.91	20.61		0
	1	14	20.62	20.72	20.62	0-2	0
	8	0	20.79	20.77	20.55		0
	8	4	20.75	20.69	20.53		0
	8	7	20.51	20.62	20.50	0-2	0
	15	0	20.68	20.66	20.50		0
	64QAM	1	0	20.97	20.78		20.77
1		7	20.94	20.69	20.67	0	
1		14	20.73	20.58	20.52	0	
8		0	20.75	20.72	20.59	0-3	0
8		4	20.68	20.61	20.56		0
8		7	20.56	20.56	20.50		0
15		0	20.68	20.66	20.51		0

Table 8-60
LTE Band 26 Conducted Powers Ant 3 – 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	20.82	20.66	20.69	0	0
	1	2	20.78	20.63	20.56		0
	1	5	20.72	20.66	20.62		0
	3	0	20.72	20.61	20.66		0
	3	2	20.70	20.59	20.62		0
	3	3	20.71	20.59	20.69		0
	6	0	20.74	20.58	20.65	0-1	0
16QAM	1	0	20.88	20.82	20.95	0-1	0
	1	2	20.85	20.78	20.60		0
	1	5	20.76	20.84	20.96		0
	3	0	20.67	20.52	20.50		0
	3	2	20.68	20.61	20.50		0
	3	3	20.67	20.51	20.58		0
	6	0	20.55	20.64	20.50	0-2	0
64QAM	1	0	20.93	20.81	20.74	0-2	0
	1	2	20.92	20.78	20.64		0
	1	5	20.90	20.77	20.73		0
	3	0	20.56	20.64	20.50		0
	3	2	20.57	20.54	20.51		0
	3	3	20.65	20.64	20.61		0
	6	0	20.64	20.62	20.50	0-3	0

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LTE Band 4

Table 8-61
LTE Band 4 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	14.67	0	0
	1	50	14.69		0
	1	99	14.70		0
	50	0	14.72	0-1	0
	50	25	14.65		0
	50	50	14.77		0
	100	0	14.65		0
16QAM	1	0	14.71	0-1	0
	1	50	14.80		0
	1	99	14.90		0
	50	0	14.52	0-2	0
	50	25	14.39		0
	50	50	14.60		0
	100	0	14.43		0
64QAM	1	0	14.66	0-2	0
	1	50	14.62		0
	1	99	14.67		0
	50	0	14.16	0-3	0
	50	25	14.28		0
	50	50	14.39		0
	100	0	14.31		0

Note: LTE Band 4 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.

Table 8-62
LTE Band 4 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.88	14.37	14.70	0	0
	1	36	14.74	14.39	14.70		0
	1	74	14.45	14.53	14.47		0
	36	0	14.86	14.30	14.66	0-1	0
	36	18	14.66	14.41	14.68		0
	36	37	14.53	14.51	14.61		0
	75	0	14.64	14.38	14.63		0
16QAM	1	0	14.77	14.43	14.84	0-1	0
	1	36	14.55	14.50	14.89		0
	1	74	14.35	14.69	14.62		0
	36	0	14.60	14.27	14.43	0-2	0
	36	18	14.41	14.22	14.46		0
	36	37	14.29	14.30	14.39		0
	75	0	14.38	14.37	14.41		0
64QAM	1	0	14.86	14.40	14.69	0-2	0
	1	36	14.73	14.34	14.63		0
	1	74	14.43	14.58	14.41		0
	36	0	14.60	14.26	14.34	0-3	0
	36	18	14.39	14.20	14.38		0
	36	37	14.28	14.34	14.35		0
	75	0	14.38	14.22	14.37		0

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Table 8-63
LTE Band 4 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.85	14.36	14.60	0	0
	1	25	14.76	14.38	14.60		0
	1	49	14.62	14.58	14.52		0
	25	0	14.88	14.40	14.59	0-1	0
	25	12	14.82	14.42	14.58		0
	25	25	14.65	14.51	14.50		0
16QAM	50	0	14.76	14.42	14.57	0-1	0
	1	0	14.87	14.40	14.83		0
	1	25	14.85	14.48	14.72		0
	1	49	14.66	14.74	14.57	0-2	0
	25	0	14.69	14.21	14.38		0
	25	12	14.56	14.21	14.38		0
64QAM	25	25	14.39	14.31	14.28	0-2	0
	50	0	14.53	14.19	14.37		0
	1	0	14.83	14.31	14.57		0-2
	1	25	14.73	14.29	14.60	0	
	1	49	14.61	14.65	14.33	0	
	25	0	14.61	14.12	14.35	0-3	0
25	12	14.55	14.18	14.34	0		
25	25	14.38	14.26	14.28	0		
	50	0	14.49	14.20	14.39		0

Table 8-64
LTE Band 4 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.74	14.28	14.63	0	0
	1	12	14.75	14.29	14.53		0
	1	24	14.67	14.41	14.47		0
	12	0	14.86	14.29	14.63	0-1	0
	12	6	14.86	14.35	14.57		0
	12	13	14.83	14.39	14.55		0
16QAM	25	0	14.90	14.37	14.58	0-1	0
	1	0	14.88	14.63	14.57		0
	1	12	14.87	14.63	14.31		0
	1	24	14.85	14.69	14.34	0-2	0
	12	0	14.60	14.21	14.32		0
	12	6	14.60	14.18	14.25		0
64QAM	12	13	14.56	14.28	14.16	0-2	0
	25	0	14.62	14.24	14.22		0
	1	0	14.85	14.53	14.71		0-2
	1	12	14.86	14.55	14.53	0	
	1	24	14.84	14.62	14.52	0-3	
	12	0	14.61	14.12	14.34		0
12	6	14.56	14.16	14.21	0		
64QAM	12	13	14.56	14.14	14.30	0-3	0
	25	0	14.60	14.24	14.32		0

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Table 8-65
LTE Band 4 Conducted Powers Ant 2a - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.72	14.33	14.40	0	0
	1	7	14.74	14.41	14.43		0
	1	14	14.75	14.38	14.31		0
	8	0	14.76	14.39	14.51	0-1	0
	8	4	14.75	14.35	14.46		0
	8	7	14.76	14.42	14.47		0
	15	0	14.77	14.38	14.50		0
16QAM	1	0	14.87	14.45	14.47	0-1	0
	1	7	14.89	14.61	14.52		0
	1	14	14.84	14.54	14.35		0
	8	0	14.56	14.18	14.17	0-2	0
	8	4	14.56	14.19	14.23		0
	8	7	14.52	14.28	14.29		0
	15	0	14.67	14.21	14.22		0
64QAM	1	0	14.71	14.58	14.29	0-2	0
	1	7	14.65	14.37	14.48		0
	1	14	14.85	14.48	14.36		0
	8	0	14.54	14.26	14.34	0-3	0
	8	4	14.53	14.27	14.20		0
	8	7	14.61	14.23	14.31		0
	15	0	14.61	14.22	14.26		0

Table 8-66
LTE Band 4 Conducted Powers Ant 2a - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.76	14.44	14.46	0	0
	1	2	14.74	14.43	14.44		0
	1	5	14.75	14.43	14.43		0
	3	0	14.62	14.39	14.43		0
	3	2	14.62	14.36	14.44		0
	3	3	14.62	14.37	14.40		0
	6	0	14.69	14.40	14.42	0-1	0
16QAM	1	0	14.87	14.65	14.60	0-1	0
	1	2	14.90	14.58	14.68		0
	1	5	14.86	14.53	14.60		0
	3	0	14.70	14.20	14.36		0
	3	2	14.67	14.21	14.34		0
	3	3	14.64	14.16	14.24		0
	6	0	14.58	14.16	14.25	0-2	0
64QAM	1	0	14.90	14.53	14.76	0-2	0
	1	2	14.87	14.50	14.85		0
	1	5	14.86	14.62	14.70		0
	3	0	14.71	14.27	14.30		0
	3	2	14.58	14.24	14.40		0
	3	3	14.60	14.30	14.27		0
	6	0	14.60	14.22	14.23	0-3	0

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Table 8-67
LTE Band 4 Conducted Powers Ant 2a - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	11.66	0	0
	1	50	11.67		0
	1	99	11.84		0
	50	0	11.80	0-1	0
	50	25	11.75		0
	50	50	11.89		0
	100	0	11.74		0
16QAM	1	0	11.68	0-1	0
	1	50	11.71		0
	1	99	11.84		0
	50	0	11.56	0-2	0
	50	25	11.47		0
	50	50	11.57		0
	100	0	11.53		0
64QAM	1	0	11.58	0-2	0
	1	50	11.63		0
	1	99	11.80		0
	50	0	11.56	0-3	0
	50	25	11.49		0
	50	50	11.67		0
	100	0	11.46		0

Note: LTE Band 4 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.

Table 8-68
LTE Band 4 Conducted Powers Ant 2a - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.69	11.41	11.52	0	0
	1	36	11.55	11.45	11.52		0
	1	74	11.39	11.67	11.35		0
	36	0	11.66	11.43	11.61	0-1	0
	36	18	11.47	11.53	11.61		0
	36	37	11.36	11.64	11.58		0
	75	0	11.47	11.51	11.62		0
16QAM	1	0	11.77	11.54	11.57	0-1	0
	1	36	11.73	11.57	11.76		0
	1	74	11.49	11.79	11.28		0
	36	0	11.68	11.44	11.59	0-2	0
	36	18	11.52	11.51	11.63		0
	36	37	11.39	11.64	11.61		0
	75	0	11.48	11.49	11.61		0
64QAM	1	0	11.73	11.63	11.47	0-2	0
	1	36	11.55	11.61	11.83		0
	1	74	11.33	11.89	11.32		0
	36	0	11.66	11.46	11.41	0-3	0
	36	18	11.49	11.55	11.45		0
	36	37	11.38	11.65	11.39		0
	75	0	11.48	11.49	11.40		0

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Table 8-69
LTE Band 4 Conducted Powers Ant 2a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.73	11.30	11.50	0	0
	1	25	11.63	11.32	11.48		0
	1	49	11.50	11.51	11.38		0
	25	0	11.88	11.42	11.59	0-1	0
	25	12	11.79	11.40	11.55		0
	25	25	11.66	11.51	11.46		0
16QAM	50	0	11.71	11.42	11.58	0-1	0
	1	0	11.87	11.42	11.60		0
	1	25	11.76	11.52	11.51		0
	1	49	11.65	11.66	11.48	0-2	0
	25	0	11.90	11.41	11.62		0
	25	12	11.84	11.40	11.58		0
64QAM	25	25	11.67	11.51	11.49	0-2	0
	50	0	11.72	11.43	11.60		0
	1	0	11.72	11.62	11.54		0-2
	1	25	11.53	11.60	11.79	0	
	1	49	11.41	11.75	11.63	0	
	25	0	11.70	11.42	11.62	0-3	0
25	12	11.64	11.41	11.59	0		
25	25	11.48	11.52	11.51	0		
	50	0	11.55	11.43	11.60		0

Table 8-70
LTE Band 4 Conducted Powers Ant 2a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.69	11.63	11.66	0	0
	1	12	11.71	11.56	11.42		0
	1	24	11.70	11.80	11.45		0
	12	0	11.79	11.63	11.74	0-1	0
	12	6	11.79	11.65	11.61		0
	12	13	11.80	11.69	11.59		0
16QAM	25	0	11.83	11.65	11.65	0-1	0
	1	0	11.70	11.64	11.55		0
	1	12	11.68	11.60	11.37		0
	1	24	11.70	11.71	11.43	0-2	0
	12	0	11.63	11.32	11.59		0
	12	6	11.64	11.36	11.44		0
64QAM	12	13	11.65	11.39	11.42	0-2	0
	25	0	11.59	11.44	11.50		0
	1	0	11.58	11.60	11.63		0-2
	1	12	11.62	11.55	11.54	0	
	1	24	11.56	11.64	11.50	0	
	12	0	11.64	11.41	11.36	0-3	0
12	6	11.67	11.39	11.30	0		
12	13	11.66	11.44	11.31	0		
	25	0	11.64	11.42	11.31		0

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Table 8-71
LTE Band 4 Conducted Powers Ant 2a - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.61	11.49	11.50	0	0
	1	7	11.68	11.56	11.56		0
	1	14	11.66	11.56	11.50		0
	8	0	11.76	11.66	11.65	0-1	0
	8	4	11.75	11.62	11.63		0
	8	7	11.78	11.65	11.62		0
	15	0	11.80	11.65	11.62		0
16QAM	1	0	11.85	11.43	11.29	0-1	0
	1	7	11.83	11.41	11.51		0
	1	14	11.89	11.61	11.52		0
	8	0	11.76	11.51	11.48	0-2	0
	8	4	11.81	11.45	11.50		0
	8	7	11.83	11.51	11.47		0
	15	0	11.82	11.47	11.48		0
64QAM	1	0	11.82	11.40	11.69	0-2	0
	1	7	11.80	11.54	11.67		0
	1	14	11.78	11.44	11.66		0
	8	0	11.87	11.48	11.52	0-3	0
	8	4	11.81	11.51	11.50		0
	8	7	11.80	11.50	11.47		0
	15	0	11.80	11.41	11.47		0

Table 8-72
LTE Band 4 Conducted Powers Ant 2a - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.60	11.41	11.48	0	0
	1	2	11.57	11.40	11.45		0
	1	5	11.62	11.40	11.52		0
	3	0	11.69	11.51	11.39		0
	3	2	11.67	11.50	11.39		0
	3	3	11.68	11.51	11.38		0
	6	0	11.68	11.49	11.42	0-1	0
16QAM	1	0	11.75	11.66	11.58	0-1	0
	1	2	11.71	11.63	11.58		0
	1	5	11.81	11.48	11.63		0
	3	0	11.80	11.60	11.52		0
	3	2	11.76	11.52	11.58		0
	3	3	11.79	11.55	11.52		0
	6	0	11.71	11.53	11.45	0-2	0
64QAM	1	0	11.69	11.76	11.62	0-2	0
	1	2	11.77	11.71	11.53		0
	1	5	11.86	11.71	11.52		0
	3	0	11.74	11.55	11.49		0
	3	2	11.67	11.48	11.48		0
	3	3	11.69	11.50	11.42		0
	6	0	11.70	11.45	11.44	0-3	0

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Table 8-73
LTE Band 4 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	15.02	0	0
	1	50	14.83		0
	1	99	15.03		0
	50	0	15.01	0-1	0
	50	25	14.98		0
	50	50	15.02		0
16QAM	100	0	15.00	0-1	0
	1	0	14.92		0
	1	50	14.73		0
	1	99	14.92	0-2	0
	50	0	14.55		0
	50	25	14.55		0
64QAM	50	50	14.58	0-2	0
	100	0	14.54		0
	1	0	14.90	0-3	0
	1	50	14.82		0
	1	99	14.91		0
	50	0	14.58	0-3	0
	50	25	14.54		0
	50	50	14.59		0
	100	0	14.52		0

Note: LTE Band 4 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.

Table 8-74
LTE Band 4 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.71	14.82	14.66	0	0
	1	36	14.65	14.71	14.60		0
	1	74	14.61	14.83	14.35		0
	36	0	14.75	14.66	14.71	0-1	0
	36	18	14.70	14.61	14.69		0
	36	37	14.71	14.75	14.56		0
16QAM	75	0	14.71	14.63	14.69	0-1	0
	1	0	14.87	14.91	14.87		0
	1	36	14.83	14.85	14.70		0
	1	74	14.71	14.96	14.49	0-2	0
	36	0	14.80	14.75	14.71		0
	36	18	14.79	14.69	14.75		0
64QAM	36	37	14.68	14.77	14.61	0-2	0
	75	0	14.78	14.66	14.72		0
	1	0	14.98	14.60	14.88		0-2
	1	36	14.90	14.62	14.79	0	
	1	74	14.61	14.59	14.52	0-3	
	36	0	14.74	14.38	14.66		0
36	18	14.67	14.39	14.62	0		
64QAM	36	37	14.53	14.41	14.54	0-3	0
	75	0	14.59	14.35	14.59		0

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Table 8-75
LTE Band 4 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.72	14.67	14.61	0	0
	1	25	14.71	14.59	14.53		0
	1	49	14.64	14.76	14.38		0
	25	0	14.78	14.71	14.69	0-1	0
	25	12	14.77	14.69	14.63		0
	25	25	14.69	14.77	14.44		0
16QAM	50	0	14.78	14.69	14.64	0-1	0
	1	0	14.83	14.63	14.84		0
	1	25	14.87	14.83	14.56		0
	1	49	14.76	14.88	14.50	0-2	0
	25	0	14.80	14.68	14.75		0
	25	12	14.80	14.64	14.66		0
64QAM	25	25	14.76	14.68	14.50	0-2	0
	50	0	14.81	14.66	14.67		0
	1	0	15.10	14.53	15.10		0-2
	1	25	15.02	14.54	14.83	0	
	1	49	14.95	14.72	14.60	0	
	64QAM	25	0	14.81	14.39	14.62	0-3
25		12	14.68	14.36	14.57	0	
25		25	14.63	14.36	14.45	0	
50		0	14.69	14.36	14.57	0	

Table 8-76
LTE Band 4 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.65	14.66	14.42	0	0
	1	12	14.65	14.62	14.39		0
	1	24	14.69	14.74	14.26		0
	12	0	14.64	14.66	14.49	0-1	0
	12	6	14.63	14.64	14.36		0
	12	13	14.62	14.74	14.35		0
	25	0	14.67	14.66	14.38		0
16QAM	1	0	14.81	14.92	14.63	0-1	0
	1	12	14.90	14.96	14.45		0
	1	24	14.98	15.01	14.52		0
	12	0	14.80	14.83	14.62	0-2	0
	12	6	14.72	14.78	14.46		0
	12	13	14.79	14.85	14.50		0
	25	0	14.76	14.75	14.51		0
64QAM	1	0	15.10	14.77	14.80	0-2	0
	1	12	14.98	14.77	14.68		0
	1	24	14.97	14.92	14.65		0
	12	0	14.80	14.40	14.51	0-3	0
	12	6	14.70	14.41	14.52		0
	12	13	14.75	14.41	14.51		0
	25	0	14.73	14.38	14.45		0

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Table 8-77
LTE Band 4 Conducted Powers Ant 2b - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.54	14.49	14.45	0	0
	1	7	14.63	14.53	14.46		0
	1	14	14.61	14.57	14.43		0
	8	0	14.65	14.57	14.35	0-1	0
	8	4	14.67	14.57	14.34		0
	8	7	14.68	14.68	14.36		0
	15	0	14.71	14.59	14.36		0
16QAM	1	0	14.60	14.79	14.50	0-1	0
	1	7	14.69	14.74	14.39		0
	1	14	14.69	14.79	14.39		0
	8	0	14.68	14.70	14.51	0-2	0
	8	4	14.65	14.68	14.43		0
	8	7	14.65	14.79	14.44		0
	15	0	14.67	14.72	14.46		0
64QAM	1	0	14.92	14.70	14.72	0-2	0
	1	7	14.95	14.80	14.74		0
	1	14	14.89	14.72	14.64		0
	8	0	14.73	14.50	14.50	0-3	0
	8	4	14.70	14.40	14.45		0
	8	7	14.73	14.52	14.42		0
	15	0	14.75	14.46	14.53		0

Table 8-78
LTE Band 4 Conducted Powers Ant 2b - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.62	14.56	14.46	0	0
	1	2	14.61	14.53	14.46		0
	1	5	14.62	14.55	14.52		0
	3	0	14.67	14.58	14.37		0
	3	2	14.68	14.60	14.40		0
	3	3	14.68	14.58	14.43		0
	6	0	14.67	14.59	14.39	0-1	0
16QAM	1	0	14.72	14.77	14.51	0-1	0
	1	2	14.88	14.67	14.44		0
	1	5	14.71	14.91	14.63		0
	3	0	14.73	14.81	14.45		0
	3	2	14.69	14.76	14.46		0
	3	3	14.69	14.72	14.41		0
	6	0	14.70	14.67	14.43	0-2	0
64QAM	1	0	15.10	14.72	14.76	0-2	0
	1	2	15.08	14.77	14.80		0
	1	5	15.09	14.80	14.65		0
	3	0	14.90	14.47	14.59		0
	3	2	14.85	14.43	14.46		0
	3	3	14.82	14.45	14.52		0
	6	0	14.83	14.46	14.47	0-3	0

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Table 8-79
LTE Band 4 Conducted Powers Ant 2b - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	11.85	0	0
	1	50	11.79		0
	1	99	11.97		0
	50	0	11.83	0-1	0
	50	25	11.83		0
	50	50	11.84		0
16QAM	100	0	11.83	0-1	0
	1	0	11.86		0
	1	50	11.77		0
	1	99	11.92	0-2	0
	50	0	11.64		0
	50	25	11.61		0
64QAM	50	50	11.77	0-2	0
	100	0	11.60		0
	1	0	11.84	0-3	0
	1	50	11.81		0
	1	99	11.91		0
	50	0	11.65	0-3	0
	50	25	11.59		0
	50	50	11.71		0
	100	0	11.59		0

Note: LTE Band 4 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.

Table 8-80
LTE Band 4 Conducted Powers Ant 2b - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.80	11.63	11.65	0	0
	1	36	11.78	11.61	11.66		0
	1	74	11.72	11.70	11.55		0
	36	0	11.70	11.71	11.71	0-1	0
	36	18	11.71	11.69	11.73		0
	36	37	11.68	11.76	11.55		0
16QAM	75	0	11.70	11.67	11.71	0-1	0
	1	0	11.79	11.79	11.64		0
	1	36	11.93	11.86	11.69		0
	1	74	11.67	11.81	11.51	0-2	0
	36	0	11.70	11.74	11.75		0
	36	18	11.74	11.70	11.77		0
64QAM	36	37	11.67	11.78	11.58	0-2	0
	75	0	11.71	11.66	11.74		0
	1	0	11.89	11.78	12.10		0-3
	1	36	11.73	11.90	11.84	0	
	1	74	11.75	11.82	11.86	0	
	36	0	11.72	11.75	11.75	0-3	0
36	18	11.75	11.70	11.79	0		
36	37	11.71	11.78	11.57	0		
	75	0	11.72	11.68	11.70		0

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Table 8-81
LTE Band 4 Conducted Powers Ant 2b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.65	11.68	11.68	0	0
	1	25	11.64	11.58	11.53		0
	1	49	11.59	11.71	11.49		0
	25	0	11.81	11.75	11.75	0-1	0
	25	12	11.75	11.69	11.65		0
	25	25	11.73	11.69	11.48		0
16QAM	50	0	11.75	11.69	11.65	0	
	1	0	11.64	11.95	11.69	0-1	0
	1	25	11.80	11.71	11.55		0
	1	49	11.63	11.77	11.39		0
	25	0	11.81	11.74	11.74	0-2	0
	25	12	11.76	11.68	11.66		0
25	25	11.74	11.70	11.49	0		
64QAM	50	0	11.78	11.69	11.66	0	
	1	0	11.94	12.03	12.10	0-2	0
	1	25	11.86	11.86	11.98		0
	1	49	11.77	11.88	11.85		0
	25	0	11.81	11.72	11.78	0-3	0
	25	12	11.76	11.67	11.65		0
25	25	11.79	11.65	11.53	0		
	50	0	11.77	11.71	11.69		0

Table 8-82
LTE Band 4 Conducted Powers Ant 2b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.54	11.80	11.41	0	0
	1	12	11.59	11.68	11.38		0
	1	24	11.61	11.82	11.35		0
	12	0	11.66	11.77	11.46	0-1	0
	12	6	11.68	11.72	11.37		0
	12	13	11.62	11.73	11.34		0
16QAM	25	0	11.70	11.74	11.38	0-1	0
	1	0	11.76	11.95	11.51		0
	1	12	11.85	11.82	11.35		0
	1	24	11.85	11.89	11.46	0-2	0
	12	0	11.69	11.72	11.44		0
	12	6	11.69	11.72	11.39		0
64QAM	12	13	11.64	11.76	11.35	0-2	0
	25	0	11.72	11.77	11.42		0
	1	0	11.72	12.00	11.79		0-2
	1	12	11.77	11.87	11.57	0	
	1	24	11.81	11.92	11.72	0	
	12	0	11.68	11.78	11.45	0-3	0
12	6	11.66	11.76	11.39	0		
12	13	11.61	11.69	11.34	0		
	25	0	11.70	11.67	11.42		0

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Table 8-83
LTE Band 4 Conducted Powers Ant 2b - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.56	11.57	11.33	0	0
	1	7	11.66	11.61	11.35		0
	1	14	11.63	11.60	11.33		0
	8	0	11.72	11.69	11.45	0-1	0
	8	4	11.74	11.65	11.45		0
	8	7	11.79	11.69	11.44		0
	15	0	11.77	11.68	11.47		0
16QAM	1	0	11.63	11.67	11.51	0-1	0
	1	7	11.78	11.61	11.35		0
	1	14	11.78	11.53	11.32		0
	8	0	11.73	11.63	11.49	0-2	0
	8	4	11.66	11.63	11.49		0
	8	7	11.68	11.66	11.44		0
	15	0	11.74	11.58	11.49		0
64QAM	1	0	11.65	11.75	11.61	0-2	0
	1	7	11.73	11.78	11.59		0
	1	14	11.66	11.69	11.51		0
	8	0	11.71	11.57	11.48	0-3	0
	8	4	11.65	11.56	11.48		0
	8	7	11.69	11.64	11.41		0
	15	0	11.66	11.61	11.45		0

Table 8-84
LTE Band 4 Conducted Powers Ant 2b - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.58	11.63	11.51	0	0
	1	2	11.56	11.58	11.47		0
	1	5	11.60	11.59	11.56		0
	3	0	11.68	11.67	11.42		0
	3	2	11.66	11.67	11.44		0
	3	3	11.66	11.65	11.44		0
	6	0	11.66	11.65	11.44	0-1	0
16QAM	1	0	11.63	11.68	11.42	0-1	0
	1	2	11.60	11.61	11.41		0
	1	5	11.73	11.61	11.43		0
	3	0	11.69	11.57	11.42		0
	3	2	11.67	11.69	11.41		0
	3	3	11.64	11.54	11.53		0
	6	0	11.60	11.64	11.41	0-2	0
64QAM	1	0	11.66	11.74	11.46	0-2	0
	1	2	11.65	11.72	11.42		0
	1	5	11.57	11.64	11.49		0
	3	0	11.60	11.52	11.42		0
	3	2	11.60	11.55	11.49		0
	3	3	11.66	11.61	11.42		0
	6	0	11.67	11.54	11.38	0-3	0

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Table 8-85
LTE Band 4 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	14.52	0	0
	1	50	14.62		0
	1	99	14.56		0
	50	0	14.61	0-1	0
	50	25	14.64		0
	50	50	14.57		0
16QAM	100	0	14.37	0-1	0
	1	0	14.63		0
	1	50	14.72		0
	1	99	14.61	0-2	0
	50	0	14.43		0
	50	25	14.40		0
64QAM	50	50	14.38	0-2	0
	100	0	14.39		0
	1	0	14.64	0-2	0
	1	50	14.66		0
	1	99	14.58		0
	50	0	14.57	0-3	0
	50	25	14.59		0
	50	50	14.47		0
	100	0	14.56		0

Note: LTE Band 4 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.

Table 8-86
LTE Band 4 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.48	14.61	14.40	0	0
	1	36	14.49	14.67	14.43		0
	1	74	14.52	14.49	14.11		0
	36	0	14.42	14.58	14.41	0-1	0
	36	18	14.48	14.60	14.44		0
	36	37	14.47	14.50	14.29		0
16QAM	75	0	14.45	14.59	14.41	0-1	0
	1	0	14.69	14.46	14.52		0
	1	36	14.71	14.49	14.57		0
	1	74	14.63	14.35	14.31	0-2	0
	36	0	14.25	14.43	14.20		0
	36	18	14.30	14.45	14.27		0
64QAM	36	37	14.26	14.33	14.08	0-2	0
	75	0	14.26	14.40	14.22		0
	1	0	14.49	14.71	14.27	0-2	0
	1	36	14.62	14.66	14.48		0
	1	74	14.52	14.49	14.21	0-3	0
	36	0	14.25	14.42	14.21		0
36	18	14.29	14.43	14.23	0		
64QAM	36	37	14.26	14.34	14.06	0-3	0
	75	0	14.25	14.41	14.21		0

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Table 8-87
LTE Band 4 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.31	14.45	14.26	0	0
	1	25	14.18	14.40	14.14		0
	1	49	14.27	14.34	14.00		0
	25	0	14.26	14.46	14.20	0-1	0
	25	12	14.18	14.43	14.08		0
	25	25	14.22	14.42	13.97		0
50	0	14.19	14.44	14.07	0		
16QAM	1	0	14.68	14.70	14.68	0-1	0
	1	25	14.53	14.70	14.45		0
	1	49	14.59	14.63	14.39		0
	25	0	14.28	14.42	14.20	0-2	0
	25	12	14.23	14.45	14.11		0
	25	25	14.25	14.40	14.02		0
50	0	14.21	14.43	14.11	0		
64QAM	1	0	14.37	14.71	14.58	0-2	0
	1	25	14.58	14.63	14.14		0
	1	49	14.54	14.39	14.27		0
	25	0	14.27	14.44	14.25	0-3	0
	25	12	14.18	14.36	14.15		0
	25	25	14.24	14.40	14.03		0
50	0	14.26	14.43	14.08	0		

Table 8-88
LTE Band 4 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.28	14.40	14.14	0	0
	1	12	14.15	14.36	14.02		0
	1	24	14.10	14.35	14.09		0
	12	0	14.16	14.40	14.07	0-1	0
	12	6	14.15	14.39	14.00		0
	12	13	14.09	14.38	14.02		0
16QAM	25	0	14.20	14.41	14.01	0-1	0
	1	0	14.72	14.70	14.32		0
	1	12	14.54	14.57	14.28		0
	1	24	14.43	14.54	14.35	0-2	0
	12	0	14.19	14.41	14.14		0
	12	6	14.25	14.40	14.09		0
64QAM	12	13	14.12	14.38	14.11	0-2	0
	25	0	14.20	14.43	14.05		0
	1	0	14.72	14.71	14.58		0-2
	1	12	14.51	14.65	14.37	0	
	1	24	14.60	14.72	14.57	0	
	12	0	14.23	14.40	14.10	0-3	0
12	6	14.25	14.43	14.08	0		
12	13	14.12	14.39	14.05	0		
	25	0	14.20	14.42	14.01		0

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Table 8-89
LTE Band 4 Conducted Powers Ant 4a - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.32	14.15	14.01	0	0
	1	7	14.28	14.19	14.05		0
	1	14	14.20	14.12	14.00		0
	8	0	14.27	14.31	14.06	0-1	0
	8	4	14.23	14.30	14.06		0
	8	7	14.23	14.32	14.02		0
	15	0	14.23	14.34	14.05		0
16QAM	1	0	14.69	14.68	14.32	0-1	0
	1	7	14.43	14.70	14.35		0
	1	14	14.37	14.23	14.39		0
	8	0	14.25	14.32	14.09	0-2	0
	8	4	14.23	14.38	14.08		0
	8	7	14.26	14.35	14.09		0
	15	0	14.26	14.35	14.12		0
64QAM	1	0	14.40	14.57	14.26	0-2	0
	1	7	14.51	14.45	14.50		0
	1	14	14.53	14.32	14.33		0
	8	0	14.27	14.33	14.14	0-3	0
	8	4	14.27	14.28	14.09		0
	8	7	14.24	14.35	14.12		0
	15	0	14.24	14.36	14.13		0

Table 8-90
LTE Band 4 Conducted Powers Ant 4a - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.34	14.16	14.16	0	0
	1	2	14.25	14.09	14.14		0
	1	5	14.28	14.15	14.19		0
	3	0	14.33	14.28	14.01		0
	3	2	14.22	14.25	14.00		0
	3	3	14.19	14.25	14.05		0
	6	0	14.19	14.26	14.05	0-1	0
16QAM	1	0	14.49	14.72	14.33	0-1	0
	1	2	14.69	14.29	14.40		0
	1	5	14.38	14.65	14.39		0
	3	0	14.28	14.37	14.20		0
	3	2	14.26	14.14	14.07		0
	3	3	14.27	14.27	14.19		0
	6	0	14.26	14.38	14.10	0-2	0
64QAM	1	0	14.47	14.45	14.70	0-2	0
	1	2	14.53	14.49	14.39		0
	1	5	14.48	14.34	14.63		0
	3	0	14.30	14.30	14.18		0
	3	2	14.27	14.33	14.28		0
	3	3	14.37	14.29	14.33		0
	6	0	14.25	14.29	14.19	0-3	0

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Table 8-91
LTE Band 4 Conducted Powers Ant 4a - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	11.49	0	0
	1	50	11.45		0
	1	99	11.37		0
	50	0	11.34	0-1	0
	50	25	11.31		0
	50	50	11.30		0
16QAM	100	0	11.31	0-1	0
	1	0	11.30		0
	1	50	11.47		0
	1	99	11.44	0-2	0
	50	0	11.20		0
	50	25	11.13		0
64QAM	50	50	11.13	0-2	0
	100	0	11.12		0
	1	0	11.10	0-3	0
	1	50	11.13		0
	1	99	11.26		0
	50	0	11.07	0-3	0
	50	25	11.10		0
	50	50	11.12		0
	100	0	11.12		0

Note: LTE Band 4 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.

Table 8-92
LTE Band 4 Conducted Powers Ant 4a - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.05	11.26	11.23	0	0
	1	36	11.15	11.39	11.13		0
	1	74	11.49	11.28	11.10		0
	36	0	11.21	11.30	11.14	0-1	0
	36	18	11.31	11.33	11.17		0
	36	37	11.37	11.27	11.19		0
	75	0	11.30	11.34	11.16	0	
16QAM	1	0	11.19	11.35	11.26	0-1	0
	1	36	11.37	11.48	11.04		0
	1	74	11.58	11.36	11.20		0
	36	0	11.23	11.30	11.19	0-2	0
	36	18	11.35	11.34	11.18		0
	36	37	11.37	11.32	11.21		0
	75	0	11.30	11.35	11.08	0	
64QAM	1	0	10.99	11.40	11.27	0-2	0
	1	36	10.98	11.41	10.95		0
	1	74	11.25	11.21	11.23		0
	36	0	10.94	11.32	11.05	0-3	0
	36	18	10.96	11.31	11.09		0
	36	37	11.23	11.20	11.12		0
	75	0	11.15	11.31	11.11	0	

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Table 8-93
LTE Band 4 Conducted Powers Ant 4a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.06	11.27	11.20	0	0
	1	25	10.97	11.35	11.16		0
	1	49	11.11	11.32	11.03		0
	25	0	11.03	11.33	11.13	0-1	0
	25	12	10.92	11.33	11.11		0
	25	25	10.97	11.34	10.96		0
16QAM	50	0	10.93	11.33	11.08	0-1	0
	1	0	10.92	11.46	11.15		0
	1	25	10.86	11.40	11.23		0
	1	49	10.90	11.39	11.13	0-2	0
	25	0	11.01	11.36	11.15		0
	25	12	10.93	11.39	11.09		0
64QAM	25	25	10.95	11.40	10.94	0-2	0
	50	0	10.95	11.37	11.06		0
	1	0	11.01	11.37	11.07		0-2
	1	25	11.08	11.33	11.22	0	
	1	49	11.31	11.18	11.14	0	
	64QAM	25	0	11.08	11.12	10.99	0-3
25		12	10.90	11.20	10.97	0	
25		25	10.89	11.18	10.83	0	
50		0	10.93	11.21	11.04		0

Table 8-94
LTE Band 4 Conducted Powers Ant 4a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.17	11.14	11.10	0	0
	1	12	11.13	11.17	11.02		0
	1	24	11.02	11.19	11.24		0
	12	0	11.25	11.28	11.20	0-1	0
	12	6	11.19	11.29	11.17		0
	12	13	11.15	11.27	11.16		0
16QAM	25	0	11.22	11.30	11.20	0-1	0
	1	0	11.25	11.42	11.33		0
	1	12	11.20	11.38	11.25		0
	1	24	11.13	11.34	11.35	0-2	0
	12	0	11.32	11.34	11.27		0
	12	6	11.24	11.39	11.17		0
64QAM	12	13	11.15	11.32	11.13	0-2	0
	25	0	11.25	11.25	11.18		0
	1	0	11.01	11.17	11.08		0
	1	12	10.96	10.92	10.95	0-2	0
	1	24	10.92	11.25	11.01		0
	12	0	10.88	11.12	10.92	0-3	0
	12	6	10.87	11.12	10.96		0
	12	13	10.91	11.12	10.98		0
	25	0	10.89	11.13	10.98		0

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Table 8-95
LTE Band 4 Conducted Powers Ant 4a - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.14	11.14	11.16	0	0
	1	7	11.24	11.27	11.22		0
	1	14	11.16	11.17	11.18		0
	8	0	11.18	11.21	11.17	0-1	0
	8	4	11.18	11.22	11.19		0
	8	7	11.17	11.22	11.21		0
16QAM	15	0	11.20	11.23	11.20	0	
	1	0	11.01	11.15	11.21	0-1	0
	1	7	11.13	11.21	11.31		0
	1	14	10.92	11.28	11.13		0
	8	0	11.18	11.29	11.24	0-2	0
	8	4	11.20	11.31	11.27		0
8	7	11.19	11.30	11.23	0		
64QAM	15	0	11.23	11.24	11.25	0	
	1	0	10.94	11.16	11.02	0-2	0
	1	7	11.04	11.14	11.08		0
	1	14	10.95	11.15	11.05		0
	8	0	10.99	11.08	10.91	0-3	0
	8	4	10.97	11.05	10.98		0
8	7	10.96	11.08	10.95	0		
	15	0	10.97	11.07	10.93	0	

Table 8-96
LTE Band 4 Conducted Powers Ant 4a - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.17	11.52	11.21	0	0
	1	2	11.13	11.49	11.16		0
	1	5	11.22	11.51	11.20		0
	3	0	11.13	11.37	11.10		0
	3	2	11.12	11.37	11.09		0
	3	3	11.15	11.36	11.10		0
	6	0	11.15	11.40	11.11	0-1	0
16QAM	1	0	11.15	11.48	11.16	0-1	0
	1	2	11.14	11.62	11.20		0
	1	5	11.32	11.67	11.31		0
	3	0	11.24	11.55	11.27		0
	3	2	11.20	11.52	11.15		0
	3	3	11.31	11.56	11.25		0
	6	0	11.24	11.55	11.22	0-2	0
64QAM	1	0	11.05	11.27	11.01	0-2	0
	1	2	10.96	11.33	10.94		0
	1	5	10.92	11.26	11.01		0
	3	0	11.04	11.27	10.91		0
	3	2	10.98	11.21	10.88		0
	3	3	11.00	11.18	10.96		0
	6	0	10.95	11.19	10.89	0-3	0

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Table 8-97
LTE Band 4 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	13.30	0	0
	1	50	13.25		0
	1	99	13.36		0
	50	0	13.34	0-1	0
	50	25	13.23		0
	50	50	13.28		0
16QAM	100	0	13.00	0-1	0
	1	0	13.42		0
	1	50	13.33		0
	1	99	13.46	0-2	0
	50	0	13.11		0
	50	25	13.03		0
64QAM	50	50	13.11	0-2	0
	100	0	13.01		0
	1	0	13.40	0-3	0
	1	50	13.35		0
	1	99	13.49		0
	50	0	13.36	0-3	0
	50	25	13.24		0
	50	50	13.31		0
	100	0	13.25		0

Note: LTE Band 4 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.

Table 8-98
LTE Band 4 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.02	12.88	12.98	0	0
	1	36	13.14	12.95	13.25		0
	1	74	12.95	12.94	13.10		0
	36	0	13.03	13.06	13.12	0-1	0
	36	18	13.08	13.03	13.34		0
	36	37	12.96	12.97	13.29		0
16QAM	75	0	13.06	12.97	13.31	0-1	0
	1	0	13.18	13.02	13.18		0
	1	36	13.30	13.10	13.46		0
	1	74	12.95	13.12	13.35	0-2	0
	36	0	13.10	13.02	13.21		0
	36	18	13.11	13.03	13.46		0
64QAM	36	37	12.99	12.99	13.42	0-2	0
	75	0	13.10	12.96	13.40		0
	1	0	13.06	13.04	13.31		0-2
	1	36	13.15	13.24	13.49	0	
	1	74	13.02	13.33	13.38	0	
	36	0	13.06	13.14	13.15	0-3	0
36	18	13.11	13.13	13.38	0		
36	37	12.99	13.10	13.31	0		
	75	0	13.10	13.07	13.31		0

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Table 8-99
LTE Band 4 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.89	12.91	13.23	0	0
	1	25	12.92	12.93	13.29		0
	1	49	12.95	12.98	13.24		0
	25	0	13.02	13.03	13.42	0-1	0
	25	12	13.02	12.99	13.39		0
	25	25	13.05	13.00	13.33		0
16QAM	50	0	13.02	13.00	13.39	0-1	0
	1	0	13.10	13.11	13.33		0
	1	25	13.03	13.09	13.42		0
	1	49	13.15	13.27	13.34	0-2	0
	25	0	13.03	13.02	13.42		0
	25	12	13.03	13.00	13.40		0
64QAM	25	25	13.05	13.03	13.34	0-2	0
	50	0	13.05	12.99	13.40		0
	1	0	13.06	13.07	13.44		0-2
	1	25	13.07	13.16	13.48	0	
	1	49	13.10	13.22	13.47	0	
	25	0	13.05	13.04	13.33	0-3	0
25	12	13.04	12.99	13.27	0		
25	25	13.06	12.99	13.25	0		
	50	0	13.05	13.02	13.28		0

Table 8-100
LTE Band 4 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.91	13.11	13.26	0	0
	1	12	12.90	13.02	13.15		0
	1	24	12.90	12.99	13.11		0
	12	0	13.01	13.06	13.38	0-1	0
	12	6	13.00	13.01	13.30		0
	12	13	12.99	12.95	13.29		0
16QAM	25	0	13.00	13.01	13.30	0-1	0
	1	0	13.19	13.14	13.36		0
	1	12	13.19	13.03	13.33		0
	1	24	13.20	12.96	13.18	0-2	0
	12	0	13.11	13.00	13.39		0
	12	6	13.07	12.96	13.30		0
64QAM	12	13	13.07	12.92	13.31	0-2	0
	25	0	13.08	12.94	13.32		0
	1	0	13.10	13.11	13.49		0-2
	1	12	12.97	13.13	13.48	0	
	1	24	13.02	13.13	13.36	0-3	
	12	0	12.96	13.00	13.43		0
12	6	12.97	12.93	13.33	0		
	12	13	12.96	12.91	13.33	0-3	0
	25	0	12.97	12.97	13.32		0

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Table 8-101
LTE Band 4 Conducted Powers Ant 4b - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.69	12.92	13.19	0	0
	1	7	12.74	12.97	13.26		0
	1	14	12.73	12.85	13.12		0
	8	0	12.84	13.03	13.30	0-1	0
	8	4	12.83	13.03	13.30		0
	8	7	12.84	13.00	13.29		0
16QAM	15	0	12.86	13.05	13.29	0	
	1	0	12.93	13.00	13.33	0-1	0
	1	7	12.97	13.03	13.41		0
	1	14	12.99	13.01	13.17		0
	8	0	13.00	12.96	13.40	0-2	0
	8	4	12.96	12.95	13.36		0
8	7	12.96	12.95	13.38	0		
64QAM	15	0	13.00	12.96	13.36	0	
	1	0	13.00	13.18	13.48	0-2	0
	1	7	13.05	13.13	13.49		0
	1	14	13.01	13.11	13.36		0
	8	0	13.01	13.06	13.34	0-3	0
	8	4	13.03	13.05	13.28		0
8	7	13.02	13.05	13.34	0		
	15	0	12.99	13.02	13.31		0

Table 8-102
LTE Band 4 Conducted Powers Ant 4b - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.82	13.08	13.24	0	0
	1	2	12.77	13.06	13.23		0
	1	5	12.84	13.07	13.20		0
	3	0	12.87	13.04	13.35		0
	3	2	12.88	12.99	13.31		0
	3	3	12.89	12.97	13.26		0
	6	0	12.87	13.02	13.27	0-1	0
16QAM	1	0	13.06	13.22	13.37	0-1	0
	1	2	12.98	13.12	13.41		0
	1	5	13.02	13.27	13.29		0
	3	0	13.01	13.08	13.25		0
	3	2	12.94	13.07	13.28		0
	3	3	13.06	13.09	13.27		0
	6	0	12.88	13.04	13.31	0-2	0
64QAM	1	0	13.07	13.13	13.46	0-2	0
	1	2	12.99	13.08	13.48		0
	1	5	13.16	13.24	13.32		0
	3	0	13.06	13.10	13.27		0
	3	2	13.09	13.14	13.21		0
	3	3	12.96	13.13	13.21		0
	6	0	13.05	13.02	13.30	0-3	0

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Table 8-103
LTE Band 4 Conducted Powers Ant 4b - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	10.05	0	0
	1	50	10.20		0
	1	99	10.31		0
	50	0	10.10	0-1	0
	50	25	10.15		0
	50	50	10.28		0
16QAM	100	0	10.20	0-1	0
	1	0	10.30		0
	1	50	10.49		0
	1	99	10.32	0-2	0
	50	0	10.01		0
	50	25	9.98		0
64QAM	50	50	10.30	0-2	0
	100	0	10.13		0
	1	0	10.20	0-3	0
	1	50	10.37		0
	1	99	10.43		0
	50	0	9.94	0-3	0
	50	25	9.97		0
	50	50	10.01		0
	100	0	9.96		0

Note: LTE Band 4 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.

Table 8-104
LTE Band 4 Conducted Powers Ant 4b - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.07	9.96	10.02	0	0
	1	36	10.13	9.88	10.44		0
	1	74	9.98	9.97	10.29		0
	36	0	10.16	9.99	10.35	0-1	0
	36	18	10.19	9.93	10.50		0
	36	37	10.06	9.93	10.47		0
16QAM	75	0	10.20	9.90	10.45	0-1	0
	1	0	10.26	9.85	10.40		0
	1	36	10.19	10.08	10.50		0
	36	0	10.19	9.98	10.38	0-2	0
	36	18	10.23	9.94	10.47		0
	36	37	10.09	9.94	10.45		0
64QAM	75	0	10.23	9.91	10.44	0-2	0
	1	0	10.05	10.14	10.45		0
	1	36	10.15	10.41	10.50		0
	1	74	10.00	10.47	10.49	0-3	0
	36	0	9.98	10.23	10.31		0
	36	18	10.03	10.28	10.41		0
	36	37	9.94	10.29	10.43	0	
	75	0	10.06	10.21	10.45	0	

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Table 8-105
LTE Band 4 Conducted Powers Ant 4b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	9.83	9.89	9.96	0	0
	1	25	9.98	9.98	10.10		0
	1	49	9.95	10.12	10.05		0
	25	0	10.08	9.97	10.19	0-1	0
	25	12	10.06	10.02	10.21		0
	25	25	10.07	10.06	10.11		0
50	0	10.06	10.00	10.21	0		
16QAM	1	0	10.14	9.99	10.10	0-1	0
	1	25	10.16	10.13	10.24		0
	1	49	10.09	10.35	10.07		0
	25	0	10.11	10.03	10.22	0-2	0
	25	12	10.09	10.05	10.25		0
	25	25	10.10	9.85	10.13		0
50	0	9.96	9.82	10.24	0		
64QAM	1	0	9.53	10.01	10.33	0-2	0
	1	25	9.62	9.97	10.26		0
	1	49	9.74	10.00	10.03		0
	25	0	9.75	9.65	10.18	0-3	0
	25	12	9.71	9.61	10.18		0
	25	25	9.74	9.65	10.02		0
50	0	9.74	9.64	10.13	0		

Table 8-106
LTE Band 4 Conducted Powers Ant 4b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	9.77	9.84	10.47	0	0
	1	12	9.81	9.95	10.35		0
	1	24	9.85	9.88	10.24		0
	12	0	9.94	10.03	10.47	0-1	0
	12	6	9.96	9.98	10.40		0
	12	13	10.01	9.94	10.40		0
16QAM	25	0	9.98	9.94	10.41	0-1	0
	1	0	10.06	9.92	10.47		0
	1	12	10.11	10.05	10.49	0-2	0
	1	24	10.03	10.10	10.45		0
	12	0	10.02	9.99	10.50		0
	12	6	10.06	9.98	10.42		0
64QAM	12	13	10.06	9.92	10.37	0-3	0
	25	0	9.95	9.98	10.43		0
	1	0	9.74	10.10	10.50	0-2	0
	1	12	9.76	10.30	10.36		0
	1	24	9.82	10.34	10.36	0-3	0
	12	0	9.82	10.14	10.43		0
12	6	9.81	10.12	10.32	0		
12	13	9.87	10.09	10.31	0		
	25	0	9.79	10.14	10.35		0

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Table 8-107
LTE Band 4 Conducted Powers Ant 4b - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	9.75	9.97	10.32	0	0
	1	7	9.79	9.94	10.37		0
	1	14	9.76	9.82	10.19		0
	8	0	9.91	10.04	10.41	0-1	0
	8	4	9.86	10.01	10.42		0
	8	7	9.89	9.96	10.42		0
	15	0	9.89	10.02	10.43		0
16QAM	1	0	9.66	10.09	10.36	0-1	0
	1	7	9.87	10.18	10.48		0
	1	14	9.89	9.95	10.45		0
	8	0	9.87	10.08	10.44	0-2	0
	8	4	9.84	10.09	10.50		0
	8	7	9.89	10.01	10.46		0
	15	0	9.94	10.04	10.46		0
64QAM	1	0	9.83	9.93	10.32	0-2	0
	1	7	9.90	10.06	10.36		0
	1	14	9.69	9.98	10.30		0
	8	0	9.83	9.86	10.26	0-3	0
	8	4	9.74	9.86	10.23		0
	8	7	9.84	9.81	10.26		0
	15	0	9.75	9.86	10.25		0

Table 8-108
LTE Band 4 Conducted Powers Ant 4b - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	9.86	10.07	10.44	0	0
	1	2	9.83	10.05	10.41		0
	1	5	9.85	10.04	10.37		0
	3	0	9.81	9.93	10.28		0
	3	2	9.80	9.94	10.29		0
	3	3	9.81	9.93	10.23		0
	6	0	9.81	9.92	10.31	0-1	0
16QAM	1	0	9.91	10.14	10.44	0-1	0
	1	2	9.95	10.03	10.50		0
	1	5	9.89	10.12	10.46		0
	3	0	9.87	10.06	10.39		0
	3	2	9.98	10.07	10.41		0
	3	3	9.97	9.97	10.27		0
	6	0	9.82	10.05	10.45	0-2	0
64QAM	1	0	9.82	9.95	10.32	0-2	0
	1	2	9.82	9.94	10.27		0
	1	5	9.77	10.01	10.25		0
	3	0	9.74	9.92	10.41		0
	3	2	9.89	9.94	10.27		0
	3	3	9.86	9.90	10.46		0
	6	0	9.83	9.78	10.33	0-3	0

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LTE Band 66

Table 8-109
LTE Band 66 Conducted Powers Ant 2a - 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	14.90	14.53	14.37	0	0
	1	50	14.61	14.52	14.72		0
	1	99	14.48	14.41	14.45		0
	50	0	14.81	14.68	14.54	0-1	0
	50	25	14.54	14.54	14.58		0
	50	50	14.31	14.48	14.80		0
16QAM	100	0	14.46	14.54	14.65	0-1	0
	1	0	14.57	14.48	14.25		0
	1	50	14.23	14.47	14.31		0
	1	99	14.07	14.36	14.36	0-2	0
	50	0	14.27	14.34	14.08		0
	50	25	14.09	14.29	14.11		0
64QAM	50	50	13.95	14.29	14.13	0-2	0
	100	0	14.07	14.31	14.15		0
	1	0	14.50	14.44	14.31		0-2
	1	50	14.16	14.40	14.32	0	
	1	99	14.00	14.32	14.31	0	
	50	0	14.22	14.34	14.07	0-3	0
50	25	14.06	14.30	14.09	0		
50	50	14.00	14.29	14.13	0		
	100	0	14.02	14.31	14.15		0

Table 8-110
LTE Band 66 Conducted Powers Ant 2a - 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	14.58	14.57	14.30	0	0
	1	36	14.32	14.55	14.54		0
	1	74	14.10	14.46	14.45		0
	36	0	14.51	14.66	14.41	0-1	0
	36	18	14.31	14.68	14.59		0
	36	37	14.19	14.63	14.56		0
	75	0	14.30	14.65	14.57		0
16QAM	1	0	14.49	14.89	14.35	0-1	0
	1	36	14.26	14.54	14.69		0
	1	74	14.10	14.58	14.43		0
	36	0	14.33	14.36	14.09	0-2	0
	36	18	14.11	14.35	14.24		0
	36	37	14.03	14.32	14.21		0
	75	0	14.09	14.33	14.22		0
64QAM	1	0	14.39	14.35	13.94	0-2	0
	1	36	14.19	14.30	14.23		0
	1	74	14.00	14.17	14.12		0
	36	0	14.27	14.36	14.04	0-3	0
	36	18	14.07	14.35	14.21		0
	36	37	14.03	14.31	14.19		0
	75	0	14.05	14.32	14.21		0

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Table 8-111
LTE Band 66 Conducted Powers Ant 2a - 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	14.63	14.63	14.49	0	0
	1	25	14.47	14.51	14.51		0
	1	49	14.33	14.51	14.54		0
	25	0	14.67	14.69	14.57	0-1	0
	25	12	14.56	14.64	14.57		0
	25	25	14.41	14.64	14.60		0
16QAM	50	0	14.50	14.66	14.59	0-1	0
	1	0	14.58	14.51	14.59		0
	1	25	14.43	14.43	14.46		0
	1	49	14.29	14.40	14.46	0-2	0
	25	0	14.42	14.45	14.33		0
	25	12	14.34	14.40	14.33		0
64QAM	25	25	14.18	14.40	14.38	0-2	0
	50	0	14.26	14.40	14.34		0
	1	0	14.52	14.37	14.21		0
	1	25	14.38	14.24	14.25	0-2	0
	1	49	14.24	14.25	14.27		0
	25	0	14.40	14.42	14.30	0-3	0
	25	12	14.32	14.38	14.29		0
	25	25	14.15	14.36	14.34		0
	50	0	14.26	14.39	14.32		0

Table 8-112
LTE Band 66 Conducted Powers Ant 2a - 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	14.54	14.52	14.35	0	0
	1	12	14.53	14.47	14.37		0
	1	24	14.45	14.49	14.27		0
	12	0	14.56	14.63	14.43	0-1	0
	12	6	14.57	14.60	14.46		0
	12	13	14.53	14.58	14.42		0
16QAM	25	0	14.59	14.61	14.49	0-1	0
	1	0	14.46	14.59	14.26		0
	1	12	14.47	14.54	14.27		0
	1	24	14.45	14.66	14.37	0-2	0
	12	0	14.33	14.32	14.25		0
	12	6	14.34	14.24	14.24		0
64QAM	12	13	14.30	14.29	14.20	0-2	0
	25	0	14.33	14.31	14.26		0
	1	0	14.43	14.50	14.49		0-2
	1	12	14.40	14.45	14.28	0	
	1	24	14.35	14.60	14.37	0	
	12	0	14.32	14.30	14.26	0-3	0
12	6	14.32	14.37	14.32	0		
12	13	14.28	14.26	14.28	0		
	25	0	14.32	14.36	14.31		0

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Table 8-113
LTE Band 66 Conducted Powers Ant 2a - 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	14.45	14.52	14.50	0	0
	1	7	14.50	14.55	14.50		0
	1	14	14.47	14.53	14.36		0
	8	0	14.55	14.61	14.54	0-1	0
	8	4	14.54	14.60	14.46		0
	8	7	14.56	14.60	14.48		0
15	0	14.55	14.63	14.49	0		
16QAM	1	0	14.36	14.44	14.51	0-1	0
	1	7	14.42	14.84	14.41		0
	1	14	14.42	14.40	14.57		0
	8	0	14.30	14.42	14.30	0-2	0
	8	4	14.29	14.40	14.23		0
	8	7	14.33	14.44	14.20		0
15	0	14.30	14.43	14.26	0		
64QAM	1	0	14.36	14.43	14.56	0-2	0
	1	7	14.42	14.41	14.44		0
	1	14	14.31	14.70	14.37		0
	8	0	14.28	14.46	14.25	0-3	0
	8	4	14.29	14.37	14.21		0
	8	7	14.29	14.42	14.19		0
15	0	14.31	14.44	14.22	0		

Table 8-114
LTE Band 66 Conducted Powers Ant 2a - 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	14.42	14.52	14.54	0	0
	1	2	14.41	14.46	14.52		0
	1	5	14.43	14.49	14.47		0
	3	0	14.44	14.59	14.43		0
	3	2	14.43	14.59	14.44		0
	3	3	14.43	14.57	14.35		0
	6	0	14.45	14.61	14.49	0-1	0
16QAM	1	0	14.37	14.74	14.41	0-1	0
	1	2	14.35	14.35	14.50		0
	1	5	14.40	14.80	14.52		0
	3	0	14.27	14.43	14.29		0
	3	2	14.28	14.35	14.26		0
	3	3	14.28	14.42	14.19		0
	6	0	14.26	14.37	14.25	0-2	0
64QAM	1	0	14.35	14.70	14.39	0-2	0
	1	2	14.33	14.78	14.39		0
	1	5	14.37	14.61	14.38		0
	3	0	14.27	14.44	14.22		0
	3	2	14.26	14.38	14.11		0
	3	3	14.26	14.33	14.16		0
	6	0	14.24	14.43	14.18	0-3	0

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Table 8-115
LTE Band 66 Conducted Powers Ant 2a - 20 MHz Bandwidth, Inter-band ULCA Active

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	11.87	11.49	11.46	0	0
	1	50	11.63	11.52	11.56		0
	1	99	11.54	11.43	11.61		0
	50	0	11.65	11.56	11.42	0-1	0
	50	25	11.59	11.55	11.48		0
	50	50	11.38	11.48	11.58		0
16QAM	100	0	11.42	11.49	11.58	0-1	0
	1	0	11.87	11.46	11.53		0
	1	50	11.68	11.60	11.59		0
	1	99	11.51	11.47	11.47	0-2	0
	50	0	11.43	11.39	11.38		0
	50	25	11.38	11.39	11.38		0
64QAM	50	50	11.06	11.27	11.27	0-2	0
	100	0	11.31	11.32	11.31		0
	1	0	11.69	11.35	11.48		0-2
	1	50	11.65	11.47	11.58	0	
	1	99	11.56	11.33	11.39	0	
	50	0	11.11	11.37	11.42	0-3	0
50	25	11.27	11.35	11.41	0		
50	50	11.34	11.27	11.33	0		
	100	0	11.29	11.28	11.32		0

Table 8-116
LTE Band 66 Conducted Powers Ant 2a - 15 MHz Bandwidth, Inter-band ULCA Active

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	11.69	11.51	11.25	0	0
	1	36	11.53	11.40	11.27		0
	1	74	11.36	11.32	11.35		0
	36	0	11.66	11.53	11.23	0-1	0
	36	18	11.45	11.50	11.40		0
	36	37	11.35	11.47	11.42		0
	75	0	11.46	11.47	11.40	0	
16QAM	1	0	11.83	11.77	11.30	0-1	0
	1	36	11.52	11.48	11.37		0
	1	74	11.52	11.47	11.37		0
	36	0	11.71	11.51	11.25	0-2	0
	36	18	11.48	11.52	11.41		0
	36	37	11.40	11.49	11.45		0
	75	0	11.48	11.50	11.40	0	
64QAM	1	0	11.66	11.74	11.17	0-2	0
	1	36	11.27	11.41	11.46		0
	1	74	11.42	11.53	11.53		0
	36	0	11.67	11.52	11.26	0-3	0
	36	18	11.45	11.51	11.45		0
	36	37	11.36	11.47	11.44		0
	75	0	11.45	11.51	11.41	0	

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Table 8-117
LTE Band 66 Conducted Powers Ant 2a - 10 MHz Bandwidth, Inter-band ULCA Active

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	11.50	11.40	11.24	0	0
	1	25	11.36	11.31	11.31		0
	1	49	11.22	11.31	11.37		0
	25	0	11.63	11.44	11.37	0-1	0
	25	12	11.55	11.42	11.37		0
	25	25	11.40	11.41	11.43		0
16QAM	50	0	11.47	11.42	11.40	0-1	0
	1	0	11.72	11.55	11.46		0
	1	25	11.56	11.43	11.47		0
	1	49	11.40	11.44	11.59	0-2	0
	25	0	11.64	11.45	11.38		0
	25	12	11.57	11.41	11.38		0
64QAM	25	25	11.43	11.41	11.45	0-2	0
	50	0	11.47	11.42	11.38		0
	1	0	11.71	11.64	11.73		0-2
	1	25	11.57	11.60	11.72	0	
	1	49	11.46	11.51	11.52	0-3	
	25	0	11.69	11.48	11.36		0
25	12	11.58	11.43	11.41	0		
64QAM	25	25	11.44	11.45	11.42	0-3	0
	50	0	11.53	11.44	11.39		0

Table 8-118
LTE Band 66 Conducted Powers Ant 2a - 5 MHz Bandwidth, Inter-band ULCA Active

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	11.51	11.47	11.22	0	0
	1	12	11.54	11.42	11.22		0
	1	24	11.55	11.49	11.15		0
	12	0	11.60	11.43	11.36	0-1	0
	12	6	11.64	11.41	11.36		0
	12	13	11.64	11.43	11.33		0
16QAM	25	0	11.66	11.43	11.38	0-1	0
	1	0	11.82	11.58	11.37		0
	1	12	11.66	11.44	11.37		0
	1	24	11.86	11.62	11.31	0-2	0
	12	0	11.64	11.47	11.42		0
	12	6	11.69	11.47	11.44		0
64QAM	12	13	11.68	11.43	11.40	0-2	0
	25	0	11.65	11.44	11.37		0
	1	0	11.64	11.63	11.40		0-2
	1	12	11.75	11.55	11.57	0	
	1	24	11.66	11.58	11.52	0-3	
	12	0	11.62	11.43	11.36		0
12	6	11.66	11.40	11.41	0		
64QAM	12	13	11.68	11.46	11.39	0-3	0
	25	0	11.68	11.45	11.40		0

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Table 8-119

LTE Band 66 Conducted Powers Ant 2a - 3 MHz Bandwidth, Inter-band ULCA Active

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	11.36	11.32	11.15	0	0
	1	7	11.45	11.34	11.21		0
	1	14	11.44	11.30	11.10		0
	8	0	11.50	11.41	11.32	0-1	0
	8	4	11.52	11.41	11.26		0
	8	7	11.55	11.41	11.31		0
16QAM	15	0	11.58	11.44	11.29	0-1	0
	1	0	11.46	11.53	11.16		0
	1	7	11.60	11.66	11.17		0
	1	14	11.65	11.48	11.11	0-2	0
	8	0	11.54	11.44	11.37		0
	8	4	11.59	11.52	11.26		0
64QAM	8	7	11.58	11.48	11.36	0-2	0
	15	0	11.58	11.44	11.36		0
	1	0	11.56	11.45	11.46		0-2
	1	7	11.64	11.44	11.56	0	
	1	14	11.61	11.42	11.45	0-3	
	8	0	11.60	11.49	11.44		0
8	4	11.58	11.46	11.34	0		
	8	7	11.61	11.42	11.35		0
	15	0	11.56	11.39	11.30		0

Table 8-120

LTE Band 66 Conducted Powers Ant 2a - 1.4 MHz Bandwidth, Inter-band ULCA Active

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	11.45	11.35	11.35	0	0
	1	2	11.43	11.31	11.35		0
	1	5	11.46	11.34	11.30		0
	3	0	11.52	11.41	11.27		0
	3	2	11.52	11.42	11.28		0
	3	3	11.53	11.42	11.19		0
	6	0	11.52	11.42	11.30	0-1	0
16QAM	1	0	11.64	11.57	11.39	0-1	0
	1	2	11.64	11.45	11.41		0
	1	5	11.58	11.39	11.34		0
	3	0	11.63	11.43	11.31		0
	3	2	11.59	11.46	11.30		0
	3	3	11.60	11.51	11.26		0
	6	0	11.63	11.47	11.36	0-2	0
64QAM	1	0	11.71	11.59	11.42	0-2	0
	1	2	11.67	11.50	11.56		0
	1	5	11.71	11.61	11.45		0
	3	0	11.55	11.42	11.38		0
	3	2	11.62	11.35	11.34		0
	3	3	11.64	11.36	11.21		0
	6	0	11.69	11.47	11.34	0-3	0

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Table 8-121
LTE Band 66 Conducted Powers Ant 2b - 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	15.08	14.96	14.78	0	0
	1	50	14.88	14.98	14.97		0
	1	99	14.62	14.79	14.99		0
	50	0	15.09	14.98	14.89	0-1	0
	50	25	14.99	15.01	15.01		0
	50	50	14.83	14.93	15.02		0
16QAM	100	0	14.99	14.96	14.98	0-1	0
	1	0	14.97	14.74	14.41		0
	1	50	14.76	14.79	14.53		0
	1	99	14.54	14.62	14.58	0-2	0
	50	0	14.60	14.45	14.42		0
	50	25	14.51	14.46	14.51		0
64QAM	50	50	14.34	14.38	14.54	0-2	0
	100	0	14.45	14.46	14.56		0
	1	0	15.02	14.66	14.33		0-2
	1	50	14.75	14.66	14.55	0	
	1	99	14.60	14.43	14.53	0	
	64QAM	50	0	14.62	14.48	14.38	0-3
50		25	14.49	14.48	14.49	0	
50		50	14.35	14.42	14.53	0	
100		0	14.45	14.50	14.53		0

Table 8-122
LTE Band 66 Conducted Powers Ant 2b - 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	15.01	15.10	14.55	0	0
	1	36	14.95	15.09	14.71		0
	1	74	14.83	14.90	14.71		0
	36	0	15.02	15.03	14.68	0-1	0
	36	18	15.01	15.00	14.80		0
	36	37	14.96	14.98	14.82		0
	75	0	15.00	15.01	14.83		0
16QAM	1	0	15.08	15.10	14.73	0-1	0
	1	36	15.02	15.10	14.85		0
	1	74	14.93	14.89	14.89		0
	36	0	14.98	14.94	14.74	0-2	0
	36	18	14.97	14.95	14.85		0
	36	37	14.81	14.86	14.83		0
	75	0	14.87	14.94	14.84		0
64QAM	1	0	15.03	15.01	14.80	0-2	0
	1	36	15.03	15.04	15.00		0
	1	74	14.74	14.90	14.97		0
	36	0	14.94	14.83	14.77	0-3	0
	36	18	14.83	14.93	14.93		0
	36	37	14.72	14.79	14.88		0
	75	0	14.78	14.90	14.98		0

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Table 8-123
LTE Band 66 Conducted Powers Ant 2b - 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	15.02	14.97	14.74	0	0
	1	25	14.99	14.90	14.79		0
	1	49	14.91	14.86	14.80		0
	25	0	15.09	15.00	14.88	0-1	0
	25	12	15.05	14.98	14.88		0
	25	25	15.02	15.01	14.86		0
16QAM	50	0	15.07	15.02	14.91	0-1	0
	1	0	15.07	15.10	14.86		0
	1	25	15.08	15.05	14.74		0
	1	49	15.03	15.00	14.97	0-2	0
	25	0	15.08	14.90	14.78		0
	25	12	15.00	14.87	14.81		0
64QAM	25	25	14.80	14.83	14.81	0-2	0
	50	0	14.90	14.89	14.82		0
	1	0	14.99	14.88	14.80		0-2
	1	25	14.96	14.88	14.91	0	
	1	49	14.93	14.77	15.02	0	
	25	0	14.78	14.55	14.80	0-3	0
25	12	14.69	14.56	14.64	0		
25	25	14.59	14.46	14.63	0		
	50	0	14.66	14.56	14.71		0

Table 8-124
LTE Band 66 Conducted Powers Ant 2b - 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	15.01	14.93	14.70	0	0	
	1	12	15.01	14.89	14.66		0	
	1	24	15.05	14.95	14.75		0	
	12	0	14.99	14.97	14.85	0-1	0	
	12	6	15.00	14.96	14.82		0	
	12	13	14.98	14.97	14.86		0	
16QAM	25	0	15.03	14.98	14.84	0-1	0	
	1	0	15.02	15.04	14.73		0	
	1	12	15.03	14.96	14.75		0	
	1	24	14.95	15.04	14.74	0-2	0	
	12	0	14.90	14.92	14.76		0	
	12	6	14.94	14.92	14.74		0	
64QAM	12	13	14.79	14.85	14.76	0-2	0	
	25	0	14.85	14.88	14.75		0	
	64QAM	1	0	15.10	14.85	14.80	0-2	0
		1	12	15.05	14.77	14.81		0
		1	24	14.95	14.91	14.98	0-3	0
		12	0	14.78	14.61	14.57		0
12		6	14.70	14.63	14.57	0		
12		13	14.78	14.55	14.61	0		
	25	0	14.77	14.61	14.53		0	

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Table 8-125
LTE Band 66 Conducted Powers Ant 2b - 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	14.80	14.89	14.65	0	0
	1	7	14.89	14.93	14.72		0
	1	14	14.85	14.88	14.68		0
	8	0	14.91	15.00	14.82	0-1	0
	8	4	14.92	14.97	14.82		0
	8	7	14.93	14.99	14.81		0
16QAM	15	0	14.94	15.01	14.83	0-1	0
	1	0	15.00	15.10	14.80		0
	1	7	15.05	15.09	14.81		0
	1	14	14.94	15.07	14.71	0-2	0
	8	0	14.99	14.88	14.82		0
	8	4	14.93	14.89	14.73		0
64QAM	8	7	14.81	14.86	14.75	0-2	0
	15	0	14.85	14.87	14.76		0
	1	0	15.01	14.87	14.82		0-2
	1	7	14.96	14.90	14.90	0	
	1	14	14.92	14.82	14.85	0	
	8	0	14.70	14.54	14.60	0-3	0
8	4	14.73	14.56	14.62	0		
8	7	14.75	14.60	14.68	0		
	15	0	14.76	14.61	14.67		0

Table 8-126
LTE Band 66 Conducted Powers Ant 2b - 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	14.83	14.88	14.85	0	0
	1	2	14.83	14.88	14.82		0
	1	5	14.86	14.91	14.85		0
	3	0	14.90	14.95	14.76		0
	3	2	14.89	14.92	14.76		0
	3	3	14.89	14.94	14.77		0
	6	0	14.90	14.93	14.77	0-1	0
16QAM	1	0	15.00	15.00	14.88	0-1	0
	1	2	14.92	14.99	14.81		0
	1	5	15.03	15.02	14.89		0
	3	0	14.96	14.90	14.87		0
	3	2	14.99	14.89	14.83		0
	3	3	14.80	14.85	14.89		0
	6	0	14.92	14.95	14.77	0-2	0
64QAM	1	0	15.00	14.82	14.63	0-2	0
	1	2	14.87	14.74	14.60		0
	1	5	14.94	14.80	14.55		0
	3	0	14.64	14.45	14.40		0
	3	2	14.58	14.42	14.45		0
	3	3	14.70	14.48	14.37		0
	6	0	14.60	14.40	14.33	0-3	0

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Table 8-127
LTE Band 66 Conducted Powers Ant 2b - 20 MHz Bandwidth, Inter-band ULCA Active

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	11.94	11.67	11.61	0	0
	1	50	11.85	11.68	11.65		0
	1	99	11.72	11.56	11.76		0
	50	0	11.71	11.78	11.51	0-1	0
	50	25	11.79	11.75	11.64		0
	50	50	11.62	11.71	11.73		0
16QAM	100	0	11.70	11.75	11.74	0-1	0
	1	0	11.81	11.63	11.31		0
	1	50	11.72	11.78	11.45		0
	1	99	11.68	11.53	11.52	0-2	0
	50	0	11.53	11.53	11.23		0
	50	25	11.49	11.54	11.32		0
64QAM	50	50	11.40	11.49	11.39	0-2	0
	100	0	11.41	11.50	11.40		0
	1	0	11.70	11.61	11.49		0-2
	1	50	11.61	11.74	11.63	0	
	1	99	11.43	11.52	11.76	0-3	
	50	0	11.63	11.50	11.25		0
	50	25	11.53	11.51	11.40		0
		50	50	11.39	11.48	11.43	0
	100	0	11.41	11.48	11.45	0	

Table 8-128
LTE Band 66 Conducted Powers Ant 2b - 15 MHz Bandwidth, Inter-band ULCA Active

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	11.72	11.71	11.31	0	0
	1	36	11.77	11.65	11.51		0
	1	74	11.77	11.45	11.51		0
	36	0	11.66	11.74	11.46	0-1	0
	36	18	11.70	11.73	11.62		0
	36	37	11.70	11.72	11.64		0
	75	0	11.69	11.73	11.61		0
16QAM	1	0	11.75	11.86	11.47	0-1	0
	1	36	11.80	11.90	11.54		0
	1	74	11.82	11.59	11.66		0
	36	0	11.68	11.77	11.46	0-2	0
	36	18	11.66	11.75	11.64		0
	36	37	11.69	11.72	11.64		0
	75	0	11.70	11.76	11.61		0
64QAM	1	0	11.92	11.85	11.76	0-2	0
	1	36	11.74	11.91	11.90		0
	1	74	11.73	11.58	11.93		0
	36	0	11.65	11.76	11.48	0-3	0
	36	18	11.71	11.76	11.64		0
	36	37	11.72	11.73	11.66		0
	75	0	11.69	11.74	11.63		0

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Table 8-129
LTE Band 66 Conducted Powers Ant 2b - 10 MHz Bandwidth, Inter-band ULCA Active

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	11.66	11.68	11.44	0	0
	1	25	11.68	11.60	11.53		0
	1	49	11.64	11.54	11.56		0
	25	0	11.71	11.70	11.50	0-1	0
	25	12	11.67	11.69	11.51		0
	25	25	11.69	11.69	11.49		0
16QAM	50	0	11.67	11.71	11.53	0-1	0
	1	0	11.73	11.86	11.34		0
	1	25	11.73	11.86	11.47		0
	1	49	11.71	11.75	11.58	0-2	0
	25	0	11.73	11.72	11.54		0
	25	12	11.69	11.70	11.51		0
64QAM	25	25	11.66	11.70	11.46	0-2	0
	50	0	11.71	11.70	11.54		0
	1	0	11.76	11.83	11.51		0-2
	1	25	11.84	11.77	11.50	0	
	1	49	11.75	11.68	11.62	0	
	64QAM	25	0	11.75	11.73	11.48	0-3
25		12	11.72	11.69	11.50	0	
25		25	11.73	11.72	11.49	0	
50		0	11.72	11.72	11.54		0

Table 8-130
LTE Band 66 Conducted Powers Ant 2b - 5 MHz Bandwidth, Inter-band ULCA Active

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	11.57	11.72	11.34	0	0
	1	12	11.60	11.72	11.31		0
	1	24	11.63	11.77	11.43		0
	12	0	11.69	11.71	11.44	0-1	0
	12	6	11.69	11.69	11.39		0
	12	13	11.65	11.70	11.44		0
16QAM	25	0	11.72	11.70	11.42	0-1	0
	1	0	11.78	11.86	11.36		0
	1	12	11.71	11.77	11.41		0
	1	24	11.88	11.92	11.54	0-2	0
	12	0	11.72	11.69	11.48		0
	12	6	11.71	11.68	11.40		0
64QAM	12	13	11.67	11.68	11.51	0-2	0
	25	0	11.79	11.70	11.46		0
	1	0	11.76	11.84	11.49		0-2
	1	12	11.84	11.81	11.52	0	
	1	24	11.83	11.90	11.55	0	
	12	0	11.72	11.67	11.46	0-3	0
12	6	11.76	11.70	11.40	0		
12	13	11.71	11.72	11.46	0		
	25	0	11.73	11.72	11.38		0

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Table 8-131

LTE Band 66 Conducted Powers Ant 2b - 3 MHz Bandwidth, Inter-band ULCA Active

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	11.50	11.66	11.44	0	0
	1	7	11.61	11.69	11.51		0
	1	14	11.56	11.66	11.49		0
	8	0	11.58	11.68	11.49	0-1	0
	8	4	11.60	11.67	11.49		0
	8	7	11.63	11.67	11.52		0
	15	0	11.63	11.70	11.52		0
16QAM	1	0	11.69	11.87	11.33	0-1	0
	1	7	11.67	11.70	11.45		0
	1	14	11.69	11.78	11.50		0
	8	0	11.57	11.76	11.51	0-2	0
	8	4	11.59	11.75	11.51		0
	8	7	11.69	11.74	11.56		0
	15	0	11.66	11.71	11.55		0
64QAM	1	0	11.62	11.71	11.53	0-2	0
	1	7	11.65	11.83	11.81		0
	1	14	11.75	11.86	11.64		0
	8	0	11.63	11.76	11.52	0-3	0
	8	4	11.63	11.72	11.55		0
	8	7	11.62	11.75	11.61		0
	15	0	11.61	11.69	11.55		0

Table 8-132

LTE Band 66 Conducted Powers Ant 2b - 1.4 MHz Bandwidth, Inter-band ULCA Active

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	11.56	11.68	11.64	0	0
	1	2	11.52	11.66	11.64		0
	1	5	11.58	11.67	11.67		0
	3	0	11.54	11.67	11.47		0
	3	2	11.55	11.68	11.46		0
	3	3	11.54	11.65	11.48		0
	6	0	11.54	11.65	11.46	0-1	0
16QAM	1	0	11.64	11.84	11.74	0-1	0
	1	2	11.64	11.81	11.50		0
	1	5	11.76	11.62	11.55		0
	3	0	11.70	11.82	11.49		0
	3	2	11.54	11.71	11.57		0
	3	3	11.64	11.75	11.52		0
	6	0	11.55	11.67	11.51	0-2	0
64QAM	1	0	11.65	11.66	11.67	0-2	0
	1	2	11.64	11.78	11.69		0
	1	5	11.66	11.77	11.52		0
	3	0	11.52	11.72	11.57		0
	3	2	11.57	11.70	11.70		0
	3	3	11.58	11.70	11.56		0
	6	0	11.69	11.59	11.51	0-3	0

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Table 8-133
LTE Band 66 Conducted Powers Ant 4a - 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	14.59	14.47	14.51	0	0
	1	50	14.54	14.31	14.36		0
	1	99	14.66	14.38	14.33		0
	50	0	14.53	14.57	14.59	0-1	0
	50	25	14.55	14.46	14.53		0
	50	50	14.60	14.44	14.43		0
100	0	14.58	14.44	14.49	0		
16QAM	1	0	14.47	14.58	14.69	0-1	0
	1	50	14.50	14.51	14.74		0
	1	99	14.45	14.56	14.63		0
	50	0	14.35	14.38	14.44	0-2	0
	50	25	14.36	14.29	14.38		0
	50	50	14.38	14.29	14.32		0
100	0	14.39	14.29	14.35	0		
64QAM	1	0	14.51	14.71	14.35	0-2	0
	1	50	14.66	14.67	14.40		0
	1	99	14.57	14.48	14.33		0
	50	0	14.43	14.42	14.25	0-3	0
	50	25	14.45	14.39	14.28		0
	50	50	14.54	14.31	14.13		0
100	0	14.48	14.34	14.25	0		

Table 8-134
LTE Band 66 Conducted Powers Ant 4a - 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	14.49	14.50	14.31	0	0
	1	36	14.49	14.38	14.27		0
	1	74	14.52	14.14	14.07		0
	36	0	14.36	14.47	14.32	0-1	0
	36	18	14.44	14.45	14.28		0
	36	37	14.48	14.36	14.22		0
16QAM	75	0	14.42	14.42	14.25	0-1	0
	1	0	14.64	14.77	14.63		0
	1	36	14.56	14.71	14.75		0
	1	74	14.58	14.49	14.38	0-2	0
	36	0	14.39	14.50	14.33		0
	36	18	14.47	14.48	14.29		0
64QAM	36	37	14.47	14.40	14.22	0-2	0
	75	0	14.42	14.44	14.24		0
	1	0	14.70	14.71	14.59		0-2
	1	36	14.79	14.55	14.44	0	
	1	74	14.80	14.46	14.20	0-3	
	36	0	14.36	14.48	14.31		0
36	18	14.45	14.48	14.27	0		
64QAM	36	37	14.46	14.38	14.24	0-3	0
	75	0	14.39	14.46	14.26		0

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Table 8-135
LTE Band 66 Conducted Powers Ant 4a - 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	14.47	14.41	14.39	0	0
	1	25	14.28	14.31	14.24		0
	1	49	14.48	14.28	14.13		0
	25	0	14.42	14.44	14.26	0-1	0
	25	12	14.30	14.37	14.23		0
	25	25	14.39	14.34	14.13		0
16QAM	50	0	14.31	14.40	14.23	0-1	0
	1	0	14.76	14.62	14.72		0
	1	25	14.58	14.77	14.76		0
	1	49	14.72	14.56	14.59	0-2	0
	25	0	14.44	14.43	14.27		0
	25	12	14.33	14.37	14.25		0
64QAM	25	25	14.41	14.30	14.11	0-2	0
	50	0	14.32	14.41	14.26		0
	1	0	14.76	14.63	14.38		0-2
	1	25	14.56	14.48	14.45	0	
	1	49	14.66	14.67	14.37	0	
	64QAM	25	0	14.48	14.47	14.25	0-3
25		12	14.31	14.36	14.27	0	
25		25	14.41	14.38	14.12	0	
50		0	14.39	14.40	14.24	0	

Table 8-136
LTE Band 66 Conducted Powers Ant 4a - 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	14.33	14.40	14.27	0	0
	1	12	14.20	14.32	14.14		0
	1	24	14.07	14.32	14.11		0
	12	0	14.32	14.36	14.22	0-1	0
	12	6	14.30	14.36	14.12		0
	12	13	14.21	14.41	14.08		0
16QAM	25	0	14.31	14.39	14.16	0-1	0
	1	0	14.78	14.62	14.53		0
	1	12	14.76	14.77	14.34		0
	1	24	14.60	14.80	14.31	0-2	0
	12	0	14.35	14.34	14.26		0
	12	6	14.32	14.31	14.10		0
64QAM	12	13	14.23	14.42	14.14	0-2	0
	25	0	14.36	14.33	14.14		0
	1	0	14.79	14.62	14.65		0-2
	1	12	14.74	14.76	14.49	0	
	1	24	14.68	14.66	14.42	0-3	
	12	0	14.36	14.36	14.25		0
12	6	14.33	14.36	14.08	0		
64QAM	12	13	14.26	14.36	14.12	0-3	0
	25	0	14.31	14.38	14.20		0

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Table 8-137
LTE Band 66 Conducted Powers Ant 4a - 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	14.37	14.20	13.96	0	0
	1	7	14.35	14.21	14.00		0
	1	14	14.25	14.28	13.96		0
	8	0	14.31	14.23	14.01	0-1	0
	8	4	14.29	14.20	13.98		0
	8	7	14.30	14.23	13.99		0
16QAM	15	0	14.29	14.24	14.02	0-1	0
	1	0	14.78	14.70	14.31		0
	1	7	14.62	14.55	14.31		0
	1	14	14.75	14.67	14.42	0-2	0
	8	0	14.37	14.24	14.09		0
	8	4	14.29	14.27	13.99		0
64QAM	8	7	14.31	14.25	14.05	0-2	0
	15	0	14.34	14.32	14.03		0
	1	0	14.68	14.37	14.19		0-2
	1	7	14.54	14.46	14.18	0	
	1	14	14.50	14.47	14.14	0-3	
	8	0	14.34	14.30	14.00		0
8	4	14.33	14.23	14.02	0		
64QAM	8	7	14.33	14.31	14.03	0-3	0
	15	0	14.37	14.30	14.03		0

Table 8-138
LTE Band 66 Conducted Powers Ant 4a - 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	14.45	14.28	14.06	0	0
	1	2	14.34	14.26	14.02		0
	1	5	14.35	14.27	14.03		0
	3	0	14.33	14.15	13.93		0
	3	2	14.24	14.13	13.88		0
	3	3	14.25	14.14	13.91		0
	6	0	14.34	14.21	14.00	0-1	0
16QAM	1	0	14.76	14.56	14.17	0-1	0
	1	2	14.46	14.44	14.31		0
	1	5	14.68	14.33	14.31		0
	3	0	14.49	14.29	14.06		0
	3	2	14.46	14.31	13.98		0
	3	3	14.46	14.37	13.91		0
	6	0	14.38	14.28	13.97	0-2	0
64QAM	1	0	14.70	14.63	14.28	0-2	0
	1	2	14.74	14.73	14.31		0
	1	5	14.75	14.65	14.49		0
	3	0	14.59	14.39	14.19		0
	3	2	14.53	14.36	14.11		0
	3	3	14.50	14.33	14.20		0
	6	0	14.36	14.29	14.08	0-3	0

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Table 8-139
LTE Band 66 Conducted Powers Ant 4a - 20 MHz Bandwidth, Inter-band ULCA Active

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	11.50	11.53	11.13	0	0
	1	50	11.51	11.41	11.25		0
	1	99	11.57	11.08	11.14		0
	50	0	11.43	11.34	11.30	0-1	0
	50	25	11.47	11.27	11.40		0
	50	50	11.51	11.18	11.31		0
16QAM	100	0	11.49	11.27	11.29	0-1	0
	1	0	11.60	11.25	11.14		0
	1	50	11.52	10.80	11.30		0
	1	99	11.64	10.84	11.18	0-2	0
	50	0	11.24	11.01	11.03		0
	50	25	11.23	11.05	11.05		0
64QAM	50	50	11.28	11.06	11.07	0-2	0
	100	0	11.23	11.07	11.10		0
	1	0	11.37	11.21	11.37		0-2
	1	50	11.30	10.90	11.60	0	
	1	99	11.40	10.87	11.36	0	
	50	0	11.22	11.01	11.14	0-3	0
50	25	11.23	10.94	11.12	0		
50	50	11.25	10.91	11.06	0		
	100	0	11.23	10.97	11.09		0

Table 8-140
LTE Band 66 Conducted Powers Ant 4a - 15 MHz Bandwidth, Inter-band ULCA Active

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	11.20	11.12	11.20	0	0
	1	36	11.19	11.12	11.28		0
	1	74	11.31	11.19	11.15		0
	36	0	11.19	11.22	11.15	0-1	0
	36	18	11.24	11.19	11.08		0
	36	37	11.29	11.23	11.07		0
	75	0	11.23	11.23	11.07		0
16QAM	1	0	11.10	11.20	11.15	0-1	0
	1	36	11.17	11.14	11.13		0
	1	74	11.45	11.19	10.70		0
	36	0	11.09	11.14	11.08	0-2	0
	36	18	11.14	11.13	11.03		0
	36	37	11.23	11.15	10.92		0
	75	0	11.13	11.13	11.00		0
64QAM	1	0	10.96	11.26	11.35	0-2	0
	1	36	11.02	10.96	11.31		0
	1	74	11.24	10.90	10.93		0
	36	0	10.94	11.02	11.22	0-3	0
	36	18	11.16	10.94	11.09		0
	36	37	11.23	10.89	11.02		0
	75	0	11.15	10.93	11.08		0

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Table 8-141
LTE Band 66 Conducted Powers Ant 4a - 10 MHz Bandwidth, Inter-band ULCA Active

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	10.84	11.06	11.05	0	0
	1	25	10.84	11.00	11.01		0
	1	49	11.18	10.90	10.80		0
	25	0	11.16	11.03	11.05	0-1	0
	25	12	11.11	10.96	11.02		0
	25	25	11.16	10.93	10.93		0
16QAM	50	0	11.12	10.96	10.99	0-1	0
	1	0	11.15	11.13	11.27		0
	1	25	11.10	10.92	11.02		0
	1	49	11.39	11.02	10.74	0-2	0
	25	0	11.19	11.04	11.07		0
	25	12	11.13	10.98	11.03		0
64QAM	25	25	11.21	10.95	10.92	0-2	0
	50	0	11.12	11.00	11.00		0
	1	0	10.81	11.22	11.28		0-2
	1	25	10.68	10.90	11.09	0	
	1	49	10.91	10.92	10.97	0	
	64QAM	25	0	10.73	10.96	10.93	0-3
25		12	10.65	10.84	10.91	0	
25		25	10.70	10.93	10.84	0	
50		0	10.64	11.02	10.91	0	

Table 8-142
LTE Band 66 Conducted Powers Ant 4a - 5 MHz Bandwidth, Inter-band ULCA Active

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	11.12	11.12	11.12	0	0
	1	12	11.11	11.07	10.93		0
	1	24	11.08	10.96	10.84		0
	12	0	11.24	11.16	11.19	0-1	0
	12	6	11.25	11.16	11.10		0
	12	13	11.29	11.15	11.05		0
16QAM	25	0	11.25	11.18	11.11	0-1	0
	1	0	11.23	11.13	11.34		0
	1	12	11.14	11.15	11.21		0
	1	24	11.17	11.03	11.02	0-2	0
	12	0	11.26	11.14	11.27		0
	12	6	11.26	11.13	11.13		0
64QAM	12	13	11.21	11.18	11.06	0-2	0
	12	0	11.24	11.16	11.11		0
	1	0	11.11	11.14	11.49		0-2
	1	12	11.02	11.00	11.27	0	
	1	24	11.00	10.98	11.19	0-3	
	12	0	11.03	10.99	11.25		0
12	6	11.01	10.96	11.11	0		
	12	13	10.96	11.04	11.08	0-3	0
	25	0	11.01	11.07	11.14		0

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Table 8-143
LTE Band 66 Conducted Powers Ant 4a - 3 MHz Bandwidth, Inter-band ULCA Active

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	11.04	10.91	10.99	0	0
	1	7	11.16	10.98	10.95		0
	1	14	11.08	10.94	10.84		0
	8	0	11.23	11.08	11.05	0-1	0
	8	4	11.27	11.06	11.03		0
	8	7	11.26	11.07	11.02		0
	15	0	11.27	11.06	11.03		0
16QAM	1	0	11.27	11.02	11.09	0-1	0
	1	7	11.33	11.08	11.22		0
	1	14	11.14	10.99	10.99		0
	8	0	11.24	11.14	11.16	0-2	0
	8	4	11.34	11.05	11.08		0
	8	7	11.23	11.14	11.04		0
	15	0	11.27	11.07	11.03		0
64QAM	1	0	11.15	11.36	11.32	0-2	0
	1	7	11.23	11.42	11.33		0
	1	14	11.15	11.33	11.21		0
	8	0	11.14	11.32	11.20	0-3	0
	8	4	11.14	11.29	11.18		0
	8	7	11.16	11.29	11.16		0
	15	0	11.15	11.30	11.19		0

Table 8-144
LTE Band 66 Conducted Powers Ant 4a - 1.4 MHz Bandwidth, Inter-band ULCA Active

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	11.14	11.18	11.15	0	0
	1	2	11.11	11.16	11.10		0
	1	5	11.17	11.12	11.10		0
	3	0	11.10	11.08	11.03		0
	3	2	11.10	11.03	10.98		0
	3	3	11.11	11.05	10.98		0
	6	0	11.07	11.05	11.03	0-1	0
16QAM	1	0	11.15	11.20	11.20	0-1	0
	1	2	11.12	11.25	11.12		0
	1	5	11.23	11.23	11.14		0
	3	0	11.21	11.22	11.08		0
	3	2	11.16	11.19	11.19		0
	3	3	11.17	11.20	11.16		0
	6	0	11.13	11.10	11.14	0-2	0
64QAM	1	0	11.29	11.24	11.25	0-2	0
	1	2	11.22	11.20	11.24		0
	1	5	11.31	11.16	11.17		0
	3	0	11.25	11.16	11.21		0
	3	2	11.24	11.13	11.17		0
	3	3	11.24	11.15	11.17		0
	6	0	11.15	11.12	11.14	0-3	0

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Table 8-145
LTE Band 66 Conducted Powers Ant 4b - 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	13.48	13.30	13.14	0	0
	1	50	13.50	13.40	13.12		0
	1	99	13.31	13.40	13.10		0
	50	0	13.49	13.28	13.27	0-1	0
	50	25	13.48	13.38	13.33		0
	50	50	13.39	13.43	13.27		0
16QAM	100	0	13.47	13.36	13.30	0-1	0
	1	0	13.30	13.22	13.16		0
	1	50	13.40	13.19	13.07		0
	1	99	13.12	13.32	12.97	0-2	0
	50	0	13.00	12.91	12.85		0
	50	25	13.00	12.95	12.83		0
64QAM	50	50	12.95	13.08	12.82	0-2	0
	100	0	13.00	12.92	12.80		0
	1	0	13.39	13.49	13.38		0-2
	1	50	13.47	13.48	13.32	0	
	1	99	13.26	13.50	13.10	0	
	50	0	13.14	13.12	13.11	0-3	0
50	25	13.10	13.16	13.10	0		
50	50	13.10	13.25	13.00	0		
	100	0	13.12	13.09	13.06		0

Table 8-146
LTE Band 66 Conducted Powers Ant 4b - 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	13.46	13.28	12.92	0	0
	1	36	13.47	13.37	13.07		0
	1	74	13.27	13.36	13.05		0
	36	0	13.44	13.23	13.22	0-1	0
	36	18	13.42	13.32	13.28		0
	36	37	13.32	13.36	13.22		0
	75	0	13.39	13.28	13.25	0	
16QAM	1	0	13.42	13.13	13.11	0-1	0
	1	36	13.43	13.16	13.02		0
	1	74	13.23	13.32	12.92		0
	36	0	13.40	12.91	12.80	0-2	0
	36	18	13.38	12.95	12.78		0
	36	37	13.28	13.08	12.78		0
	75	0	13.35	12.92	12.76	0	
64QAM	1	0	13.17	13.49	13.34	0-2	0
	1	36	13.26	13.48	13.28		0
	1	74	13.37	13.50	13.06		0
	36	0	13.38	13.03	13.07	0-3	0
	36	18	13.18	13.06	13.06		0
	36	37	13.35	13.14	12.96		0
	75	0	13.33	12.97	13.02	0	

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Table 8-147
LTE Band 66 Conducted Powers Ant 4b - 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	13.30	13.14	13.22	0	0
	1	25	13.24	13.21	13.17		0
	1	49	13.22	13.32	13.21		0
	25	0	13.35	13.19	13.29	0-1	0
	25	12	13.32	13.30	13.25		0
	25	25	13.33	13.40	13.30		0
16QAM	50	0	13.35	13.30	13.28	0-1	0
	1	0	13.26	13.26	12.98		0
	1	25	13.25	13.21	12.97		0
	1	49	13.25	13.22	13.25	0-2	0
	25	0	13.16	13.05	13.09		0
	25	12	13.15	13.12	12.99		0
64QAM	25	25	13.15	13.20	13.05	0-2	0
	50	0	13.15	13.14	13.03		0
	1	0	13.11	13.21	13.17		0-2
	1	25	13.12	13.22	13.11	0	
	1	49	13.21	13.17	13.30	0-3	
	25	0	13.25	13.18	13.26		0
25	12	13.23	13.23	13.13	0		
64QAM	25	25	13.27	13.26	13.15	0-3	0
	50	0	13.19	13.19	13.20		0

Table 8-148
LTE Band 66 Conducted Powers Ant 4b - 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	13.37	13.10	12.94	0	0
	1	12	13.34	13.18	12.97		0
	1	24	13.35	13.34	13.12		0
	12	0	13.36	13.17	13.13	0-1	0
	12	6	13.34	13.23	13.16		0
	12	13	13.34	13.31	13.20		0
	25	0	13.35	13.28	13.18	0	
16QAM	1	0	13.31	13.29	13.14	0-1	0
	1	12	13.33	13.25	13.16		0
	1	24	13.32	13.31	13.21		0
	12	0	13.30	13.17	13.19	0-2	0
	12	6	13.27	13.11	13.28		0
	12	13	13.25	13.16	13.27		0
	25	0	13.31	13.21	13.19	0	
64QAM	1	0	13.17	13.21	13.25	0-2	0
	1	12	13.15	13.20	13.14		0
	1	24	13.16	13.39	13.15		0
	12	0	13.21	13.34	13.19	0-3	0
	12	6	13.22	13.35	13.21		0
	12	13	13.23	13.37	13.22		0
	25	0	13.25	13.29	13.21	0	

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Table 8-149
LTE Band 66 Conducted Powers Ant 4b - 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	13.19	13.05	13.07	0	0
	1	7	13.25	13.20	13.14		0
	1	14	13.22	13.20	13.17		0
	8	0	13.33	13.17	13.21	0-1	0
	8	4	13.31	13.27	13.21		0
	8	7	13.34	13.27	13.22		0
16QAM	15	0	13.35	13.29	13.22	0	
	1	0	13.31	13.29	13.26	0-1	0
	1	7	13.34	13.27	13.21		0
	1	14	13.27	13.31	13.25		0-2
	8	0	13.25	13.27	13.24	0	
	8	4	13.26	13.18	13.26	0	
64QAM	8	7	13.27	13.21	13.25	0-2	0
	15	0	13.29	13.25	13.27		0
	1	0	13.31	13.26	13.25		0-2
	1	7	13.33	13.17	13.29	0	
	1	14	13.19	13.19	13.35	0	
	8	0	13.21	13.21	13.37	0-3	0
8	4	13.25	13.22	13.39	0		
8	7	13.28	13.23	13.21	0		
	15	0	13.21	13.31	13.25		0

Table 8-150
LTE Band 66 Conducted Powers Ant 4b - 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	13.28	13.24	13.26	0	0
	1	2	13.26	13.21	13.25		0
	1	5	13.29	13.28	13.40		0
	3	0	13.38	13.28	13.21		0
	3	2	13.35	13.30	13.21		0
	3	3	13.36	13.32	13.30		0
	6	0	13.36	13.31	13.24	0-1	0
16QAM	1	0	13.31	13.26	13.19	0-1	0
	1	2	13.29	13.24	13.25		0
	1	5	13.39	13.15	13.17		0
	3	0	13.21	13.18	13.26		0
	3	2	13.19	13.23	13.21		0
	3	3	13.27	13.21	13.31		0
	6	0	13.39	13.25	13.28	0-2	0
64QAM	1	0	13.38	13.19	13.20	0-2	0
	1	2	13.42	13.25	13.25		0
	1	5	13.36	13.29	13.27		0
	3	0	13.29	13.31	13.21		0
	3	2	13.19	13.25	13.22		0
	3	3	13.25	13.21	13.23		0
	6	0	13.26	13.20	13.25	0-3	0

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Table 8-151
LTE Band 66 Conducted Powers Ant 4b - 20 MHz Bandwidth, Inter-band ULCA Active

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	9.93	9.92	10.05	0	0
	1	50	9.87	10.06	9.97		0
	1	99	9.90	10.50	10.20		0
	50	0	10.08	10.07	9.93	0-1	0
	50	25	10.01	10.24	9.89		0
	50	50	9.90	10.45	9.90		0
16QAM	100	0	9.90	10.39	9.90	0-1	0
	1	0	10.30	10.06	10.19		0
	1	50	10.13	10.22	9.89		0
	1	99	10.00	10.34	10.20	0-2	0
	50	0	10.10	10.08	9.84		0
	50	25	10.04	10.15	9.70		0
64QAM	50	50	9.95	10.15	9.83	0-2	0
	100	0	10.05	10.30	9.75		0
	1	0	10.12	10.09	10.11		0-2
	1	50	10.00	10.30	10.07	0	
	1	99	9.75	10.46	10.31	0-3	
	50	0	9.97	10.27	9.97		0
50	25	10.00	10.30	9.90	0		
64QAM	50	50	9.91	10.45	10.00	0-3	0
	100	0	10.04	10.40	9.70		0

Table 8-152
LTE Band 66 Conducted Powers Ant 4b - 15 MHz Bandwidth, Inter-band ULCA Active

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	9.88	10.05	9.74	0	0
	1	36	9.79	10.18	9.69		0
	1	74	9.58	10.16	9.86		0
	36	0	9.91	10.12	9.68	0-1	0
	36	18	9.88	10.23	9.77		0
	36	37	9.79	10.26	9.80		0
16QAM	75	0	9.90	10.22	9.76	0-1	0
	1	0	10.02	10.24	9.63		0
	1	36	9.97	10.37	9.73		0
	1	74	9.68	10.35	10.07	0-2	0
	36	0	9.97	10.15	9.78		0
	36	18	9.86	10.04	9.80		0
64QAM	36	37	9.77	10.14	9.81	0-2	0
	75	0	9.85	10.05	9.79		0
	1	0	9.85	10.05	9.70	0-2	0
	1	36	9.64	10.45	9.94		0
	1	74	9.66	10.19	10.22	0-3	0
	36	0	9.68	10.05	9.51		0
36	18	9.67	10.19	9.60	0		
36	37	9.60	10.19	9.66	0		
	75	0	9.68	10.14	9.57		0

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Table 8-153
LTE Band 66 Conducted Powers Ant 4b - 10 MHz Bandwidth, Inter-band ULCA Active

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	9.75	10.21	9.90	0	0
	1	25	9.84	10.15	9.95		0
	1	49	10.04	10.24	10.01		0
	25	0	10.05	10.04	9.91	0-1	0
	25	12	10.05	10.17	9.96		0
	25	25	10.07	10.26	9.98		0
16QAM	50	0	10.06	10.16	9.98	0-1	0
	1	0	9.98	10.08	9.92		0
	1	25	10.13	10.16	10.04		0
	1	49	10.13	10.26	9.99	0-2	0
	25	0	10.07	10.04	9.92		0
	25	12	10.10	10.20	9.96		0
64QAM	25	25	10.12	10.27	10.00	0-2	0
	50	0	10.10	10.19	9.98		0
	1	0	10.05	10.17	10.00		0-3
	1	25	9.96	10.27	10.20	0	
	1	49	10.01	10.41	10.35	0	
	25	0	9.86	9.87	9.68	0-3	0
25	12	9.86	10.06	9.75	0		
25	25	9.90	10.15	9.84	0		
	50	0	9.88	10.06	9.72		0

Table 8-154
LTE Band 66 Conducted Powers Ant 4b - 5 MHz Bandwidth, Inter-band ULCA Active

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	10.03	10.08	9.95	0	0
	1	12	10.04	10.14	9.95		0
	1	24	10.04	10.19	10.06		0
	12	0	10.17	10.04	10.11	0-1	0
	12	6	10.18	10.16	10.18		0
	12	13	10.21	10.13	10.17		0
16QAM	25	0	10.21	10.13	10.17	0-1	0
	1	0	10.21	10.17	10.19		0
	1	12	10.16	10.23	10.14		0
	1	24	10.24	10.39	10.13	0-2	0
	12	0	10.19	10.09	10.12		0
	12	6	10.25	10.18	10.13		0
64QAM	12	13	10.26	10.17	10.14	0-2	0
	25	0	10.27	10.20	10.18		0
	1	0	10.16	9.93	10.23		0-2
	1	12	10.09	10.18	10.36	0	
	1	24	10.24	10.16	10.33	0	
	64QAM	12	0	10.08	9.92	9.98	0-3
12		6	10.09	9.98	10.07	0	
12		13	10.14	9.99	10.16	0	
25		0	10.04	10.02	10.08		0

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Table 8-155

LTE Band 66 Conducted Powers Ant 4b - 3 MHz Bandwidth, Inter-band ULCA Active

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	9.97	10.01	9.95	0	0
	1	7	9.99	10.17	10.03		0
	1	14	9.99	10.11	9.97		0
	8	0	10.11	10.17	10.06	0-1	0
	8	4	10.11	10.26	10.06		0
	8	7	10.12	10.26	10.14		0
16QAM	15	0	10.12	10.26	10.07	0-1	0
	1	0	10.11	10.22	9.98		0
	1	7	10.18	10.32	10.01		0
	1	14	9.98	10.25	9.91	0-2	0
	8	0	10.17	10.22	10.12		0
	8	4	10.13	10.32	10.08		0
64QAM	8	7	10.15	10.32	10.19	0-2	0
	15	0	10.18	10.32	10.09		0
	1	0	9.95	10.28	10.00		0-2
	1	7	9.95	10.34	10.03	0	
	1	14	10.08	10.21	10.11	0	
	8	0	9.98	10.17	9.85	0-3	0
8	4	9.98	10.25	9.85	0		
8	7	9.95	10.26	9.91	0		
	15	0	9.97	10.22	9.86		0

Table 8-156

LTE Band 66 Conducted Powers Ant 4b - 1.4 MHz Bandwidth, Inter-band ULCA Active

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	10.09	10.27	10.02	0	0
	1	2	10.01	10.26	9.98		0
	1	5	10.03	10.28	9.96		0
	3	0	9.99	10.18	9.92		0
	3	2	9.99	10.18	9.89		0
	3	3	9.99	10.15	9.92		0
	6	0	9.99	10.18	9.91	0-1	0
16QAM	1	0	10.16	10.17	10.02	0-1	0
	1	2	10.07	10.17	10.07		0
	1	5	10.12	10.16	10.03		0
	3	0	10.09	10.24	10.06		0
	3	2	10.09	10.34	10.04		0
	3	3	10.11	10.30	10.04		0
	6	0	10.03	10.24	9.97	0-2	0
64QAM	1	0	10.17	10.27	9.89	0-2	0
	1	2	10.18	10.14	9.84		0
	1	5	10.19	10.11	9.83		0
	3	0	10.03	10.16	9.90		0
	3	2	10.07	10.19	9.83		0
	3	3	9.99	10.17	9.83		0
	6	0	10.15	10.16	9.86	0-3	0

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LTE Band 2

Table 8-157
LTE Band 2 Conducted Powers Ant 2a - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.56	14.81	14.93	0	0
	1	50	14.64	14.70	14.83		0
	1	99	14.77	14.99	15.00		0
	50	0	14.73	14.79	14.89	0-1	0
	50	25	14.84	14.71	14.81		0
	50	50	14.92	14.78	14.99		0
16QAM	100	0	14.84	14.73	14.91	0	
	1	0	14.69	14.76	14.97	0-1	0
	1	50	14.77	14.67	14.93		0
	1	99	14.95	14.97	15.00		0
	50	0	14.58	14.54	14.62	0-2	0
	50	25	14.64	14.47	14.61		0
50	50	14.70	14.60	14.72	0		
64QAM	100	0	14.71	14.50	14.62	0	
	1	0	14.81	14.98	14.95	0-2	0
	1	50	14.82	14.73	14.88		0
	1	99	14.86	15.00	15.00		0
	50	0	14.68	14.64	14.70	0-3	0
	50	25	14.71	14.51	14.68		0
50	50	14.71	14.70	14.88	0		
100	0	14.75	14.52	14.71	0		

Table 8-158
LTE Band 2 Conducted Powers Ant 2a - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.57	14.60	14.72	0	0
	1	36	14.70	14.38	14.69		0
	1	74	14.68	14.65	14.98		0
	36	0	14.56	14.45	14.75	0-1	0
	36	18	14.72	14.42	14.74		0
	36	37	14.68	14.57	14.92		0
16QAM	75	0	14.73	14.43	14.75	0-1	0
	1	0	14.81	14.90	14.94		0
	1	36	14.90	14.64	14.93		0
	1	74	14.94	14.90	14.99	0-2	0
	36	0	14.60	14.50	14.80		0
	36	18	14.76	14.45	14.77		0
64QAM	36	37	14.73	14.60	14.95	0-2	0
	75	0	14.77	14.46	14.77		0
	1	0	14.80	14.84	14.90		0-2
	1	36	14.97	14.68	14.92	0	
	1	74	14.86	14.91	14.98	0-3	
	36	0	14.59	14.50	14.79		0
36	18	14.78	14.46	14.77	0		
	36	37	14.72	14.61	14.95	0-3	0
	75	0	14.77	14.46	14.76		0

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Table 8-159
LTE Band 2 Conducted Powers Ant 2a - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.60	14.68	14.69	0	0
	1	25	14.59	14.52	14.80		0
	1	49	14.78	14.73	14.94		0
	25	0	14.62	14.55	14.67	0-1	0
	25	12	14.60	14.52	14.82		0
	25	25	14.78	14.61	14.99		0
16QAM	50	0	14.61	14.52	14.85	0-1	0
	1	0	14.83	14.80	14.97		0
	1	25	14.84	14.74	14.92		0
	1	49	14.95	14.89	14.98	0-2	0
	25	0	14.66	14.59	14.70		0
	25	12	14.64	14.56	14.84		0
64QAM	25	25	14.84	14.65	14.97	0-2	0
	50	0	14.63	14.55	14.83		0
	1	0	14.79	14.90	14.88		0-3
	1	25	14.79	14.75	14.92	0	
	1	49	14.93	14.97	15.00	0	
	25	0	14.65	14.59	14.69	0-3	0
25	12	14.63	14.56	14.73	0		
25	25	14.83	14.65	14.90	0		
	50	0	14.65	14.57	14.68		0

Table 8-160
LTE Band 2 Conducted Powers Ant 2a - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.57	14.53	14.69	0	0
	1	12	14.47	14.48	14.83		0
	1	24	14.47	14.60	14.84		0
	12	0	14.50	14.51	14.73	0-1	0
	12	6	14.49	14.49	14.85		0
	12	13	14.41	14.49	14.89		0
16QAM	25	0	14.48	14.51	14.86	0-1	0
	1	0	14.72	14.72	14.86		0
	1	12	14.68	14.66	14.99		0
	1	24	14.69	14.73	14.91	0-2	0
	12	0	14.50	14.48	14.78		0
	12	6	14.49	14.45	14.89		0
64QAM	12	13	14.42	14.46	14.93	0-2	0
	25	0	14.46	14.45	14.90		0
	1	0	14.71	14.73	14.93		0-2
	1	12	14.58	14.67	14.90	0	
	1	24	14.65	14.72	15.00	0	
	12	0	14.48	14.48	14.77	0-3	0
12	6	14.46	14.45	14.89	0		
12	13	14.40	14.45	14.92	0		
	25	0	14.45	14.42	14.87		0

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Table 8-161
LTE Band 2 Conducted Powers Ant 2a - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.49	14.50	14.61	0	0
	1	7	14.51	14.52	14.70		0
	1	14	14.40	14.56	14.60		0
	8	0	14.48	14.54	14.63	0-1	0
	8	4	14.46	14.50	14.65		0
	8	7	14.46	14.52	14.66		0
16QAM	15	0	14.47	14.53	14.69		0
	1	0	14.68	14.71	14.98	0-1	0
	1	7	14.67	14.71	14.95		0
	1	14	14.59	14.58	14.97		0
	8	0	14.51	14.46	14.67	0-2	0
	8	4	14.43	14.44	14.64		0
8	7	14.44	14.46	14.66	0		
64QAM	15	0	14.38	14.42	14.66		0
	1	0	14.79	14.66	14.98	0-2	0
	1	7	14.65	14.67	15.00		0
	1	14	14.79	14.42	14.98		0
	8	0	14.39	14.43	14.68	0-3	0
	8	4	14.40	14.43	14.71		0
8	7	14.39	14.43	14.67	0		
	15	0	14.39	14.42	14.73		0

Table 8-162
LTE Band 2 Conducted Powers Ant 2a - 1.4 MHz Bandwidth

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.51	14.54	14.81	0	0
	1	2	14.48	14.51	14.79		0
	1	5	14.53	14.52	14.75		0
	3	0	14.55	14.52	14.68		0
	3	2	14.56	14.51	14.72		0
	3	3	14.55	14.52	14.63		0
	6	0	14.55	14.52	14.76	0-1	0
16QAM	1	0	14.89	14.64	14.97	0-1	0
	1	2	14.85	14.53	15.00		0
	1	5	14.64	14.33	14.96		0
	3	0	14.38	14.36	14.89		0
	3	2	14.45	14.37	14.86		0
	3	3	14.37	14.36	14.85		0
	6	0	14.42	14.37	14.83	0-2	0
64QAM	1	0	14.65	14.73	15.00	0-2	0
	1	2	14.90	14.42	14.98		0
	1	5	14.75	14.75	14.97		0
	3	0	14.40	14.49	14.77		0
	3	2	14.45	14.48	14.90		0
	3	3	14.31	14.52	14.69		0
	6	0	14.34	14.45	14.85	0-3	0

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Table 8-163

LTE Band 2 Conducted Powers Ant 2a - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.63	11.75	11.87	0	0
	1	50	11.75	11.61	11.76		0
	1	99	11.91	11.82	12.00		0
	50	0	11.66	11.78	11.76	0-1	0
	50	25	11.71	11.73	11.73		0
	50	50	11.87	11.74	11.94		0
16QAM	100	0	11.81	11.73	11.78	0-1	0
	1	0	11.56	11.66	11.85		0
	1	50	11.63	11.70	11.69		0
	1	99	11.68	11.79	11.94	0-2	0
	50	0	11.38	11.54	11.58		0
	50	25	11.47	11.47	11.55		0
64QAM	50	50	11.56	11.51	11.68	0-2	0
	100	0	11.57	11.50	11.62		0
	1	0	11.47	11.62	11.69		0-2
	1	50	11.63	11.68	11.53	0	
	1	99	11.70	11.91	11.80	0	
	50	0	11.47	11.50	11.58	0-3	0
50	25	11.49	11.46	11.51	0		
50	50	11.62	11.54	11.56	0		
	100	0	11.57	11.47	11.58		0

Table 8-164

LTE Band 2 Conducted Powers Ant 2a - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.42	11.44	11.37	0	0
	1	36	11.52	11.33	11.36		0
	1	74	11.62	11.55	11.73		0
	36	0	11.30	11.41	11.50	0-1	0
	36	18	11.54	11.39	11.48		0
	36	37	11.52	11.50	11.68		0
16QAM	75	0	11.60	11.37	11.50	0-1	0
	1	0	11.52	11.52	11.49		0
	1	36	11.83	11.41	11.44		0
	1	74	11.75	11.71	11.93	0-2	0
	36	0	11.42	11.45	11.49		0
	36	18	11.60	11.39	11.51		0
64QAM	36	37	11.54	11.52	11.69	0-2	0
	75	0	11.60	11.39	11.52		0
	1	0	11.68	11.50	11.84		0-2
	1	36	11.53	11.55	11.53	0	
	1	74	11.79	11.66	12.00	0-3	
	36	0	11.38	11.44	11.53		0
36	18	11.56	11.42	11.54	0		
64QAM	36	37	11.50	11.53	11.70	0-3	0
	75	0	11.58	11.41	11.53		0

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Table 8-165

LTE Band 2 Conducted Powers Ant 2a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.36	11.38	11.42	0	0
	1	25	11.30	11.28	11.51		0
	1	49	11.42	11.49	11.62		0
	25	0	11.44	11.38	11.53	0-1	0
	25	12	11.40	11.35	11.59		0
	25	25	11.53	11.40	11.79		0
16QAM	50	0	11.40	11.37	11.63	0-1	0
	1	0	11.47	11.49	11.70		0
	1	25	11.47	11.35	11.74		0
	1	49	11.57	11.59	11.84	0-2	0
	25	0	11.42	11.40	11.54		0
	25	12	11.38	11.38	11.61		0
64QAM	25	25	11.56	11.42	11.82	0-2	0
	50	0	11.42	11.37	11.65		0
	1	0	11.48	11.52	11.88		0-2
	1	25	11.46	11.37	11.96	0	
	1	49	11.56	11.61	11.99	0-3	
	25	0	11.48	11.34	11.57		0
25	12	11.44	11.33	11.59	0		
64QAM	25	25	11.60	11.43	11.85	0-3	0
	50	0	11.42	11.37	11.64		0

Table 8-166

LTE Band 2 Conducted Powers Ant 2a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.36	11.54	11.42	0	0
	1	12	11.32	11.43	11.62		0
	1	24	11.28	11.53	11.62		0
	12	0	11.39	11.42	11.60	0-1	0
	12	6	11.38	11.39	11.71		0
	12	13	11.21	11.38	11.78		0
16QAM	25	0	11.35	11.41	11.72	0-1	0
	1	0	11.57	11.67	11.48		0
	1	12	11.50	11.48	11.74		0
	1	24	11.45	11.70	11.71	0-2	0
	12	0	11.35	11.43	11.57		0
	12	6	11.34	11.40	11.67		0
64QAM	12	13	11.22	11.38	11.78	0-2	0
	25	0	11.41	11.44	11.74		0
	1	0	11.52	11.62	11.69		0-2
	1	12	11.57	11.50	11.92	0	
	1	24	11.50	11.68	11.90	0-3	
	12	0	11.47	11.34	11.59		0
12	6	11.47	11.30	11.71	0		
	12	13	11.32	11.32	11.80		0
	25	0	11.44	11.33	11.73		0

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Table 8-167
LTE Band 2 Conducted Powers Ant 2a - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.37	11.33	11.55	0	0
	1	7	11.42	11.34	11.65		0
	1	14	11.32	11.31	11.53		0
	8	0	11.44	11.38	11.69	0-1	0
	8	4	11.46	11.37	11.71		0
	8	7	11.46	11.36	11.65		0
16QAM	15	0	11.48	11.40	11.70	0-1	0
	1	0	11.47	11.57	11.70		0
	1	7	11.57	11.57	11.81		0
	1	14	11.52	11.40	11.52	0-2	0
	8	0	11.46	11.41	11.73		0
	8	4	11.53	11.42	11.70		0
64QAM	8	7	11.43	11.40	11.63	0-2	0
	15	0	11.43	11.42	11.72		0
	1	0	11.57	11.40	11.83		0-2
	1	7	11.60	11.44	11.94	0	
	1	14	11.56	11.39	11.75	0	
	8	0	11.39	11.42	11.71	0-3	0
8	4	11.48	11.39	11.71	0		
8	7	11.44	11.35	11.66	0		
	15	0	11.42	11.36	11.71		0

Table 8-168
LTE Band 2 Conducted Powers Ant 2a - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.44	11.34	11.82	0	0
	1	2	11.37	11.31	11.80		0
	1	5	11.39	11.33	11.70		0
	3	0	11.46	11.36	11.57		0
	3	2	11.41	11.36	11.59		0
	3	3	11.40	11.37	11.54	0	
	6	0	11.41	11.31	11.60	0-1	0
16QAM	1	0	11.50	11.44	11.79	0-1	0
	1	2	11.56	11.40	11.63		0
	1	5	11.58	11.38	11.65		0
	3	0	11.54	11.42	11.68		0
	3	2	11.53	11.36	11.57		0
	3	3	11.52	11.42	11.62	0	
	6	0	11.48	11.37	11.69	0-2	0
64QAM	1	0	11.62	11.46	11.65	0-2	0
	1	2	11.53	11.48	11.71		0
	1	5	11.48	11.45	11.61		0
	3	0	11.52	11.39	11.58		0
	3	2	11.45	11.28	11.75		0
	3	3	11.54	11.34	11.66	0	
	6	0	11.43	11.30	11.59	0-3	0

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Table 8-169
LTE Band 2 Conducted Powers Ant 2b - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.24	13.26	13.65	0	0
	1	50	13.24	13.25	13.53		0
	1	99	13.31	13.32	13.99		0
	50	0	13.37	13.37	13.52	0-1	0
	50	25	13.38	13.40	13.54		0
	50	50	13.48	13.48	13.71		0
16QAM	100	0	13.47	13.45	13.62	0-1	0
	1	0	13.25	13.23	13.72		0
	1	50	13.31	13.18	13.61		0
	1	99	13.49	13.45	13.99	0-2	0
	50	0	13.18	13.14	13.28		0
	50	25	13.13	13.15	13.33		0
64QAM	50	50	13.28	13.24	13.51	0-2	0
	100	0	13.15	13.15	13.38		0
	1	0	13.17	13.41	13.67		0-2
	1	50	13.09	13.33	13.61	0	
	1	99	13.45	13.51	13.98	0-3	
	50	0	13.12	13.19	13.28		0
50	25	13.17	13.15	13.40	0		
	50	50	13.29	13.23	13.54		0
	100	0	13.21	13.16	13.45		0

Table 8-170
LTE Band 2 Conducted Powers Ant 2b - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.24	13.39	13.35	0	0
	1	36	13.18	13.41	13.27		0
	1	74	13.46	13.66	13.71		0
	36	0	13.08	13.37	13.47	0-1	0
	36	18	13.23	13.32	13.39		0
	36	37	13.33	13.40	13.59		0
16QAM	75	0	13.26	13.26	13.43	0-1	0
	1	0	13.37	13.44	13.42		0
	1	36	13.34	13.49	13.27		0
	1	74	13.61	13.89	13.84	0-2	0
	36	0	13.10	13.40	13.48		0
	36	18	13.26	13.36	13.40		0
64QAM	36	37	13.36	13.46	13.61	0-2	0
	75	0	13.26	13.27	13.45		0
	1	0	13.24	13.41	13.43		0-2
	1	36	13.43	13.36	13.78	0	
	1	74	13.56	13.60	13.89	0-3	
	36	0	13.03	13.07	13.28		0
36	18	13.27	13.09	13.48	0		
64QAM	36	37	13.20	13.18	13.61	0-3	0
	75	0	13.28	13.11	13.48		0

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Table 8-171
LTE Band 2 Conducted Powers Ant 2b - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.23	13.35	13.36	0	0
	1	25	13.07	13.23	13.50		0
	1	49	13.28	13.49	13.81		0
	25	0	13.18	13.43	13.38	0-1	0
	25	12	13.11	13.37	13.51		0
	25	25	13.23	13.39	13.79		0
16QAM	50	0	13.13	13.24	13.61	0-1	0
	1	0	13.38	13.51	13.50		0
	1	25	13.20	13.41	13.76		0
	1	49	13.41	13.65	13.94	0-2	0
	25	0	13.26	13.46	13.42		0
	25	12	13.15	13.39	13.55		0
64QAM	25	25	13.27	13.43	13.76	0-2	0
	50	0	13.15	13.28	13.64		0
	1	0	13.38	13.58	13.83		0-2
	1	25	13.47	13.49	13.97	0	
	1	49	13.53	13.55	13.91	0	
	64QAM	25	0	13.10	13.17	13.52	0-3
25		12	13.03	13.25	13.60	0	
25		25	13.28	13.23	13.65	0	
50		0	13.12	13.22	13.61	0	

Table 8-172
LTE Band 2 Conducted Powers Ant 2b - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.44	13.42	13.46	0	0
	1	12	13.32	13.30	13.62		0
	1	24	13.22	13.45	13.64		0
	12	0	13.39	13.41	13.64	0-1	0
	12	6	13.27	13.37	13.71		0
	12	13	13.15	13.39	13.82		0
16QAM	25	0	13.26	13.32	13.76	0-1	0
	1	0	13.45	13.56	13.66		0
	1	12	13.39	13.49	13.72		0
	1	24	13.25	13.56	13.80	0-2	0
	12	0	13.38	13.46	13.66		0
	12	6	13.27	13.48	13.74		0
64QAM	12	13	13.18	13.46	13.86	0-2	0
	25	0	13.29	13.31	13.77		0
	1	0	13.45	13.13	14.00	0-2	0
	1	12	13.41	13.35	13.98		0
	1	24	13.37	13.57	13.94	0-3	0
	12	0	13.22	13.14	13.59		0
12	6	13.10	13.13	13.74	0		
64QAM	12	13	13.15	13.10	13.71	0-3	0
	25	0	13.14	13.15	13.71		0

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Table 8-173
LTE Band 2 Conducted Powers Ant 2b - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.22	13.27	13.53	0	0
	1	7	13.27	13.21	13.69		0
	1	14	13.09	13.24	13.60		0
	8	0	13.26	13.32	13.71	0-1	0
	8	4	13.26	13.24	13.76		0
	8	7	13.17	13.24	13.76		0
15	0	13.28	13.28	13.77	0		
16QAM	1	0	13.22	13.38	13.73	0-1	0
	1	7	13.17	13.35	13.89		0
	1	14	13.25	13.35	13.86		0
	8	0	13.24	13.42	13.74	0-2	0
	8	4	13.31	13.27	13.82		0
	8	7	13.21	13.35	13.76		0
15	0	13.26	13.33	13.82	0		
64QAM	1	0	13.45	13.23	13.93	0-2	0
	1	7	13.42	13.40	13.99		0
	1	14	13.45	13.30	13.97		0
	8	0	13.15	13.10	13.70	0-3	0
	8	4	13.13	13.15	13.76		0
	8	7	13.15	13.17	13.67		0
15	0	13.19	13.15	13.74	0		

Table 8-174
LTE Band 2 Conducted Powers Ant 2b - 1.4 MHz Bandwidth

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.33	13.35	13.85	0	0
	1	2	13.27	13.33	13.82		0
	1	5	13.37	13.29	13.79		0
	3	0	13.36	13.35	13.71		0
	3	2	13.32	13.30	13.74		0
	3	3	13.34	13.30	13.75		0
	6	0	13.31	13.31	13.73	0-1	0
16QAM	1	0	13.37	13.45	13.94	0-1	0
	1	2	13.29	13.49	13.91		0
	1	5	13.55	13.53	13.88		0
	3	0	13.45	13.52	13.71		0
	3	2	13.37	13.49	13.79		0
	3	3	13.38	13.44	13.84		0
	6	0	13.37	13.39	13.74	0-2	0
64QAM	1	0	13.50	13.23	13.97	0-2	0
	1	2	13.42	13.20	13.86		0
	1	5	13.47	13.40	13.91		0
	3	0	13.15	13.16	13.73		0
	3	2	13.14	13.19	13.76		0
	3	3	13.15	13.21	13.70		0
	6	0	13.17	13.25	13.68	0-3	0

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Table 8-175

LTE Band 2 Conducted Powers Ant 2b - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.31	10.56	10.65	0	0
	1	50	10.26	10.53	10.48		0
	1	99	10.47	10.58	11.00		0
	50	0	10.26	10.45	10.43	0-1	0
	50	25	10.35	10.42	10.39		0
	50	50	10.43	10.48	10.63		0
16QAM	100	0	10.42	10.44	10.56	0-1	0
	1	0	10.13	10.46	10.70		0
	1	50	10.18	10.49	10.63		0
	1	99	10.48	10.58	10.80	0-2	0
	50	0	10.00	10.31	10.43		0
	50	25	10.05	10.26	10.43		0
64QAM	50	50	10.24	10.29	10.52	0-2	0
	100	0	10.23	10.24	10.45		0
	1	0	10.18	10.36	10.66		0-2
	1	50	10.22	10.42	10.59	0	
	1	99	10.63	10.51	10.96	0	
	64QAM	50	0	10.01	10.23	10.26	0-3
50		25	10.11	10.24	10.27	0	
50		50	10.24	10.28	10.38	0	
100		0	10.25	10.26	10.38		0

Table 8-176

LTE Band 2 Conducted Powers Ant 2b - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.37	10.19	10.55	0	0
	1	36	10.49	10.16	10.39		0
	1	74	10.74	10.41	10.53		0
	36	0	10.31	10.30	10.70	0-1	0
	36	18	10.42	10.25	10.50		0
	36	37	10.52	10.39	10.58		0
	75	0	10.43	10.22	10.49		0
16QAM	1	0	10.49	10.22	10.76	0-1	0
	1	36	10.63	10.34	10.52		0
	1	74	10.75	10.68	10.65		0
	36	0	10.30	10.40	10.72	0-2	0
	36	18	10.45	10.45	10.51		0
	36	37	10.53	10.56	10.61		0
	75	0	10.41	10.37	10.49		0
64QAM	1	0	10.39	10.42	10.84	0-2	0
	1	36	10.50	10.60	10.89		0
	1	74	10.98	10.72	10.98		0
	36	0	10.33	10.47	10.78	0-3	0
	36	18	10.45	10.33	10.54		0
	36	37	10.57	10.40	10.61		0
	75	0	10.35	10.23	10.51		0

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Table 8-177

LTE Band 2 Conducted Powers Ant 2b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.26	10.30	10.34	0	0
	1	25	10.16	10.30	10.54		0
	1	49	10.24	10.57	10.67		0
	25	0	10.31	10.46	10.47	0-1	0
	25	12	10.24	10.44	10.55		0
	25	25	10.26	10.48	10.71		0
16QAM	50	0	10.25	10.38	10.65	0-1	0
	1	0	10.37	10.43	10.59		0
	1	25	10.41	10.59	10.70		0
	1	49	10.45	10.87	10.90	0-2	0
	25	0	10.35	10.49	10.50		0
	25	12	10.28	10.45	10.57		0
64QAM	25	25	10.31	10.52	10.71	0-2	0
	50	0	10.26	10.41	10.51		0
	1	0	10.50	10.55	10.83		0-2
	1	25	10.27	10.69	10.56	0	
	1	49	10.32	10.89	11.00	0-3	
	25	0	10.17	10.40	10.30		0
25	12	10.07	10.49	10.41	0		
	25	25	10.13	10.48	10.65	0-3	0
	50	0	10.12	10.41	10.53		0

Table 8-178

LTE Band 2 Conducted Powers Ant 2b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.35	10.58	10.45	0	0
	1	12	10.12	10.41	10.37		0
	1	24	9.99	10.56	10.55		0
	12	0	10.20	10.46	10.40	0-1	0
	12	6	10.14	10.41	10.50		0
	12	13	10.04	10.38	10.62		0
	25	0	10.13	10.36	10.50		0
16QAM	1	0	10.45	10.63	10.40	0-1	0
	1	12	10.35	10.52	10.46		0
	1	24	10.13	10.65	10.47		0
	12	0	10.20	10.48	10.39	0-2	0
	12	6	10.16	10.36	10.45		0
	12	13	10.05	10.41	10.62		0
	25	0	10.22	10.35	10.52		0
64QAM	1	0	10.41	10.72	10.58	0-2	0
	1	12	10.36	10.52	10.67		0
	1	24	10.12	10.74	10.77		0
	12	0	10.22	10.43	10.40	0-3	0
	12	6	10.19	10.43	10.45		0
	12	13	10.10	10.36	10.60		0
	25	0	10.16	10.32	10.48		0

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Table 8-179
LTE Band 2 Conducted Powers Ant 2b - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.30	10.34	10.49	0	0
	1	7	10.15	10.33	10.61		0
	1	14	10.10	10.33	10.42		0
	8	0	10.26	10.48	10.60	0-1	0
	8	4	10.24	10.41	10.67		0
	8	7	10.25	10.37	10.64		0
16QAM	15	0	10.28	10.42	10.70	0-1	0
	1	0	10.45	10.60	10.63		0
	1	7	10.36	10.46	10.66		0
	1	14	10.31	10.38	10.49	0-2	0
	8	0	10.34	10.55	10.58		0
	8	4	10.26	10.47	10.64		0
64QAM	8	7	10.22	10.40	10.63	0-2	0
	15	0	10.29	10.43	10.72		0
	1	0	10.46	10.71	10.83		0-3
	1	7	10.27	10.63	11.00	0	
	1	14	10.38	10.55	10.66	0	
	8	0	10.23	10.50	10.68	0	
	8	4	10.28	10.45	10.72	0	
	8	7	10.28	10.47	10.70	0	
	15	0	10.27	10.49	10.66	0	

Table 8-180
LTE Band 2 Conducted Powers Ant 2b - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.37	10.37	10.88	0	0
	1	2	10.19	10.33	10.84		0
	1	5	10.20	10.29	10.80		0
	3	0	10.44	10.45	10.76		0
	3	2	10.28	10.36	10.73		0
	3	3	10.27	10.38	10.76	0	
	6	0	10.28	10.37	10.75	0-1	0
16QAM	1	0	10.48	10.62	10.85	0-1	0
	1	2	10.42	10.45	10.87		0
	1	5	10.43	10.57	10.98		0
	3	0	10.59	10.66	10.88		0
	3	2	10.39	10.46	10.86		0
	3	3	10.36	10.44	10.82	0	
	6	0	10.27	10.44	10.86	0-2	0
64QAM	1	0	10.61	10.62	10.88	0-2	0
	1	2	10.40	10.66	10.93		0
	1	5	10.34	10.58	10.93		0
	3	0	10.55	10.47	10.89		0
	3	2	10.35	10.44	10.90		0
	3	3	10.44	10.44	10.87	0	
	6	0	10.39	10.40	10.85	0-3	0

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Table 8-181
LTE Band 2 Conducted Powers Ant 4a - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.59	14.64	14.66	0	0
	1	50	14.47	14.57	14.74		0
	1	99	14.66	14.72	14.70		0
	50	0	14.58	14.59	14.79	0-1	0
	50	25	14.55	14.55	14.80		0
	50	50	14.57	14.51	14.63		0
	100	0	14.55	14.51	14.73		0
16QAM	1	0	14.80	14.45	14.50	0-1	0
	1	50	14.75	14.46	14.67		0
	1	99	14.79	14.43	14.65		0
	50	0	14.15	14.20	14.34	0-2	0
	50	25	14.08	14.10	14.32		0
	50	50	14.15	14.00	14.29		0
	100	0	14.10	14.04	14.26		0
64QAM	1	0	14.65	14.31	14.70	0-2	0
	1	50	14.43	14.17	14.79		0
	1	99	14.60	14.26	14.72		0
	50	0	14.21	14.30	14.51	0-3	0
	50	25	14.16	14.17	14.48		0
	50	50	14.19	14.10	14.25		0
	100	0	14.18	14.14	14.50		0

Table 8-182
LTE Band 2 Conducted Powers Ant 4a - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.47	14.28	14.31	0	0
	1	36	14.30	14.29	14.33		0
	1	74	14.20	14.23	14.29		0
	36	0	14.40	14.35	14.57	0-1	0
	36	18	14.42	14.39	14.37		0
	36	37	14.35	14.32	14.28		0
	75	0	14.38	14.32	14.30		0
16QAM	1	0	14.55	14.28	14.36	0-1	0
	1	36	14.44	14.27	14.54		0
	1	74	14.35	14.12	14.35		0
	36	0	14.23	14.18	14.58	0-2	0
	36	18	14.25	14.20	14.39		0
	36	37	14.21	14.12	14.31		0
	75	0	14.18	14.13	14.31		0
64QAM	1	0	14.47	14.35	14.64	0-2	0
	1	36	14.40	14.32	14.67		0
	1	74	14.31	14.14	14.74		0
	36	0	14.24	14.18	14.60	0-3	0
	36	18	14.24	14.23	14.39		0
	36	37	14.20	14.18	14.31		0
	75	0	14.19	14.14	14.31		0

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Table 8-183
LTE Band 2 Conducted Powers Ant 4a - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.48	14.39	14.61	0	0
	1	25	14.27	14.24	14.33		0
	1	49	14.32	14.27	14.46		0
	25	0	14.40	14.42	14.51	0-1	0
	25	12	14.36	14.37	14.43		0
	25	25	14.37	14.34	14.41		0
16QAM	50	0	14.37	14.36	14.43	0-1	0
	1	0	14.43	14.40	14.63		0
	1	25	14.16	14.27	14.31		0
	1	49	14.28	14.19	14.45	0-2	0
	25	0	14.23	14.25	14.33		0
	25	12	14.18	14.22	14.24		0
64QAM	25	25	14.20	14.20	14.22	0-2	0
	50	0	14.20	14.19	14.25		0
	1	0	14.48	14.57	14.80		0-2
	1	25	14.31	14.35	14.54	0	
	1	49	14.28	14.34	14.64	0	
	64QAM	25	0	14.24	14.23	14.34	0-3
25		12	14.21	14.20	14.26	0	
25		25	14.21	14.15	14.24	0	
50		0	14.20	14.18	14.23		0

Table 8-184
LTE Band 2 Conducted Powers Ant 4a - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.46	14.43	14.25	0	0
	1	12	14.36	14.29	14.21		0
	1	24	14.24	14.35	14.44		0
	12	0	14.44	14.37	14.38	0-1	0
	12	6	14.36	14.35	14.34		0
	12	13	14.28	14.32	14.44		0
16QAM	25	0	14.38	14.35	14.38	0-1	0
	1	0	14.46	14.37	14.33		0
	1	12	14.36	14.23	14.08		0
	1	24	14.38	14.22	14.38	0-2	0
	12	0	14.29	14.20	14.20		0
	12	6	14.17	14.09	14.15		0
64QAM	12	13	14.15	14.10	14.21	0-2	0
	25	0	14.17	14.07	14.14		0
	1	0	14.36	14.44	14.30		0-2
	1	12	14.36	14.31	14.47	0	
	1	24	14.21	14.37	14.58	0	
	12	0	14.33	14.22	14.18	0-3	0
12	6	14.23	14.10	14.19	0		
12	13	14.17	14.08	14.28	0		
	25	0	14.19	14.12	14.17		0

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Table 8-185
LTE Band 2 Conducted Powers Ant 4a - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.41	14.19	14.25	0	0
	1	7	14.44	14.13	14.38		0
	1	14	14.33	14.09	14.45		0
	8	0	14.55	14.26	14.34	0-1	0
	8	4	14.48	14.17	14.45		0
	8	7	14.41	14.18	14.49		0
15	0	14.50	14.22	14.45	0		
16QAM	1	0	14.33	14.10	14.14	0-1	0
	1	7	14.43	14.18	14.23		0
	1	14	14.35	14.05	14.42		0
	8	0	14.38	14.08	14.20	0-2	0
	8	4	14.37	13.98	14.31		0
	8	7	14.28	14.02	14.34		0
15	0	14.32	14.03	14.30	0		
64QAM	1	0	14.45	14.32	14.44	0-2	0
	1	7	14.42	14.11	14.54		0
	1	14	14.42	13.99	14.62		0
	8	0	14.43	14.06	14.31	0-3	0
	8	4	14.37	14.02	14.32		0
	8	7	14.28	14.00	14.36		0
15	0	14.29	14.04	14.31	0		

Table 8-186
LTE Band 2 Conducted Powers Ant 4a - 1.4 MHz Bandwidth

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.56	14.30	14.42	0	0
	1	2	14.53	14.25	14.40		0
	1	5	14.52	14.24	14.48		0
	3	0	14.42	14.35	14.43		0
	3	2	14.47	14.25	14.44		0
	3	3	14.47	14.28	14.47		0
	6	0	14.45	14.30	14.42	0-1	0
16QAM	1	0	14.55	14.28	14.52	0-1	0
	1	2	14.50	14.26	14.59		0
	1	5	14.55	14.16	14.77		0
	3	0	14.46	14.24	14.52		0
	3	2	14.57	14.22	14.54		0
	3	3	14.58	14.17	14.45		0
	6	0	14.49	14.18	14.47	0-2	0
64QAM	1	0	14.74	14.60	14.65	0-2	0
	1	2	14.60	14.58	14.58		0
	1	5	14.70	14.70	14.68		0
	3	0	14.45	14.35	14.40		0
	3	2	14.40	14.30	14.37		0
	3	3	14.44	14.35	14.50		0
	6	0	14.30	14.28	14.40	0-3	0

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Table 8-187

LTE Band 2 Conducted Powers Ant 4a - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.63	11.45	11.60	0	0
	1	50	11.47	11.63	11.64		0
	1	99	11.67	11.68	11.77		0
	50	0	11.46	11.61	11.64	0-1	0
	50	25	11.42	11.64	11.61		0
	50	50	11.51	11.64	11.66		0
16QAM	100	0	11.46	11.59	11.63	0-1	0
	1	0	11.56	11.49	11.49		0
	1	50	11.49	11.35	11.69		0
	1	99	11.71	11.25	11.74	0-2	0
	50	0	11.14	11.33	11.42		0
	50	25	11.12	11.23	11.32		0
64QAM	50	50	11.19	11.15	11.14	0-2	0
	100	0	11.14	11.19	11.28		0
	1	0	11.51	11.60	11.36		0-2
	1	50	11.30	11.18	11.57	0	
	1	99	11.38	11.33	11.70	0	
	50	0	11.00	11.36	11.48	0-3	0
	50	25	10.91	11.21	11.39		0
	50	50	11.08	11.36	11.24		0
	100	0	10.91	11.29	11.40		0

Table 8-188

LTE Band 2 Conducted Powers Ant 4a - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.60	11.37	11.51	0	0
	1	36	11.35	11.44	11.51		0
	1	74	11.36	11.27	11.65		0
	36	0	11.30	11.46	11.68	0-1	0
	36	18	11.28	11.49	11.59		0
	36	37	11.24	11.37	11.53		0
16QAM	75	0	11.27	11.42	11.49	0-1	0
	1	0	11.64	11.61	11.65		0
	1	36	11.31	11.66	11.73		0
	1	74	11.60	11.37	11.70	0-2	0
	36	0	11.32	11.42	11.69		0
	36	18	11.31	11.40	11.60		0
64QAM	36	37	11.28	11.25	11.54	0-2	0
	75	0	11.28	11.31	11.50		0
	1	0	11.19	11.46	11.54		0-2
	1	36	11.13	11.32	11.05	0	
	1	74	11.30	11.22	10.95	0-3	
	36	0	11.04	11.15	11.30		0
36	18	10.89	11.18	11.18	0		
64QAM	36	37	10.98	11.21	10.91	0-3	0
	75	0	10.83	11.17	11.00		0

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Table 8-189

LTE Band 2 Conducted Powers Ant 4a - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.40	11.37	11.63	0	0
	1	25	11.21	11.21	11.44		0
	1	49	11.33	11.10	11.49		0
	25	0	11.41	11.38	11.47	0-1	0
	25	12	11.33	11.33	11.40		0
	25	25	11.37	11.20	11.43		0
16QAM	50	0	11.35	11.28	11.42	0-1	0
	1	0	11.60	11.63	11.66		0
	1	25	11.47	11.31	11.36		0
	1	49	11.52	11.25	11.70	0-2	0
	25	0	11.43	11.39	11.50		0
	25	12	11.39	11.36	11.40		0
64QAM	25	25	11.38	11.23	11.46	0-2	0
	50	0	11.38	11.35	11.57		0
	1	0	11.30	11.41	11.45		0-2
	1	25	10.95	11.09	11.34	0	
	1	49	11.05	11.22	11.40	0-3	
	25	0	11.03	11.08	11.16		0
25	12	10.92	11.04	11.13	0		
	25	25	10.80	11.08	11.19	0-3	0
	50	0	10.89	11.08	11.14		0

Table 8-190

LTE Band 2 Conducted Powers Ant 4a - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.39	11.43	11.29	0	0
	1	12	11.27	11.36	11.34		0
	1	24	11.31	11.31	11.53		0
	12	0	11.40	11.43	11.43	0-1	0
	12	6	11.38	11.41	11.44		0
	12	13	11.35	11.34	11.49		0
16QAM	25	0	11.39	11.35	11.45	0-1	0
	1	0	11.66	11.57	11.55		0
	1	12	11.64	11.50	11.49		0
	1	24	11.60	11.41	11.73	0-2	0
	12	0	11.39	11.42	11.54		0
	12	6	11.41	11.43	11.52		0
64QAM	12	13	11.36	11.30	11.61	0-2	0
	25	0	11.41	11.35	11.54		0
	1	0	11.30	11.36	11.43		0-2
	1	12	11.13	11.27	11.50	0	
	1	24	11.21	11.36	11.53	0-3	
	12	0	11.20	11.21	11.27		0
12	6	11.06	11.18	11.30	0		
	12	13	11.03	11.16	11.22		0
	25	0	11.07	11.18	11.24		0

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Table 8-191
LTE Band 2 Conducted Powers Ant 4a - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.36	11.36	11.31	0	0
	1	7	11.38	11.36	11.42		0
	1	14	11.35	11.19	11.49		0
	8	0	11.52	11.46	11.44	0-1	0
	8	4	11.46	11.42	11.48		0
	8	7	11.43	11.38	11.57		0
16QAM	15	0	11.49	11.41	11.48	0-1	0
	1	0	11.47	11.55	11.50		0
	1	7	11.65	11.62	11.55		0
	1	14	11.56	11.46	11.72	0-2	0
	8	0	11.57	11.54	11.46		0
	8	4	11.46	11.44	11.59		0
64QAM	8	7	11.49	11.46	11.56	0-2	0
	15	0	11.50	11.40	11.51		0
	1	0	11.18	10.93	11.43		0-2
	1	7	11.32	10.98	11.37	0	
	1	14	11.07	10.92	11.38	0	
	8	0	11.10	10.93	11.18	0-3	0
8	4	11.14	10.89	11.10	0		
8	7	11.01	10.88	11.11	0		
	15	0	11.14	10.92	11.09		0

Table 8-192
LTE Band 2 Conducted Powers Ant 4a - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.19	11.19	11.52	0	0
	1	2	11.18	11.18	11.50		0
	1	5	11.17	11.14	11.55		0
	3	0	11.28	11.26	11.39		0
	3	2	11.31	11.23	11.34		0
	3	3	11.31	11.20	11.33	0	
	6	0	11.29	11.19	11.35	0-1	0
16QAM	1	0	11.29	11.40	11.64	0-1	0
	1	2	11.41	11.25	11.59		0
	1	5	11.49	11.18	11.59		0
	3	0	11.36	11.37	11.54		0
	3	2	11.38	11.23	11.49		0
	3	3	11.48	11.27	11.56	0	
	6	0	11.30	11.22	11.36	0-2	0
64QAM	1	0	11.19	11.37	11.61	0-2	0
	1	2	11.17	11.35	11.55		0
	1	5	11.25	11.34	11.65		0
	3	0	11.16	11.30	11.43		0
	3	2	11.15	11.24	11.43		0
	3	3	11.19	11.24	11.49	0	
	6	0	11.12	11.26	11.37	0-3	0

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Table 8-193
LTE Band 2 Conducted Powers Ant 4b - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.49	12.97	13.10	0	0
	1	50	13.27	13.29	13.13		0
	1	99	13.00	13.22	13.12		0
	50	0	13.48	13.11	13.12	0-1	0
	50	25	13.34	13.33	13.33		0
	50	50	13.09	13.34	13.42		0
16QAM	100	0	13.36	13.35	13.37	0	
	1	0	13.33	12.91	12.90	0-1	0
	1	50	13.12	13.10	12.96		0
	1	99	12.90	13.00	12.91		0
	50	0	12.99	12.85	12.86	0-2	0
	50	25	12.84	12.91	12.81		0
50	50	12.72	12.96	12.85	0		
64QAM	100	0	12.84	12.94	12.86	0	
	1	0	13.14	12.99	13.32	0-2	0
	1	50	13.07	13.06	13.42		0
	1	99	12.98	12.96	13.20		0
	50	0	13.20	12.90	12.95	0-3	0
	50	25	13.07	13.12	13.15		0
50	50	12.90	13.12	13.18	0		
	100	0	13.09	13.15	13.15		0

Table 8-194
LTE Band 2 Conducted Powers Ant 4b - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.13	12.93	12.87	0	0
	1	36	13.32	13.06	13.16		0
	1	74	13.11	13.16	12.94		0
	36	0	13.44	13.22	13.09	0-1	0
	36	18	13.45	13.23	13.23		0
	36	37	13.35	13.19	13.17		0
16QAM	75	0	13.43	13.21	13.22	0-1	0
	1	0	13.20	13.20	13.18		0
	1	36	13.48	13.29	13.36		0
	1	74	13.09	13.44	13.29	0-2	0
	36	0	13.19	13.16	13.10		0
	36	18	13.21	13.24	13.24		0
64QAM	36	37	13.02	13.21	13.19	0-2	0
	75	0	13.17	13.23	13.21		0
	1	0	13.24	13.22	13.28		0-2
	1	36	13.26	13.20	13.48	0	
	1	74	13.27	13.42	13.35	0-3	
	36	0	13.19	13.22	13.10		0
36	18	13.23	13.24	13.24	0		
	36	37	13.12	13.20	13.20	0-3	0
	75	0	13.18	13.23	13.22		0

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Table 8-195
LTE Band 2 Conducted Powers Ant 4b - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.17	12.96	13.19	0	0
	1	25	13.24	12.98	13.26		0
	1	49	13.20	13.06	13.10		0
	25	0	13.23	13.14	13.26	0-1	0
	25	12	13.25	13.13	13.28		0
	25	25	13.22	13.15	13.19		0
16QAM	50	0	13.26	13.16	13.29	0-1	0
	1	0	13.46	13.20	13.36		0
	1	25	13.50	13.07	13.38		0
	1	49	13.27	13.27	13.30	0-2	0
	25	0	13.25	13.17	13.12		0
	25	12	13.24	13.16	13.21		0
64QAM	25	25	13.10	13.13	13.19	0-2	0
	50	0	13.27	13.22	13.27		0
	1	0	13.46	13.24	13.43		0-2
	1	25	13.49	13.45	13.37	0	
	1	49	13.45	13.43	13.42	0	
	64QAM	25	0	13.23	13.18	13.29	0-3
25		12	13.22	13.16	13.31	0	
25		25	13.20	13.18	13.21	0	
50		0	13.27	13.15	13.30		0

Table 8-196
LTE Band 2 Conducted Powers Ant 4b - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.02	13.05	13.11	0	0
	1	12	13.10	12.96	13.05		0
	1	24	13.14	12.95	13.00		0
	12	0	13.02	13.13	13.13	0-1	0
	12	6	13.09	13.12	13.07		0
	12	13	13.16	13.13	13.02		0
16QAM	25	0	13.13	13.15	13.10	0-1	0
	1	0	13.19	13.42	13.19		0
	1	12	13.34	13.29	13.20		0
	1	24	13.37	13.28	13.33	0-2	0
	12	0	13.05	13.21	13.18		0
	12	6	13.13	13.18	13.08		0
64QAM	12	13	13.21	13.16	13.07	0-2	0
	25	0	13.11	13.19	13.11		0
	1	0	13.26	13.41	13.33		0-2
	1	12	13.30	13.25	13.19	0	
	1	24	13.36	13.23	13.23	0-3	
	12	0	13.07	13.16	13.13		0
12	6	13.18	13.17	13.02	0		
64QAM	12	13	13.19	13.14	13.02	0-3	0
	25	0	13.11	13.16	13.08		0

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Table 8-197
LTE Band 2 Conducted Powers Ant 4b - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	12.98	12.95	12.91	0	0
	1	7	13.11	12.99	12.96		0
	1	14	13.07	12.96	12.86		0
	8	0	13.00	13.14	13.01	0-1	0
	8	4	13.09	13.12	12.95		0
	8	7	13.10	13.11	12.94		0
16QAM	15	0	13.08	13.17	12.96	0-1	0
	1	0	13.29	13.35	13.37		0
	1	7	13.37	13.30	13.24		0
	1	14	13.34	13.15	13.18	0-2	0
	8	0	13.03	13.15	13.05		0
	8	4	13.14	13.16	12.99		0
64QAM	8	7	13.15	13.16	12.97	0-2	0
	15	0	13.09	13.19	12.98		0
	1	0	13.47	13.46	13.23	0-2	0
	1	7	13.44	13.09	13.28		0
	1	14	13.31	13.12	13.15	0-3	0
	8	0	13.05	13.16	13.01		0
8	4	13.12	13.17	13.01	0		
	8	7	13.09	13.17	12.94		0
	15	0	13.12	13.19	13.00		0

Table 8-198
LTE Band 2 Conducted Powers Ant 4b - 1.4 MHz Bandwidth

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.04	13.03	13.13	0	0
	1	2	13.00	12.97	13.00		0
	1	5	13.05	13.00	13.07		0
	3	0	12.99	13.13	12.99		0
	3	2	12.99	13.12	12.92		0
	3	3	13.01	13.12	12.98	0	
	6	0	12.98	13.14	12.99	0-1	0
16QAM	1	0	13.36	13.31	13.38	0-1	0
	1	2	13.37	13.45	13.34		0
	1	5	13.33	13.41	13.30		0
	3	0	13.07	13.18	13.06		0
	3	2	13.15	13.15	13.09		0
	3	3	13.05	13.17	13.10	0	
	6	0	13.05	13.16	12.96	0-2	0
64QAM	1	0	13.48	13.44	13.41	0-2	0
	1	2	13.21	13.31	13.36		0
	1	5	13.27	13.37	13.34		0
	3	0	13.04	13.23	13.11		0
	3	2	13.04	13.12	12.95		0
	3	3	13.09	13.15	13.11	0	
	6	0	13.10	13.17	12.99	0-3	0

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Table 8-199
LTE Band 2 Conducted Powers Ant 4b - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.34	10.24	10.24	0	0
	1	50	10.24	10.17	10.35		0
	1	99	10.08	10.11	10.32		0
	50	0	10.33	10.22	10.08	0-1	0
	50	25	10.20	10.21	10.29		0
	50	50	10.05	10.14	10.37		0
16QAM	100	0	10.17	10.20	10.34	0-1	0
	1	0	10.35	10.32	10.20		0
	1	50	10.33	10.28	10.48		0
	1	99	10.00	10.39	10.40	0-2	0
	50	0	10.26	9.87	10.16		0
	50	25	10.04	9.92	10.18		0
64QAM	50	50	9.85	9.95	10.20	0-2	0
	100	0	9.90	9.97	10.20		0
	1	0	10.10	9.55	10.12	0-2	0
	1	50	10.00	9.80	10.34		0
	1	99	9.96	9.90	10.15	0-3	0
	50	0	9.98	9.64	9.87		0
	50	25	9.91	9.88	10.05		0
	50	50	9.81	9.91	10.06		0
	100	0	9.92	9.89	10.05		0

Table 8-200
LTE Band 2 Conducted Powers Ant 4b - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18675 (1857.5 MHz)	18900 (1880.0 MHz)	19125 (1902.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.28	9.91	10.13	0	0
	1	36	10.06	10.10	10.35		0
	1	74	9.84	10.03	10.04		0
	36	0	10.39	10.25	10.32	0-1	0
	36	18	10.23	10.24	10.37		0
	36	37	10.12	10.18	10.32		0
	75	0	10.23	10.26	10.34		0
16QAM	1	0	10.32	9.93	10.04	0-1	0
	1	36	10.14	10.05	10.43		0
	1	74	9.90	9.97	9.98		0
	36	0	10.16	10.04	10.25	0-2	0
	36	18	10.08	10.00	10.32		0
	36	37	10.00	10.01	10.14		0
	75	0	10.05	10.03	10.27		0
64QAM	1	0	10.29	9.63	10.21	0-2	0
	1	36	10.22	9.92	9.92		0
	1	74	9.63	9.85	9.85		0
	36	0	10.18	9.85	9.71	0-3	0
	36	18	10.10	9.84	9.87		0
	36	37	9.94	9.89	9.87		0
	75	0	10.10	9.93	9.90		0

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Table 8-201
LTE Band 2 Conducted Powers Ant 4b - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18650 (1855.0 MHz)	18900 (1880.0 MHz)	19150 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.25	9.89	10.20	0	0
	1	25	10.31	9.96	10.31		0
	1	49	10.33	9.99	10.15		0
	25	0	10.23	10.19	10.24	0-1	0
	25	12	10.32	10.13	10.38		0
	25	25	10.28	10.07	10.26		0
16QAM	50	0	10.33	10.18	10.22	0-1	0
	1	0	9.97	9.91	10.50		0
	1	25	10.19	10.03	10.24		0
	1	49	10.32	9.94	10.14	0-2	0
	25	0	10.09	10.00	10.32		0
	25	12	10.17	9.97	10.23		0
64QAM	25	25	10.12	9.94	10.12	0-2	0
	50	0	10.17	10.01	10.23		0
	1	0	10.31	9.75	10.50		0-2
	1	25	10.23	10.16	10.49	0	
	1	49	10.16	10.03	9.62	0	
	64QAM	25	0	10.14	9.85	10.12	0-3
25		12	10.23	9.95	10.01	0	
25		25	10.23	10.00	9.86	0	
50		0	10.20	10.04	10.02	0	

Table 8-202
LTE Band 2 Conducted Powers Ant 4b - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18625 (1852.5 MHz)	18900 (1880.0 MHz)	19175 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.13	9.85	10.14	0	0
	1	12	10.09	9.83	10.09		0
	1	24	10.10	9.82	10.07		0
	12	0	10.12	10.00	10.16	0-1	0
	12	6	10.14	9.98	10.13		0
	12	13	10.14	10.00	10.10		0
16QAM	25	0	10.13	10.01	10.15	0-1	0
	1	0	10.32	10.08	10.41		0
	1	12	10.18	10.01	10.31		0
	1	24	10.26	9.95	10.19	0-2	0
	12	0	10.09	10.09	10.17		0
	12	6	10.09	10.07	10.16		0
64QAM	12	13	10.16	9.98	10.04	0-2	0
	25	0	10.11	10.07	10.10		0
	1	0	10.19	10.12	10.50		0-2
	1	12	10.19	10.15	10.31	0	
	1	24	10.30	10.27	9.88	0	
	64QAM	12	0	10.01	9.88	9.95	0-3
12		6	10.14	9.81	9.92	0	
12		13	10.23	9.90	9.71	0	
25		0	10.10	9.93	9.91		0

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Table 8-203
LTE Band 2 Conducted Powers Ant 4b - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18615 (1851.5 MHz)	18900 (1880.0 MHz)	19185 (1908.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.01	9.87	9.96	0	0
	1	7	10.10	9.88	9.98		0
	1	14	10.06	9.85	9.96		0
	8	0	10.11	9.96	10.05	0-1	0
	8	4	10.18	9.97	10.02		0
	8	7	10.18	9.99	10.00		0
16QAM	15	0	10.18	9.98	10.01	0-1	0
	1	0	10.18	9.76	9.99		0
	1	7	10.23	9.91	10.05		0
	1	14	10.17	9.92	10.10	0-2	0
	8	0	10.06	9.91	10.02		0
	8	4	10.18	9.87	9.99		0
64QAM	8	7	10.14	9.89	9.95	0-2	0
	15	0	10.09	9.93	9.92		0
	1	0	10.23	9.74	10.11		0-2
	1	7	10.28	9.91	9.94	0	
	1	14	10.16	9.98	9.75	0	
	8	0	10.14	9.80	9.93	0-3	0
8	4	10.14	9.83	9.69	0		
8	7	10.19	9.85	9.67	0		
	15	0	10.07	9.83	9.69		0

Table 8-204
LTE Band 2 Conducted Powers Ant 4b - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18607 (1850.7 MHz)	18900 (1880.0 MHz)	19193 (1909.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.17	9.93	10.10	0	0
	1	2	10.12	9.90	10.08		0
	1	5	10.14	9.96	10.06		0
	3	0	10.05	9.87	9.97		0
	3	2	10.03	9.88	9.98		0
	3	3	10.01	9.89	9.99	0	
	6	0	10.01	9.86	9.93	0-1	0
16QAM	1	0	10.39	10.11	10.27	0-1	0
	1	2	10.26	9.98	10.22		0
	1	5	10.31	10.12	10.19		0
	3	0	10.18	10.03	10.07		0
	3	2	10.12	9.99	10.08		0
	3	3	10.24	10.00	10.13	0	
	6	0	10.11	10.05	9.93	0-2	0
64QAM	1	0	10.09	9.91	9.65	0-2	0
	1	2	10.17	9.82	9.86		0
	1	5	10.22	9.83	9.65		0
	3	0	10.08	9.78	9.64		0
	3	2	10.13	9.78	9.58		0
	3	3	10.15	9.68	9.56	0	
	6	0	10.07	9.75	9.54	0-3	0

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LTE Band 25

Table 8-205
LTE Band 25 Conducted Powers Ant 2a - 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	14.77	14.61	14.78	0	0
	1	50	14.88	14.52	14.96		0
	1	99	14.94	14.72	14.88		0
	50	0	14.75	14.65	14.80	0-1	0
	50	25	14.85	14.66	14.91		0
	50	50	14.95	14.85	14.98		0
	100	0	14.92	14.70	14.95		0
16QAM	1	0	14.74	14.68	14.77	0-1	0
	1	50	14.90	14.63	14.89		0
	1	99	15.00	14.86	14.87		0
	50	0	14.45	14.41	14.59	0-2	0
	50	25	14.61	14.43	14.66		0
	50	50	14.71	14.66	14.69		0
	100	0	14.67	14.49	14.73		0
64QAM	1	0	14.24	14.37	14.47	0-2	0
	1	50	14.28	14.35	14.56		0
	1	99	14.39	14.47	14.45		0
	50	0	14.35	14.27	14.49	0-3	0
	50	25	14.43	14.41	14.68		0
	50	50	14.44	14.50	14.75		0
	100	0	14.46	14.42	14.76		0

Table 8-206
LTE Band 25 Conducted Powers Ant 2a - 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	14.36	14.48	14.62	0	0
	1	36	14.50	14.49	14.66		0
	1	74	14.44	14.63	14.62		0
	36	0	14.47	14.46	14.77	0-1	0
	36	18	14.66	14.54	14.90		0
	36	37	14.61	14.72	14.87		0
	75	0	14.68	14.62	14.99		0
16QAM	1	0	14.60	14.77	14.84	0-1	0
	1	36	14.82	14.59	15.00		0
	1	74	14.63	14.98	14.97		0
	36	0	14.38	14.28	14.57	0-2	0
	36	18	14.56	14.40	14.87		0
	36	37	14.49	14.59	14.75		0
	75	0	14.55	14.45	14.85		0
64QAM	1	0	14.19	14.29	14.32	0-2	0
	1	36	14.37	14.24	14.75		0
	1	74	14.27	14.37	14.52		0
	36	0	14.35	14.24	14.49	0-3	0
	36	18	14.53	14.31	14.79		0
	36	37	14.47	14.48	14.70		0
	75	0	14.53	14.38	14.84		0

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Table 8-207
LTE Band 25 Conducted Powers Ant 2a - 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	14.61	14.42	14.87	0	0
	1	25	14.49	14.47	14.87		0
	1	49	14.67	14.63	14.72		0
	25	0	14.54	14.41	15.00	0-1	0
	25	12	14.48	14.45	14.89		0
	25	25	14.43	14.41	14.51		0
	50	0	14.29	14.39	14.71		0
16QAM	1	0	14.78	14.49	15.00	0-1	0
	1	25	14.66	14.49	14.98		0
	1	49	14.84	14.67	14.97		0
	25	0	14.47	14.25	14.83	0-2	0
	25	12	14.38	14.30	14.71		0
	25	25	14.53	14.46	14.52		0
	50	0	14.40	14.41	14.73		0
64QAM	1	0	14.46	14.30	14.72	0-2	0
	1	25	14.38	14.34	14.70		0
	1	49	14.57	14.46	14.51		0
	25	0	14.41	14.28	14.84	0-3	0
	25	12	14.37	14.31	14.73		0
	25	25	14.51	14.45	14.52		0
	50	0	14.37	14.42	14.72		0

Table 8-208
LTE Band 25 Conducted Powers Ant 2a - 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	14.52	14.34	14.69	0	0
	1	12	14.47	14.45	14.52		0
	1	24	14.43	14.52	14.68		0
	12	0	14.57	14.48	14.63	0-1	0
	12	6	14.55	14.45	14.57		0
	12	13	14.40	14.57	14.64		0
	25	0	14.57	14.59	14.60		0
16QAM	1	0	14.65	14.42	14.75	0-1	0
	1	12	14.58	14.60	14.70		0
	1	24	14.58	14.72	14.68		0
	12	0	14.37	14.26	14.53	0-2	0
	12	6	14.36	14.22	14.42		0
	12	13	14.24	14.34	14.47		0
	25	0	14.38	14.35	14.43		0
64QAM	1	0	14.71	14.64	14.86	0-2	0
	1	12	14.64	14.62	14.60		0
	1	24	14.58	14.82	14.99		0
	12	0	14.38	14.37	14.57	0-3	0
	12	6	14.38	14.31	14.55		0
	12	13	14.25	14.44	14.56		0
	25	0	14.41	14.41	14.54		0

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Table 8-209
LTE Band 25 Conducted Powers Ant 2a - 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	14.55	14.31	14.46	0	0
	1	7	14.60	14.51	14.58		0
	1	14	14.50	14.47	14.57		0
	8	0	14.50	14.47	14.55	0-1	0
	8	4	14.51	14.53	14.56		0
	8	7	14.51	14.55	14.57		0
	15	0	14.51	14.58	14.61		0
16QAM	1	0	14.79	14.70	14.74	0-1	0
	1	7	14.70	14.61	14.96		0
	1	14	14.52	14.85	14.99		0
	8	0	14.42	14.34	14.49	0-2	0
	8	4	14.41	14.44	14.49		0
	8	7	14.45	14.41	14.53		0
	15	0	14.39	14.40	14.52		0
64QAM	1	0	14.74	14.37	14.91	0-2	0
	1	7	14.90	14.75	14.83		0
	1	14	14.86	14.85	14.95		0
	8	0	14.34	14.24	14.54	0-3	0
	8	4	14.40	14.35	14.55		0
	8	7	14.44	14.41	14.54		0
	15	0	14.42	14.37	14.58		0

Table 8-210
LTE Band 25 Conducted Powers Ant 2a - 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	14.58	14.43	14.77	0	0
	1	2	14.49	14.40	14.75		0
	1	5	14.53	14.52	14.83		0
	3	0	14.46	14.44	14.62		0
	3	2	14.41	14.55	14.63		0
	3	3	14.42	14.54	14.68		0
	6	0	14.46	14.55	14.65	0-1	0
16QAM	1	0	14.89	14.77	14.84	0-1	0
	1	2	14.90	14.52	14.98		0
	1	5	14.75	14.91	14.87		0
	3	0	14.44	14.37	14.55		0
	3	2	14.36	14.41	14.53		0
	3	3	14.45	14.48	14.61		0
	6	0	14.38	14.49	14.53	0-2	0
64QAM	1	0	14.91	14.74	14.98	0-2	0
	1	2	14.93	14.64	14.92		0
	1	5	14.69	14.44	14.81		0
	3	0	14.45	14.28	14.69		0
	3	2	14.41	14.36	14.63		0
	3	3	14.41	14.30	14.70		0
	6	0	14.41	14.39	14.65	0-3	0

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Table 8-211
LTE Band 25 Conducted Powers Ant 2b - 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	13.35	13.18	13.52	0	0
	1	50	13.31	13.22	13.76		0
	1	99	13.51	13.52	13.64		0
	50	0	13.28	13.24	13.61	0-1	0
	50	25	13.31	13.36	13.75		0
	50	50	13.49	13.52	13.84		0
	100	0	13.41	13.43	13.75		0
16QAM	1	0	13.55	13.49	13.55	0-1	0
	1	50	13.67	13.62	13.79		0
	1	99	13.83	13.91	13.89		0
	50	0	13.32	13.23	13.59	0-2	0
	50	25	13.36	13.35	13.71		0
	50	50	13.50	13.57	13.79		0
	100	0	13.45	13.42	13.82		0
64QAM	1	0	13.51	13.64	13.55	0-2	0
	1	50	13.60	13.55	13.90		0
	1	99	13.67	13.82	13.75		0
	50	0	13.35	13.29	13.50	0-3	0
	50	25	13.40	13.39	13.81		0
	50	50	13.49	13.48	13.82		0
	100	0	13.46	13.41	13.86		0

Table 8-212
LTE Band 25 Conducted Powers Ant 2b - 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	13.25	13.47	13.40	0	0
	1	36	13.22	13.47	13.76		0
	1	74	13.54	13.76	13.67		0
	36	0	13.13	13.38	13.54	0-1	0
	36	18	13.25	13.38	13.88		0
	36	37	13.42	13.57	13.82		0
	75	0	13.29	13.42	13.90		0
16QAM	1	0	13.39	13.62	13.41	0-1	0
	1	36	13.44	13.47	13.80		0
	1	74	13.80	13.86	13.82		0
	36	0	13.16	13.42	13.46	0-2	0
	36	18	13.31	13.48	13.81		0
	36	37	13.45	13.61	13.77		0
	75	0	13.32	13.44	13.85		0
64QAM	1	0	13.46	13.38	13.61	0-2	0
	1	36	13.53	13.55	14.00		0
	1	74	13.45	13.64	13.75		0
	36	0	13.12	13.18	13.55	0-3	0
	36	18	13.32	13.31	13.71		0
	36	37	13.24	13.37	13.56		0
	75	0	13.32	13.24	13.74		0

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Table 8-213
LTE Band 25 Conducted Powers Ant 2b - 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	13.29	13.35	13.52	0	0
	1	25	13.06	13.33	13.72		0
	1	49	13.24	13.57	13.63		0
	25	0	13.23	13.28	13.81	0-1	0
	25	12	13.14	13.39	13.81		0
	25	25	13.21	13.56	13.68		0
	50	0	13.17	13.40	13.82		0
16QAM	1	0	13.40	13.65	13.66	0-1	0
	1	25	13.27	13.60	13.78		0
	1	49	13.51	13.84	13.96		0
	25	0	13.30	13.44	13.80	0-2	0
	25	12	13.21	13.53	13.79		0
	25	25	13.30	13.69	13.72		0
	50	0	13.23	13.53	13.84		0
64QAM	1	0	13.41	13.40	13.89	0-2	0
	1	25	13.32	13.47	13.89		0
	1	49	13.52	13.61	13.94		0
	25	0	13.15	13.08	13.71	0-3	0
	25	12	13.11	13.13	13.59		0
	25	25	13.29	13.19	13.43		0
	50	0	13.19	13.19	13.56		0

Table 8-214
LTE Band 25 Conducted Powers Ant 2b - 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	13.31	13.36	13.68	0	0
	1	12	13.19	13.44	13.52		0
	1	24	13.20	13.62	13.64		0
	12	0	13.26	13.39	13.70	0-1	0
	12	6	13.16	13.42	13.63		0
	12	13	13.03	13.50	13.69		0
	25	0	13.17	13.43	13.65		0
16QAM	1	0	13.45	13.51	13.85	0-1	0
	1	12	13.26	13.66	13.81		0
	1	24	13.50	13.79	13.84		0
	12	0	13.38	13.46	13.76	0-2	0
	12	6	13.28	13.51	13.69		0
	12	13	13.25	13.58	13.82		0
	25	0	13.19	13.54	13.74		0
64QAM	1	0	13.40	13.51	13.95	0-2	0
	1	12	13.61	13.48	13.89		0
	1	24	13.27	13.53	13.74		0
	12	0	13.18	13.11	13.57	0-3	0
	12	6	13.11	13.22	13.49		0
	12	13	13.06	13.22	13.49		0
	25	0	13.15	13.20	13.46		0

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Table 8-215
LTE Band 25 Conducted Powers Ant 2b - 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	13.21	13.24	13.48	0	0
	1	7	13.29	13.31	13.61		0
	1	14	13.21	13.35	13.55		0
	8	0	13.26	13.31	13.66	0-1	0
	8	4	13.27	13.34	13.69		0
	8	7	13.18	13.41	13.70		0
	15	0	13.29	13.37	13.70		0
16QAM	1	0	13.34	13.44	13.63	0-1	0
	1	7	13.39	13.45	13.79		0
	1	14	13.40	13.61	13.77		0
	8	0	13.27	13.38	13.66	0-2	0
	8	4	13.26	13.42	13.75		0
	8	7	13.21	13.45	13.82		0
	15	0	13.27	13.43	13.75		0
64QAM	1	0	13.30	13.32	13.77	0-2	0
	1	7	13.29	13.41	13.72		0
	1	14	13.24	13.43	13.70		0
	8	0	13.04	13.15	13.40	0-3	0
	8	4	13.05	13.12	13.45		0
	8	7	13.07	13.14	13.38		0
	15	0	13.11	13.18	13.43		0

Table 8-216
LTE Band 25 Conducted Powers Ant 2b - 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	13.26	13.30	13.86	0	0
	1	2	13.18	13.29	13.85		0
	1	5	13.26	13.29	13.87		0
	3	0	13.27	13.35	13.71		0
	3	2	13.23	13.34	13.71		0
	3	3	13.25	13.33	13.71		0
	6	0	13.22	13.35	13.69	0-1	0
16QAM	1	0	13.38	13.57	13.91	0-1	0
	1	2	13.35	13.47	13.99		0
	1	5	13.43	13.56	14.00		0
	3	0	13.34	13.45	13.77		0
	3	2	13.28	13.50	13.79		0
	3	3	13.32	13.46	13.84		0
	6	0	13.29	13.40	13.79	0-2	0
64QAM	1	0	13.70	13.50	13.90	0-2	0
	1	2	13.58	13.54	13.77		0
	1	5	13.60	13.58	13.83		0
	3	0	13.25	13.28	13.51		0
	3	2	13.22	13.24	13.40		0
	3	3	13.29	13.30	13.42		0
	6	0	13.26	13.17	13.36	0-3	0

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Table 8-217
LTE Band 25 Conducted Powers Ant 4a - 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	14.63	14.40	14.43	0	0
	1	50	14.46	14.23	14.23		0
	1	99	14.59	14.53	14.66		0
	50	0	14.33	14.30	14.47	0-1	0
	50	25	14.28	14.22	14.31		0
	50	50	14.30	14.27	14.42		0
	100	0	14.27	14.20	14.34		0
16QAM	1	0	14.61	14.60	14.65	0-1	0
	1	50	14.52	14.35	14.50		0
	1	99	14.72	14.57	14.80		0
	50	0	14.00	13.93	14.08	0-2	0
	50	25	13.85	13.85	13.99		0
	50	50	13.95	13.82	13.99		0
	100	0	13.87	13.80	14.00		0
64QAM	1	0	14.38	14.62	14.60	0-2	0
	1	50	14.28	14.42	14.40		0
	1	99	14.40	14.70	14.70		0
	50	0	14.18	14.25	14.50	0-3	0
	50	25	14.16	14.18	14.30		0
	50	50	14.20	14.28	14.31		0
	100	0	14.16	14.21	14.29		0

Table 8-218
LTE Band 25 Conducted Powers Ant 4a - 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	14.18	14.30	14.33	0	0
	1	36	14.05	14.10	14.14		0
	1	74	14.08	14.23	14.45		0
	36	0	14.10	14.12	14.18	0-1	0
	36	18	14.12	14.02	14.17		0
	36	37	14.07	14.04	14.40		0
	75	0	14.07	14.00	14.17		0
16QAM	1	0	14.35	14.53	14.46	0-1	0
	1	36	14.18	14.08	14.27		0
	1	74	14.12	14.34	14.55		0
	36	0	14.10	14.13	14.19	0-2	0
	36	18	14.11	14.02	14.20		0
	36	37	14.06	14.04	14.35		0
	75	0	14.04	14.02	14.15		0
64QAM	1	0	14.37	14.35	14.63	0-2	0
	1	36	14.33	14.42	14.44		0
	1	74	14.34	14.33	14.58		0
	36	0	14.12	14.30	14.33	0-3	0
	36	18	14.17	14.22	14.29		0
	36	37	14.16	14.19	14.44		0
	75	0	14.09	14.18	14.23		0

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Table 8-219
LTE Band 25 Conducted Powers Ant 4a - 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	14.23	14.13	14.16	0	0
	1	25	14.00	13.93	14.32		0
	1	49	14.00	13.96	14.43		0
	25	0	14.21	14.03	14.20	0-1	0
	25	12	14.11	14.02	14.39		0
	25	25	14.10	13.95	14.53		0
	50	0	14.12	14.01	14.40		0
16QAM	1	0	14.43	14.32	14.27	0-1	0
	1	25	14.18	14.04	14.40		0
	1	49	14.21	14.06	14.60		0
	25	0	14.23	14.03	14.18	0-2	0
	25	12	14.13	14.02	14.40		0
	25	25	14.14	13.96	14.36		0
	50	0	14.15	14.04	14.41		0
64QAM	1	0	14.32	14.36	14.44	0-2	0
	1	25	14.20	14.17	14.67		0
	1	49	14.20	14.15	14.78		0
	25	0	14.15	14.07	14.25	0-3	0
	25	12	14.07	14.09	14.37		0
	25	25	14.16	14.06	14.57		0
	50	0	14.12	14.11	14.40		0

Table 8-220
LTE Band 25 Conducted Powers Ant 4a - 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	14.17	13.89	14.38	0	0
	1	12	14.10	13.88	14.40		0
	1	24	13.99	13.87	14.30		0
	12	0	14.19	13.87	14.47	0-1	0
	12	6	14.12	13.87	14.47		0
	12	13	14.04	13.87	14.45		0
	25	0	14.12	13.91	14.51		0
16QAM	1	0	14.39	13.94	14.54	0-1	0
	1	12	14.31	14.03	14.55		0
	1	24	14.23	13.95	14.53		0
	12	0	14.23	13.98	14.53	0-2	0
	12	6	14.12	13.97	14.44		0
	12	13	14.04	13.95	14.39		0
	25	0	14.20	13.90	14.41		0
64QAM	1	0	14.36	14.02	14.41	0-2	0
	1	12	14.28	14.12	14.61		0
	1	24	14.14	14.32	14.65		0
	12	0	14.27	14.06	14.40	0-3	0
	12	6	14.18	13.99	14.53		0
	12	13	14.16	13.99	14.46		0
	25	0	14.18	14.02	14.50		0

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Table 8-221
LTE Band 25 Conducted Powers Ant 4a - 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	14.04	13.80	14.34	0	0
	1	7	14.12	13.91	14.43		0
	1	14	14.04	13.84	14.33		0
	8	0	14.19	13.93	14.49	0-1	0
	8	4	14.18	13.93	14.47		0
	8	7	14.12	13.93	14.47		0
	15	0	14.18	13.96	14.49		0
16QAM	1	0	14.16	14.11	14.53	0-1	0
	1	7	14.28	13.93	14.48		0
	1	14	14.22	13.95	14.40		0
	8	0	14.25	13.98	14.41	0-2	0
	8	4	14.22	13.98	14.42		0
	8	7	14.19	13.98	14.43		0
	15	0	14.21	13.94	14.41		0
64QAM	1	0	14.17	14.13	14.72	0-2	0
	1	7	14.21	14.18	14.80		0
	1	14	14.17	14.02	14.73		0
	8	0	14.25	14.09	14.63	0-3	0
	8	4	14.20	14.02	14.58		0
	8	7	14.08	14.03	14.43		0
	15	0	14.17	14.03	14.54		0

Table 8-222
LTE Band 25 Conducted Powers Ant 4a - 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	26365	26683		
			(1850.7 MHz)	(1882.5 MHz)	(1914.3 MHz)		
Conducted Power [dBm]							
QPSK	1	0	14.17	13.88	14.59	0	0
	1	2	14.16	13.86	14.57		0
	1	5	14.17	13.89	14.60		0
	3	0	14.22	13.97	14.43		0
	3	2	14.21	13.94	14.43		0
	3	3	14.26	13.95	14.45		0
	6	0	14.24	13.95	14.42	0-1	0
16QAM	1	0	14.37	14.07	14.75	0-1	0
	1	2	14.31	14.03	14.74		0
	1	5	14.40	13.95	14.75		0
	3	0	14.33	14.03	14.53		0
	3	2	14.31	13.97	14.40		0
	3	3	14.38	13.99	14.36		0
	6	0	14.29	13.96	14.32	0-2	0
64QAM	1	0	14.45	14.20	14.60	0-2	0
	1	2	14.57	14.25	14.59		0
	1	5	14.53	14.15	14.64		0
	3	0	14.35	14.24	14.62		0
	3	2	14.30	14.19	14.61		0
	3	3	14.40	14.13	14.67		0
	6	0	14.32	14.16	14.52	0-3	0

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Table 8-223
LTE Band 25 Conducted Powers Ant 4b - 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	13.27	13.16	13.35	0	0
	1	50	13.25	13.34	13.42		0
	1	99	13.08	13.33	12.99		0
	50	0	13.49	13.42	13.50	0-1	0
	50	25	13.37	13.45	13.42		0
	50	50	13.24	13.40	13.16		0
	100	0	13.40	13.40	13.41		0
16QAM	1	0	13.35	13.18	13.36	0-1	0
	1	50	13.30	13.35	13.50		0
	1	99	13.05	13.23	13.15		0
	50	0	13.33	13.16	13.11	0-2	0
	50	25	13.16	13.17	13.20		0
	50	50	13.05	13.07	12.90		0
	100	0	13.16	13.18	13.23		0
64QAM	1	0	13.12	13.00	13.30	0-2	0
	1	50	13.08	13.16	13.34		0
	1	99	13.01	13.16	13.18		0
	50	0	13.21	13.15	13.05	0-3	0
	50	25	13.08	13.19	13.12		0
	50	50	13.03	13.11	12.87		0
	100	0	13.10	13.20	13.20		0

Table 8-224
LTE Band 25 Conducted Powers Ant 4b - 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	13.34	13.14	13.30	0	0
	1	36	13.43	13.42	13.26		0
	1	74	13.10	13.02	12.92		0
	36	0	13.48	13.37	13.46	0-1	0
	36	18	13.50	13.48	13.25		0
	36	37	13.30	13.30	13.04		0
	75	0	13.41	13.37	13.21		0
16QAM	1	0	13.48	13.43	13.45	0-1	0
	1	36	13.49	13.44	13.41		0
	1	74	13.19	13.41	13.23		0
	36	0	13.49	13.39	13.48	0-2	0
	36	18	13.49	13.49	13.26		0
	36	37	13.32	13.32	13.07		0
	75	0	13.50	13.39	13.25		0
64QAM	1	0	13.50	13.40	13.42	0-2	0
	1	36	13.41	13.45	13.39		0
	1	74	13.40	13.23	13.16		0
	36	0	13.50	13.41	13.47	0-3	0
	36	18	13.41	13.42	13.25		0
	36	37	13.33	13.31	13.03		0
	75	0	13.49	13.39	13.24		0

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Table 8-225
LTE Band 25 Conducted Powers Ant 4b - 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	13.34	13.34	13.20	0	0
	1	25	13.48	13.28	13.16		0
	1	49	13.38	13.20	13.07		0
	25	0	13.39	13.42	13.16	0-1	0
	25	12	13.45	13.40	13.07		0
	25	25	13.46	13.36	12.90		0
	50	0	13.46	13.32	13.06		0
16QAM	1	0	13.42	13.43	13.46	0-1	0
	1	25	13.46	13.50	13.42		0
	1	49	13.43	13.43	13.49		0
	25	0	13.41	13.42	13.19	0-2	0
	25	12	13.49	13.40	13.07		0
	25	25	13.49	13.38	12.90		0
	50	0	13.48	13.34	13.09		0
64QAM	1	0	13.47	13.46	13.37	0-2	0
	1	25	13.40	13.36	13.41		0
	1	49	13.50	13.44	13.42		0
	25	0	13.36	13.43	13.24	0-3	0
	25	12	13.45	13.42	13.08		0
	25	25	13.43	13.36	12.90		0
	50	0	13.50	13.37	13.04		0

Table 8-226
LTE Band 25 Conducted Powers Ant 4b - 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	13.05	13.03	13.24	0	0
	1	12	13.10	12.92	13.02		0
	1	24	13.11	12.95	13.16		0
	12	0	13.02	12.99	13.13	0-1	0
	12	6	13.11	13.00	13.02		0
	12	13	13.18	12.92	13.04		0
	25	0	13.14	12.94	13.00		0
16QAM	1	0	13.46	13.44	13.26	0-1	0
	1	12	13.44	13.04	13.03		0
	1	24	13.45	13.39	13.16		0
	12	0	13.10	13.08	12.96	0-2	0
	12	6	13.23	13.02	12.81		0
	12	13	13.25	12.99	12.90		0
	25	0	13.19	12.94	12.85		0
64QAM	1	0	13.47	13.33	13.20	0-2	0
	1	12	13.43	13.06	13.05		0
	1	24	13.44	13.32	13.11		0
	12	0	13.10	12.98	12.98	0-3	0
	12	6	13.19	13.03	12.82		0
	12	13	13.23	12.93	12.91		0
	25	0	13.18	12.99	12.95		0

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Table 8-227
LTE Band 25 Conducted Powers Ant 4b - 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	13.10	13.10	12.96	0	0
	1	7	13.24	13.04	12.92		0
	1	14	13.14	12.96	12.83		0
	8	0	13.15	13.18	12.92	0-1	0
	8	4	13.21	13.16	12.83		0
	8	7	13.22	13.12	12.66		0
	15	0	13.22	13.08	12.82		0
16QAM	1	0	13.38	13.39	13.42	0-1	0
	1	7	13.42	13.36	13.28		0
	1	14	13.49	13.29	13.25		0
	8	0	13.17	13.18	12.95	0-2	0
	8	4	13.25	13.16	12.83		0
	8	7	13.27	13.14	12.66		0
	15	0	13.24	13.10	12.85		0
64QAM	1	0	13.43	13.32	13.13	0-2	0
	1	7	13.46	13.12	13.17		0
	1	14	13.26	13.20	13.18		0
	8	0	13.12	13.19	13.00	0-3	0
	8	4	13.21	13.18	12.84		0
	8	7	13.19	13.12	12.66		0
	15	0	13.26	13.13	12.80		0

Table 8-228
LTE Band 25 Conducted Powers Ant 4b - 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	13.00	12.80	12.96	0	0
	1	2	13.19	13.08	12.92		0
	1	5	12.76	12.68	12.58		0
	3	0	13.14	13.03	13.12		0
	3	2	13.16	13.14	12.91		0
	3	3	12.96	12.96	12.70		0
	6	0	13.17	13.03	12.87	0-1	0
16QAM	1	0	13.14	13.09	13.31	0-1	0
	1	2	13.20	13.06	13.08		0
	1	5	13.17	13.12	13.33		0
	3	0	13.28	13.43	13.11		0
	3	2	12.88	13.10	12.92		0
	3	3	13.20	13.08	13.10		0
	6	0	13.20	13.18	13.47	0-2	0
64QAM	1	0	13.01	13.01	13.24	0-2	0
	1	2	13.19	13.08	13.01		0
	1	5	13.29	13.09	13.32		0
	3	0	13.27	13.25	13.10		0
	3	2	13.08	13.08	12.88		0
	3	3	13.26	13.15	13.09		0
	6	0	13.36	13.16	13.15	0-3	0

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LTE Band 30

Table 8-229

LTE Band 30 Conducted Powers Ant 2a - 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	13.22	0	0
	1	25	13.24		0
	1	49	13.23		0
	25	0	13.41	0-1	0
	25	12	13.48		0
	25	25	13.42		0
16QAM	50	0	13.23	0-1	0
	1	0	13.29		0
	1	25	13.49		0
	1	49	13.42	0-2	0
	25	0	13.11		0
	25	12	13.16		0
64QAM	25	25	13.12	0-2	0
	50	0	13.16		0
	1	0	13.42	0-2	0
	1	25	13.45		0
	1	49	13.55		0
	25	0	13.13	0-3	0
	25	12	13.11		0
	25	25	13.17		0
	50	0	13.21		0

Table 8-230

LTE Band 30 Conducted Powers Ant 2a - 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	13.17	0	0
	1	12	13.21		0
	1	24	13.20		0
	12	0	13.33	0-1	0
	12	6	13.34		0
	12	13	13.32		0
16QAM	25	0	13.36	0-1	0
	1	0	13.32		0
	1	12	13.36		0
	1	24	13.28	0-2	0
	12	0	13.09		0
	12	6	13.14		0
64QAM	12	13	13.06	0-2	0
	25	0	13.08		0
	1	0	13.14		0
	1	12	13.35	0-2	0
	1	24	13.29		0
	12	0	13.17	0-3	0
	12	6	13.06		0
	12	13	13.15		0
	25	0	13.08		0

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 8-231
LTE Band 30 Conducted Powers Ant 2a - 10 MHz Bandwidth, Inter-band ULCA Active

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	9.70	0	0
	1	25	10.01		0
	1	49	9.91		0
	25	0	9.77	0-1	0
	25	12	9.79		0
	25	25	9.94		0
16QAM	50	0	9.91	0-1	0
	1	0	9.73		0
	1	25	10.04		0
	1	49	9.97	0-2	0
	25	0	9.70		0
	25	12	9.53		0
64QAM	25	25	9.64	0-2	0
	50	0	9.62		0
	1	0	9.58	0-3	0
	1	25	9.70		0
	1	49	9.61		0
	25	0	9.54	0-3	0
	25	12	9.53		0
	25	25	9.56		0
	50	0	9.57		0

Table 8-232
LTE Band 30 Conducted Powers Ant 2a - 5 MHz Bandwidth, Inter-band ULCA Active

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	9.50	0	0
	1	12	9.53		0
	1	24	9.47		0
	12	0	9.68	0-1	0
	12	6	9.66		0
	12	13	9.63		0
16QAM	25	0	9.68	0-1	0
	1	0	9.76		0
	1	12	9.71		0
	1	24	9.64	0-2	0
	12	0	9.71		0
	12	6	9.63		0
64QAM	12	13	9.61	0-2	0
	25	0	9.66		0
	1	0	9.75	0-3	0
	1	12	10.02		0
	1	24	9.82		0
	12	0	9.70	0-3	0
	12	6	9.65		0
	12	13	9.56		0
	25	0	9.63		0

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 8-233
LTE Band 30 Conducted Powers Ant 2b - 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	12.39	0	0
	1	25	12.57		0
	1	49	12.51		0
	25	0	12.58	0-1	0
	25	12	12.60		0
	25	25	12.54		0
	50	0	12.56		0
16QAM	1	0	12.37	0-1	0
	1	25	12.54		0
	1	49	12.46		0
	25	0	12.33	0-2	0
	25	12	12.36		0
	25	25	12.31		0
	50	0	12.35		0
64QAM	1	0	12.47	0-2	0
	1	25	12.50		0
	1	49	12.44		0
	25	0	12.30	0-3	0
	25	12	12.34		0
	25	25	12.30		0
	50	0	12.35		0

Table 8-234
LTE Band 30 Conducted Powers Ant 2b - 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	12.28	0	0
	1	12	12.35		0
	1	24	12.30		0
	12	0	12.50	0-1	0
	12	6	12.41		0
	12	13	12.38		0
	25	0	12.51		0
16QAM	1	0	12.47	0-1	0
	1	12	12.51		0
	1	24	12.42		0
	12	0	12.28	0-2	0
	12	6	12.23		0
	12	13	12.18		0
	25	0	12.28		0
64QAM	1	0	12.47	0-2	0
	1	12	12.68		0
	1	24	12.41		0
	12	0	12.14	0-3	0
	12	6	12.23		0
	12	13	12.17		0
	25	0	12.22		0

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 8-235
LTE Band 30 Conducted Powers Ant 2b - 10 MHz Bandwidth, Inter-band ULCA Active

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	9.92	0	0
	1	25	10.06		0
	1	49	9.92		0
	25	0	10.04	0-1	0
	25	12	10.02		0
	25	25	9.97		0
	50	0	10.03		0
16QAM	1	0	10.04	0-1	0
	1	25	10.08		0
	1	49	10.09		0
	25	0	9.75	0-2	0
	25	12	9.74		0
	25	25	9.67		0
	50	0	9.71		0
64QAM	1	0	9.86	0-2	0
	1	25	9.97		0
	1	49	9.68		0
	25	0	9.75	0-3	0
	25	12	9.74		0
	25	25	9.64		0
	50	0	9.73		0

Table 8-236
LTE Band 30 Conducted Powers Ant 2b - 5 MHz Bandwidth, Inter-band ULCA Active

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	9.81	0	0
	1	12	9.72		0
	1	24	9.61		0
	12	0	9.88	0-1	0
	12	6	9.90		0
	12	13	9.77		0
	25	0	9.89		0
16QAM	1	0	10.03	0-1	0
	1	12	9.89		0
	1	24	9.85		0
	12	0	9.92	0-2	0
	12	6	9.84		0
	12	13	9.68		0
	25	0	9.86		0
64QAM	1	0	10.10	0-2	0
	1	12	10.09		0
	1	24	9.93		0
	12	0	9.92	0-3	0
	12	6	9.85		0
	12	13	9.68		0
	25	0	9.88		0

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 8-237
LTE Band 30 Conducted Powers Ant 4a - 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	13.35	0	0
	1	25	13.34		0
	1	49	13.11		0
	25	0	13.12	0-1	0
	25	12	13.10		0
	25	25	12.99		0
	50	0	13.11		0
16QAM	1	0	13.33	0-1	0
	1	25	13.45		0
	1	49	13.30		0
	25	0	13.12	0-2	0
	25	12	13.10		0
	25	25	12.95		0
	50	0	13.03		0
64QAM	1	0	12.98	0-2	0
	1	25	12.97		0
	1	49	12.87		0
	25	0	12.89	0-3	0
	25	12	12.91		0
	25	25	12.87		0
	50	0	12.83		0

Table 8-238
LTE Band 30 Conducted Powers Ant 4a - 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	13.39	0	0
	1	12	13.40		0
	1	24	13.35		0
	12	0	13.35	0-1	0
	12	6	13.32		0
	12	13	13.20		0
	25	0	13.29		0
16QAM	1	0	13.49	0-1	0
	1	12	13.45		0
	1	24	13.43		0
	12	0	13.03	0-2	0
	12	6	13.09		0
	12	13	12.96		0
	25	0	13.00		0
64QAM	1	0	12.88	0-2	0
	1	12	12.87		0
	1	24	12.61		0
	12	0	12.65	0-3	0
	12	6	12.81		0
	12	13	12.87		0
	25	0	13.00		0

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 8-239
LTE Band 30 Conducted Powers Ant 4a - 10 MHz Bandwidth, Inter-band ULCA Active

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	10.27	0	0
	1	25	10.32		0
	1	49	10.26		0
	25	0	10.40	0-1	0
	25	12	10.43		0
	25	25	10.50		0
	50	0	10.31		0
16QAM	1	0	10.41	0-1	0
	1	25	10.39		0
	1	49	10.21		0
	25	0	10.29	0-2	0
	25	12	10.21		0
	25	25	10.17		0
	50	0	10.22		0
64QAM	1	0	10.24	0-2	0
	1	25	10.34		0
	1	49	10.27		0
	25	0	10.22	0-3	0
	25	12	10.20		0
	25	25	10.09		0
	50	0	10.21		0

Table 8-240
LTE Band 30 Conducted Powers Ant 4a - 5 MHz Bandwidth, Inter-band ULCA Active

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	9.80	0	0
	1	12	9.74		0
	1	24	9.71		0
	12	0	10.04	0-1	0
	12	6	9.96		0
	12	13	9.88		0
	25	0	9.99		0
16QAM	1	0	9.91	0-1	0
	1	12	9.97		0
	1	24	9.90		0
	12	0	9.97	0-2	0
	12	6	9.98		0
	12	13	9.88		0
	25	0	10.00		0
64QAM	1	0	9.80	0-2	0
	1	12	9.71		0
	1	24	9.83		0
	12	0	9.75	0-3	0
	12	6	9.68		0
	12	13	9.61		0
	25	0	9.71		0

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 8-241
LTE Band 30 Conducted Powers Ant 4b - 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	13.32	0	0
	1	25	13.20		0
	1	49	13.16		0
	25	0	13.25	0-1	0
	25	12	13.19		0
	25	25	13.24		0
	50	0	13.24		0
16QAM	1	0	13.50	0-1	0
	1	25	13.43		0
	1	49	13.46		0
	25	0	13.28	0-2	0
	25	12	13.20		0
	25	25	13.27		0
	50	0	13.28		0
64QAM	1	0	13.47	0-2	0
	1	25	13.36		0
	1	49	13.42		0
	25	0	13.29	0-3	0
	25	12	13.21		0
	25	25	13.28		0
	50	0	13.26		0

Table 8-242
LTE Band 30 Conducted Powers Ant 4b - 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	13.33	0	0
	1	12	13.29		0
	1	24	13.28		0
	12	0	13.35	0-1	0
	12	6	13.30		0
	12	13	13.24		0
	25	0	13.38		0
16QAM	1	0	13.45	0-1	0
	1	12	13.37		0
	1	24	13.38		0
	12	0	13.34	0-2	0
	12	6	13.25		0
	12	13	13.22		0
	25	0	13.37		0
64QAM	1	0	13.42	0-2	0
	1	12	13.46		0
	1	24	13.50		0
	12	0	13.30	0-3	0
	12	6	13.23		0
	12	13	13.21		0
	25	0	13.39		0

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 8-243
LTE Band 30 Conducted Powers Ant 4b - 10 MHz Bandwidth, Inter-band ULCA Active

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	10.20	0	0
	1	25	10.23		0
	1	49	10.21		0
	25	0	10.24	0-1	0
	25	12	10.26		0
	25	25	10.28		0
	50	0	10.22		0
16QAM	1	0	10.35	0-1	0
	1	25	10.31		0
	1	49	10.37		0
	25	0	10.00	0-2	0
	25	12	9.99		0
	25	25	10.04		0
	50	0	10.07		0
64QAM	1	0	10.18	0-2	0
	1	25	10.25		0
	1	49	10.21		0
	25	0	10.05	0-3	0
	25	12	10.00		0
	25	25	10.05		0
	50	0	10.07		0

Table 8-244
LTE Band 30 Conducted Powers Ant 4b - 5 MHz Bandwidth, Inter-band ULCA Active

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	9.97	0	0
	1	12	9.94		0
	1	24	9.77		0
	12	0	10.10	0-1	0
	12	6	10.06		0
	12	13	10.02		0
	25	0	10.14		0
16QAM	1	0	10.20	0-1	0
	1	12	10.16		0
	1	24	10.11		0
	12	0	10.15	0-2	0
	12	6	10.09		0
	12	13	10.03		0
	25	0	10.14		0
64QAM	1	0	10.00	0-2	0
	1	12	9.99		0
	1	24	9.88		0
	12	0	9.77	0-3	0
	12	6	9.73		0
	12	13	9.68		0
	25	0	9.75		0

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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LTE Band 7

Table 8-245
LTE Band 7 Conducted Powers Ant 2a - 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	21100	21350		
			(2510.0 MHz)	(2535.0 MHz)	(2560.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	14.10	14.08	13.67	0	0
	1	50	13.98	13.88	13.68		0
	1	99	14.01	13.90	13.75		0
	50	0	14.00	13.82	13.89	0-1	0
	50	25	13.94	13.79	13.83		0
	50	50	13.87	13.71	13.69		0
	100	0	13.99	13.80	13.80		0
16QAM	1	0	13.90	13.84	13.63	0-1	0
	1	50	13.71	13.62	13.66		0
	1	99	13.72	13.72	13.77		0
	50	0	13.69	13.64	13.76	0-2	0
	50	25	13.66	13.51	13.73		0
	50	50	13.72	13.46	13.68		0
	100	0	13.68	13.53	13.72		0
64QAM	1	0	14.01	14.00	13.73	0-2	0
	1	50	13.82	13.90	13.86		0
	1	99	13.62	13.75	13.83		0
	50	0	13.58	13.52	13.46	0-3	0
	50	25	13.49	13.42	13.50		0
	50	50	13.32	13.30	13.39		0
	100	0	13.46	13.37	13.48		0

Table 8-246
LTE Band 7 Conducted Powers Ant 2a - 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	13.98	13.97	13.90	0	0
	1	36	13.96	13.84	13.88		0
	1	74	13.65	13.63	13.87		0
	36	0	14.08	13.98	13.97	0-1	0
	36	18	14.02	13.88	13.89		0
	36	37	13.95	13.75	13.88		0
	75	0	14.02	13.87	13.86		0
16QAM	1	0	14.09	14.08	13.92	0-1	0
	1	36	13.95	14.05	14.00		0
	1	74	13.62	13.84	13.96		0
	36	0	13.81	13.76	13.73	0-2	0
	36	18	13.72	13.68	13.66		0
	36	37	13.63	13.51	13.66		0
	75	0	13.69	13.67	13.63		0
64QAM	1	0	13.84	13.77	13.70	0-2	0
	1	36	13.77	13.65	13.74		0
	1	74	13.49	13.49	13.70		0
	36	0	13.56	13.49	13.49	0-3	0
	36	18	13.47	13.37	13.41		0
	36	37	13.39	13.27	13.39		0
	75	0	13.46	13.35	13.34		0

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Table 8-247
LTE Band 7 Conducted Powers Ant 2a - 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	13.97	13.77	13.75	0	0
	1	25	13.93	13.62	13.62		0
	1	49	13.85	13.52	13.78		0
	25	0	13.93	13.75	13.67	0-1	0
	25	12	13.81	13.66	13.65		0
	25	25	13.72	13.57	13.67		0
	50	0	13.77	13.67	13.60		0
16QAM	1	0	14.09	13.89	13.95	0-1	0
	1	25	13.97	13.70	13.70		0
	1	49	13.93	13.78	13.96		0
	25	0	13.59	13.48	13.35	0-2	0
	25	12	13.53	13.36	13.35		0
	25	25	13.46	13.30	13.40		0
	50	0	13.54	13.40	13.37		0
64QAM	1	0	14.08	13.86	13.78	0-2	0
	1	25	13.92	13.69	13.71		0
	1	49	13.70	13.56	13.89		0
	25	0	13.58	13.45	13.33	0-3	0
	25	12	13.49	13.34	13.33		0
	25	25	13.46	13.27	13.36		0
	50	0	13.49	13.35	13.33		0

Table 8-248
LTE Band 7 Conducted Powers Ant 2a - 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	13.82	13.72	13.51	0	0
	1	12	13.88	13.62	13.54		0
	1	24	13.79	13.58	13.68		0
	12	0	13.93	13.74	13.58	0-1	0
	12	6	13.93	13.69	13.58		0
	12	13	13.90	13.71	13.70		0
	25	0	13.95	13.68	13.67		0
16QAM	1	0	13.90	13.80	13.64	0-1	0
	1	12	13.91	13.72	13.67		0
	1	24	13.84	13.65	13.90		0
	12	0	13.65	13.45	13.48	0-2	0
	12	6	13.58	13.43	13.54		0
	12	13	13.58	13.41	13.53		0
	25	0	13.53	13.42	13.47		0
64QAM	1	0	13.91	13.73	13.71	0-2	0
	1	12	14.03	13.75	13.70		0
	1	24	14.07	13.77	13.85		0
	12	0	13.62	13.42	13.43	0-3	0
	12	6	13.57	13.38	13.37		0
	12	13	13.64	13.41	13.45		0
	25	0	13.55	13.42	13.35		0

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Table 8-249
LTE Band 7 Conducted Powers Ant 2a - 20 MHz Bandwidth, Inter-band ULCA Active

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	11.04	10.91	10.68	0	0
	1	50	10.88	10.67	10.72		0
	1	99	10.76	10.66	10.82		0
	50	0	10.89	10.75	10.74	0-1	0
	50	25	10.85	10.64	10.70		0
	50	50	10.76	10.58	10.63		0
	100	0	10.78	10.60	10.64		0
16QAM	1	0	11.06	10.52	10.56	0-1	0
	1	50	10.82	10.59	10.58		0
	1	99	10.65	10.55	10.71		0
	50	0	10.55	10.47	10.42	0-2	0
	50	25	10.53	10.37	10.38		0
	50	50	10.53	10.28	10.35		0
	100	0	10.46	10.30	10.36		0
64QAM	1	0	10.94	11.00	10.49	0-2	0
	1	50	10.74	10.72	10.46		0
	1	99	10.75	10.67	10.61		0
	50	0	10.61	10.57	10.43	0-3	0
	50	25	10.53	10.46	10.39		0
	50	50	10.46	10.33	10.37		0
	100	0	10.46	10.36	10.36		0

Table 8-250
LTE Band 7 Conducted Powers Ant 2a - 15 MHz Bandwidth, Inter-band ULCA Active

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	11.02	10.73	10.57	0	0
	1	36	10.93	10.56	10.47		0
	1	74	10.73	10.51	10.57		0
	36	0	10.88	10.69	10.64	0-1	0
	36	18	10.77	10.58	10.57		0
	36	37	10.73	10.57	10.59		0
	75	0	10.78	10.60	10.56		0
16QAM	1	0	11.10	10.91	10.70	0-1	0
	1	36	11.00	10.65	10.46		0
	1	74	10.79	10.79	10.73		0
	36	0	10.83	10.70	10.60	0-2	0
	36	18	10.80	10.59	10.53		0
	36	37	10.74	10.57	10.54		0
	75	0	10.76	10.61	10.53		0
64QAM	1	0	10.72	10.92	11.10	0-2	0
	1	36	10.81	10.72	10.96		0
	1	74	10.56	10.79	10.84		0
	36	0	10.85	10.69	10.64	0-3	0
	36	18	10.76	10.62	10.57		0
	36	37	10.73	10.56	10.55		0
	75	0	10.74	10.60	10.54		0

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Table 8-251
LTE Band 7 Conducted Powers Ant 2a - 10 MHz Bandwidth, Inter-band ULCA Active

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	10.85	10.76	10.65	0	0
	1	25	10.89	10.62	10.55		0
	1	49	10.81	10.57	10.73		0
	25	0	11.00	10.67	10.62	0-1	0
	25	12	10.87	10.56	10.59		0
	25	25	10.78	10.56	10.63		0
	50	0	10.86	10.59	10.57		0
16QAM	1	0	10.94	10.82	10.75	0-1	0
	1	25	10.93	10.74	10.54		0
	1	49	10.96	10.76	10.87		0
	25	0	10.91	10.63	10.57	0-2	0
	25	12	10.83	10.53	10.58		0
	25	25	10.78	10.52	10.62		0
	50	0	10.84	10.55	10.58		0
64QAM	1	0	11.04	10.74	11.05	0-2	0
	1	25	10.98	10.63	10.95		0
	1	49	10.93	10.72	10.91		0
	25	0	10.91	10.65	10.61	0-3	0
	25	12	10.85	10.50	10.59		0
	25	25	10.79	10.56	10.64		0
	50	0	10.85	10.56	10.55		0

Table 8-252
LTE Band 7 Conducted Powers Ant 2a - 5 MHz Bandwidth, Inter-band ULCA Active

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	21100	21425		
			(2502.5 MHz)	(2535.0 MHz)	(2567.5 MHz)		
Conducted Power [dBm]							
QPSK	1	0	10.89	10.77	10.51	0	0
	1	12	11.01	10.70	10.46		0
	1	24	10.99	10.81	10.61		0
	12	0	10.99	10.72	10.63	0-1	0
	12	6	11.01	10.70	10.58		0
	12	13	11.00	10.72	10.73		0
	25	0	11.00	10.75	10.60		0
16QAM	1	0	11.05	10.93	10.77	0-1	0
	1	12	11.10	10.87	10.62		0
	1	24	11.06	10.87	10.84		0
	12	0	11.01	10.78	10.56	0-2	0
	12	6	10.94	10.78	10.59		0
	12	13	11.01	10.74	10.71		0
	25	0	10.97	10.77	10.57		0
64QAM	1	0	11.04	11.06	10.80	0-2	0
	1	12	11.04	11.00	10.83		0
	1	24	11.10	11.06	10.97		0
	12	0	10.98	10.68	10.59	0-3	0
	12	6	10.95	10.67	10.65		0
	12	13	11.01	10.73	10.64		0
	25	0	10.91	10.71	10.54		0

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Table 8-253
LTE Band 7 Conducted Powers Ant 2b - 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	11.60	11.63	11.35	0	0
	1	50	11.42	11.43	11.31		0
	1	99	11.38	11.22	11.40		0
	50	0	11.44	11.45	11.23	0-1	0
	50	25	11.31	11.40	11.23		0
	50	50	11.27	11.20	11.19		0
	100	0	11.35	11.37	11.22		0
16QAM	1	0	11.50	11.65	11.27	0-1	0
	1	50	11.23	11.40	11.20		0
	1	99	11.25	11.30	11.25		0
	50	0	11.18	11.24	10.97	0-2	0
	50	25	11.04	11.12	10.83		0
	50	50	11.02	11.00	10.89		0
	100	0	11.05	11.09	10.94		0
64QAM	1	0	11.61	11.65	11.28	0-2	0
	1	50	11.34	11.30	11.13		0
	1	99	11.33	11.17	11.21		0
	50	0	11.21	11.22	10.96	0-3	0
	50	25	11.17	11.09	10.98		0
	50	50	11.01	10.95	10.91		0
	100	0	11.05	11.02	10.97		0

Table 8-254
LTE Band 7 Conducted Powers Ant 2b - 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	11.52	11.63	11.43	0	0
	1	36	11.63	11.50	11.40		0
	1	74	11.48	11.21	11.32		0
	36	0	11.56	11.52	11.28	0-1	0
	36	18	11.58	11.48	11.23		0
	36	37	11.54	11.31	11.18		0
	75	0	11.49	11.44	11.20		0
16QAM	1	0	11.43	11.63	11.47	0-1	0
	1	36	11.51	11.38	11.43		0
	1	74	11.32	11.32	11.47		0
	36	0	11.28	11.18	11.02	0-2	0
	36	18	11.30	11.12	10.98		0
	36	37	11.21	10.99	10.90		0
	75	0	11.28	11.05	11.00		0
64QAM	1	0	11.41	11.55	11.50	0-2	0
	1	36	11.43	11.61	11.47		0
	1	74	11.20	11.26	11.39		0
	36	0	11.30	11.17	11.01	0-3	0
	36	18	11.28	11.10	11.00		0
	36	37	11.21	11.00	10.91		0
	75	0	11.28	11.08	10.98		0

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Table 8-255
LTE Band 7 Conducted Powers Ant 2b - 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	11.60	11.64	11.45	0	0
	1	25	11.66	11.51	11.38		0
	1	49	11.69	11.30	11.47		0
	25	0	11.59	11.61	11.37	0-1	0
	25	12	11.65	11.48	11.34		0
	25	25	11.64	11.36	11.29		0
	50	0	11.65	11.48	11.32		0
16QAM	1	0	11.72	11.67	11.60	0-1	0
	1	25	11.57	11.45	11.52		0
	1	49	11.65	11.46	11.73		0
	25	0	11.26	11.12	11.11	0-2	0
	25	12	11.29	11.08	11.06		0
	25	25	11.23	11.00	11.09		0
	50	0	11.27	11.08	11.07		0
64QAM	1	0	11.66	11.51	11.44	0-2	0
	1	25	11.55	11.54	11.55		0
	1	49	11.69	11.35	11.65		0
	25	0	11.26	11.18	11.09	0-3	0
	25	12	11.26	11.05	11.08		0
	25	25	11.24	11.03	11.10		0
	50	0	11.28	11.10	11.10		0

Table 8-256
LTE Band 7 Conducted Powers Ant 2b - 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	11.39	11.44	11.34	0	0
	1	12	11.34	11.34	11.36		0
	1	24	11.44	11.25	11.47		0
	12	0	11.44	11.33	11.24	0-1	0
	12	6	11.43	11.30	11.28		0
	12	13	11.54	11.31	11.38		0
	25	0	11.47	11.33	11.32		0
16QAM	1	0	11.80	11.74	11.31	0-1	0
	1	12	11.69	11.50	11.18		0
	1	24	11.70	11.60	11.49		0
	12	0	11.37	11.23	11.00	0-2	0
	12	6	11.35	11.27	10.96		0
	12	13	11.41	11.22	11.07		0
	25	0	11.36	11.21	10.96		0
64QAM	1	0	11.78	11.73	11.32	0-2	0
	1	12	11.76	11.60	11.26		0
	1	24	11.79	11.61	11.33		0
	12	0	11.36	11.25	10.97	0-3	0
	12	6	11.37	11.27	10.97		0
	12	13	11.45	11.16	11.08		0
	25	0	11.37	11.21	10.95		0

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Table 8-257

LTE Band 7 Conducted Powers Ant 2b - 20 MHz Bandwidth, Inter-band ULCA Active

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	8.80	8.67	8.51	0	0
	1	50	8.49	8.34	8.42		0
	1	99	8.40	8.25	8.46		0
	50	0	8.63	8.46	8.33	0-1	0
	50	25	8.51	8.41	8.32		0
	50	50	8.35	8.28	8.30		0
	100	0	8.41	8.33	8.29		0
16QAM	1	0	8.70	8.50	8.33	0-1	0
	1	50	8.24	8.29	8.49		0
	1	99	8.33	8.31	8.61		0
	50	0	8.21	8.18	8.06	0-2	0
	50	25	8.14	8.14	8.14		0
	50	50	8.10	8.07	8.16		0
	100	0	8.08	8.14	8.14		0
64QAM	1	0	8.60	8.44	8.30	0-2	0
	1	50	8.47	8.08	8.38		0
	1	99	8.48	8.21	8.45		0
	50	0	8.31	8.19	8.11	0-3	0
	50	25	8.19	8.19	8.14		0
	50	50	8.14	8.04	8.15		0
	100	0	8.16	7.97	8.14		0

Table 8-258

LTE Band 7 Conducted Powers Ant 2b - 15 MHz Bandwidth, Inter-band ULCA Active

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	8.48	8.67	8.24	0	0
	1	36	8.27	8.49	8.23		0
	1	74	8.14	8.46	8.49		0
	36	0	8.47	8.37	8.31	0-1	0
	36	18	8.40	8.37	8.31		0
	36	37	8.33	8.33	8.45		0
	75	0	8.40	8.39	8.32		0
16QAM	1	0	8.59	8.75	8.33	0-1	0
	1	36	8.27	8.38	8.39		0
	1	74	8.23	8.34	8.59		0
	36	0	8.46	8.28	8.29	0-2	0
	36	18	8.37	8.22	8.19		0
	36	37	8.33	8.15	8.43		0
	75	0	8.35	8.23	8.31		0
64QAM	1	0	8.80	8.49	8.39	0-2	0
	1	36	8.66	8.13	8.55		0
	1	74	8.44	8.43	8.61		0
	36	0	8.42	8.29	8.26	0-3	0
	36	18	8.46	8.24	8.31		0
	36	37	8.49	8.13	8.34		0
	75	0	8.46	8.24	8.32		0

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Table 8-259
LTE Band 7 Conducted Powers Ant 2b - 10 MHz Bandwidth, Inter-band ULCA Active

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	8.48	8.41	8.13	0	0
	1	25	8.35	8.27	8.29		0
	1	49	8.43	8.40	8.23		0
	25	0	8.42	8.35	8.10	0-1	0
	25	12	8.46	8.33	8.25		0
	25	25	8.49	8.33	8.21		0
	50	0	8.46	8.39	8.23		0
16QAM	1	0	8.55	8.64	8.25	0-1	0
	1	25	8.55	8.51	8.37		0
	1	49	8.59	8.57	8.45		0
	25	0	8.36	8.34	8.10	0-2	0
	25	12	8.41	8.29	8.23		0
	25	25	8.45	8.33	8.21		0
	50	0	8.46	8.36	8.19		0
64QAM	1	0	8.56	8.57	8.59	0-2	0
	1	25	8.58	8.44	8.66		0
	1	49	8.45	8.14	8.80		0
	25	0	8.45	8.23	8.27	0-3	0
	25	12	8.39	8.09	8.37		0
	25	25	8.37	8.06	8.42		0
	50	0	8.41	8.22	8.36		0

Table 8-260
LTE Band 7 Conducted Powers Ant 2b - 5 MHz Bandwidth, Inter-band ULCA Active

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	8.65	8.41	8.36	0	0
	1	12	8.54	8.34	8.28		0
	1	24	8.52	8.42	8.35		0
	12	0	8.53	8.34	8.40	0-1	0
	12	6	8.50	8.27	8.41		0
	12	13	8.49	8.19	8.45		0
	25	0	8.54	8.31	8.38		0
16QAM	1	0	8.77	8.49	8.44	0-1	0
	1	12	8.65	8.43	8.45		0
	1	24	8.66	8.54	8.54		0
	12	0	8.62	8.33	8.42	0-2	0
	12	6	8.56	8.27	8.34		0
	12	13	8.55	8.15	8.41		0
	25	0	8.49	8.26	8.36		0
64QAM	1	0	8.69	8.68	8.74	0-2	0
	1	12	8.65	8.45	8.75		0
	1	24	8.69	8.59	8.76		0
	12	0	8.58	8.33	8.36	0-3	0
	12	6	8.57	8.25	8.38		0
	12	13	8.51	8.19	8.48		0
	25	0	8.54	8.29	8.36		0

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Table 8-261
LTE Band 7 Conducted Powers Ant 4a - 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	14.42	14.34	14.23	0	0
	1	50	14.50	14.27	14.05		0
	1	99	14.60	14.46	14.33		0
	50	0	14.32	14.26	14.20	0-1	0
	50	25	14.38	14.27	14.10		0
	50	50	14.53	14.33	14.24		0
	100	0	14.45	14.29	14.18		0
16QAM	1	0	14.56	14.30	14.53	0-1	0
	1	50	14.45	14.32	14.33		0
	1	99	14.60	14.31	14.45		0
	50	0	13.74	13.85	13.82	0-2	0
	50	25	13.80	13.76	13.75		0
	50	50	13.98	13.83	13.73		0
	100	0	13.85	13.78	13.70		0
64QAM	1	0	13.89	14.28	14.26	0-2	0
	1	50	13.92	14.20	14.11		0
	1	99	14.12	14.45	14.45		0
	50	0	13.76	13.87	13.81	0-3	0
	50	25	13.87	13.78	13.76		0
	50	50	14.10	13.93	13.90		0
	100	0	13.92	13.80	13.80		0

Table 8-262
LTE Band 7 Conducted Powers Ant 4a - 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	14.25	14.21	14.17	0	0
	1	36	14.30	14.24	14.20		0
	1	74	14.50	14.30	14.27		0
	36	0	14.17	14.25	14.17	0-1	0
	36	18	14.16	14.23	14.26		0
	36	37	14.31	14.31	14.31		0
	75	0	14.16	14.21	14.25		0
16QAM	1	0	14.14	14.09	14.18	0-1	0
	1	36	14.14	14.13	14.07		0
	1	74	14.38	14.20	14.15		0
	36	0	13.93	14.05	13.98	0-2	0
	36	18	13.97	14.05	14.06		0
	36	37	14.11	14.11	14.07		0
	75	0	13.92	13.99	14.01		0
64QAM	1	0	14.16	14.17	14.27	0-2	0
	1	36	14.02	14.26	14.39		0
	1	74	14.47	14.19	14.47		0
	36	0	13.95	14.07	13.93	0-3	0
	36	18	13.96	14.04	14.05		0
	36	37	14.12	14.12	14.06		0
	75	0	13.89	13.96	14.01		0

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Table 8-263
LTE Band 7 Conducted Powers Ant 4a - 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	14.10	14.23	14.09	0	0
	1	25	14.15	14.15	14.17		0
	1	49	14.23	14.28	14.29		0
	25	0	14.22	14.26	14.17	0-1	0
	25	12	14.19	14.17	14.26		0
	25	25	14.18	14.26	14.39		0
	50	0	14.21	14.17	14.29		0
16QAM	1	0	13.98	14.05	13.89	0-1	0
	1	25	14.08	14.20	14.04		0
	1	49	14.22	14.26	14.38		0
	25	0	14.01	14.04	13.97	0-2	0
	25	12	13.98	13.95	14.04		0
	25	25	13.98	14.05	14.17		0
	50	0	13.97	13.96	14.09		0
64QAM	1	0	14.17	14.16	14.33	0-2	0
	1	25	14.08	14.18	14.30		0
	1	49	14.20	14.34	14.42		0
	25	0	13.99	14.00	13.98	0-3	0
	25	12	13.98	13.96	14.04		0
	25	25	13.95	14.02	14.17		0
	50	0	14.03	13.95	14.07		0

Table 8-264
LTE Band 7 Conducted Powers Ant 4a - 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	14.04	14.33	13.97	0	0
	1	12	14.11	14.22	14.11		0
	1	24	14.06	14.37	14.11		0
	12	0	14.10	14.18	14.17	0-1	0
	12	6	14.08	14.19	14.26		0
	12	13	14.10	14.20	14.26		0
	25	0	14.10	14.18	14.26		0
16QAM	1	0	13.96	14.15	14.10	0-1	0
	1	12	14.08	14.05	14.11		0
	1	24	14.11	14.32	14.25		0
	12	0	13.87	14.02	13.99	0-2	0
	12	6	13.96	14.08	14.12		0
	12	13	13.90	13.99	14.05		0
	25	0	13.89	13.93	14.07		0
64QAM	1	0	14.12	14.14	14.15	0-2	0
	1	12	13.98	14.09	14.05		0
	1	24	13.98	14.21	14.25		0
	12	0	13.86	13.90	13.93	0-3	0
	12	6	14.00	13.83	14.05		0
	12	13	13.97	13.94	14.07		0
	25	0	13.93	13.93	14.04		0

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Table 8-265
LTE Band 7 Conducted Powers Ant 4a - 20 MHz Bandwidth, Inter-band ULCA Active

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	11.22	11.37	11.49	0	0
	1	50	11.18	11.26	11.23		0
	1	99	11.48	11.56	11.24		0
	50	0	11.09	11.35	11.27	0-1	0
	50	25	11.21	11.38	11.17		0
	50	50	11.41	11.48	11.14		0
	100	0	11.30	11.38	11.17		0
16QAM	1	0	11.15	11.46	11.43	0-1	0
	1	50	11.29	11.33	11.43		0
	1	99	11.31	11.42	11.47		0
	50	0	10.93	10.95	11.06	0-2	0
	50	25	10.98	10.91	10.98		0
	50	50	11.06	11.00	11.01		0
	100	0	11.21	10.99	10.86		0
64QAM	1	0	11.00	11.24	11.31	0-2	0
	1	50	11.07	11.12	11.16		0
	1	99	11.25	11.24	11.22		0
	50	0	11.01	11.08	10.91	0-3	0
	50	25	11.08	11.09	11.07		0
	50	50	11.09	11.22	11.11		0
	100	0	11.13	11.10	11.10		0

Table 8-266
LTE Band 7 Conducted Powers Ant 4a - 15 MHz Bandwidth, Inter-band ULCA Active

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	10.95	11.08	11.05	0	0
	1	36	11.12	10.84	10.88		0
	1	74	11.29	11.00	10.88		0
	36	0	11.13	11.03	11.02	0-1	0
	36	18	11.21	10.91	10.95		0
	36	37	11.24	11.07	10.98		0
	75	0	11.21	11.02	10.94		0
16QAM	1	0	11.21	11.04	11.14	0-1	0
	1	36	11.28	10.99	11.00		0
	1	74	11.35	11.07	10.96		0
	36	0	11.14	11.00	11.00	0-2	0
	36	18	11.07	10.87	10.99		0
	36	37	11.25	11.11	11.02		0
	75	0	11.16	10.99	10.94		0
64QAM	1	0	11.09	11.29	11.25	0-2	0
	1	36	11.05	10.99	11.14		0
	1	74	11.27	11.35	11.18		0
	36	0	10.88	11.04	11.04	0-3	0
	36	18	10.94	11.05	11.00		0
	36	37	11.00	11.15	11.06		0
	75	0	10.98	11.03	11.01		0

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Table 8-267
LTE Band 7 Conducted Powers Ant 4a - 10 MHz Bandwidth, Inter-band ULCA Active

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	10.95	11.24	11.04	0	0
	1	25	10.88	11.26	11.04		0
	1	49	11.16	11.10	11.07		0
	25	0	11.11	11.10	10.98	0-1	0
	25	12	11.15	10.96	11.02		0
	25	25	11.20	11.12	11.15		0
	50	0	11.15	11.10	11.11		0
16QAM	1	0	11.14	11.20	11.13	0-1	0
	1	25	11.19	11.12	11.09		0
	1	49	11.32	11.23	11.11		0
	25	0	11.08	11.09	11.00	0-2	0
	25	12	11.12	10.93	11.03		0
	25	25	11.20	11.11	11.17		0
	50	0	11.11	11.07	11.10		0
64QAM	1	0	11.15	11.55	11.22	0-2	0
	1	25	11.18	11.54	11.13		0
	1	49	11.13	11.52	11.30		0
	25	0	10.94	11.34	10.99	0-3	0
	25	12	10.93	11.22	11.01		0
	25	25	10.97	11.36	11.15		0
	50	0	10.97	11.33	11.11		0

Table 8-268
LTE Band 7 Conducted Powers Ant 4a - 5 MHz Bandwidth, Inter-band ULCA Active

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	10.91	11.18	10.90	0	0
	1	12	10.84	11.14	10.96		0
	1	24	10.94	11.29	10.94		0
	12	0	11.06	11.08	11.08	0-1	0
	12	6	11.04	11.11	11.08		0
	12	13	11.05	11.25	11.05		0
	25	0	11.07	11.24	11.10		0
16QAM	1	0	11.20	11.30	11.10	0-1	0
	1	12	11.18	11.42	11.10		0
	1	24	11.16	11.42	11.11		0
	12	0	11.08	11.13	11.03	0-2	0
	12	6	11.06	11.14	11.06		0
	12	13	11.07	11.24	11.05		0
	25	0	11.05	11.23	11.08		0
64QAM	1	0	11.14	11.49	11.27	0-2	0
	1	12	11.13	11.54	11.32		0
	1	24	11.25	11.58	11.26		0
	12	0	11.00	11.13	11.10	0-3	0
	12	6	10.98	11.08	11.22		0
	12	13	10.99	11.24	11.18		0
	25	0	10.97	11.21	11.21		0

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Table 8-269
LTE Band 7 Conducted Powers Ant 4b - 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	12.44	11.88	12.20	0	0
	1	50	12.37	12.09	12.15		0
	1	99	12.22	12.27	12.32		0
	50	0	12.15	11.92	12.08	0-1	0
	50	25	12.19	12.06	12.12		0
	50	50	12.22	12.13	12.21		0
	100	0	12.21	12.10	12.12		0
16QAM	1	0	12.50	11.77	12.20	0-1	0
	1	50	12.40	11.89	12.29		0
	1	99	11.90	12.21	12.46		0
	50	0	12.09	11.96	11.95	0-2	0
	50	25	12.11	11.94	12.05		0
	50	50	11.95	12.01	12.10		0
	100	0	12.04	12.00	11.99		0
64QAM	1	0	12.33	12.04	12.04	0-2	0
	1	50	12.12	12.16	11.97		0
	1	99	11.92	12.10	12.19		0
	50	0	12.03	12.08	12.16	0-3	0
	50	25	12.08	12.07	12.10		0
	50	50	12.06	12.10	12.17		0
	100	0	12.04	12.13	12.16		0

Table 8-270
LTE Band 7 Conducted Powers Ant 4b - 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	12.12	12.13	12.37	0	0
	1	36	12.13	12.38	12.33		0
	1	74	12.10	12.36	11.99		0
	36	0	12.15	12.31	12.34	0-1	0
	36	18	12.10	12.31	12.34		0
	36	37	12.20	12.30	12.28		0
	75	0	12.30	12.30	12.38		0
16QAM	1	0	11.92	12.23	12.33	0-1	0
	1	36	12.38	12.13	12.33		0
	1	74	12.39	12.30	12.34		0
	36	0	12.12	12.21	12.23	0-2	0
	36	18	12.29	12.19	12.26		0
	36	37	12.23	12.23	12.30		0
	75	0	12.26	12.28	12.20		0
64QAM	1	0	11.98	12.33	12.23	0-2	0
	1	36	12.36	12.33	12.27		0
	1	74	12.25	12.31	12.30		0
	36	0	12.12	12.32	12.37	0-3	0
	36	18	12.27	12.40	12.25		0
	36	37	12.24	12.32	12.27		0
	75	0	12.20	12.35	12.36		0

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Table 8-271
LTE Band 7 Conducted Powers Ant 4b - 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	12.15	12.18	12.35	0	0
	1	25	12.34	12.31	12.36		0
	1	49	12.50	12.35	12.21		0
	25	0	12.01	12.18	12.28	0-1	0
	25	12	12.10	12.24	12.19		0
	25	25	12.29	12.23	12.15		0
	50	0	12.13	12.24	12.19		0
16QAM	1	0	12.00	12.24	12.46	0-1	0
	1	25	12.21	12.30	12.43		0
	1	49	12.35	12.41	12.37		0
	25	0	12.00	12.12	12.19	0-2	0
	25	12	12.12	12.19	12.23		0
	25	25	12.17	12.22	12.14		0
	50	0	12.11	12.20	12.00		0
64QAM	1	0	12.16	12.32	12.29	0-2	0
	1	25	12.46	12.42	12.29		0
	1	49	12.25	12.42	12.43		0
	25	0	11.97	12.13	12.28	0-3	0
	25	12	12.09	12.20	12.28		0
	25	25	12.29	12.20	12.24		0
	50	0	12.11	12.00	12.20		0

Table 8-272
LTE Band 7 Conducted Powers Ant 4b - 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	12.28	12.15	12.47	0	0
	1	12	12.38	12.22	12.40		0
	1	24	12.46	12.23	12.34		0
	12	0	12.12	12.20	12.35	0-1	0
	12	6	12.16	12.21	12.18		0
	12	13	12.22	12.22	12.13		0
	25	0	12.08	12.21	12.18		0
16QAM	1	0	12.35	12.19	12.39	0-1	0
	1	12	12.46	12.29	12.49		0
	1	24	12.37	12.35	12.47		0
	12	0	12.06	12.23	12.20	0-2	0
	12	6	12.13	12.22	12.17		0
	12	13	12.23	12.24	12.14		0
	25	0	12.07	12.18	12.17		0
64QAM	1	0	12.37	12.32	12.37	0-2	0
	1	12	12.35	12.27	12.29		0
	1	24	12.25	12.33	12.37		0
	12	0	12.00	12.17	12.42	0-3	0
	12	6	12.08	12.28	12.18		0
	12	13	12.25	12.31	12.17		0
	25	0	12.02	12.25	12.25		0

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Table 8-273
LTE Band 7 Conducted Powers Ant 4b - 20 MHz Bandwidth, Inter-band ULCA Active

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	9.00	8.76	9.15	0	0
	1	50	9.07	8.82	9.21		0
	1	99	8.71	8.92	8.95		0
	50	0	8.99	8.75	9.15	0-1	0
	50	25	8.97	8.79	9.30		0
	50	50	8.88	8.83	9.02		0
	100	0	8.96	8.87	9.05		0
16QAM	1	0	9.00	9.00	9.11	0-1	0
	1	50	8.88	9.11	9.30		0
	1	99	9.01	9.05	9.20		0
	50	0	8.75	8.70	8.86	0-2	0
	50	25	8.65	8.57	9.03		0
	50	50	8.70	8.61	8.93		0
	100	0	8.67	8.60	8.92		0
64QAM	1	0	9.20	8.75	9.16	0-2	0
	1	50	9.16	8.70	9.34		0
	1	99	8.86	8.80	9.11		0
	50	0	8.78	8.50	9.00	0-3	0
	50	25	8.81	8.53	9.07		0
	50	50	8.80	8.63	8.93		0
	100	0	8.74	8.62	9.01		0

Table 8-274
LTE Band 7 Conducted Powers Ant 4b - 15 MHz Bandwidth, Inter-band ULCA Active

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	9.06	8.55	9.20	0	0
	1	36	9.34	8.83	8.93		0
	1	74	9.27	8.93	8.68		0
	36	0	9.03	8.81	9.06	0-1	0
	36	18	9.16	8.91	9.04		0
	36	37	9.12	8.92	8.88		0
	75	0	9.12	8.92	9.04		0
16QAM	1	0	9.08	8.85	9.13	0-1	0
	1	36	9.44	8.95	9.20		0
	1	74	9.39	9.06	8.74		0
	36	0	8.70	8.79	9.05	0-2	0
	36	18	8.93	8.88	8.99		0
	36	37	8.96	8.89	8.89		0
	75	0	8.92	8.91	9.00		0
64QAM	1	0	8.80	8.81	9.09	0-2	0
	1	36	9.28	9.08	9.25		0
	1	74	9.31	9.06	9.10		0
	36	0	9.01	8.96	9.15	0-3	0
	36	18	9.16	8.93	9.03		0
	36	37	9.10	8.91	8.89		0
	75	0	9.06	8.88	8.97		0

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Table 8-275
LTE Band 7 Conducted Powers Ant 4b - 10 MHz Bandwidth, Inter-band ULCA Active

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	8.80	8.68	9.24	0	0
	1	25	9.09	9.02	9.04		0
	1	49	9.21	9.02	8.81		0
	25	0	9.15	9.02	9.18	0-1	0
	25	12	9.24	9.04	9.05		0
	25	25	9.27	9.02	8.91		0
	50	0	9.19	9.07	9.04		0
16QAM	1	0	9.27	9.16	9.47	0-1	0
	1	25	9.36	9.08	9.25		0
	1	49	9.40	9.14	8.94		0
	25	0	9.16	9.03	9.21	0-2	0
	25	12	9.24	9.04	9.08		0
	25	25	9.25	9.06	8.90		0
	50	0	9.18	9.09	9.04		0
64QAM	1	0	9.12	9.00	9.30	0-2	0
	1	25	9.30	8.76	9.18		0
	1	49	9.35	8.77	9.00		0
	25	0	8.84	8.76	9.13	0-3	0
	25	12	8.96	8.88	9.10		0
	25	25	9.09	8.94	8.86		0
	50	0	8.94	8.88	9.03		0

Table 8-276
LTE Band 7 Conducted Powers Ant 4b - 5 MHz Bandwidth, Inter-band ULCA Active

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	8.90	8.79	9.31	0	0
	1	12	9.07	8.75	9.01		0
	1	24	9.33	8.85	8.93		0
	12	0	8.89	8.73	9.12	0-1	0
	12	6	9.01	8.74	9.06		0
	12	13	9.17	8.73	9.02		0
	25	0	9.05	8.77	9.02		0
16QAM	1	0	9.12	8.81	9.35	0-1	0
	1	12	9.26	8.78	9.15		0
	1	24	9.49	8.84	9.08		0
	12	0	8.90	8.76	9.19	0-2	0
	12	6	9.03	8.70	9.05		0
	12	13	9.15	8.75	9.02		0
	25	0	9.03	8.77	9.00		0
64QAM	1	0	9.02	8.98	9.48	0-2	0
	1	12	9.04	8.93	9.44		0
	1	24	9.26	9.09	9.28		0
	12	0	8.83	8.75	9.19	0-3	0
	12	6	8.90	8.68	9.06		0
	12	13	9.06	8.73	9.03		0
	25	0	8.86	8.77	9.01		0

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LTE Band 41 PC3

Table 8-277

LTE Band 41 PC3 Conducted Powers Ant 2a - 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	16.25	16.30	16.00	16.10	16.07	0	0
	1	50	16.23	16.18	15.98	15.98	16.05		0
	1	99	16.28	16.08	16.23	16.01	15.95		0
	50	0	16.29	16.06	15.90	16.08	16.07	0-1	0
	50	25	16.23	16.14	15.93	16.01	16.06		0
	50	50	16.30	16.16	16.06	15.94	16.10		0
	100	0	16.18	16.01	15.94	16.00	16.05		0
16QAM	1	0	16.35	16.18	15.84	16.24	16.04	0-1	0
	1	50	16.23	16.20	15.80	16.05	16.06		0
	1	99	16.27	16.36	16.10	16.09	16.01		0
	50	0	16.31	16.14	15.90	16.09	16.16	0-2	0
	50	25	16.24	16.13	15.94	16.02	16.10		0
	50	50	16.31	16.30	16.06	15.96	16.14		0
	100	0	16.20	16.15	15.95	16.03	16.06		0
64QAM	1	0	15.93	16.02	15.66	16.00	15.90	0-2	0
	1	50	16.08	16.12	15.71	15.87	15.89		0
	1	99	15.96	16.00	15.82	15.80	15.76		0
	50	0	15.99	16.04	15.62	15.88	15.85	0-3	0
	50	25	16.00	16.10	15.68	15.83	15.85		0
	50	50	15.98	16.03	15.77	15.71	15.73		0
	100	0	15.95	16.10	15.68	15.81	15.83		0

Table 8-278

LTE Band 41 PC3 Conducted Powers Ant 2a - 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	16.11	16.02	15.59	15.91	15.86	0	0
	1	36	16.17	16.20	15.78	15.92	15.94		0
	1	74	16.02	16.00	15.89	15.73	15.85		0
	36	0	16.03	16.05	15.61	15.88	15.88	0-1	0
	36	18	16.04	16.13	15.70	15.85	15.87		0
	36	37	15.96	16.04	15.71	15.74	15.81		0
	75	0	15.91	16.11	15.68	15.82	15.87		0
16QAM	1	0	16.26	16.22	15.66	16.05	15.98	0-1	0
	1	36	16.29	16.32	15.87	16.16	16.10		0
	1	74	16.19	16.07	16.07	15.90	15.92		0
	36	0	16.04	16.04	15.61	15.87	15.88	0-2	0
	36	18	16.05	16.13	15.70	15.85	15.86		0
	36	37	16.00	16.03	15.70	15.73	15.80		0
	75	0	15.97	16.10	15.67	15.81	15.86		0
64QAM	1	0	15.98	15.81	15.46	15.66	15.74	0-2	0
	1	36	16.01	16.00	15.61	15.71	15.77		0
	1	74	15.82	15.79	15.64	15.47	15.63		0
	36	0	16.01	16.03	15.59	15.85	15.87	0-3	0
	36	18	16.04	16.10	15.69	15.83	15.86		0
	36	37	16.00	16.02	15.69	15.72	15.80		0
	75	0	15.96	16.08	15.67	15.80	15.85		0

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Table 8-279
LTE Band 41 PC3 Conducted Powers Ant 2a - 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	16.14	16.08	15.70	15.93	15.85	0	0	
	1	25	16.06	16.15	15.71	15.85	15.90		0-1	0
	1	49	16.07	16.11	15.85	15.75	15.83			0
	25	0	16.03	16.07	15.67	15.85	15.82	0		
	25	12	15.98	16.07	15.65	15.80	15.83	0		0
	25	25	15.99	16.03	15.69	15.73	15.79		0	
	50	0	15.99	16.08	15.67	15.81	15.85		0	
16QAM	1	0	16.28	16.25	15.86	16.08	16.07	0-1	0	
	1	25	16.19	16.27	15.80	15.97	16.02		0-2	0
	1	49	16.20	16.28	15.95	15.93	16.00			0
	25	0	16.03	16.08	15.66	15.84	15.82	0		
	25	12	15.98	16.07	15.64	15.79	15.82	0		0
	25	25	15.98	16.04	15.69	15.76	15.78		0	
	50	0	16.00	16.10	15.68	15.81	15.84		0	
64QAM	1	0	15.91	15.99	15.53	15.72	15.64	0-2	0	
	1	25	15.96	15.92	15.50	15.74	15.74		0-3	0
	1	49	15.87	15.99	15.68	15.57	15.71			0
	25	0	16.04	16.10	15.67	15.87	15.82	0		
	25	12	15.98	16.08	15.66	15.80	15.87	0		0
	25	25	16.01	16.04	15.71	15.74	15.79		0	
	50	0	16.00	16.09	15.66	15.82	15.85		0	

Table 8-280
LTE Band 41 PC3 Conducted Powers Ant 2a - 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	16.13	16.03	15.78	15.88	15.80	0	0	
	1	12	16.06	16.08	15.73	15.80	15.86		0-1	0
	1	24	16.06	16.05	15.78	15.77	15.82			0
	12	0	16.00	16.00	15.66	15.77	15.77	0		
	12	6	15.98	16.00	15.65	15.74	15.77	0		0
	12	13	16.02	15.96	15.70	15.71	15.72		0	
	25	0	15.99	16.01	15.67	15.74	15.78		0	
16QAM	1	0	16.27	16.02	15.60	15.89	15.82	0-1	0	
	1	12	16.10	16.15	15.61	15.72	15.91		0-2	0
	1	24	16.05	15.99	15.73	15.61	15.88			0
	12	0	16.00	16.03	15.71	15.80	15.75	0		
	12	6	15.99	16.02	15.68	15.77	15.78	0		0
	12	13	16.02	15.98	15.72	15.74	15.73		0	
	25	0	16.00	16.01	15.70	15.74	15.77		0	
64QAM	1	0	16.19	16.06	15.76	15.89	15.84	0-2	0	
	1	12	16.07	16.03	15.66	15.90	15.79		0-3	0
	1	24	16.01	15.93	15.71	15.70	15.75			0
	12	0	15.97	16.01	15.64	15.80	15.75	0		
	12	6	15.97	16.03	15.65	15.74	15.79	0		0
	12	13	15.97	15.97	15.68	15.74	15.70		0	
	25	0	15.97	16.02	15.67	15.83	15.80		0	

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Table 8-281
LTE Band 41 PC3 Conducted Powers Ant 2b - 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	13.06	12.83	12.80	12.97	12.84	0	0
	1	50	13.15	12.82	12.81	12.83	12.98		0
	1	99	13.13	12.94	13.01	12.81	13.00		0
	50	0	13.00	12.80	12.80	12.87	12.86	0-1	0
	50	25	13.07	12.81	12.81	12.84	12.91		0
	50	50	13.03	12.83	12.92	12.80	12.94		0
	100	0	13.05	12.80	12.86	12.80	12.94		0
16QAM	1	0	13.26	12.96	13.01	13.11	12.99	0-1	0
	1	50	13.30	13.00	13.11	13.05	13.06		0
	1	99	13.28	13.09	13.37	12.85	13.21		0
	50	0	13.04	12.80	12.81	12.80	12.84	0-2	0
	50	25	13.06	12.80	12.80	12.85	12.89		0
	50	50	13.09	12.81	12.94	12.81	12.94		0
	100	0	13.09	12.81	12.88	12.86	12.93		0
64QAM	1	0	13.10	12.98	12.84	13.06	13.14	0-2	0
	1	50	13.15	13.04	12.81	12.87	13.17		0
	1	99	13.20	13.03	12.90	12.83	13.02		0
	50	0	13.10	12.90	12.80	12.98	13.10	0-3	0
	50	25	13.17	12.95	12.80	12.94	13.10		0
	50	50	13.17	12.94	12.81	12.84	12.97		0
	100	0	13.13	12.97	12.80	12.94	13.08		0

Table 8-282
LTE Band 41 PC3 Conducted Powers Ant 2b - 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	13.03	12.97	12.84	13.04	13.05	0	0	
	1	36	13.15	13.07	12.95	13.03	13.14		0-1	0
	1	74	13.08	12.99	13.02	12.81	12.93			0
	36	0	13.03	12.92	12.92	12.99	13.16	0		
	36	18	13.16	13.01	12.98	13.00	13.15	0		0
	36	37	13.15	12.98	12.96	12.90	13.09		0	
	75	0	13.14	13.00	12.95	12.97	13.12		0	
16QAM	1	0	12.89	13.19	12.93	12.99	12.82	0-1	0	
	1	36	13.11	13.28	12.80	13.00	13.08		0-2	0
	1	74	12.99	13.12	12.92	12.81	12.82			0
	36	0	13.05	12.90	12.95	13.01	13.15	0		0
	36	18	13.14	13.02	12.99	13.02	13.16			0
	36	37	13.18	12.98	12.95	12.88	13.08		0	
	75	0	13.16	13.00	12.97	12.96	13.12	0		
64QAM	1	0	13.04	12.81	12.83	13.00	13.10	0-2	0	
	1	36	13.18	12.85	12.99	12.83	13.22		0-3	0
	1	74	13.06	12.82	13.09	12.84	12.89			0
	36	0	13.02	12.91	12.90	13.04	13.15	0		0
	36	18	13.17	12.99	12.97	13.00	13.14			0
	36	37	13.12	12.99	12.96	12.89	13.07		0	
	75	0	13.12	12.97	12.95	12.96	13.12	0		

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Table 8-283
LTE Band 41 PC3 Conducted Powers Ant 2b - 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	13.34	13.10	12.93	13.07	13.23	0	0
	1	25	13.31	13.07	12.91	12.99	13.26		0
	1	49	13.37	13.07	13.01	12.91	13.21		0
	25	0	13.10	13.03	12.81	13.00	13.12	0-1	0
	25	12	13.17	13.02	12.82	13.00	13.03		0
	25	25	13.18	13.02	12.80	12.95	12.99		0
	50	0	13.18	13.04	12.80	12.99	13.05		0
16QAM	1	0	13.07	13.12	12.84	13.01	13.00	0-1	0
	1	25	13.08	13.22	12.84	12.84	13.00		0
	1	49	13.25	13.15	12.80	12.84	12.91		0
	25	0	13.10	12.99	12.84	13.00	13.00	0-2	0
	25	12	13.21	13.03	12.80	12.98	13.04		0
	25	25	13.20	13.03	12.83	12.94	13.03		0
	50	0	13.21	13.03	12.80	13.00	13.07		0
64QAM	1	0	12.87	13.05	12.87	12.85	13.03	0-2	0
	1	25	13.22	12.89	12.81	12.90	12.88		0
	1	49	13.12	12.93	12.86	12.80	12.80		0
	25	0	13.11	13.05	12.83	13.03	13.08	0-3	0
	25	12	13.15	13.05	12.80	13.01	13.09		0
	25	25	13.20	13.06	12.81	12.90	13.05		0
	50	0	13.23	13.05	12.84	12.99	13.10		0

Table 8-284
LTE Band 41 PC3 Conducted Powers Ant 2b - 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	13.18	13.09	13.05	12.95	13.18	0	0
	1	12	13.23	13.06	13.00	12.89	13.19		0
	1	24	13.27	13.07	13.08	12.85	13.18		0
	12	0	13.11	12.96	12.89	12.92	13.09	0-1	0
	12	6	13.08	12.96	12.84	12.89	13.06		0
	12	13	13.09	12.95	12.89	12.86	12.99		0
	25	0	13.10	12.93	12.88	12.89	13.05		0
16QAM	1	0	13.09	12.94	13.03	12.98	13.13	0-1	0
	1	12	13.14	12.92	12.98	13.02	12.97		0
	1	24	13.15	12.81	13.02	12.99	13.16		0
	12	0	13.06	12.94	12.91	12.91	13.02	0-2	0
	12	6	13.13	12.93	12.89	12.89	13.04		0
	12	13	13.06	12.90	12.90	12.89	13.00		0
	25	0	13.12	12.97	12.88	12.87	13.03		0
64QAM	1	0	13.10	12.82	12.91	12.80	13.11	0-2	0
	1	12	13.14	12.95	12.89	12.98	13.01		0
	1	24	13.15	12.94	12.99	12.97	12.95		0
	12	0	13.08	12.96	12.91	12.89	12.99	0-3	0
	12	6	13.09	12.91	12.92	12.84	13.04		0
	12	13	13.11	12.89	12.95	12.83	13.02		0
	25	0	13.08	12.95	12.89	12.89	13.05		0

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Table 8-285
LTE Band 41 PC3 Conducted Powers Ant 4a - 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	16.71	16.72	16.48	16.61	16.26	0	0
	1	50	16.84	16.73	16.53	16.55	16.32		0
	1	99	16.83	16.60	16.57	16.40	16.34		0
	50	0	16.83	16.76	16.54	16.58	16.25	0-1	0
	50	25	16.82	16.73	16.54	16.59	16.33		0
	50	50	16.80	16.68	16.52	16.44	16.33		0
	100	0	16.78	16.69	16.53	16.56	16.32		0
16QAM	1	0	16.75	16.76	16.60	16.57	16.23	0-1	0
	1	50	16.73	16.74	16.68	16.44	16.35		0
	1	99	16.87	16.60	16.66	16.29	16.32		0
	50	0	16.84	16.90	16.49	16.54	16.23	0-2	0
	50	25	16.87	16.77	16.52	16.52	16.34		0
	50	50	16.84	16.67	16.50	16.43	16.32		0
	100	0	16.83	16.74	16.48	16.53	16.30		0
64QAM	1	0	16.68	16.72	16.50	16.64	16.28	0-2	0
	1	50	16.85	16.80	16.54	16.60	16.28		0
	1	99	16.85	16.62	16.61	16.41	16.38		0
	50	0	16.84	16.81	16.49	16.54	16.24	0-3	0
	50	25	16.85	16.77	16.48	16.53	16.30		0
	50	50	16.82	16.70	16.46	16.43	16.33		0
	100	0	16.80	16.74	16.50	16.53	16.30		0

Table 8-286
LTE Band 41 PC3 Conducted Powers Ant 4a - 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	16.73	16.68	16.48	16.41	16.18	0	0
	1	36	16.70	16.65	16.59	16.40	16.34		0
	1	74	16.74	16.43	16.53	16.19	16.17		0
	36	0	16.62	16.73	16.43	16.43	16.16	0-1	0
	36	18	16.66	16.68	16.49	16.43	16.31		0
	36	37	16.70	16.53	16.46	16.30	16.28		0
	75	0	16.65	16.61	16.47	16.41	16.27		0
16QAM	1	0	16.89	16.62	16.58	16.26	16.29	0-1	0
	1	36	16.87	16.58	16.60	16.19	16.55		0
	1	74	16.90	16.32	16.53	16.06	16.29		0
	36	0	16.61	16.73	16.42	16.46	16.20	0-2	0
	36	18	16.65	16.66	16.53	16.46	16.35		0
	36	37	16.70	16.55	16.46	16.31	16.30		0
	75	0	16.65	16.63	16.48	16.40	16.29		0
64QAM	1	0	16.62	16.60	16.26	16.36	16.08	0-2	0
	1	36	16.55	16.57	16.49	16.41	16.20		0
	1	74	16.39	16.21	16.19	16.19	15.94		0
	36	0	16.61	16.70	16.43	16.45	16.18	0-3	0
	36	18	16.64	16.70	16.52	16.41	16.33		0
	36	37	16.67	16.54	16.47	16.29	16.29		0
	75	0	16.59	16.63	16.51	16.40	16.30		0

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Table 8-287
LTE Band 41 PC3 Conducted Powers Ant 4a - 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	16.76	16.77	16.55	16.57	16.25	0	0	
	1	25	16.67	16.62	16.55	16.50	16.27		0-1	0
	1	49	16.80	16.60	16.54	16.46	16.23			0
	25	0	16.61	16.62	16.41	16.43	16.28	0		
	25	12	16.61	16.60	16.44	16.41	16.28	0-1		0
	25	25	16.68	16.57	16.44	16.33	16.29		0	
	50	0	16.61	16.61	16.44	16.40	16.28		0	
16QAM	1	0	16.88	16.57	16.61	16.65	16.30	0-1	0	
	1	25	16.87	16.53	16.62	16.50	16.40		0-2	0
	1	49	16.90	16.47	16.55	16.46	16.35			0
	25	0	16.58	16.63	16.40	16.42	16.23	0-2		0
	25	12	16.60	16.60	16.44	16.39	16.23			0
	25	25	16.70	16.60	16.45	16.34	16.20		0	
	50	0	16.63	16.62	16.45	16.42	16.25		0	
64QAM	1	0	16.29	16.65	16.31	16.45	16.25	0-2	0	
	1	25	16.50	16.36	16.25	16.48	16.32		0-3	0
	1	49	16.71	16.56	16.39	16.34	16.30			0
	25	0	16.60	16.59	16.45	16.44	16.20	0-3		0
	25	12	16.62	16.55	16.44	16.41	16.22			0
	25	25	16.72	16.57	16.46	16.35	16.24		0	
	50	0	16.62	16.61	16.47	16.45	16.22		0	

Table 8-288
LTE Band 41 PC3 Conducted Powers Ant 4a - 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	16.72	16.70	16.49	16.32	16.36	0	0	
	1	12	16.67	16.60	16.51	16.29	16.32		0-1	0
	1	24	16.81	16.63	16.54	16.19	16.31			0
	12	0	16.52	16.53	16.33	16.34	16.20	0		
	12	6	16.54	16.50	16.37	16.30	16.18	0		
	12	13	16.64	16.51	16.38	16.30	16.17		0	
	25	0	16.57	16.53	16.40	16.33	16.18		0	
16QAM	1	0	16.69	16.56	16.42	16.41	16.23	0-1	0	
	1	12	16.57	16.71	16.53	16.45	16.04		0-2	0
	1	24	16.75	16.55	16.51	16.29	16.39			0
	12	0	16.59	16.56	16.36	16.32	16.18	0		
	12	6	16.57	16.53	16.41	16.34	16.15	0		
	12	13	16.67	16.49	16.41	16.31	16.18		0	
	25	0	16.59	16.55	16.39	16.34	16.19		0	
64QAM	1	0	16.61	16.41	16.46	16.36	16.30	0-2	0	
	1	12	16.68	16.54	16.53	16.47	16.21		0-3	0
	1	24	16.66	16.42	16.62	16.19	16.26			0
	12	0	16.56	16.52	16.39	16.35	16.21	0		
	12	6	16.53	16.43	16.46	16.27	16.14	0		
	12	13	16.64	16.51	16.38	16.29	16.22		0	
	25	0	16.55	16.58	16.41	16.29	16.19		0	

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Table 8-289
LTE Band 41 PC3 Conducted Powers Ant 4b - 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	14.68	14.48	14.37	14.80	14.20	0	0
	1	50	14.64	14.34	14.52	14.65	14.38		0
	1	99	14.63	14.27	14.72	14.51	14.51		0
	50	0	14.61	14.36	14.48	14.75	14.46	0-1	0
	50	25	14.52	14.37	14.56	14.72	14.41		0
	50	50	14.54	14.31	14.64	14.61	14.47		0
	100	0	14.51	14.33	14.63	14.70	14.40		0
16QAM	1	0	14.43	14.21	14.14	14.67	14.20	0-1	0
	1	50	14.34	14.11	14.23	14.61	14.25		0
	1	99	14.42	13.99	14.60	14.34	14.37		0
	50	0	14.41	14.24	14.19	14.52	14.19	0-2	0
	50	25	14.37	14.06	14.22	14.44	14.16		0
	50	50	14.31	14.05	14.27	14.28	14.18		0
	100	0	14.31	14.09	14.23	14.38	14.17		0
64QAM	1	0	14.27	14.08	14.23	14.11	14.21	0-2	0
	1	50	14.22	14.11	14.17	14.13	14.09		0
	1	99	14.25	14.13	14.19	14.15	14.07		0
	50	0	14.13	14.12	14.21	14.17	14.11	0-3	0
	50	25	14.15	14.05	14.20	14.25	14.13		0
	50	50	14.26	14.16	14.19	14.21	14.15		0
	100	0	14.27	14.18	14.11	14.20	14.19		0

Table 8-290
LTE Band 41 PC3 Conducted Powers Ant 4b - 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	14.50	14.57	14.27	14.38	14.07	0	0	
	1	36	14.48	14.56	14.35	14.39	14.16		0-1	0
	1	74	14.53	14.32	14.35	14.24	14.08			0
	36	0	14.41	14.35	14.20	14.33	14.07	0		
	36	18	14.43	14.35	14.25	14.33	14.05	0-1		0
	36	37	14.51	14.20	14.20	14.21	14.05		0	
	75	0	14.42	14.23	14.22	14.31	14.04		0	
16QAM	1	0	14.74	14.66	14.20	14.67	14.04	0-1	0	
	1	36	14.78	14.50	14.33	14.61	14.11		0-2	0
	1	74	14.79	14.45	14.36	14.44	14.03			0
	36	0	14.21	14.36	13.99	14.15	14.09	0-2		0
	36	18	14.26	14.37	14.04	14.15	14.07			0
	36	37	14.33	14.18	14.02	14.03	14.06		0	
	75	0	14.21	14.24	14.05	14.13	14.05	0		
64QAM	1	0	14.58	14.53	14.36	14.39	14.09	0-2	0	
	1	36	14.51	14.57	14.45	14.40	14.24		0-3	0
	1	74	14.56	14.36	14.47	14.28	14.16			0
	36	0	14.19	14.35	13.98	14.16	14.00	0		
	36	18	14.23	14.36	14.04	14.16	14.04	0-3		0
	36	37	14.29	14.17	14.01	14.02	14.03		0	
	75	0	14.18	14.23	14.03	14.11	14.03		0	

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Table 8-291
LTE Band 41 PC3 Conducted Powers Ant 4b - 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	14.48	14.54	14.29	14.34	14.02	0	0	
	1	25	14.42	14.43	14.27	14.26	14.01		0-1	0
	1	49	14.53	14.35	14.31	14.18	14.01			0
	25	0	14.42	14.50	14.21	14.33	14.03	0		
	25	12	14.41	14.41	14.23	14.29	14.02	0-1		0
	25	25	14.52	14.42	14.22	14.21	14.05		0	
	50	0	14.42	14.42	14.23	14.29	14.05		0	
16QAM	1	0	14.65	14.61	14.50	14.54	14.20	0-1	0	
	1	25	14.59	14.56	14.53	14.45	14.25		0-2	0
	1	49	14.79	14.40	14.62	14.34	14.22			0
	25	0	14.25	14.33	14.01	14.13	14.05	0-2		0
	25	12	14.22	14.22	14.02	14.10	14.03			0
	25	25	14.33	14.25	14.04	14.03	14.04		0	
	50	0	14.23	14.22	14.04	14.12	14.06	0		
64QAM	1	0	14.65	14.45	14.41	14.43	13.99	0-2	0	
	1	25	14.46	14.54	14.24	14.47	14.20		0-3	0
	1	49	14.68	14.49	14.35	14.30	14.11			0
	25	0	14.25	14.30	14.03	14.12	14.04	0		
	25	12	14.20	14.24	14.05	14.10	14.02	0-3		0
	25	25	14.30	14.24	14.04	14.03	14.05		0	
	50	0	14.25	14.26	14.04	14.14	14.07		0	

Table 8-292
LTE Band 41 PC3 Conducted Powers Ant 4b - 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	14.33	14.23	14.18	14.27	14.27	0	0	
	1	12	14.28	14.20	14.20	14.31	14.18		0-1	0
	1	24	14.25	14.14	14.21	14.20	14.16			0
	12	0	14.15	14.13	14.07	14.34	14.17	0		
	12	6	14.11	14.11	14.11	14.35	14.11	0		
	12	13	14.12	14.07	14.11	14.34	14.11	0		
	25	0	14.18	14.13	14.13	14.36	14.13	0		
16QAM	1	0	14.31	14.33	14.15	14.34	14.32	0-1	0	
	1	12	14.21	14.22	14.19	14.47	14.23		0-2	0
	1	24	14.23	14.11	14.27	14.30	14.13			0
	12	0	14.16	14.15	14.11	14.38	14.15	0		
	12	6	14.16	14.16	14.13	14.33	14.10	0		
	12	13	14.15	14.12	14.09	14.37	14.10	0		
	25	0	14.16	14.11	14.08	14.39	14.16	0		
64QAM	1	0	14.24	14.04	14.00	14.58	14.23	0-2	0	
	1	12	14.31	14.07	14.13	14.39	14.13		0-3	0
	1	24	14.23	14.14	14.16	14.46	14.26			0
	12	0	14.18	14.15	14.07	14.40	14.17	0		
	12	6	14.18	14.11	14.10	14.42	14.08	0		
	12	13	14.19	14.09	14.13	14.37	14.04	0		
	25	0	14.18	14.19	14.16	14.38	14.12	0		

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LTE Band 41 PC2

Table 8-293

LTE Band 41 PC2 Conducted Powers Ant 2a - 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	16.23	16.04	15.91	16.34	16.25	0	0
	1	50	16.21	16.28	15.91	16.18	16.23		0
	1	99	16.27	16.39	16.16	16.20	16.14		0
	50	0	16.28	16.06	15.92	16.08	16.12	0-1	0
	50	25	16.21	16.15	15.96	16.02	16.06		0
	50	50	16.34	16.16	16.08	15.96	16.11		0
	100	0	16.17	16.12	15.95	16.02	16.07		0
16QAM	1	0	16.25	16.09	16.03	16.31	16.15	0-1	0
	1	50	16.12	16.20	16.02	16.18	16.20		0
	1	99	16.23	16.29	16.33	16.17	16.10		0
	50	0	15.80	15.62	15.44	15.69	15.68	0-2	0
	50	25	15.73	15.73	15.46	15.60	15.64		0
	50	50	15.81	15.77	15.61	15.50	15.58		0
	100	0	15.71	15.73	15.46	15.60	15.61		0
64QAM	1	0	16.36	16.39	16.05	16.29	16.39	0-2	0
	1	50	16.39	16.40	16.12	16.19	16.33		0
	1	99	16.39	16.36	16.26	16.09	16.23		0
	50	0	16.00	16.07	15.64	15.90	15.86	0-3	0
	50	25	16.02	16.13	15.71	15.86	15.87		0
	50	50	15.98	16.06	15.80	15.73	15.76		0
	100	0	15.96	16.12	15.67	15.81	15.85		0

Table 8-294

LTE Band 41 PC2 Conducted Powers Ant 2a - 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	16.09	16.03	15.59	15.90	15.85	0	0	
	1	36	16.15	16.21	15.77	15.90	15.95		0-1	0
	1	74	16.02	16.00	15.89	15.74	15.83			0
	36	0	16.03	16.03	15.58	15.84	15.86	0-1		0
	36	18	16.05	16.10	15.67	15.83	15.86		0	
	36	37	16.00	16.02	15.68	15.72	15.79		0	
16QAM	75	0	15.96	16.08	15.65	15.78	15.84	0-1	0	
	1	0	16.37	16.38	15.78	16.40	16.35		0-1	0
	1	36	16.38	16.40	15.97	16.39	16.38			0
	1	74	16.36	16.39	16.06	16.18	16.30	0-2		0
	36	0	16.03	16.04	15.61	15.86	15.88		0	
	36	18	16.07	16.11	15.71	15.86	15.87		0	
64QAM	36	37	16.02	16.04	15.70	15.74	15.80	0-2	0	
	75	0	15.99	16.11	15.68	15.82	15.85		0-2	0
	1	0	16.38	16.33	15.89	16.24	16.10			0-3
	1	36	16.40	16.37	16.08	16.22	16.18	0		
	1	74	16.37	16.26	16.16	16.03	16.13	0		
	36	0	16.04	16.03	15.61	15.84	15.88	0		
64QAM	36	18	16.06	16.12	15.69	15.83	15.89	0-3	0	
	36	37	16.01	16.04	15.70	15.71	15.81		0	
	75	0	15.96	16.11	15.68	15.78	15.88		0	

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Table 8-295
LTE Band 41 PC2 Conducted Powers Ant 2a - 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	16.11	16.09	15.65	15.90	15.84	0	0	
	1	25	16.03	16.11	15.66	15.82	15.92		0-1	0
	1	49	16.02	16.07	15.79	15.72	15.85			0
	25	0	16.03	16.08	15.66	15.84	15.81	0		
	25	12	15.97	16.07	15.63	15.80	15.82	0		0
	25	25	15.98	16.02	15.68	15.74	15.77		0	
	50	0	15.99	16.08	15.66	15.80	15.84		0	
16QAM	1	0	16.37	16.39	16.13	16.34	16.38	0-1	0	
	1	25	16.40	16.40	16.21	16.20	16.38		0-2	0
	1	49	16.40	16.39	16.31	16.13	16.26			0
	25	0	16.06	16.08	15.68	15.86	15.82	0		
	25	12	16.00	16.07	15.66	15.82	15.85	0		0
	25	25	16.02	16.03	15.71	15.77	15.80		0	
	50	0	16.00	16.08	15.67	15.82	15.85		0	
64QAM	1	0	16.38	16.39	15.99	16.25	16.18	0-2	0	
	1	25	16.25	16.38	15.95	16.21	16.20		0-3	0
	1	49	16.37	16.37	16.18	16.09	16.08			0
	25	0	16.08	16.11	15.68	15.88	15.83	0		
	25	12	16.03	16.09	15.66	15.82	15.86	0		0
	25	25	16.01	16.07	15.69	15.75	15.81		0	
	50	0	16.02	16.10	15.70	15.81	15.85		0	

Table 8-296
LTE Band 41 PC2 Conducted Powers Ant 2a - 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	16.08	16.03	15.74	15.84	15.81	0	0
	1	12	16.00	16.04	15.70	15.76	15.81		0
	1	24	16.01	16.01	15.76	15.72	15.77		0
	12	0	15.98	16.00	15.66	15.76	15.77	0-1	0
	12	6	15.96	16.00	15.65	15.73	15.77		0
	12	13	15.99	15.95	15.69	15.70	15.72		0
	25	0	15.97	16.01	15.67	15.73	15.80		0
16QAM	1	0	16.38	16.01	15.96	16.23	15.82	0-1	0
	1	12	16.40	16.39	15.88	16.07	16.36		0
	1	24	16.37	16.37	16.15	16.06	16.27		0
	12	0	16.05	16.09	15.65	15.83	15.80	0-2	0
	12	6	16.01	16.06	15.64	15.79	15.82		0
	12	13	16.02	16.01	15.69	15.77	15.78		0
	25	0	16.02	16.02	15.65	15.81	15.81		0
64QAM	1	0	16.40	16.04	16.08	16.33	15.84	0-2	0
	1	12	16.39	16.39	16.01	16.21	16.25		0
	1	24	16.37	16.38	16.11	16.18	16.20		0
	12	0	15.99	16.02	15.64	15.82	15.79	0-3	0
	12	6	15.98	16.03	15.63	15.82	15.76		0
	12	13	16.06	16.01	15.67	15.78	15.74		0
	25	0	16.00	16.00	15.63	15.76	15.84		0

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Table 8-297
LTE Band 41 PC2 Conducted Powers Ant 2b - 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	13.04	12.80	12.81	13.01	12.85	0	0
	1	50	13.13	12.81	12.82	12.87	12.87		0
	1	99	13.12	12.82	13.09	12.81	12.91		0
	50	0	12.97	12.82	12.83	12.84	12.82	0-1	0
	50	25	13.08	12.86	12.88	12.82	12.86		0
	50	50	13.03	12.89	12.90	12.80	12.90		0
	100	0	13.07	12.88	12.86	12.80	12.88		0
16QAM	1	0	13.11	12.91	13.00	13.05	13.05	0-1	0
	1	50	13.25	13.10	13.02	12.92	13.15		0
	1	99	13.18	13.08	13.30	12.89	13.30		0
	50	0	13.02	12.85	12.87	12.85	12.85	0-2	0
	50	25	13.01	12.83	12.86	12.83	12.85		0
	50	50	13.02	12.84	12.86	12.80	12.90		0
	100	0	13.02	12.86	12.83	12.81	12.89		0
64QAM	1	0	13.38	13.20	13.20	13.48	13.22	0-2	0
	1	50	13.35	13.25	13.21	13.40	13.34		0
	1	99	13.38	13.27	13.38	13.32	13.32		0
	50	0	12.98	12.86	12.91	12.90	12.90	0-3	0
	50	25	13.06	12.90	12.96	12.87	12.97		0
	50	50	13.09	12.90	12.87	12.82	12.89		0
	100	0	13.06	12.88	12.83	12.80	12.94		0

Table 8-298
LTE Band 41 PC2 Conducted Powers Ant 2b - 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	13.02	13.05	12.87	13.12	12.85	0	0	
	1	36	13.15	13.18	12.99	13.09	13.03		0-1	0
	1	74	13.09	13.15	13.10	12.86	12.89			0
	36	0	12.93	12.99	12.87	13.03	12.87	0		
	36	18	13.05	13.10	12.93	13.01	12.92	0		0
	36	37	13.06	13.08	12.99	12.89	12.88		0	
	75	0	13.04	13.09	12.90	12.97	12.91		0	
16QAM	1	0	13.45	13.32	13.14	13.13	13.08	0-1	0	
	1	36	13.40	13.42	13.23	13.22	13.24		0-2	0
	1	74	13.41	13.29	13.38	12.89	13.00			0
	36	0	12.91	13.00	12.90	13.00	12.91	0		
	36	18	13.04	12.90	12.90	13.00	12.94	0		0
	36	37	13.06	12.87	12.96	12.92	12.93		0	
	75	0	13.01	12.86	12.92	12.98	12.94		0	
64QAM	1	0	13.36	12.91	12.96	13.08	13.09	0-2	0	
	1	36	13.30	13.25	13.05	13.17	13.34		0-3	0
	1	74	13.32	13.13	13.00	13.07	13.29			0
	36	0	12.90	12.99	12.88	13.04	12.86	0		
	36	18	13.03	13.10	12.93	13.02	12.92	0		0
	36	37	13.04	13.08	12.96	12.87	12.90		0	
	75	0	13.01	13.08	12.92	12.99	12.91		0	

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Table 8-299
LTE Band 41 PC2 Conducted Powers Ant 2b - 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	13.06	12.81	12.92	13.12	12.97	0	0
	1	25	13.11	12.85	12.93	13.05	13.00		0
	1	49	13.19	12.88	13.10	12.97	12.95		0
	25	0	12.95	12.85	12.91	13.00	12.89	0-1	0
	25	12	13.04	12.83	12.90	12.97	12.92		0
	25	25	13.06	12.86	12.97	12.92	12.92		0
	50	0	13.04	12.86	12.92	12.98	12.93		0
16QAM	1	0	13.42	13.23	13.17	13.21	13.43	0-1	0
	1	25	13.42	13.24	13.17	13.16	13.36		0
	1	49	13.41	13.26	13.20	13.06	13.40		0
	25	0	12.92	12.87	12.94	12.99	12.92	0-2	0
	25	12	13.02	12.87	12.91	12.97	12.94		0
	25	25	13.05	12.90	12.98	12.94	12.92		0
	50	0	13.05	12.82	12.91	12.96	12.95		0
64QAM	1	0	13.34	13.13	13.18	13.10	13.28	0-2	0
	1	25	13.39	12.99	13.19	13.01	13.27		0
	1	49	13.47	13.23	13.28	12.90	13.38		0
	25	0	12.96	12.82	12.94	12.99	12.89	0-3	0
	25	12	13.07	12.86	12.94	12.95	12.95		0
	25	25	13.09	12.89	13.01	12.89	12.94		0
	50	0	13.05	12.94	12.95	12.98	12.95		0

Table 8-300
LTE Band 41 PC2 Conducted Powers Ant 2b - 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	12.98	12.87	12.82	13.00	12.90	0	0	
	1	12	13.03	12.83	12.80	12.92	12.89		0-1	0
	1	24	13.06	12.84	12.86	12.88	12.87			0
	12	0	12.97	12.84	12.81	12.91	12.85	0		
	12	6	12.96	12.81	12.82	12.91	12.87	0		0
	12	13	13.01	12.82	12.88	12.93	12.84		0	
	25	0	13.01	12.83	12.82	12.92	12.88		0	
16QAM	1	0	13.45	13.35	13.11	13.08	13.19	0-1	0	
	1	12	13.35	13.22	13.18	12.95	13.25		0-2	0
	1	24	13.47	13.32	13.22	12.94	13.32			0
	12	0	12.98	12.85	12.86	12.97	12.86	0		
	12	6	13.03	12.84	12.86	12.97	12.91	0		0
	12	13	13.03	12.85	12.87	12.92	12.88		0	
	25	0	12.99	12.87	12.89	12.96	12.88		0	
64QAM	1	0	13.35	13.29	13.22	13.13	13.32	0-2	0	
	1	12	13.40	13.28	13.13	13.17	13.29		0-3	0
	1	24	13.43	13.24	13.08	13.08	13.33			0
	12	0	13.03	12.81	12.84	12.96	12.88	0		
	12	6	13.06	12.82	12.80	12.94	12.93	0		0
	12	13	13.04	12.87	12.91	12.87	12.90		0	
	25	0	13.01	12.84	12.84	12.95	12.88		0	

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Table 8-301
LTE Band 41 PC2 Conducted Powers Ant 4a - 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	16.49	16.71	16.25	16.41	16.23	0	0
	1	50	16.60	16.74	16.28	16.32	16.29		0
	1	99	16.60	16.64	16.34	16.30	16.31		0
	50	0	16.65	16.58	16.31	16.35	16.04	0-1	0
	50	25	16.64	16.57	16.31	16.35	16.13		0
	50	50	16.64	16.50	16.32	16.25	16.13		0
	100	0	16.57	16.56	16.31	16.34	16.12		0
16QAM	1	0	16.70	16.86	16.52	16.55	16.39	0-1	0
	1	50	16.75	16.90	16.58	16.50	16.44		0
	1	99	16.80	16.75	16.55	16.35	16.47		0
	50	0	16.42	16.33	16.11	16.13	15.92	0-2	0
	50	25	16.41	16.31	16.10	16.12	15.90		0
	50	50	16.40	16.23	16.10	16.02	15.91		0
	100	0	16.35	16.28	16.09	16.08	15.90		0
64QAM	1	0	16.89	16.90	16.57	16.70	16.45	0-2	0
	1	50	16.86	16.89	16.70	16.66	16.60		0
	1	99	16.88	16.80	16.82	16.79	16.49		0
	50	0	16.43	16.45	16.11	16.59	16.00	0-3	0
	50	25	16.40	16.37	16.19	16.18	16.07		0
	50	50	16.46	16.27	16.18	16.04	16.04		0
	100	0	16.38	16.33	16.15	16.12	16.05		0

Table 8-302
LTE Band 41 PC2 Conducted Powers Ant 4a - 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	16.71	16.72	16.48	16.43	16.24	0	0
	1	36	16.68	16.67	16.55	16.44	16.38		0
	1	74	16.70	16.46	16.51	16.23	16.22		0
	36	0	16.63	16.71	16.40	16.37	16.19	0-1	0
	36	18	16.59	16.68	16.46	16.37	16.28		0
	36	37	16.65	16.50	16.43	16.27	16.25		0
	75	0	16.59	16.54	16.45	16.34	16.27		0
16QAM	1	0	16.61	16.87	16.42	16.53	16.13	0-1	0
	1	36	16.58	16.88	16.35	16.50	16.30		0
	1	74	16.80	16.53	16.51	16.21	16.09		0
	36	0	16.36	16.44	16.15	16.14	15.93	0-2	0
	36	18	16.40	16.44	16.22	16.12	16.03		0
	36	37	16.45	16.26	16.18	16.00	15.97		0
	75	0	16.37	16.32	16.19	16.13	16.01		0
64QAM	1	0	16.86	16.54	16.50	16.43	16.26	0-2	0
	1	36	16.76	16.65	16.61	16.42	16.34		0
	1	74	16.79	16.47	16.63	16.27	16.37		0
	36	0	16.38	16.47	16.14	16.11	15.93	0-3	0
	36	18	16.37	16.42	16.21	16.16	16.05		0
	36	37	16.45	16.26	16.16	16.02	16.00		0
	75	0	16.35	16.31	16.18	16.13	16.00		0

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Table 8-303
LTE Band 41 PC2 Conducted Powers Ant 4a - 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	16.66	16.78	16.46	16.47	16.24	0	0
	1	25	16.57	16.63	16.47	16.40	16.25		0
	1	49	16.71	16.58	16.47	16.31	16.20		0
	25	0	16.59	16.63	16.39	16.35	16.26	0-1	0
	25	12	16.57	16.53	16.42	16.33	16.26		0
	25	25	16.67	16.53	16.43	16.26	16.26		0
	50	0	16.58	16.55	16.45	16.33	16.26		0
16QAM	1	0	16.90	16.87	16.59	16.54	16.40	0-1	0
	1	25	16.80	16.77	16.65	16.50	16.33		0
	1	49	16.87	16.81	16.58	16.28	16.29		0
	25	0	16.38	16.40	16.14	16.14	16.00	0-2	0
	25	12	16.37	16.33	16.17	16.06	15.99		0
	25	25	16.46	16.34	16.20	15.96	15.99		0
	50	0	16.38	16.34	16.23	16.11	16.00		0
64QAM	1	0	16.85	16.83	16.53	16.61	16.43	0-2	0
	1	25	16.61	16.47	16.55	16.47	16.35		0
	1	49	16.83	16.53	16.67	16.28	16.44		0
	25	0	16.35	16.41	16.17	16.14	16.03	0-3	0
	25	12	16.33	16.35	16.16	16.04	16.01		0
	25	25	16.40	16.35	16.17	15.98	16.02		0
	50	0	16.40	16.29	16.22	16.13	16.04		0

Table 8-304
LTE Band 41 PC2 Conducted Powers Ant 4a - 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	16.63	16.64	16.49	16.28	16.20	0	0
	1	12	16.59	16.52	16.52	16.25	16.17		0
	1	24	16.69	16.58	16.52	16.19	16.19		0
	12	0	16.54	16.62	16.43	16.32	16.15	0-1	0
	12	6	16.56	16.52	16.45	16.29	16.15		0
	12	13	16.63	16.53	16.47	16.26	16.15		0
	25	0	16.59	16.52	16.50	16.30	16.17		0
16QAM	1	0	16.86	16.69	16.72	16.55	16.27	0-1	0
	1	12	16.84	16.57	16.66	16.43	16.37		0
	1	24	16.82	16.68	16.64	16.45	16.37		0
	12	0	16.33	16.41	16.20	16.13	15.96	0-2	0
	12	6	16.33	16.25	16.22	16.09	15.92		0
	12	13	16.36	16.28	16.21	16.07	15.94		0
	25	0	16.31	16.34	16.27	16.08	15.91		0
64QAM	1	0	16.86	16.75	16.60	16.30	16.49	0-2	0
	1	12	16.71	16.69	16.56	16.54	16.44		0
	1	24	16.86	16.71	16.76	16.22	16.32		0
	12	0	16.35	16.36	16.25	16.11	15.92	0-3	0
	12	6	16.34	16.25	16.27	16.10	16.03		0
	12	13	16.47	16.34	16.22	16.10	16.01		0
	25	0	16.36	16.34	16.18	16.15	15.99		0

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Table 8-305
LTE Band 41 PC2 Conducted Powers Ant 4b - 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	14.61	14.39	14.35	14.80	14.65	0	0
	1	50	14.52	14.36	14.49	14.66	14.37		0
	1	99	14.56	14.27	14.71	14.55	14.50		0
	50	0	14.70	14.43	14.45	14.79	14.41	0-1	0
	50	25	14.53	14.41	14.53	14.74	14.43		0
	50	50	14.57	14.35	14.59	14.65	14.47		0
	100	0	14.55	14.35	14.58	14.70	14.45		0
16QAM	1	0	14.75	14.58	14.35	14.80	14.51	0-1	0
	1	50	14.64	14.43	14.66	14.77	14.54		0
	1	99	14.61	14.33	14.72	14.62	14.48		0
	50	0	14.16	13.98	13.99	14.25	13.97	0-2	0
	50	25	14.11	13.91	14.07	14.18	13.94		0
	50	50	14.11	13.86	14.11	14.14	13.97		0
64QAM	100	0	14.10	13.87	14.12	14.18	13.91		0
	1	0	14.26	14.13	14.11	14.25	14.14	0-2	0
	1	50	14.26	14.21	14.26	14.16	14.23		0
	1	99	14.34	14.37	14.21	14.27	13.97		
	50	0	14.51	14.25	14.25	13.99	14.15	0-3	0
	50	25	14.56	14.26	14.27	13.97	14.12		0
	50	50	14.65	14.21	14.16	14.14	14.13		0
100	0	14.61	14.26	14.15	14.25	14.11	0		

Table 8-306
LTE Band 41 PC2 Conducted Powers Ant 4b - 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	14.56	14.61	14.33	14.43	14.07	0	0	
	1	36	14.55	14.59	14.40	14.44	14.16		0-1	0
	1	74	14.59	14.38	14.42	14.29	14.09			0
	36	0	14.50	14.62	14.29	14.42	14.06	0		
	36	18	14.52	14.62	14.33	14.42	14.14	0		
	36	37	14.58	14.46	14.30	14.30	14.11		0	
	75	0	14.48	14.50	14.29	14.40	14.12		0	
16QAM	1	0	14.72	14.77	14.48	14.57	14.27	0-1	0	
	1	36	14.71	14.74	14.52	14.52	14.28		0-2	0
	1	74	14.70	14.39	14.59	14.39	14.23			0
	36	0	14.48	14.62	14.27	14.41	14.09	0		
	36	18	14.51	14.63	14.32	14.42	14.13	0		
	36	37	14.57	14.46	14.31	14.28	14.11		0	
	75	0	14.50	14.52	14.30	14.39	14.12		0	
64QAM	1	0	14.45	14.41	14.15	14.25	14.06	0-2	0	
	1	36	14.38	14.49	14.22	14.33	14.07		0-3	0
	1	74	14.38	14.22	14.26	14.10	14.08			0
	36	0	14.46	14.62	14.27	14.42	14.07	0		
	36	18	14.51	14.62	14.33	14.42	14.14	0		
	36	37	14.55	14.46	14.30	14.28	14.11		0	
	75	0	14.44	14.50	14.31	14.39	14.12		0	

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Table 8-307
LTE Band 41 PC2 Conducted Powers Ant 4b - 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	14.61	14.46	14.49	14.77	14.36	0	0
	1	25	14.54	14.41	14.49	14.77	14.35		0
	1	49	14.55	14.42	14.54	14.66	14.30		0
	25	0	14.52	14.44	14.40	14.64	14.53	0-1	0
	25	12	14.45	14.44	14.45	14.64	14.56		0
	25	25	14.46	14.40	14.46	14.55	14.26		0
	50	0	14.45	14.44	14.48	14.53	14.28		0
16QAM	1	0	14.80	14.39	14.52	14.50	14.56	0-1	0
	1	25	14.78	14.41	14.53	14.62	14.36		0
	1	49	14.59	14.33	14.64	14.58	14.37		0
	25	0	14.52	14.43	14.42	14.46	14.51	0-2	0
	25	12	14.47	14.41	14.43	14.63	14.46		0
	25	25	14.43	14.39	14.47	14.44	14.58		0
	50	0	14.46	14.40	14.46	14.49	14.56		0
64QAM	1	0	14.70	14.44	14.67	14.75	14.51	0-2	0
	1	25	14.66	14.39	14.53	14.76	14.46		0
	1	49	14.63	14.29	14.62	14.56	14.50		0
	25	0	14.50	14.42	14.43	14.71	14.51	0-3	0
	25	12	14.44	14.43	14.45	14.56	14.52		0
	25	25	14.46	14.49	14.48	14.55	14.44		0
	50	0	14.48	14.49	14.50	14.46	14.43		0

Table 8-308
LTE Band 41 PC2 Conducted Powers Ant 4b - 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	14.52	14.63	14.38	14.44	14.13	0	0
	1	12	14.48	14.52	14.37	14.36	14.11		0
	1	24	14.58	14.51	14.40	14.33	14.15		0
	12	0	14.38	14.51	14.28	14.35	14.07	0-1	0
	12	6	14.41	14.45	14.33	14.30	14.06		0
	12	13	14.48	14.45	14.31	14.30	14.07		0
	25	0	14.44	14.45	14.34	14.32	14.08		0
16QAM	1	0	14.57	14.54	14.45	14.39	14.12	0-1	0
	1	12	14.44	14.45	14.53	14.38	14.15		0
	1	24	14.73	14.50	14.37	14.30	14.16		0
	12	0	14.41	14.54	14.30	14.35	14.06	0-2	0
	12	6	14.43	14.48	14.34	14.33	14.05		0
	12	13	14.51	14.47	14.33	14.30	14.07		0
	25	0	14.45	14.45	14.34	14.34	14.09		0
64QAM	1	0	14.52	14.53	14.29	14.33	14.06	0-2	0
	1	12	14.42	14.46	14.32	14.26	14.08		0
	1	24	14.53	14.48	14.31	14.15	14.06		0
	12	0	14.39	14.52	14.30	14.34	14.06	0-3	0
	12	6	14.39	14.44	14.34	14.30	14.07		0
	12	13	14.48	14.45	14.35	14.26	14.05		0
	25	0	14.45	14.48	14.37	14.36	14.05		0

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LTE Band 48

Table 8-309
LTE Band 48 Conducted Powers Ant 1 - 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	15.40	15.03	15.23	14.74	0	0
	1	50	15.11	14.92	15.01	14.63		0
	1	99	15.22	15.22	15.05	14.90		0
	50	0	15.23	14.97	15.21	14.59	0-1	0
	50	25	15.17	14.92	15.07	14.58		0
	50	50	15.15	15.00	14.96	14.61		0
	100	0	15.22	15.01	15.14	14.66		0
16QAM	1	0	15.30	15.20	15.30	14.65	0-1	0
	1	50	15.01	14.95	14.96	14.52		0
	1	99	15.12	15.25	15.00	14.73		0
	50	0	15.05	14.80	15.00	14.50	0-2	0
	50	25	14.97	14.77	14.91	14.51		0
	50	50	14.93	14.80	14.80	14.52		0
	100	0	15.06	14.87	15.00	14.50		0
64QAM	1	0	15.34	15.10	15.30	14.80	0-2	0
	1	50	15.17	14.83	15.10	14.55		0
	1	99	15.22	15.12	15.05	14.81		0
	50	0	15.02	14.79	14.97	14.50	0-3	0
	50	25	14.95	14.75	14.90	14.51		0
	50	50	14.95	14.81	14.79	14.50		0
	100	0	15.07	14.88	15.00	14.53		0

Table 8-310
LTE Band 48 Conducted Powers Ant 1 - 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	15.35	14.98	15.18	14.67	0	0
	1	36	15.06	14.87	14.96	14.56		0
	1	74	15.17	15.17	15.00	14.83		0
	36	0	15.18	14.92	15.16	14.52	0-1	0
	36	18	15.12	14.87	15.02	14.51		0
	36	37	15.10	14.95	14.91	14.54		0
	75	0	15.17	14.96	15.09	14.59		0
16QAM	1	0	15.25	15.15	15.25	14.58	0-1	0
	1	36	14.96	14.90	14.91	14.51		0
	1	74	15.05	15.18	14.93	14.66		0
	36	0	14.98	14.73	14.93	14.61	0-2	0
	36	18	14.90	14.70	14.84	14.64		0
	36	37	14.86	14.73	14.73	14.61		0
	75	0	14.99	14.80	14.93	14.62		0
64QAM	1	0	15.32	15.08	15.28	14.78	0-2	0
	1	36	15.15	14.81	15.08	14.53		0
	1	74	15.20	15.10	15.03	14.79		0
	36	0	15.00	14.77	14.95	14.61	0-3	0
	36	18	14.93	14.73	14.88	14.62		0
	36	37	14.93	14.79	14.77	14.63		0
	75	0	15.05	14.86	14.98	14.51		0

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Table 8-311
LTE Band 48 Conducted Powers Ant 1 - 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	15.34	14.95	15.20	14.68	0	0
	1	25	15.05	14.84	14.98	14.57		0
	1	49	15.16	15.14	15.02	14.84		0
	25	0	15.17	14.89	15.18	14.53	0-1	0
	25	12	15.11	14.84	15.04	14.52		0
	25	25	15.09	14.92	14.93	14.55		0
	50	0	15.16	14.93	15.11	14.60		0
16QAM	1	0	15.24	15.12	15.27	14.59	0-1	0
	1	25	14.95	14.87	14.93	14.54		0
	1	49	15.04	15.15	14.95	14.67		0
	25	0	14.97	14.70	14.95	14.56	0-2	0
	25	12	14.89	14.67	14.86	14.67		0
	25	25	14.85	14.70	14.75	14.68		0
	50	0	14.98	14.77	14.95	14.61		0
64QAM	1	0	15.26	15.05	15.30	14.79	0-2	0
	1	25	15.09	14.78	15.10	14.54		0
	1	49	15.14	15.07	15.05	14.62		0
	25	0	14.94	14.74	14.97	14.67	0-3	0
	25	12	14.87	14.70	14.90	14.50		0
	25	25	14.87	14.76	14.79	14.61		0
	50	0	14.99	14.83	15.00	14.52		0

Table 8-312
LTE Band 48 Conducted Powers Ant 1 - 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	15.29	14.90	15.15	14.63	0	0
	1	12	15.00	14.79	14.93	14.52		0
	1	24	15.11	15.09	14.97	14.79		0
	12	0	15.12	14.84	15.13	14.52	0-1	0
	12	6	15.06	14.79	14.99	14.56		0
	12	13	15.04	14.87	14.88	14.50		0
	25	0	15.11	14.88	15.06	14.55		0
16QAM	1	0	15.19	15.07	15.22	14.54	0-1	0
	1	12	14.90	14.82	14.88	14.51		0
	1	24	14.99	15.10	14.90	14.62		0
	12	0	14.92	14.65	14.90	14.55	0-2	0
	12	6	14.84	14.62	14.81	14.56		0
	12	13	14.80	14.65	14.70	14.54		0
	25	0	14.93	14.72	14.90	14.59		0
64QAM	1	0	15.21	15.00	15.25	14.74	0-2	0
	1	12	15.04	14.73	15.05	14.51		0
	1	24	15.09	15.02	15.00	14.75		0
	12	0	14.89	14.69	14.92	14.54	0-3	0
	12	6	14.82	14.65	14.85	14.55		0
	12	13	14.82	14.71	14.74	14.55		0
	25	0	14.94	14.78	14.95	14.56		0

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Table 8-313
LTE Band 48 Conducted Powers Ant 3 - 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	17.01	17.10	17.32	17.17	0	0
	1	50	16.88	16.95	17.05	16.91		0
	1	99	17.10	17.21	17.27	17.11		0
	50	0	16.98	16.97	17.15	16.98	0-1	0
	50	25	16.80	16.95	17.06	16.93		0
	50	50	16.82	17.00	17.12	16.90		0
	100	0	16.88	17.04	17.14	17.01		0
16QAM	1	0	17.23	17.06	17.35	17.19	0-1	0
	1	50	17.18	16.97	17.03	16.89		0
	1	99	17.32	17.22	17.30	17.07		0
	50	0	16.80	16.93	17.07	16.92	0-2	0
	50	25	16.75	16.93	17.02	16.86		0
	50	50	16.83	16.96	17.04	16.83		0
	100	0	16.86	17.02	17.12	16.92		0
64QAM	1	0	16.80	16.95	17.30	17.04	0-2	0
	1	50	16.57	16.95	17.10	16.88		0
	1	99	16.87	17.12	17.21	16.94		0
	50	0	16.53	16.67	16.81	16.64	0-3	0
	50	25	16.47	16.64	16.73	16.55		0
	50	50	16.52	16.70	16.80	16.56		0
	100	0	16.60	16.75	16.84	16.66		0

Table 8-314
LTE Band 48 Conducted Powers Ant 3 - 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	16.96	17.05	17.27	17.19	0	0
	1	36	16.83	16.90	17.00	16.93		0
	1	74	17.05	17.16	17.22	17.13		0
	36	0	16.79	16.92	17.10	17.00	0-1	0
	36	18	16.75	16.90	17.01	16.95		0
	36	37	16.77	16.95	17.07	16.92		0
	75	0	16.83	16.99	17.09	17.03		0
16QAM	1	0	17.18	17.01	17.30	17.21	0-1	0
	1	36	17.13	16.92	16.98	16.91		0
	1	74	17.27	17.17	17.25	17.09		0
	36	0	16.75	16.88	17.02	16.94	0-2	0
	36	18	16.70	16.88	16.97	16.88		0
	36	37	16.81	16.94	17.00	16.85		0
	75	0	16.84	17.19	17.27	16.94		0
64QAM	1	0	16.78	16.90	17.04	17.06	0-2	0
	1	36	16.55	16.90	16.99	16.90		0
	1	74	16.85	16.93	17.01	16.96		0
	36	0	16.51	16.99	17.09	16.66	0-3	0
	36	18	16.45	16.92	17.10	16.57		0
	36	37	16.50	16.92	17.07	16.58		0
	75	0	16.58	17.09	17.18	16.68		0

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Table 8-315
LTE Band 48 Conducted Powers Ant 3 - 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	16.93	17.02	17.24	17.16	0	0
	1	25	16.80	16.87	16.97	16.90		0
	1	49	17.02	17.13	17.19	17.10		0
	25	0	16.76	16.89	17.07	16.97	0-1	0
	25	12	16.72	16.87	16.98	16.92		0
	25	25	16.74	16.92	17.04	16.89		0
	50	0	16.80	16.96	17.06	17.00		0
16QAM	1	0	17.15	16.98	17.27	17.18	0-1	0
	1	25	17.10	16.89	16.95	16.88		0
	1	49	17.24	17.14	17.22	17.06		0
	25	0	16.72	16.85	16.99	16.91	0-2	0
	25	12	16.67	16.85	16.94	16.85		0
	25	25	16.78	16.91	16.97	16.82		0
	50	0	16.81	17.16	17.24	16.91		0
64QAM	1	0	16.75	16.87	17.01	17.03	0-2	0
	1	25	16.52	16.87	16.96	16.87		0
	1	49	16.82	16.90	16.98	16.93		0
	25	0	16.48	16.96	17.06	16.63	0-3	0
	25	12	16.42	16.89	17.12	16.54		0
	25	25	16.47	16.89	17.04	16.55		0
	50	0	16.55	17.06	17.15	16.65		0

Table 8-316
LTE Band 48 Conducted Powers Ant 3 - 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	17.00	17.09	17.31	17.23	0	0
	1	12	16.87	16.94	17.04	16.97		0
	1	24	17.09	17.20	17.26	17.17		0
	12	0	16.83	16.96	17.14	17.04	0-1	0
	12	6	16.79	16.94	17.05	16.99		0
	12	13	16.81	16.99	17.11	16.96		0
	25	0	16.87	17.03	17.13	17.07		0
16QAM	1	0	17.22	17.05	17.34	17.25	0-1	0
	1	12	17.17	16.96	17.02	16.95		0
	1	24	17.31	17.21	17.29	17.13		0
	12	0	16.79	16.92	17.06	16.98	0-2	0
	12	6	16.74	16.92	17.01	16.92		0
	12	13	16.85	16.98	17.04	16.89		0
	25	0	16.88	17.23	17.31	16.98		0
64QAM	1	0	16.82	16.94	17.08	17.10	0-2	0
	1	12	16.59	16.94	17.03	16.94		0
	1	24	16.89	16.97	17.05	17.00		0
	12	0	16.55	17.03	17.13	16.70	0-3	0
	12	6	16.49	16.96	17.20	16.61		0
	12	13	16.54	16.96	17.11	16.62		0
	25	0	16.62	17.13	17.22	16.72		0

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Table 8-317
LTE Band 48 Conducted Powers Ant 2b - 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	14.49	14.60	14.74	14.43	0	0
	1	50	14.45	14.50	14.53	14.24		0
	1	99	14.56	14.74	14.80	14.23		0
	50	0	14.47	14.57	14.60	14.32	0-1	0
	50	25	14.47	14.55	14.55	14.25		0
	50	50	14.45	14.65	14.63	14.23		0
	100	0	14.55	14.51	14.62	14.31		0
16QAM	1	0	14.38	14.57	14.48	14.16	0-1	0
	1	50	14.33	14.43	14.33	14.00		0
	1	99	14.50	14.58	14.57	14.04		0
	50	0	14.19	14.15	14.55	14.07	0-2	0
	50	25	14.21	14.12	14.28	13.99		0
	50	50	14.17	14.18	14.33	13.97		0
	100	0	14.32	14.23	14.30	14.09		0
64QAM	1	0	14.37	14.52	14.60	14.36	0-2	0
	1	50	14.40	14.35	14.46	14.15		0
	1	99	14.47	14.66	14.57	14.16		0
	50	0	14.20	14.13	14.31	14.04	0-3	0
	50	25	14.20	14.10	14.25	13.97		0
	50	50	14.19	14.15	14.32	13.95		0
	100	0	14.30	14.22	14.34	14.05		0

Table 8-318
LTE Band 48 Conducted Powers Ant 2b - 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	14.50	14.47	14.73	14.59	0	0
	1	36	14.49	14.33	14.70	14.58		0
	1	74	14.55	14.40	14.59	14.41		0
	36	0	14.42	14.44	14.51	14.48	0-1	0
	36	18	14.51	14.45	14.53	14.51		0
	36	37	14.51	14.44	14.51	14.40		0
	75	0	14.58	14.49	14.59	14.58		0
16QAM	1	0	14.17	14.65	14.39	14.29	0-1	0
	1	36	14.30	14.56	14.43	14.25		0
	1	74	14.46	14.65	14.39	14.24		0
	36	0	14.17	14.16	14.19	14.21	0-2	0
	36	18	14.24	14.15	14.19	14.22		0
	36	37	14.23	14.15	14.17	14.11		0
	75	0	14.29	14.23	14.30	14.30		0
64QAM	1	0	14.08	14.33	14.39	14.20	0-2	0
	1	36	14.31	14.36	14.31	14.23		0
	1	74	14.27	14.56	14.38	14.17		0
	36	0	14.18	14.12	14.21	14.23	0-3	0
	36	18	14.18	14.13	14.19	14.21		0
	36	37	14.19	14.12	14.16	14.17		0
	75	0	14.30	14.22	14.30	14.31		0

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Table 8-319
LTE Band 48 Conducted Powers Ant 2b - 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	14.60	14.42	14.48	14.42	0	0
	1	25	14.38	14.25	14.28	14.40		0
	1	49	14.80	14.51	14.53	14.53		0
	25	0	14.25	14.38	14.45	14.47	0-1	0
	25	12	14.23	14.28	14.34	14.28		0
	25	25	14.38	14.36	14.45	14.22		0
	50	0	14.37	14.37	14.47	14.37		0
16QAM	1	0	14.14	14.57	14.46	14.21	0-1	0
	1	25	14.02	14.34	14.24	13.83		0
	1	49	14.34	14.53	14.39	14.13		0
	25	0	13.96	14.02	14.02	14.10	0-2	0
	25	12	13.94	13.96	13.97	13.93		0
	25	25	14.09	14.02	14.03	13.96		0
	50	0	14.12	14.10	14.20	14.10		0
64QAM	1	0	14.06	14.43	14.30	14.32	0-2	0
	1	25	13.89	14.23	14.02	13.85		0
	1	49	14.28	14.43	14.18	13.90		0
	25	0	13.91	14.03	14.05	14.12	0-3	0
	25	12	13.91	13.98	14.00	13.90		0
	25	25	14.06	14.04	14.04	13.85		0
	50	0	14.12	14.12	14.17	14.08		0

Table 8-320
LTE Band 48 Conducted Powers Ant 2b - 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	14.38	14.51	14.62	14.45	0	0
	1	12	14.20	14.43	14.45	14.22		0
	1	24	14.42	14.70	14.67	14.32		0
	12	0	14.34	14.42	14.51	14.46	0-1	0
	12	6	14.28	14.36	14.39	14.30		0
	12	13	14.44	14.41	14.49	14.33		0
	25	0	14.45	14.52	14.61	14.48		0
16QAM	1	0	14.22	14.34	14.50	14.25	0-1	0
	1	12	13.95	14.28	14.56	14.06		0
	1	24	14.50	14.51	14.76	14.14		0
	12	0	13.95	14.16	14.26	14.02	0-2	0
	12	6	14.04	14.14	14.21	13.96		0
	12	13	14.04	14.13	14.36	13.97		0
	25	0	14.22	14.35	14.54	14.25		0
64QAM	1	0	14.34	14.60	14.57	14.28	0-2	0
	1	12	14.00	14.19	14.29	14.28		0
	1	24	14.62	14.40	14.64	14.21		0
	12	0	13.98	14.19	14.28	14.17	0-3	0
	12	6	14.05	14.15	14.15	14.00		0
	12	13	14.08	14.16	14.25	13.95		0
	25	0	14.29	14.39	14.49	14.24		0

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Table 8-321
LTE Band 48 Conducted Powers Ant 4b - 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	16.17	16.08	16.21	16.02	0	0
	1	50	16.11	15.98	16.00	15.78		0
	1	99	16.18	16.28	16.26	16.12		0
	50	0	16.24	15.88	16.00	15.90	0-1	0
	50	25	16.04	15.93	15.96	15.84		0
	50	50	15.97	16.03	16.02	15.96		0
	100	0	16.07	16.03	16.08	15.94		0
16QAM	1	0	15.90	16.13	16.10	15.86	0-1	0
	1	50	15.90	15.90	15.77	15.61		0
	1	99	16.04	16.30	16.21	16.00		0
	50	0	15.75	15.64	15.75	15.61	0-2	0
	50	25	15.76	15.67	15.72	15.54		0
	50	50	15.70	15.78	15.76	15.65		0
	100	0	15.87	15.82	15.83	15.64		0
64QAM	1	0	16.09	15.85	16.35	15.84	0-2	0
	1	50	15.96	16.00	16.10	15.72		0
	1	99	16.04	16.11	16.23	15.91		0
	50	0	15.78	15.65	15.76	15.57	0-3	0
	50	25	15.78	15.70	15.74	15.52		0
	50	50	15.72	15.78	15.78	15.61		0
	100	0	15.88	15.82	15.86	15.64		0

Table 8-322
LTE Band 48 Conducted Powers Ant 4b - 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	15.78	16.11	16.13	15.96	0	0
	1	36	15.76	16.09	16.05	15.87		0
	1	74	15.80	16.17	16.12	15.92		0
	36	0	15.93	15.90	15.99	15.90	0-1	0
	36	18	15.99	15.99	16.00	15.97		0
	36	37	16.03	16.01	15.98	15.95		0
	75	0	16.04	16.06	16.06	16.03		0
16QAM	1	0	15.59	16.07	15.96	15.68	0-1	0
	1	36	15.74	16.15	15.86	15.62		0
	1	74	15.72	16.19	16.04	15.55		0
	36	0	15.65	15.65	15.79	15.59	0-2	0
	36	18	15.72	15.72	15.73	15.62		0
	36	37	15.79	15.72	15.76	15.60		0
	75	0	15.83	15.78	15.87	15.72		0
64QAM	1	0	15.77	16.10	15.92	15.60	0-2	0
	1	36	15.59	16.01	15.93	15.62		0
	1	74	15.81	16.30	15.94	15.59		0
	36	0	15.67	15.58	15.72	15.57	0-3	0
	36	18	15.74	15.68	15.71	15.64		0
	36	37	15.81	15.71	15.68	15.65		0
	75	0	15.83	15.80	15.82	15.74		0

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Table 8-323
LTE Band 48 Conducted Powers Ant 4b - 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	16.27	16.13	16.18	16.10	0	0
	1	25	16.03	16.06	15.94	15.97		0
	1	49	16.00	16.22	16.21	16.25		0
	25	0	15.95	16.06	16.15	16.04	0-1	0
	25	12	15.91	16.01	16.08	15.98		0
	25	25	16.03	16.10	16.16	16.04		0
	50	0	16.02	16.13	16.18	16.11		0
16QAM	1	0	15.62	16.24	16.23	15.81	0-1	0
	1	25	15.40	15.98	16.02	15.50		0
	1	49	15.86	16.34	16.11	15.92		0
	25	0	15.54	15.73	15.76	15.66	0-2	0
	25	12	15.55	15.67	15.68	15.59		0
	25	25	15.67	15.76	15.72	15.64		0
	50	0	15.73	15.86	15.89	15.76		0
64QAM	1	0	15.95	16.13	15.99	15.86	0-2	0
	1	25	15.47	16.09	16.00	15.68		0
	1	49	16.01	16.37	16.07	15.97		0
	25	0	15.51	15.72	15.72	15.70	0-3	0
	25	12	15.51	15.69	15.66	15.62		0
	25	25	15.66	15.76	15.72	15.67		0
	50	0	15.75	15.86	15.86	15.76		0

Table 8-324
LTE Band 48 Conducted Powers Ant 4b - 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	15.85	16.08	16.13	16.04	0	0
	1	12	15.70	16.00	16.02	15.71		0
	1	24	15.95	16.30	16.18	15.93		0
	12	0	15.85	15.96	16.07	15.98	0-1	0
	12	6	15.76	15.89	15.96	15.86		0
	12	13	15.88	15.98	16.04	15.95		0
	25	0	15.92	16.09	16.14	16.05		0
16QAM	1	0	15.78	15.72	15.82	15.65	0-1	0
	1	12	15.41	15.40	15.96	15.41		0
	1	24	15.77	15.88	15.94	15.46		0
	12	0	15.40	15.56	15.57	15.40	0-2	0
	12	6	15.40	15.46	15.60	15.51		0
	12	13	15.44	15.51	15.77	15.44		0
	25	0	15.54	15.78	15.84	15.67		0
64QAM	1	0	15.69	16.15	15.71	15.76	0-2	0
	1	12	15.47	15.53	15.89	15.60		0
	1	24	15.74	15.84	16.00	15.40		0
	12	0	15.44	15.53	15.77	15.45	0-3	0
	12	6	15.41	15.49	15.72	15.41		0
	12	13	15.48	15.48	15.76	15.40		0
	25	0	15.56	15.77	15.85	15.67		0

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8.3.14 LTE Uplink Carrier Aggregation Conducted Powers

Table 8-325

LTE Uplink Carrier Aggregation Conducted Powers – Antenna 1

LTE Carrier Aggregation Conducted Powers - Antenna 1																				
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC						SCC						Power				
				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	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	20.45	20.60

Table 8-326

LTE Uplink Carrier Aggregation Conducted Powers – Antenna 3

LTE Carrier Aggregation Conducted Powers																			Power			
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC					Modulation	PCC UL# RB	PCC UL RB Offset	SCC					Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
					PCC DL Channel	PCC DL Frequency [MHz]							SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel				SCC DL Frequency [MHz]	
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	21.00	20.83		

Table 8-327

LTE Uplink Carrier Aggregation Conducted Powers – Antenna 2a

LTE CA Power Carrier Aggregation Conducted Power Antenna Lab																	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_7C	LTE B7	20	21100	2535.0	3100	2655.0	QPSK	50	0	LTE B7	20	20902	2515.2	2902	2635.2	QPSK	50	50	13.70	13.82
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC					SCC					Power						
				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	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	15.58	16.30				
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC					SCC					Power						
				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	40185	2549.5	QPSK	1	0	LTE B41 PC2	20	39987	2529.7	QPSK	1	99	15.77	16.04				

Table 8-328

LTE Uplink Carrier Aggregation Conducted Powers – Antenna 2b

LTE Single Carrier Aggregation Configured Powers - Antenna 25																				
Combination	PCC										SCC					Power				
	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_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	50	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	50	50	11.14	11.23
Combination	PCC							SCC					Power		LTE Single Carrier Tx Power (dBm)					
	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)				
CA_41C	LTE B41	20	40185	2549.5	QPSK	50	50	LTE B41	20	40383	2569.3	QPSK	50	0	12.10	12.83				
Combination	PCC							SCC					Power		LTE Single Carrier Tx Power (dBm)					
	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)				
CA_41C	LTE B41 PC2	20	40185	2549.5	QPSK	50	50	LTE B41 PC2	20	40383	2569.3	QPSK	50	0	12.26	12.89				

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Table 8-329
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 4a

	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 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 Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	20850	2510.0	2850	2630.0	QPSK	50	50	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	50	0	14.42	14.53
	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	40185	2549.5	QPSK	50	0	LTE B41	20	39987	2529.7	QPSK	50	50	16.48	16.76				
	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	40185	2549.5	QPSK	50	0	LTE B41 PC2	20	39987	2529.7	QPSK	50	50	16.70	16.58				

Table 8-330
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 4b

	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_7C	LTE B7	20	21100	2535.0	3100	2655.0	QPSK	50	50	LTE B7	20	21298	2554.8	3298	2674.8	QPSK	50	0	12.10	12.13
	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	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	13.75	14.31				
	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	41490	2680.0	QPSK	1	0	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	14.22	14.65				

Notes:

1. This device supports uplink carrier aggregation for LTE CA_7C, LTE CA_5B 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.

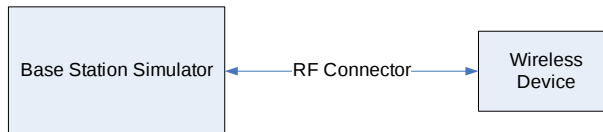


Figure 8-3
Power Measurement Setup

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8.4 WLAN Maximum Conducted Powers

8.4.1 Variant 1

Table 8-331
2.4 GHz WLAN Maximum Average RF Power – Ant 2A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	13.06	13.98	14.00
2437	6	13.01	14.00	13.95
2462	11	13.20	13.99	13.96

Table 8-332
2.4 GHz WLAN Maximum Average RF Power – Ant 4A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	12.78	13.70	13.75
2437	6	12.76	13.74	13.74
2462	11	12.79	13.73	13.67

Table 8-333
5 GHz WLAN Maximum Average RF Power – 5GHz ANTlower

5GHz (40MHz) Conducted Power [dBm]				5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode		Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n	802.11ac			802.11ac
		Average	Average			Average
5190	38	12.66	12.16	5530	106	11.03
5230	46	16.20	16.21	5610	122	14.54
5270	54	15.80	15.79	5690	138	14.50
5310	62	13.66	12.41	5775	155	14.54

Table 8-334
5 GHz WLAN Maximum Average RF Power – 5GHz ANTupper

5GHz (40MHz) Conducted Power [dBm]				5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode		Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n	802.11ac			802.11ac
		Average	Average			Average
5190	38	12.60	12.10	5530	106	11.18
5230	46	16.00	16.01	5610	122	14.51
5270	54	15.75	15.75	5690	138	14.50
5310	62	13.58	12.33	5775	155	14.79

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8.4.2 Variant 2

Table 8-335
2.4 GHz WLAN Maximum Average RF Power – Ant 2A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	13.04	13.08	13.05
2437	6	13.07	13.10	13.05
2462	11	13.01	13.02	13.04

Table 8-336
2.4 GHz WLAN Maximum Average RF Power – Ant 4A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	12.87	12.91	12.84
2437	6	12.82	12.84	12.80
2462	11	12.95	12.93	12.96

Table 8-337
5 GHz WLAN Maximum Average RF Power – 5GHz ANTlower

5GHz (40MHz) Conducted Power [dBm]				5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode		Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n	802.11ac			802.11ac
		Average	Average			Average
5190	38	12.50	12.26	5530	106	11.12
5230	46	16.09	16.11	5610	122	14.57
5270	54	15.78	15.83	5690	138	14.51
5310	62	13.62	12.37	5775	155	14.50

Table 8-338
5 GHz WLAN Maximum Average RF Power – 5GHz ANTupper

5GHz (40MHz) Conducted Power [dBm]				5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode		Freq [MHz]	Channel	IEEE Transmission Mode
		802.11n	802.11ac			802.11ac
		Average	Average			Average
5190	38	12.55	12.20	5530	106	11.06
5230	46	16.20	16.30	5610	122	14.64
5270	54	15.70	15.79	5690	138	14.57
5310	62	13.64	12.39	5775	155	14.93

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8.5 WLAN Reduced Conducted Powers

8.5.1 Variant 1

Table 8-339
2.4 GHz WLAN Reduced Average RF Power – Ant 2A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	6.07	6.02	6.10
2437	6	6.05	6.04	6.06
2462	11	6.03	6.06	6.07

Table 8-340
2.4 GHz WLAN Reduced Average RF Power – Ant 4A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	5.94	6.00	5.96
2437	6	5.87	5.91	5.84
2462	11	5.80	5.81	5.79

Table 8-341
5 GHz WLAN Reduced Average RF Power – 5GHz ANTlower

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	12.06
5290	58	11.92
5530	106	10.75
5610	122	10.69
5690	138	10.71
5775	155	10.80

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Table 8-342
5 GHz WLAN Reduced Average RF Power – 5GHz ANTupper

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	11.14
5290	58	10.85
5530	106	9.52
5610	122	9.68
5690	138	9.61
5775	155	9.86

8.5.2 Variant 2

Table 8-343
2.4 GHz WLAN Reduced Average RF Power – Ant 2A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	6.14	6.18	6.20
2437	6	6.09	6.11	6.05
2462	11	6.18	6.12	6.11

Table 8-344
2.4 GHz WLAN Reduced Average RF Power – Ant 4A

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	5.90	5.92	5.89
2437	6	5.82	5.85	5.84
2462	11	5.79	5.84	5.78

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Table 8-345
5 GHz WLAN Reduced Average RF Power – 5GHz ANTlower

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	12.11
5290	58	11.88
5530	106	10.66
5610	122	10.57
5690	138	10.62
5775	155	10.51

Table 8-346
5 GHz WLAN Reduced Average RF Power – 5GHz ANTupper

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	11.06
5290	58	10.79
5530	106	9.62
5610	122	9.69
5690	138	9.51
5775	155	9.87

8.5.3 WLAN Power Reduction Verification Summary

Table 8-347
WLAN Power Reduction Verification

Mode/Band	Condition (s)	Maximum Scenario	Reduced Scenario	Maximum Target Power	Reduced Target Power	Maximum	Reduced	Verdict
		Maximum Allowed Tune Up Power [dBm]	Maximum Allowed Tune Up Power [dBm]	[dBm] (Tolerance [dB])	[dBm] (Tolerance [dB])	Measured Power [dBm]	Measured Power [dBm]	
2.4 GHz WLAN	Main Band 2a/2b ON	14	7	12.50 (± 1.5)	5.50 (± 1.5)	11.07	5.35	PASS
	Interband ULCA ON	14	7	12.50 (± 1.5)	5.50 (± 1.5)	11.07	6.10	PASS
	Main Band 4a/4b ON	13.75	6.75	12.25 (± 1.5)	5.25 (± 1.5)	11.41	6.39	PASS
	Interband ULCA ON	13.75	6.75	12.25 (± 1.5)	5.25 (± 1.5)	11.41	6.37	PASS
5 GHz WLAN	Main Band 2a ON	17	13	15.50 (± 1.5)	11.50 (± 1.5)	14.31	11.94	PASS
	Interband ULCA ON	17	13	15.50 (± 1.5)	11.50 (± 1.5)	14.31	10.4	PASS
	Main Band 3 ON	17	12	15.50 (± 1.5)	10.50 (± 1.5)	16.41	10.76	PASS
	Interband ULCA ON	17	12	15.50 (± 1.5)	10.50 (± 1.5)	16.41	11.7	PASS

Conducted powers were measured for each Mode/Band and applied condition. All conducted power measurements were verified to be within tolerance.

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8.5.4 Notes for WLAN

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

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- The WLAN chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with the identical mechanical structure to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- The WLAN SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The variant with the highest reported SAR value was evaluated for the remaining WLAN configurations.

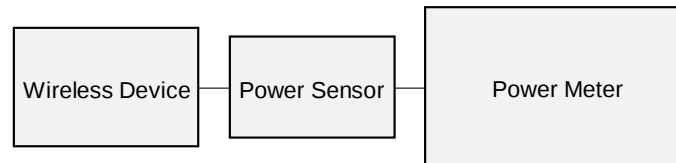


Figure 8-4
Power Measurement Setup

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8.6 Bluetooth Conducted Powers

Table 8-348
Maximum Bluetooth Average RF Power – Ant 2a – Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	14.19	26.242
2441	GFSK	1.0	39	14.30	26.915
2480	GFSK	1.0	78	14.12	25.823

Table 8-349
Maximum Bluetooth Average RF Power – Ant 4a – Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	14.83	30.409
2441	GFSK	1.0	39	14.92	31.046
2480	GFSK	1.0	78	14.73	29.717

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Table 8-350
Maximum Bluetooth Average RF Power – Ant 2a – Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	14.07	25.527
2441	GFSK	1.0	39	14.15	26.002
2480	GFSK	1.0	78	14.02	25.235

Table 8-351
Maximum Bluetooth Average RF Power – Ant 4a – Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	14.58	28.708
2441	GFSK	1.0	39	14.05	25.410
2480	GFSK	1.0	78	14.41	27.606

Table 8-352
Reduced Power Level 1 Bluetooth Average RF Power – Ant 2a – Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.50	14.125
2441	GFSK	1.0	39	11.29	13.459
2480	GFSK	1.0	78	11.01	12.618

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Table 8-353
Reduced Power Level 2 Bluetooth Average RF Power – Ant 2a – Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.23	5.284
2441	GFSK	1.0	39	7.41	5.508
2480	GFSK	1.0	78	7.12	5.152

Table 8-354
Reduced Bluetooth Average RF Power – Ant 2a – Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.53	5.662
2441	GFSK	1.0	39	7.71	5.902
2480	GFSK	1.0	78	7.97	6.266

Table 8-355
Reduced Power Level 1 Bluetooth Average RF Power – Ant 2a – Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.32	13.552
2441	GFSK	1.0	39	11.50	14.125
2480	GFSK	1.0	78	10.88	12.246

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Table 8-356
Reduced Power Level 2 Bluetooth Average RF Power – Ant 2a – Variant 2

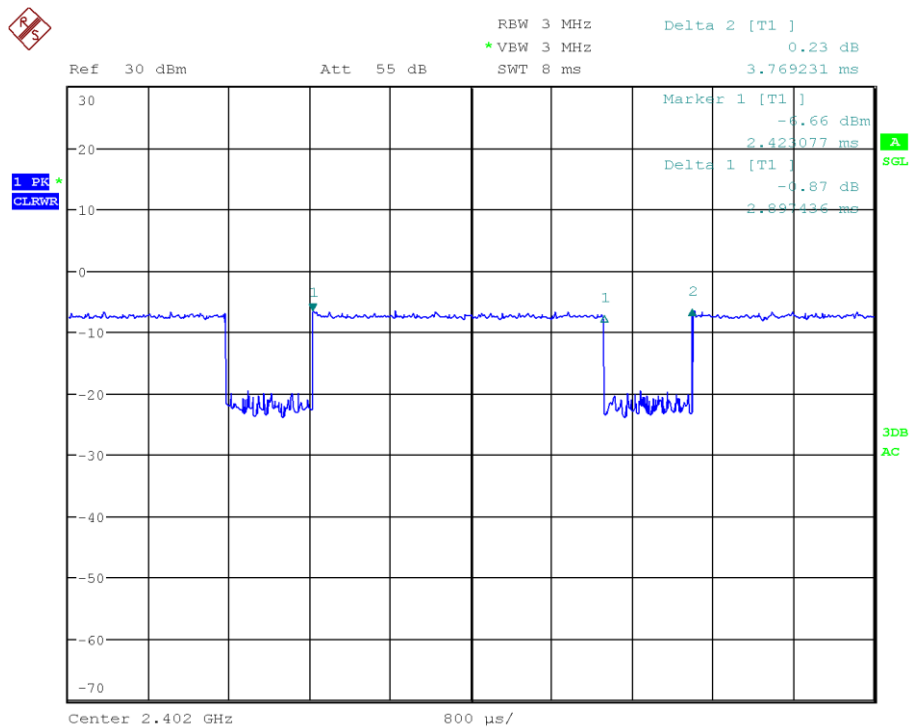
Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.43	5.534
2441	GFSK	1.0	39	7.33	5.408
2480	GFSK	1.0	78	7.23	5.284

Table 8-357
Reduced Bluetooth Average RF Power – Ant 2a – Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.63	5.794
2441	GFSK	1.0	39	8.00	6.310
2480	GFSK	1.0	78	7.75	5.957

Note: The bolded data rates and channel above were tested for SAR.

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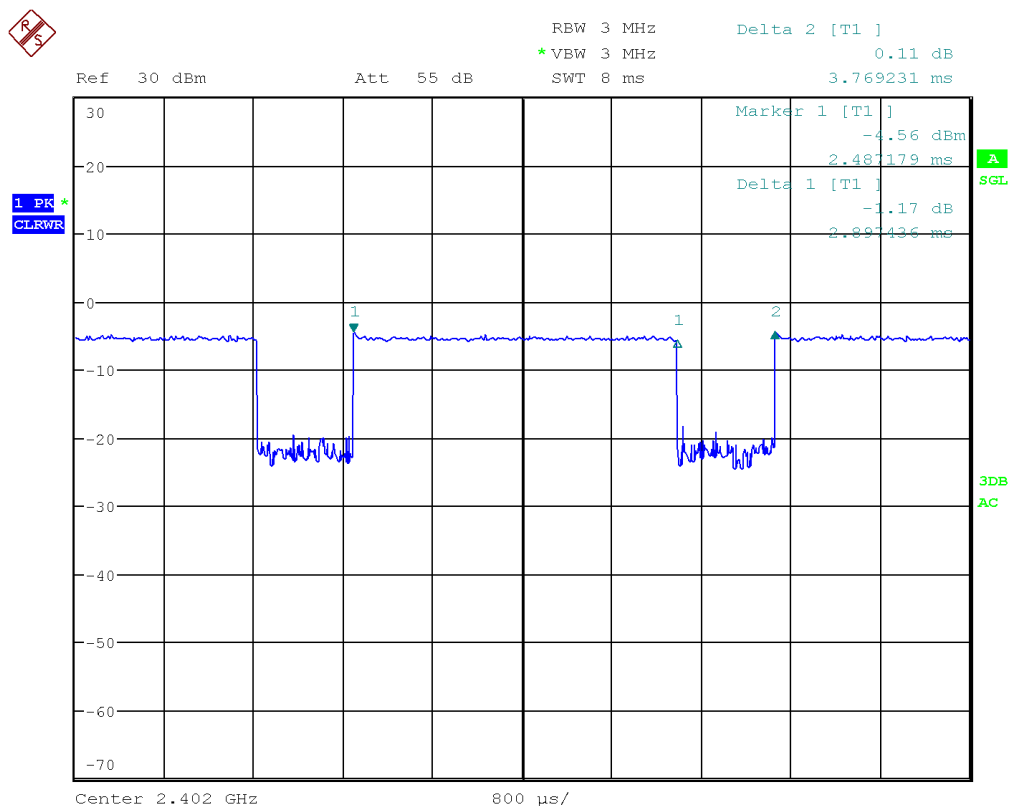
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Figure 8-5
Bluetooth Transmission Plot – Ant 2a – Variant 1

Equation 8-1
Bluetooth Duty Cycle Calculation – Ant 2a – Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8974 \text{ ms}}{3.7692 \text{ ms}} * 100\% = 76.9\%$$

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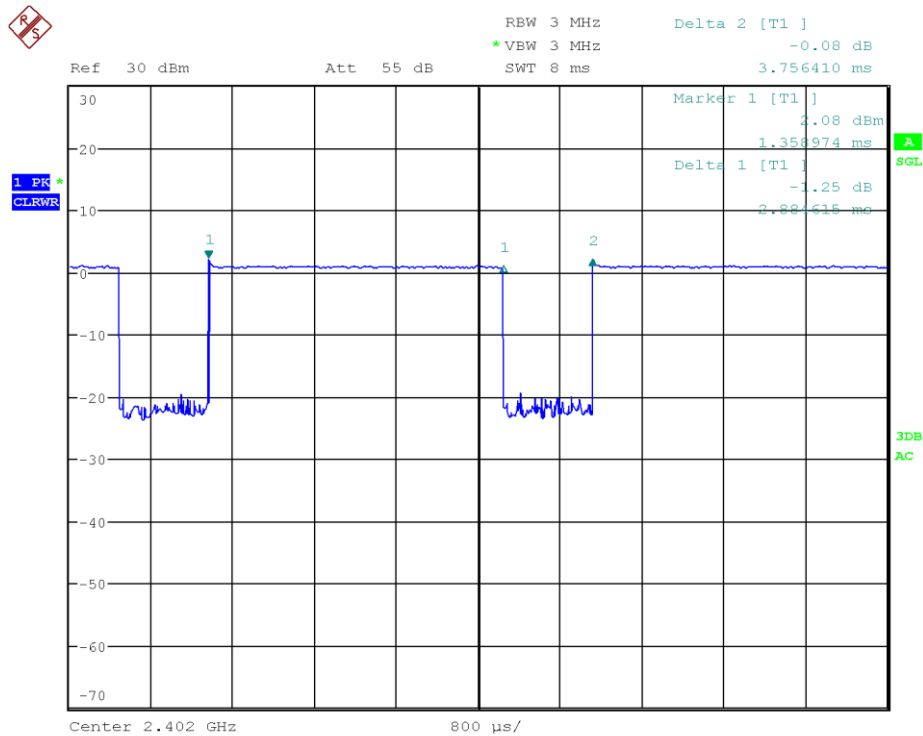
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Figure 8-6
Bluetooth Transmission Plot – Ant 2a – Variant 2

Equation 8-2
Bluetooth Duty Cycle Calculation – Ant 2a – Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8974 \text{ ms}}{3.7692 \text{ ms}} * 100\% = 76.9\%$$

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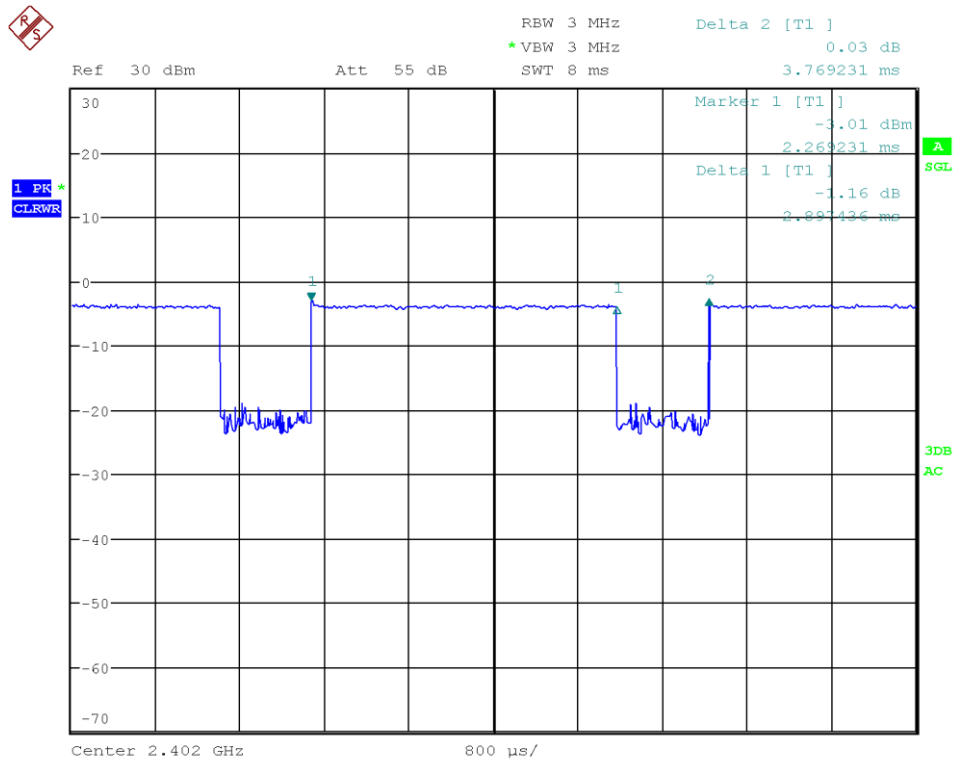
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Figure 8-7
Bluetooth Transmission Plot – Ant 4a – Variant 1

Equation 8-3
Bluetooth Duty Cycle Calculation – Ant 4a – Variant 1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8846 \text{ ms}}{3.7564 \text{ ms}} * 100\% = 76.8\%$$

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Figure 8-8
Bluetooth Transmission Plot – Ant 4a – Variant 2

Equation 8-4
Bluetooth Duty Cycle Calculation – Ant 4a – Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8974 \text{ ms}}{3.7692 \text{ ms}} * 100\% = 76.9\%$$

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8.6.1 Bluetooth Power Reduction Verification Summary

Table 8-358
Bluetooth Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Target Power [dBm]	Reduced Target Power [dBm]	Maximum Measured Power	Reduced Measured Power	Verdict
					(Tolerance [dB])	(Tolerance [dB])	[dBm]	[dBm]	
ANT4a	2.4 GHz Bluetooth	Main Band ANT3/4a/4b ON	15	8	13.50 (+1.5/-2)	6.50 (+1.5/-2)	14.51	7.97	PASS
	2.4 GHz Bluetooth	Interband ULCA ON	15	8	13.50 (+1.5/-2)	6.50 (+1.5/-2)	14.51	7.71	PASS
ANT2a	2.4 GHz Bluetooth	5 GHz WLAN ON	14.5	11.5	13.00 (+1.5/-2)	10.00 (+1.5/-2)	13.76	10.36	PASS
	2.4 GHz Bluetooth	Main Band ANT1/2a/2b ON	14.5	7.5	13.00 (+1.5/-2)	6.00 (+1.5/-2)	13.76	6.72	PASS
	2.4 GHz Bluetooth	5 GHz WLAN ON, Main Band ANT1/2a/2b ON	14.5	7.5	13.00 (+1.5/-2)	6.00 (+1.5/-2)	13.76	6.11	PASS
	2.4 GHz Bluetooth	Interband ULCA ON	14.5	7.5	13.00 (+1.5/-2)	6.00 (+1.5/-2)	13.76	6.3	PASS
	2.4 GHz Bluetooth	5 GHz WLAN ON, Interband ULCA ON	14.5	7.5	13.00 (+1.5/-2)	6.00 (+1.5/-2)	13.76	6.44	PASS
	2.4 GHz Bluetooth								

Conducted powers were measured for each Mode/Band applied condition. All conducted power measurements were verified to be within tolerance.

8.6.2 Notes for Bluetooth

- The Bluetooth chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with the identical mechanical structure to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- Bluetooth SAR worst case configuration was evaluated for both Variant 1 and Variant 2. The variant with the highest reported SAR value was selected for the remaining test configurations.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

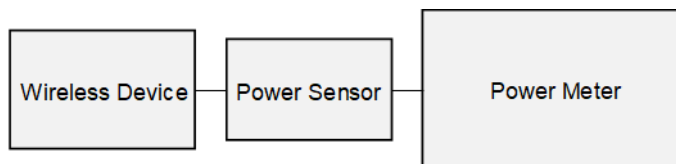


Figure 8-9
Power Measurement Setup

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ'	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ'	% dev σ	% dev ϵ'
1/18/2020	750B	23.0	680	0.913	54.878	0.958	55.804	-4.70%	-1.66%
			695	0.922	54.878	0.959	55.745	-3.86%	-1.56%
			700	0.924	54.850	0.959	55.726	-3.65%	-1.57%
			710	0.928	54.731	0.960	55.687	-3.33%	-1.72%
			720	0.933	54.528	0.961	55.548	-2.81%	-2.01%
			725	0.936	54.420	0.961	55.629	-2.39%	-2.17%
			740	0.956	54.090	0.963	55.570	-0.73%	-2.66%
			755	0.978	53.909	0.964	55.512	1.45%	-2.89%
			770	0.997	53.686	0.965	55.453	3.32%	-2.83%
			785	1.008	53.911	0.966	55.395	4.35%	-2.68%
			800	1.015	53.807	0.967	55.336	4.96%	-2.76%
			820	0.961	54.794	0.969	55.258	-0.83%	-0.86%
1/16/2020	835B	18.8	835	0.978	54.548	0.970	55.200	0.82%	-1.18%
1/19/2020	835B	20.0	850	0.996	54.348	0.968	55.154	0.81%	-1.46%
			860	0.979	53.419	0.967	55.336	1.24%	-3.46%
			820	1.001	53.279	0.969	55.258	3.30%	-3.58%
			835	1.015	53.152	0.970	55.200	4.64%	-3.71%
1/21/2020	1750B	18.4	850	1.028	52.975	0.988	55.154	4.05%	-3.95%
			1710	1.447	52.452	1.463	53.507	-1.09%	-2.03%
			1750	1.484	52.302	1.488	53.432	-0.27%	-2.11%
			1790	1.525	52.206	1.514	53.326	0.73%	-2.10%
1/23/2020	1750B	19.8	1710	1.478	51.887	1.463	53.537	1.03%	-3.08%
			1750	1.514	51.756	1.488	53.432	1.75%	-3.14%
			1790	1.564	51.593	1.514	53.326	2.64%	-3.25%
			1850	1.537	52.801	1.520	53.300	1.12%	-0.94%
1/16/2020	1900B	19.2	1880	1.562	52.801	1.520	53.300	2.76%	-0.94%
			1910	1.579	52.852	1.520	53.300	3.88%	-0.84%
			1850	1.549	51.688	1.520	53.300	1.91%	-3.02%
			1880	1.567	51.629	1.520	53.300	3.09%	-3.14%
1/22/2020	1900B	21.6	1910	1.587	51.584	1.520	53.300	4.41%	-2.22%
			2300	1.832	51.591	1.809	52.900	1.27%	-2.47%
			2310	1.849	51.560	1.816	52.887	1.82%	-2.51%
			2320	1.866	51.550	1.826	52.873	2.19%	-2.50%
13/20/2019	2450B	20.7	2400	1.974	51.276	1.902	52.767	3.79%	-2.83%
			2450	2.098	51.076	1.950	52.700	4.41%	-1.08%
			2500	2.106	50.870	2.021	52.636	4.30%	-3.36%
			2400	1.886	50.952	1.902	52.767	-0.84%	-3.44%
1/14/2020	2450B	23.0	2450	1.948	50.877	1.950	52.700	-0.10%	-3.46%
			2500	2.022	50.597	2.021	52.636	0.05%	-3.87%
			2450	1.938	51.027	1.902	52.767	1.89%	-3.30%
			2450	2.006	50.845	1.950	52.700	2.82%	-3.52%
1/29/2020	2450B-2600B	22.1	2500	2.075	50.661	2.021	52.636	2.67%	-3.75%
			2550	2.142	50.477	2.092	52.573	2.39%	-3.99%
			2600	2.216	50.297	2.163	52.509	2.45%	-4.21%
			2650	2.286	50.086	2.234	52.445	2.23%	-4.50%
24/02/2020	2450B-2600B	21.8	2700	2.350	49.900	2.305	52.382	2.39%	-4.74%
			2400	1.991	51.190	1.902	52.767	4.68%	-2.99%
			2450	2.038	51.000	1.950	52.700	4.51%	-3.23%
			2500	2.104	50.884	2.021	52.636	4.11%	-3.33%
1/20/2020	3500B-3700B	21.5	2550	2.185	50.680	2.092	52.573	3.01%	-3.60%
			2600	2.223	50.587	2.163	52.509	2.77%	-3.66%
			2650	2.280	50.354	2.234	52.445	2.08%	-3.99%
			2700	2.344	50.267	2.305	52.382	1.69%	-4.04%
01/07/2020	5200B-5800B	18.1	3500	3.361	49.551	3.314	51.321	1.42%	-3.45%
			3550	3.420	49.436	3.372	51.254	1.72%	-3.55%
			3600	3.482	49.272	3.431	51.186	1.78%	-3.74%
			3645	3.561	49.174	3.483	51.125	2.24%	-3.82%
			3685	3.603	49.041	3.530	51.070	2.07%	-3.97%
			3725	3.670	48.914	3.577	51.016	2.60%	-4.12%
			5180	5.025	48.507	5.276	49.041	-4.76%	-1.09%
			5200	5.057	48.451	5.299	49.014	-4.57%	-1.15%
			5220	5.091	48.421	5.323	48.987	-4.36%	-1.16%
			5240	5.115	48.419	5.346	48.960	-4.32%	-1.10%
			5260	5.127	48.348	5.369	48.933	-4.51%	-1.20%
			5280	5.156	48.286	5.393	48.906	-4.39%	-1.27%
			5300	5.200	48.244	5.416	48.879	-3.99%	-1.30%
			5320	5.230	48.242	5.439	48.851	-3.84%	-1.25%
			5500	5.479	47.890	5.650	48.607	-3.03%	-1.50%
			5520	5.508	47.893	5.673	48.580	-2.91%	-1.41%
			5540	5.533	47.883	5.696	48.553	-2.88%	-1.44%
			5560	5.553	47.790	5.720	48.526	-2.92%	-1.52%
			5580	5.590	47.728	5.743	48.499	-2.66%	-1.59%
			5600	5.629	47.689	5.766	48.471	-2.38%	-1.61%
			5620	5.656	47.696	5.790	48.444	-2.31%	-1.54%
			5640	5.678	47.651	5.813	48.417	-2.38%	-1.58%
			5660	5.703	47.587	5.837	48.390	-2.30%	-1.66%
			5680	5.740	47.550	5.860	48.363	-2.05%	-1.68%
			5700	5.772	47.512	5.883	48.336	-1.89%	-1.70%
			5745	5.821	47.423	5.936	48.275	-1.84%	-1.76%
			5765	5.869	47.347	5.959	48.248	-1.88%	-1.87%
			5785	5.901	47.343	5.982	48.220	-1.35%	-1.82%
			5800	5.920	47.340	6.000	48.200	-1.33%	-1.78%
			5805	5.925	47.334	6.006	48.193	-1.35%	-1.78%
			5825	5.946	47.302	6.029	48.166	-1.38%	-1.79%

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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9.2 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 9-2
System Verification Results

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} (%)
AM1	750	BODY	01/18/2020	21.1	21.0	0.200	1097	7421	1.830	8.560	9.150	6.89%
AM6	835	BODY	01/16/2020	20.4	18.8	0.200	4d040	7427	1.770	9.530	8.850	-7.14%
AM6	835	BODY	01/19/2020	20.4	20.0	0.200	4d040	7427	1.950	9.530	9.750	2.31%
AM6	1750	BODY	01/21/2020	23.8	18.4	0.100	1083	7427	3.420	37.100	34.200	-7.82%
AM6	1750	BODY	01/23/2020	23.0	19.8	0.100	1083	7427	3.700	37.100	37.000	-0.27%
AM2	1900	BODY	01/16/2020	20.7	19.5	0.100	5d026	7420	4.180	39.900	41.800	4.76%
AM2	1900	BODY	01/22/2020	21.1	20.0	0.100	5d026	7420	4.080	39.900	40.800	2.26%
AM4	2300	BODY	02/05/2020	21.0	20.9	0.100	1038	7532	4.430	46.700	44.300	-5.14%
AM4	2450	BODY	12/20/2019	21.0	20.0	0.100	921	7532	5.360	50.800	53.600	5.51%
AM4	2450	BODY	01/14/2020	22.1	21.0	0.100	921	7532	5.120	50.800	51.200	0.79%
AM4	2450	BODY	01/29/2020	22.1	20.1	0.100	921	7532	4.920	50.800	49.200	-3.15%
AM3	2450	BODY	02/04/2020	22.2	20.5	0.100	945	3949	5.210	49.400	52.100	5.47%
AM4	2600	BODY	01/29/2020	22.1	20.1	0.100	1069	7532	5.250	55.300	52.500	-5.06%
AM3	2600	BODY	02/04/2020	22.2	20.5	0.100	1009	3949	5.550	55.500	55.500	0.00%
AM3	3500	BODY	01/20/2020	21.4	20.8	0.100	1068	3949	6.160	65.300	61.600	-5.67%
AM3	3700	BODY	01/20/2020	21.4	20.8	0.100	1029	3949	6.280	64.900	62.800	-3.24%
AM5	5250	BODY	01/07/2020	22.1	19.2	0.050	1163	7491	3.660	77.700	73.200	-5.79%
AM5	5600	BODY	01/07/2020	22.1	19.2	0.050	1163	7491	3.780	80.100	75.600	-5.62%
AM5	5750	BODY	01/07/2020	22.1	19.2	0.050	1163	7491	3.590	77.800	71.800	-7.71%

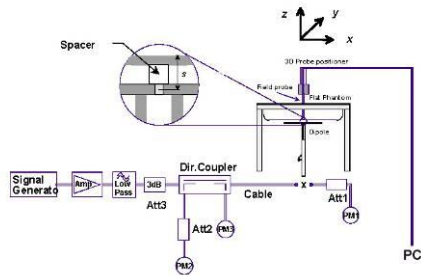


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 Standalone Hotspot SAR Data

Table 10-1
GPRS 850 MHz Ant 1 Body SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor
MHz	Ch.													(W/kg)	
836.60	190	GSM 850	GPRS	26.70	26.57	0.05	Body	0 mm	Ant 1	DLXZV004PQM6	2	1:4.15	back	0.648	1.030
836.60	190	GSM 850	GPRS	26.70	26.57	0.06	Body	0 mm	Ant 1	DLXZV004PQM6	2	1:4.15	top	0.020	1.030
836.60	190	GSM 850	GPRS	26.70	26.57	-0.14	Body	0 mm	Ant 1	DLXZV004PQM6	2	1:4.15	bottom	0.304	1.030
836.60	190	GSM 850	GPRS	26.70	26.57	-0.08	Body	0 mm	Ant 1	DLXZV004PQM6	2	1:4.15	right	0.006	1.030
824.20	128	GSM 850	GPRS	26.70	26.64	0.18	Body	0 mm	Ant 1	DLXZV004PQM6	2	1:4.15	left	1.110	1.014
836.60	190	GSM 850	GPRS	26.70	26.57	0.02	Body	0 mm	Ant 1	DLXZV004PQM6	2	1:4.15	left	1.010	1.030
848.80	251	GSM 850	GPRS	26.70	26.58	-0.14	Body	0 mm	Ant 1	DLXZV004PQM6	2	1:4.15	left	0.977	1.028
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 10-2
GPRS 850 MHz Ant 3 Body SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor
MHz	Ch.													(W/kg)	
824.20	128	GSM 850	GPRS	28.00	26.85	-0.11	Body	0 mm	Ant 3	DLXZV002PQM6	2	1:4.15	back	0.801	1.303
836.60	190	GSM 850	GPRS	28.00	26.77	0.01	Body	0 mm	Ant 3	DLXZV002PQM6	2	1:4.15	back	0.778	1.327
848.80	251	GSM 850	GPRS	28.00	26.67	-0.04	Body	0 mm	Ant 3	DLXZV002PQM6	2	1:4.15	back	0.751	1.358
836.60	190	GSM 850	GPRS	28.00	26.77	-0.16	Body	0 mm	Ant 3	DLXZV002PQM6	2	1:4.15	top	0.336	1.327
836.60	190	GSM 850	GPRS	28.00	26.77	-0.21	Body	0 mm	Ant 3	DLXZV002PQM6	2	1:4.15	bottom	0.021	1.327
824.20	128	GSM 850	GPRS	28.00	26.85	-0.02	Body	0 mm	Ant 3	DLXZV002PQM6	2	1:4.15	right	0.896	1.303
836.60	190	GSM 850	GPRS	28.00	26.77	0.02	Body	0 mm	Ant 3	DLXZV002PQM6	2	1:4.15	right	0.815	1.327
848.80	251	GSM 850	GPRS	28.00	26.67	-0.09	Body	0 mm	Ant 3	DLXZV002PQM6	2	1:4.15	right	0.746	1.358
836.60	190	GSM 850	GPRS	28.00	26.77	-0.21	Body	0 mm	Ant 3	DLXZV002PQM6	2	1:4.15	left	0.006	1.327
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 10-3
GPRS 1900 MHz Ant 2a Body SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor
MHz	Ch.													(W/kg)	
1850.20	512	GSM 1900	GPRS	21.00	20.70	-0.06	Body	0 mm	Ant 2a	DLXZT004P57G	2	1:4.15	back	0.873	1.072
1880.00	661	GSM 1900	GPRS	21.00	20.68	-0.01	Body	0 mm	Ant 2a	DLXZT004P57G	2	1:4.15	back	0.907	1.076
1909.80	810	GSM 1900	GPRS	21.00	20.90	-0.08	Body	0 mm	Ant 2a	DLXZT004P57G	2	1:4.15	back	0.980	1.023
1880.00	661	GSM 1900	GPRS	21.00	20.68	0.20	Body	0 mm	Ant 2a	DLXZT004P57G	2	1:4.15	top	0.009	1.076
1880.00	661	GSM 1900	GPRS	21.00	20.68	-0.09	Body	0 mm	Ant 2a	DLXZT004P57G	2	1:4.15	bottom	0.262	1.076
1850.20	512	GSM 1900	GPRS	21.00	20.70	0.03	Body	0 mm	Ant 2a	DLXZT004P57G	2	1:4.15	right	0.802	1.072
1880.00	661	GSM 1900	GPRS	21.00	20.68	-0.02	Body	0 mm	Ant 2a	DLXZT004P57G	2	1:4.15	right	0.809	1.076
1909.80	810	GSM 1900	GPRS	21.00	20.90	0.03	Body	0 mm	Ant 2a	DLXZT004P57G	2	1:4.15	right	0.890	1.023
1880.00	661	GSM 1900	GPRS	21.00	20.68	0.21	Body	0 mm	Ant 2a	DLXZT004P57G	2	1:4.15	left	0.000	1.076
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 10-4
GPRS 1900 MHz Ant 2b Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (lg) (W/kg)	Scaling Factor	Reported SAR (lg) (W/kg)	SAR (lg) (W/kg)	Reported SAR (lg) (W/kg)	Plot #
MHz	Ch.																		
1850.20	512	GSM 1900	GPRS	20.00	19.78	-0.20	Body	0 mm	Ant 2b	DLXZV00LPQKX	2	1:4.15	back	0.921	1.052	0.969	0.376	0.396	
1880.00	661	GSM 1900	GPRS	20.00	19.84	-0.14	Body	0 mm	Ant 2b	DLXZV00LPQKX	2	1:4.15	back	0.904	1.038	0.938	0.367	0.381	
1909.80	810	GSM 1900	GPRS	20.00	19.90	-0.21	Body	0 mm	Ant 2b	DLXZV00LPQKX	2	1:4.15	back	0.963	1.023	1.006	0.397	0.406	A2
1880.00	661	GSM 1900	GPRS	20.00	19.84	0.20	Body	0 mm	Ant 2b	DLXZV00LPQKX	2	1:4.15	top	0.001	1.038	0.001	0.001	0.001	
1880.00	661	GSM 1900	GPRS	20.00	19.84	-0.09	Body	0 mm	Ant 2b	DLXZV00LPQKX	2	1:4.15	bottom	0.535	1.038	0.555	0.218	0.226	
1880.00	661	GSM 1900	GPRS	20.00	19.84	0.14	Body	0 mm	Ant 2b	DLXZV00LPQKX	2	1:4.15	right	0.023	1.038	0.024	0.011	0.011	
1880.00	661	GSM 1900	GPRS	20.00	19.84	0.21	Body	0 mm	Ant 2b	DLXZV00LPQKX	2	1:4.15	left	0.010	1.038	0.010	0.005	0.005	
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 10-5
GPRS 1900 MHz Ant 4a Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																		
1850.20	512	GSM 1900	GPRS	20.30	20.07	-0.12	Body	0 mm	Ant 4a	DLXZV01LPQKX	2	1:4.15	back	0.951	1.054	1.002	0.449	0.473	
1880.00	661	GSM 1900	GPRS	20.30	20.11	-0.03	Body	0 mm	Ant 4a	DLXZV01LPQKX	2	1:4.15	back	0.891	1.045	0.931	0.424	0.443	
1909.80	810	GSM 1900	GPRS	20.30	20.30	-0.04	Body	0 mm	Ant 4a	DLXZV01LPQKX	2	1:4.15	back	0.897	1.000	0.897	0.420	0.420	
1880.00	661	GSM 1900	GPRS	20.30	20.11	0.00	Body	0 mm	Ant 4a	DLXZV01LPQKX	2	1:4.15	top	0.188	1.045	0.196	0.071	0.074	
1880.00	661	GSM 1900	GPRS	20.30	20.11	-0.11	Body	0 mm	Ant 4a	DLXZV01LPQKX	2	1:4.15	bottom	0.010	1.045	0.010	0.004	0.004	
1880.00	661	GSM 1900	GPRS	20.30	20.11	0.21	Body	0 mm	Ant 4a	DLXZV01LPQKX	2	1:4.15	right	0.000	1.045	0.000	0.000	0.000	
1880.00	661	GSM 1900	GPRS	20.30	20.11	0.00	Body	0 mm	Ant 4a	DLXZV01LPQKX	2	1:4.15	left	0.752	1.045	0.786	0.298	0.311	
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 10-6
GPRS 1900 MHz Ant 4b Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																		
1850.20	512	GSM 1900	GPRS	19.50	19.46	-0.12	Body	0 mm	Ant 4b	DLXZV00BPQKX	2	1:4.15	back	0.879	1.009	0.887	0.341	0.344	
1880.00	661	GSM 1900	GPRS	19.50	19.11	-0.18	Body	0 mm	Ant 4b	DLXZV00BPQKX	2	1:4.15	back	0.860	1.094	0.941	0.331	0.362	
1909.80	810	GSM 1900	GPRS	19.50	19.07	-0.21	Body	0 mm	Ant 4b	DLXZV00BPQKX	2	1:4.15	back	0.852	1.104	0.941	0.325	0.359	
1880.00	661	GSM 1900	GPRS	19.50	19.11	-0.04	Body	0 mm	Ant 4b	DLXZV00BPQKX	2	1:4.15	top	0.400	1.094	0.438	0.162	0.177	
1880.00	661	GSM 1900	GPRS	19.50	19.11	0.21	Body	0 mm	Ant 4b	DLXZV00BPQKX	2	1:4.15	bottom	0.000	1.094	0.000	0.000	0.000	
1880.00	661	GSM 1900	GPRS	19.50	19.11	0.21	Body	0 mm	Ant 4b	DLXZV00BPQKX	2	1:4.15	right	0.004	1.094	0.004	0.001	0.001	
1880.00	661	GSM 1900	GPRS	19.50	19.11	0.21	Body	0 mm	Ant 4b	DLXZV00BPQKX	2	1:4.15	left	0.017	1.094	0.019	0.007	0.008	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																			
Spatial Peak								1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population								averaged over 1 gram											

Table 10-7
UMTS 850 MHz Ant 1 Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (lg)	Scaling Factor	Reported SAR (lg)	SAR (lg)	Reported SAR (lg)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
826.40	4132	UMTS 850	RMC	20.70	20.49	-0.20	Body	0 mm	Ant 1	DLXZV004PQM6	1:1	back	0.980	1.050	1.029	0.359	0.377	
836.60	4183	UMTS 850	RMC	20.70	20.68	-0.20	Body	0 mm	Ant 1	DLXZV004PQM6	1:1	back	1.010	1.005	1.015	0.376	0.378	
846.60	4233	UMTS 850	RMC	20.70	20.55	-0.18	Body	0 mm	Ant 1	DLXZV004PQM6	1:1	back	0.964	1.035	0.998	0.356	0.368	
836.60	4183	UMTS 850	RMC	20.70	20.68	-0.12	Body	0 mm	Ant 1	DLXZV004PQM6	1:1	top	0.042	1.005	0.042	0.019	0.019	
836.60	4183	UMTS 850	RMC	20.70	20.68	-0.06	Body	0 mm	Ant 1	DLXZV004PQM6	1:1	bottom	0.454	1.005	0.456	0.151	0.152	
836.60	4183	UMTS 850	RMC	20.70	20.68	0.04	Body	0 mm	Ant 1	DLXZV004PQM6	1:1	right	0.008	1.005	0.008	0.004	0.004	
826.40	4132	UMTS 850	RMC	20.70	20.49	0.20	Body	0 mm	Ant 1	DLXZV004PQM6	1:1	left	1.120	1.050	1.176	0.417	0.438	A3
836.60	4183	UMTS 850	RMC	20.70	20.68	-0.10	Body	0 mm	Ant 1	DLXZV004PQM6	1:1	left	1.110	1.005	1.116	0.418	0.418	
846.60	4233	UMTS 850	RMC	20.70	20.55	0.19	Body	0 mm	Ant 1	DLXZV004PQM6	1:1	left	1.060	1.035	1.097	0.401	0.415	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body										
Spatial Peak								1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population								averaged over 1 gram										

FCC ID: BCGA2232		SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 10-8
UMTS 850 MHz Ant 3 Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dntr (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (lg)	Scaling Factor	Reported SAR (lg)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
826.40	4132	UMTS 850	RMC	21.80	20.85	0.06	Body	0 mm	Ant 3	DLXZT004P57G	1:1	back	0.856	1.245	1.066	0.458	0.570	
836.60	4183	UMTS 850	RMC	21.80	20.80	0.05	Body	0 mm	Ant 3	DLXZT004P57G	1:1	back	0.750	1.259	0.944	0.400	0.504	
846.60	4233	UMTS 850	RMC	21.80	20.81	0.04	Body	0 mm	Ant 3	DLXZT004P57G	1:1	back	0.736	1.256	0.924	0.391	0.491	
836.60	4183	UMTS 850	RMC	21.80	20.80	-0.09	Body	0 mm	Ant 3	DLXZT004P57G	1:1	top	0.434	1.259	0.546	0.148	0.186	
836.60	4183	UMTS 850	RMC	21.80	20.80	-0.20	Body	0 mm	Ant 3	DLXZT004P57G	1:1	bottom	0.028	1.259	0.035	0.013	0.016	
826.40	4132	UMTS 850	RMC	21.80	20.85	-0.04	Body	0 mm	Ant 3	DLXZT004P57G	1:1	right	0.824	1.245	1.026	0.322	0.401	
836.60	4183	UMTS 850	RMC	21.80	20.80	-0.05	Body	0 mm	Ant 3	DLXZT004P57G	1:1	right	0.886	1.259	1.115	0.333	0.419	
846.60	4233	UMTS 850	RMC	21.80	20.81	-0.03	Body	0 mm	Ant 3	DLXZT004P57G	1:1	right	0.879	1.256	1.104	0.334	0.420	
836.60	4183	UMTS 850	RMC	21.80	20.80	-0.20	Body	0 mm	Ant 3	DLXZT004P57G	1:1	left	0.008	1.259	0.010	0.004	0.005	
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 10-9
UMTS 1750 MHz Ant 2a Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dntr (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (lg)	Scaling Factor	Reported SAR (lg)	SAR (10g) (W/kg)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)		(W/kg)	
1712.40	1312	UMTS 1750	RMC	15.90	15.62	-0.01	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	back	0.905	1.067	0.966	0.416	0.444	
1732.40	1412	UMTS 1750	RMC	15.90	15.41	-0.05	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	back	0.885	1.119	0.990	0.409	0.458	
1752.60	1513	UMTS 1750	RMC	15.90	15.58	-0.03	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	back	0.989	1.076	1.064	0.452	0.486	
1732.40	1412	UMTS 1750	RMC	15.90	15.41	0.00	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	top	0.011	1.119	0.012	0.004	0.004	
1732.40	1412	UMTS 1750	RMC	15.90	15.41	-0.08	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	bottom	0.209	1.119	0.234	0.081	0.091	
1712.40	1312	UMTS 1750	RMC	15.90	15.62	0.11	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	right	0.866	1.067	0.924	0.360	0.384	
1732.40	1412	UMTS 1750	RMC	15.90	15.41	0.12	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	right	0.812	1.119	0.909	0.337	0.377	
1752.60	1513	UMTS 1750	RMC	15.90	15.58	0.09	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	right	0.912	1.076	0.981	0.373	0.401	
1732.40	1412	UMTS 1750	RMC	15.90	15.41	-0.13	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	left	0.000	1.119	0.000	0.000	0.000	
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 10-10
UMTS 1750 MHz Ant 2b Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dntr (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (2g)	Scaling Factor	Reported SAR (2g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)		
1712.40	1312	UMTS 1750	RMC	15.10	14.90	-0.05	Body	0 mm	Ant 2b	DLXZT004P57G	1:1	back	1.080	1.047	1.131	0.425	0.445	A4
1732.40	1412	UMTS 1750	RMC	15.10	14.94	-0.04	Body	0 mm	Ant 2b	DLXZT004P57G	1:1	back	0.978	1.038	1.015	0.383	0.398	
1752.60	1513	UMTS 1750	RMC	15.10	14.64	-0.02	Body	0 mm	Ant 2b	DLXZT004P57G	1:1	back	0.989	1.112	1.100	0.387	0.430	
1732.40	1412	UMTS 1750	RMC	15.10	14.94	0.20	Body	0 mm	Ant 2b	DLXZT004P57G	1:1	top	0.003	1.038	0.003	0.001	0.001	
1732.40	1412	UMTS 1750	RMC	15.10	14.94	0.02	Body	0 mm	Ant 2b	DLXZT004P57G	1:1	bottom	0.609	1.038	0.632	0.236	0.245	
1732.40	1412	UMTS 1750	RMC	15.10	14.94	0.05	Body	0 mm	Ant 2b	DLXZT004P57G	1:1	right	0.073	1.038	0.076	0.028	0.029	
1732.40	1412	UMTS 1750	RMC	15.10	14.94	0.21	Body	0 mm	Ant 2b	DLXZT004P57G	1:1	left	0.010	1.038	0.010	0.005	0.005	
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 10-11
UMTS 1750 MHz Ant 4a Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dntr (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (lg)	Scaling Factor	Reported SAR	SAR (10g)	Reported SAR	Plot #
MHz	Ch.												(W/kg)		(lg)	(W/kg)	(lg)	
1712.40	1312	UMTS 1750	RMC	14.80	14.58	-0.12	Body	0 mm	Ant 4a	DLXZV00BPQKX	1:1	back	1.070	1.052	1.126	0.508	0.534	
1732.40	1412	UMTS 1750	RMC	14.80	14.69	-0.12	Body	0 mm	Ant 4a	DLXZV00BPQKX	1:1	back	1.070	1.026	1.098	0.509	0.522	
1752.60	1513	UMTS 1750	RMC	14.80	14.53	-0.13	Body	0 mm	Ant 4a	DLXZV00BPQKX	1:1	back	1.060	1.054	1.128	0.500	0.532	
1732.40	1412	UMTS 1750	RMC	14.80	14.69	-0.15	Body	0 mm	Ant 4a	DLXZV00BPQKX	1:1	top	0.258	1.026	0.265	0.096	0.098	
1732.40	1412	UMTS 1750	RMC	14.80	14.69	0.12	Body	0 mm	Ant 4a	DLXZV00BPQKX	1:1	bottom	0.012	1.026	0.012	0.005	0.005	
1732.40	1412	UMTS 1750	RMC	14.80	14.69	0.21	Body	0 mm	Ant 4a	DLXZV00BPQKX	1:1	right	0.000	1.026	0.000	0.000	0.000	
1712.40	1312	UMTS 1750	RMC	14.80	14.58	0.02	Body	0 mm	Ant 4a	DLXZV00BPQKX	1:1	left	0.791	1.052	0.832	0.326	0.343	
1732.40	1412	UMTS 1750	RMC	14.80	14.69	-0.03	Body	0 mm	Ant 4a	DLXZV00BPQKX	1:1	left	0.921	1.026	0.945	0.365	0.374	
1752.60	1513	UMTS 1750	RMC	14.80	14.53	0.20	Body	0 mm	Ant 4a	DLXZV00BPQKX	1:1	left	0.873	1.054	0.929	0.357	0.380	
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 10-12
UMTS 1750 MHz Ant 4b Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (tag) (W/kg)	Scaling Factor	Reported SAR (tag) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																	
1712.40	1312	UMTS 1750	RMC	13.50	13.30	-0.08	Body	0 mm	Ant 4b	DLXZ00BPQKX	1:1	back	0.869	1.047	0.910	0.338	0.354	1
1732.40	1412	UMTS 1750	RMC	13.50	13.31	-0.07	Body	0 mm	Ant 4b	DLXZ00BPQKX	1:1	back	0.872	1.045	0.911	0.337	0.352	
1752.60	1513	UMTS 1750	RMC	13.50	13.27	-0.06	Body	0 mm	Ant 4b	DLXZ00BPQKX	1:1	back	0.917	1.054	0.967	0.354	0.373	2
1732.40	1412	UMTS 1750	RMC	13.50	13.31	-0.07	Body	0 mm	Ant 4b	DLXZ00BPQKX	1:1	top	0.620	1.045	0.648	0.243	0.254	
1732.40	1412	UMTS 1750	RMC	13.50	13.31	-0.21	Body	0 mm	Ant 4b	DLXZ00BPQKX	1:1	bottom	0.000	1.045	0.000	0.000	0.000	3
1732.40	1412	UMTS 1750	RMC	13.50	13.31	-0.21	Body	0 mm	Ant 4b	DLXZ00BPQKX	1:1	right	0.002	1.045	0.002	0.000	0.000	
1732.40	1412	UMTS 1750	RMC	13.50	13.31	0.21	Body	0 mm	Ant 4b	DLXZ00BPQKX	1:1	left	0.028	1.045	0.029	0.011	0.011	4
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 10-13
UMTS 1900 MHz Ant 2a Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (tag)	Scaling Factor	Reported SAR (tag)	Reported SAR (tag)	Plot #	
MHz	Ch.												(W/kg)		(W/kg)			(W/kg)
1852.40	9262	UMTS 1900	RMC	15.00	14.63	-0.02	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	back	1.010	1.089	1.100	0.498	0.542	
1880.00	9400	UMTS 1900	RMC	15.00	14.62	-0.01	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	back	1.040	1.091	1.135	0.506	0.552	
1907.60	9538	UMTS 1900	RMC	15.00	14.93	-0.06	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	back	1.140	1.016	1.158	0.552	0.561	
1880.00	9400	UMTS 1900	RMC	15.00	14.62	-0.05	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	top	0.014	1.091	0.015	0.006	0.007	
1880.00	9400	UMTS 1900	RMC	15.00	14.62	-0.10	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	bottom	0.367	1.091	0.400	0.138	0.151	
1852.40	9262	UMTS 1900	RMC	15.00	14.63	-0.04	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	right	0.837	1.089	0.911	0.337	0.367	
1880.00	9400	UMTS 1900	RMC	15.00	14.62	-0.03	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	right	0.857	1.091	0.935	0.349	0.381	
1907.60	9538	UMTS 1900	RMC	15.00	14.93	-0.02	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	right	0.929	1.016	0.944	0.371	0.377	
1880.00	9400	UMTS 1900	RMC	15.00	14.62	-0.20	Body	0 mm	Ant 2a	DLXZT004P57G	1:1	left	0.000	1.091	0.000	0.000	0.000	
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 10-14
UMTS 1900 MHz Ant 2b Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)		(W/kg)	(W/kg)		
1852.40	9262	UMTS 1900	RMC	14.00	13.65	-0.16	Body	0 mm	Ant 2b	DLXZV00WPQKX	N/A	1:1	back	1.080	1.084	1.171	0.430	0.466	A5
1880.00	9400	UMTS 1900	RMC	14.00	13.80	-0.13	Body	0 mm	Ant 2b	DLXZV00WPQKX	N/A	1:1	back	1.100	1.047	1.152	0.436	0.456	
1907.60	9538	UMTS 1900	RMC	14.00	13.90	-0.15	Body	0 mm	Ant 2b	DLXZV00WPQKX	N/A	1:1	back	1.160	1.023	1.187	0.457	0.468	
1880.00	9400	UMTS 1900	RMC	14.00	13.80	0.21	Body	0 mm	Ant 2b	DLXZV00WPQKX	N/A	1:1	top	0.000	1.047	0.000	0.000	0.000	
1880.00	9400	UMTS 1900	RMC	14.00	13.80	0.01	Body	0 mm	Ant 2b	DLXZV00WPQKX	N/A	1:1	bottom	0.688	1.047	0.720	0.269	0.282	
1880.00	9400	UMTS 1900	RMC	14.00	13.80	-0.02	Body	0 mm	Ant 2b	DLXZV00WPQKX	N/A	1:1	right	0.026	1.047	0.027	0.010	0.010	
1880.00	9400	UMTS 1900	RMC	14.00	13.80	0.17	Body	0 mm	Ant 2b	DLXZV00WPQKX	N/A	1:1	left	0.006	1.047	0.006	0.002	0.002	
1907.60	9538	UMTS 1900	RMC	14.00	13.90	-0.05	Body	0 mm	Ant 2b	DLXZV00WPQKX	N/A	1:1	back	1.050	1.023	1.074	0.426	0.436	
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.

Table 10-15
UMTS 1900 MHz Ant 4a Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (2g)	Scaling Factor	Reported SAR (2g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	14.80	14.67	0.01	Body	0 mm	Ant 4a	DLXZV00WPQKX	1:1	back	1.150	1.030	1.185	0.556	0.573	
1880.00	9400	UMTS 1900	RMC	14.80	14.63	0.01	Body	0 mm	Ant 4a	DLXZV00WPQKX	1:1	back	1.140	1.040	1.186	0.544	0.566	
1907.60	9538	UMTS 1900	RMC	14.80	14.46	0.01	Body	0 mm	Ant 4a	DLXZV00WPQKX	1:1	back	1.100	1.076	1.184	0.522	0.562	
1880.00	9400	UMTS 1900	RMC	14.80	14.63	-0.01	Body	0 mm	Ant 4a	DLXZV00WPQKX	1:1	top	0.294	1.040	0.306	0.108	0.112	
1880.00	9400	UMTS 1900	RMC	14.80	14.63	0.20	Body	0 mm	Ant 4a	DLXZV00WPQKX	1:1	bottom	0.014	1.040	0.015	0.006	0.006	
1880.00	9400	UMTS 1900	RMC	14.80	14.63	0.21	Body	0 mm	Ant 4a	DLXZV00WPQKX	1:1	right	0.000	1.040	0.000	0.000	0.000	
1852.40	9262	UMTS 1900	RMC	14.80	14.67	0.01	Body	0 mm	Ant 4a	DLXZV00WPQKX	1:1	left	0.836	1.030	0.861	0.350	0.361	
1880.00	9400	UMTS 1900	RMC	14.80	14.63	0.02	Body	0 mm	Ant 4a	DLXZV00WPQKX	1:1	left	0.826	1.040	0.859	0.343	0.357	
1907.60	9538	UMTS 1900	RMC	14.80	14.48	0.01	Body	0 mm	Ant 4a	DLXZV00WPQKX	1:1	left	0.863	1.076	0.929	0.355	0.382	
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 10-16
UMTS 1900 MHz Ant 4b Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Diff (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (tag)		Scaling Factor	Reported SAR (tag)	SAR (tag)	Reported SAR (tag)	Plot #
MHz	Ch.												(W/kg)	(W/kg)					
1852.40	9262	UMTS 1900	RMC	13.50	13.26	-0.20	Body	0 mm	Ant 4b	DLXZV00BPQKX	1:1	back	0.991	1.057	1.047	0.338	0.357		
1880.00	9400	UMTS 1900	RMC	13.50	13.19	-0.20	Body	0 mm	Ant 4b	DLXZV00BPQKX	1:1	back	1.020	1.074	1.095	0.395	0.424		
1907.60	9538	UMTS 1900	RMC	13.50	13.11	-0.21	Body	0 mm	Ant 4b	DLXZV00BPQKX	1:1	back	1.040	1.094	1.138	0.403	0.441		
1880.00	9400	UMTS 1900	RMC	13.50	13.19	0.02	Body	0 mm	Ant 4b	DLXZV00BPQKX	1:1	top	0.544	1.074	0.584	0.212	0.228		
1880.00	9400	UMTS 1900	RMC	13.50	13.19	-0.21	Body	0 mm	Ant 4b	DLXZV00BPQKX	1:1	bottom	0.000	1.074	0.000	0.000	0.000		
1880.00	9400	UMTS 1900	RMC	13.50	13.19	0.19	Body	0 mm	Ant 4b	DLXZV00BPQKX	1:1	right	0.007	1.074	0.008	0.002	0.002		
1880.00	9400	UMTS 1900	RMC	13.50	13.19	0.21	Body	0 mm	Ant 4b	DLXZV00BPQKX	1:1	left	0.024	1.074	0.026	0.010	0.011		
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 10-17
LTE Band 12 Ant 1 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Diff [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]		Scaling Factor	Reported SAR [W/kg]	SAR [W/kg]	Reported SAR [W/kg]	Plot #
MHz	Ch.															SAR [W/kg]	SAR [W/kg]					
707.50	23095	Md	LTE Band 12	10	21.30	21.05	0.02	0	Ant 1	DLXZV0LPQKX	QPSK	1	0	0 mm	back	1:1	0.826	1.059	0.875	0.422	0.447	A6
707.50	23095	Md	LTE Band 12	10	21.30	21.15	-0.01	0	Ant 1	DLXZV0LPQKX	QPSK	25	25	0 mm	back	1:1	0.782	1.035	0.809	0.397	0.411	
707.50	23095	Md	LTE Band 12	10	21.30	21.02	-0.01	0	Ant 1	DLXZV0LPQKX	QPSK	50	0	0 mm	back	1:1	0.778	1.067	0.830	0.396	0.421	
707.50	23095	Md	LTE Band 12	10	18.30	18.13	-0.20	0	Ant 1	DLXZV0LPQKX	QPSK	1	49	0 mm	back	1:1	0.340	1.040	0.354	0.126	0.131	
707.50	23095	Md	LTE Band 12	10	18.30	17.99	-0.20	0	Ant 1	DLXZV0LPQKX	QPSK	25	25	0 mm	back	1:1	0.363	1.074	0.379	0.129	0.139	
707.50	23095	Md	LTE Band 12	10	21.30	21.05	0.10	0	Ant 1	DLXZV0LPQKX	QPSK	1	0	0 mm	top	1:1	0.024	1.059	0.025	0.011	0.012	
707.50	23095	Md	LTE Band 12	10	21.30	21.15	-0.05	0	Ant 1	DLXZV0LPQKX	QPSK	25	25	0 mm	top	1:1	0.028	1.035	0.029	0.013	0.013	
707.50	23095	Md	LTE Band 12	10	21.30	21.05	-0.05	0	Ant 1	DLXZV0LPQKX	QPSK	1	0	0 mm	bottom	1:1	0.551	1.059	0.584	0.198	0.210	
707.50	23095	Md	LTE Band 12	10	21.30	21.15	0.01	0	Ant 1	DLXZV0LPQKX	QPSK	25	25	0 mm	bottom	1:1	0.542	1.035	0.561	0.194	0.201	
707.50	23095	Md	LTE Band 12	10	21.30	21.05	0.20	0	Ant 1	DLXZV0LPQKX	QPSK	1	0	0 mm	right	1:1	0.006	1.059	0.006	0.004	0.004	
707.50	23095	Md	LTE Band 12	10	21.30	21.15	-0.01	0	Ant 1	DLXZV0LPQKX	QPSK	25	25	0 mm	right	1:1	0.005	1.035	0.005	0.002	0.002	
707.50	23095	Md	LTE Band 12	10	21.30	21.05	-0.20	0	Ant 1	DLXZV0LPQKX	QPSK	1	0	0 mm	left	1:1	1.080	1.059	1.144	0.326	0.345	
707.50	23095	Md	LTE Band 12	10	21.30	21.15	-0.18	0	Ant 1	DLXZV0LPQKX	QPSK	25	25	0 mm	left	1:1	1.040	1.035	1.076	0.310	0.321	
707.50	23095	Md	LTE Band 12	10	21.30	21.02	-0.19	0	Ant 1	DLXZV0LPQKX	QPSK	50	0	0 mm	left	1:1	1.050	1.067	1.120	0.314	0.335	
707.50	23095	Md	LTE Band 12	10	18.30	18.13	0.08	0	Ant 1	DLXZV0LPQKX	QPSK	1	49	0 mm	left	1:1	0.585	1.040	0.608	0.166	0.173	
707.50	23095	Md	LTE Band 12	10	18.30	17.99	0.05	0	Ant 1	DLXZV0LPQKX	QPSK	25	25	0 mm	left	1:1	0.579	1.074	0.622	0.163	0.175	
707.50	23095	Md	LTE Band 12	10	21.30	21.05	0.00	0	Ant 1	DLXZV0LPQKX	QPSK	1	0	0 mm	left	1:1	1.000	1.059	1.059	0.338	0.353	
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.

Table 10-18
LTE Band 12 Ant 3 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Diff (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (tag)		Scaling Factor	Reported SAR (tag) (W/kg)	SAR (tag) (W/kg)	Reported SAR (tag) (W/kg)	Plot #
MHz	Ch.															SAR (tag) (W/kg)						
707.50	23095	Md	LTE Band 12	10	21.80	21.57	0.08	0	Ant 3	DLXZT003P57G	QPSK	1	49	0 mm	back	1:1	0.978	1.054	1.031	0.517	0.545	
707.50	23095	Md	LTE Band 12	10	21.80	21.49	0.07	0	Ant 3	DLXZT003P57G	QPSK	25	25	0 mm	back	1:1	0.929	1.074	0.988	0.490	0.525	
707.50	23095	Md	LTE Band 12	10	21.80	21.45	0.09	0	Ant 3	DLXZT003P57G	QPSK	50	0	0 mm	back	1:1	0.956	1.084	1.036	0.502	0.544	
707.50	23095	Md	LTE Band 12	10	18.80	18.68	-0.10	0	Ant 3	DLXZT003P57G	QPSK	1	49	0 mm	back	1:1	0.408	1.028	0.419	0.211	0.217	
707.50	23095	Md	LTE Band 12	10	18.80	18.49	-0.15	0	Ant 3	DLXZT003P57G	QPSK	25	25	0 mm	back	1:1	0.403	1.074	0.433	0.208	0.223	
707.50	23095	Md	LTE Band 12	10	21.80	21.57	-0.05	0	Ant 3	DLXZT003P57G	QPSK	1	49	0 mm	top	1:1	0.686	1.054	0.723	0.254	0.268	
707.50	23095	Md	LTE Band 12	10	21.80	21.49	-0.20	0	Ant 3	DLXZT003P57G	QPSK	25	25	0 mm	top	1:1	0.680	1.074	0.730	0.244	0.262	
707.50	23095	Md	LTE Band 12	10	21.80	21.57	-0.14	0	Ant 3	DLXZT003P57G	QPSK	1	49	0 mm	bottom	1:1	0.026	1.054	0.027	0.014	0.015	
707.50	23095	Md	LTE Band 12	10	21.80	21.49	0.20	0	Ant 3	DLXZT003P57G	QPSK	25	25	0 mm	bottom	1:1	0.027	1.074	0.029	0.015	0.016	
707.50	23095	Md	LTE Band 12	10	21.80	21.57	0.14	0	Ant 3	DLXZT003P57G	QPSK	1	49	0 mm	right	1:1	0.851	1.054	0.887	0.313	0.330	
707.50	23095	Md	LTE Band 12	10	21.80	21.49	0.02	0	Ant 3	DLXZT003P57G	QPSK	25	25	0 mm	right	1:1	0.813	1.074	0.873	0.300	0.322	
707.50	23095	Md	LTE Band 12	10	21.80	21.45	0.04	0	Ant 3	DLXZT003P57G	QPSK	50	0	0 mm	right	1:1	0.826	1.084	0.895	0.303	0.328	
707.50	23095	Md	LTE Band 12	10	18.80	18.68	0.04	0	Ant 3	DLXZT003P57G	QPSK	1	49	0 mm	right	1:1	0.442	1.028	0.454	0.142	0.146	
707.50	23095	Md	LTE Band 12	10	18.80	18.49	0.08	0	Ant 3	DLXZT003P57G	QPSK	25	25	0 mm	right	1:1	0.436	1.074	0.468	0.140	0.150	
707.50	23095	Md	LTE Band 12	10	21.80	21.57	-0.20	0	Ant 3	DLXZT003P57G	QPSK	1	49	0 mm	left	1:1	0.006	1.054	0.006	0.002	0.002	
707.50	23095	Md	LTE Band 12	10	21.80	21.49	-0.21	0	Ant 3	DLXZT003P57G	QPSK	25	25	0 mm	left	1:1	0.004	1.074	0.004	0.002	0.002	
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: BCGA2232		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C1912170055-01-R1.BCG	Test Dates: 12/20/2019 – 02/05/2020	DUT Type: Tablet Device	Page 230 of 284

Table 10-25
LTE Band 4 Ant 2a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dc [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (dB)	Scaling Factor	Reported SAR (dB)	SAR (dB)	Reported SAR (dB)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.90	14.70	-0.20	0	Ant 2a	DLXZ7004PSTG	QPSK	1	99	0 mm	back	1.1	0.955	1.047	1.000	0.441	0.462	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.90	14.77	-0.04	0	Ant 2a	DLXZ7004PSTG	QPSK	50	50	0 mm	back	1.1	0.923	1.030	0.951	0.424	0.437	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.90	14.65	-0.03	0	Ant 2a	DLXZ7004PSTG	QPSK	100	0	0 mm	back	1.1	0.874	1.059	0.926	0.403	0.427	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	11.90	11.84	0.05	0	Ant 2a	DLXZ7004PSTG	QPSK	1	99	0 mm	back	1.1	0.542	1.014	0.550	0.256	0.260	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	11.90	11.89	-0.05	0	Ant 2a	DLXZ7004PSTG	QPSK	50	50	0 mm	back	1.1	0.531	1.002	0.532	0.250	0.251	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.90	14.70	-0.20	0	Ant 2a	DLXZ7004PSTG	QPSK	1	99	0 mm	top	1.1	0.009	1.047	0.009	0.003	0.003	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.90	14.77	-0.03	0	Ant 2a	DLXZ7004PSTG	QPSK	50	50	0 mm	top	1.1	0.009	1.030	0.009	0.003	0.003	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.90	14.70	0.01	0	Ant 2a	DLXZ7004PSTG	QPSK	1	99	0 mm	bottom	1.1	0.235	1.047	0.245	0.085	0.089	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.90	14.77	-0.04	0	Ant 2a	DLXZ7004PSTG	QPSK	50	50	0 mm	bottom	1.1	0.221	1.030	0.228	0.080	0.082	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.90	14.70	-0.03	0	Ant 2a	DLXZ7004PSTG	QPSK	1	99	0 mm	right	1.1	0.826	1.047	0.885	0.333	0.349	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.90	14.77	-0.03	0	Ant 2a	DLXZ7004PSTG	QPSK	50	50	0 mm	right	1.1	0.801	1.030	0.825	0.322	0.332	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.90	14.65	-0.01	0	Ant 2a	DLXZ7004PSTG	QPSK	100	0	0 mm	right	1.1	0.777	1.059	0.823	0.313	0.331	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	11.90	11.84	0.08	0	Ant 2a	DLXZ7004PSTG	QPSK	1	99	0 mm	right	1.1	0.432	1.014	0.439	0.173	0.175	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	11.90	11.89	0.05	0	Ant 2a	DLXZ7004PSTG	QPSK	50	50	0 mm	right	1.1	0.422	1.002	0.423	0.169	0.169	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.90	14.70	0.19	0	Ant 2a	DLXZ7004PSTG	QPSK	1	99	0 mm	left	1.1	0.001	1.047	0.001	0.000	0.000	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.90	14.77	-0.20	0	Ant 2a	DLXZ7004PSTG	QPSK	50	50	0 mm	left	1.1	0.000	1.030	0.000	0.000	0.000	
ANSI / IEEE C63.1.1992 - SAFETY LIMIT																	Body					
Spatial Peak																	1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																	averaged over 1 gram					

Table 10-26
LTE Band 4 Ant 2b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dc [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (dB)	Scaling Factor	Reported SAR (dB)	SAR (dB)	Reported SAR (dB)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1732.50	20175	Md	LTE Band 4 (AWVS)	20	15.10	15.03	0.01	0	Ant 2b	DLXZ7004PSTG	QPSK	1	99	0 mm	back	1.1	1.100	1.016	1.118	0.432	0.439	A10
1732.50	20175	Md	LTE Band 4 (AWVS)	20	15.10	15.02	0.00	0	Ant 2b	DLXZ7004PSTG	QPSK	50	50	0 mm	back	1.1	1.090	1.019	1.111	0.424	0.432	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	15.10	15.00	-0.09	0	Ant 2b	DLXZ7004PSTG	QPSK	100	0	0 mm	back	1.1	1.080	1.023	1.115	0.426	0.436	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	12.10	11.97	-0.15	0	Ant 2b	DLXZ7004PSTG	QPSK	1	99	0 mm	back	1.1	0.490	1.030	0.505	0.191	0.197	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	12.10	11.84	-0.14	0	Ant 2b	DLXZ7004PSTG	QPSK	50	50	0 mm	back	1.1	0.488	1.062	0.518	0.190	0.202	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	15.10	15.03	-0.20	0	Ant 2b	DLXZ7004PSTG	QPSK	1	99	0 mm	top	1.1	0.001	1.016	0.001	0.000	0.000	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	15.10	15.02	-0.20	0	Ant 2b	DLXZ7004PSTG	QPSK	50	50	0 mm	top	1.1	0.001	1.019	0.001	0.000	0.000	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	15.10	15.03	-0.05	0	Ant 2b	DLXZ7004PSTG	QPSK	1	99	0 mm	bottom	1.1	0.755	1.016	0.767	0.284	0.299	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	15.10	15.02	-0.05	0	Ant 2b	DLXZ7004PSTG	QPSK	50	50	0 mm	bottom	1.1	0.745	1.019	0.759	0.290	0.296	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	15.10	15.03	0.07	0	Ant 2b	DLXZ7004PSTG	QPSK	1	99	0 mm	right	1.1	0.056	1.016	0.056	0.022	0.022	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	15.10	15.02	0.16	0	Ant 2b	DLXZ7004PSTG	QPSK	50	50	0 mm	right	1.1	0.056	1.019	0.059	0.023	0.023	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	15.10	15.03	0.03	0	Ant 2b	DLXZ7004PSTG	QPSK	1	99	0 mm	left	1.1	0.015	1.016	0.015	0.007	0.007	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	15.10	15.02	-0.12	0	Ant 2b	DLXZ7004PSTG	QPSK	50	50	0 mm	left	1.1	0.016	1.019	0.016	0.007	0.007	
ANSI / IEEE C63.1.1992 - SAFETY LIMIT																Body						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						

Table 10-27
LTE Band 4 Ant 4a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dc [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Plot #	
MHz	Ch.															SAR (W/kg)		(W/kg)	(W/kg)			
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.80	14.62	-0.07	0	Ant 4a	DLXZVDBPQKX	QPSK	1	50	0 mm	back	1.1	0.896	1.042	0.924	0.425	0.453	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.80	14.64	-0.06	0	Ant 4a	DLXZVDBPQKX	QPSK	50	25	0 mm	back	1.1	0.903	1.038	0.935	0.437	0.454	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.80	14.37	-0.05	0	Ant 4a	DLXZVDBPQKX	QPSK	100	0	0 mm	back	1.1	0.906	1.104	1.000	0.439	0.465	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	11.80	11.49	0.13	0	Ant 4a	DLXZVDBPQKX	QPSK	1	0	0 mm	back	1.1	0.445	1.074	0.478	0.210	0.225	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	11.80	11.34	0.12	0	Ant 4a	DLXZVDBPQKX	QPSK	50	0	0 mm	back	1.1	0.444	1.112	0.494	0.211	0.235	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.80	14.62	-0.10	0	Ant 4a	DLXZVDBPQKX	QPSK	1	50	0 mm	top	1.1	0.244	1.042	0.254	0.090	0.094	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.80	14.64	-0.02	0	Ant 4a	DLXZVDBPQKX	QPSK	50	25	0 mm	top	1.1	0.246	1.038	0.250	0.091	0.094	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.80	14.62	0.06	0	Ant 4a	DLXZVDBPQKX	QPSK	1	50	0 mm	bottom	1.1	0.011	1.042	0.011	0.004	0.004	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.80	14.64	-0.04	0	Ant 4a	DLXZVDBPQKX	QPSK	50	25	0 mm	bottom	1.1	0.012	1.038	0.012	0.005	0.005	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.80	14.62	0.00	0	Ant 4a	DLXZVDBPQKX	QPSK	1	50	0 mm	right	1.1	0.000	1.042	0.000	0.000	0.000	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.80	14.64	0.00	0	Ant 4a	DLXZVDBPQKX	QPSK	50	25	0 mm	right	1.1	0.000	1.038	0.000	0.000	0.000	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.80	14.62	-0.05	0	Ant 4a	DLXZVDBPQKX	QPSK	1	50	0 mm	left	1.1	0.815	1.042	0.849	0.319	0.332	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.80	14.64	-0.09	0	Ant 4a	DLXZVDBPQKX	QPSK	50	25	0 mm	left	1.1	0.822	1.038	0.853	0.321	0.333	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	14.80	14.37	-0.05	0	Ant 4a	DLXZVDBPQKX	QPSK	100	0	0 mm	left	1.1	0.824	1.104	0.910	0.320	0.353	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	11.80	11.49	-0.03	0	Ant 4a	DLXZVDBPQKX	QPSK	1	0	0 mm	left	1.1	0.411	1.074	0.441	0.166	0.178	
1732.50	20175	Md	LTE Band 4 (AWVS)	20	11.80	11.34	-0.03	0	Ant 4a	DLXZVDBPQKX	QPSK	50	0	0 mm	left	1.1	0.405	1.112	0.450	0.165	0.183	
ANSI / IEEE CS11.382 - SAFETY LIMIT Spatial Peak																	Body 1.6 W/kg (mW/g) averaged over 1 gram					
Uncontrolled Exposure/General Population																						

Table 10-28
LTE Band 4 Ant 4b Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MPD (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (dB)	Scaling Factor	Reported SAR (dB)	SAR (dB)	Reported SAR (dB)	Plot #
MHz	Ch.															(mW/kg)		(mW/kg)	(mW/kg)		
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.50	13.36	0.04	0	Ant 4b	DLX27004P5TG	QPSK	1	99	0 mm	back	1:1	0.908	1.033	0.938	0.261	0.363
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.50	13.34	0.07	0	Ant 4b	DLX27004P5TG	QPSK	50	0	0 mm	back	1:1	0.873	1.038	0.906	0.339	0.352
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.50	13.00	-0.13	0	Ant 4b	DLX27004P5TG	QPSK	100	0	0 mm	back	1:1	0.891	1.122	1.000	0.348	0.390
1732.50	20175	Mid	LTE Band 4 (AWS)	20	10.50	10.31	-0.20	0	Ant 4b	DLX27004P5TG	QPSK	1	99	0 mm	back	1:1	0.489	1.045	0.511	0.199	0.208
1732.50	20175	Mid	LTE Band 4 (AWS)	20	10.50	10.28	-0.20	0	Ant 4b	DLX27004P5TG	QPSK	50	50	0 mm	back	1:1	0.478	1.052	0.503	0.194	0.204
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.50	13.36	-0.05	0	Ant 4b	DLX27004P5TG	QPSK	1	99	0 mm	top	1:1	0.673	1.033	0.695	0.263	0.272
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.50	13.34	-0.03	0	Ant 4b	DLX27004P5TG	QPSK	50	0	0 mm	top	1:1	0.676	1.038	0.704	0.265	0.275
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.50	13.36	0.14	0	Ant 4b	DLX27004P5TG	QPSK	1	99	0 mm	bottom	1:1	0.000	1.033	0.000	0.000	0.000
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.50	13.34	0.21	0	Ant 4b	DLX27004P5TG	QPSK	50	0	0 mm	bottom	1:1	0.001	1.038	0.001	0.000	0.000
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.50	13.36	-0.04	0	Ant 4b	DLX27004P5TG	QPSK	1	99	0 mm	right	1:1	0.004	1.033	0.004	0.001	0.001
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.50	13.34	0.21	0	Ant 4b	DLX27004P5TG	QPSK	50	0	0 mm	right	1:1	0.003	1.038	0.003	0.001	0.001
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.50	13.36	0.14	0	Ant 4b	DLX27004P5TG	QPSK	1	99	0 mm	left	1:1	0.030	1.033	0.031	0.011	0.011
1732.50	20175	Mid	LTE Band 4 (AWS)	20	13.50	13.34	0.21	0	Ant 4b	DLX27004P5TG	QPSK	50	0	0 mm	left	1:1	0.033	1.038	0.034	0.013	0.013
ANSI / IEEE C63.1 1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/kg)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Table 10-29
LTE Band 66 Ant 2a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens (dB)	MPD (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (dB)	Scaling Factor	Reported SAR (dB)	SAR (dB)	Reported SAR (dB)	Plot #	
MHz	Ch.															(mW/kg)			(mW/kg)	(mW/kg)		
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.90	14.90	-0.08	0	Ant 2a	DLX27004P5TG	QPSK	1	0	0 mm	back	1:1	1.170	1.000	1.170	0.567	0.567	A11
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.90	14.53	-0.08	0	Ant 2a	DLX27004P5TG	QPSK	1	0	0 mm	back	1:1	1.080	1.089	1.176	0.535	0.561	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.90	14.72	-0.02	0	Ant 2a	DLX27004P5TG	QPSK	1	50	0 mm	back	1:1	1.140	1.042	1.188	0.543	0.566	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.90	14.81	-0.02	0	Ant 2a	DLX27004P5TG	QPSK	50	0	0 mm	back	1:1	1.140	1.021	1.154	0.541	0.552	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.90	14.68	-0.04	0	Ant 2a	DLX27004P5TG	QPSK	50	0	0 mm	back	1:1	1.110	1.052	1.166	0.531	0.560	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.90	14.80	-0.02	0	Ant 2a	DLX27004P5TG	QPSK	50	50	0 mm	back	1:1	1.160	1.023	1.187	0.551	0.564	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.90	14.65	-0.13	0	Ant 2a	DLX27004P5TG	QPSK	100	0	0 mm	back	1:1	1.110	1.059	1.175	0.532	0.563	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.90	11.87	0.04	0	Ant 2a	DLX27004P5TG	QPSK	1	0	0 mm	back	1:1	0.984	1.007	0.988	0.277	0.279	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.90	11.65	-0.03	0	Ant 2a	DLX27004P5TG	QPSK	50	0	0 mm	back	1:1	0.980	1.059	0.625	0.276	0.292	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.90	14.90	-0.20	0	Ant 2a	DLX27004P5TG	QPSK	1	0	0 mm	top	1:1	0.008	1.000	0.008	0.002	0.002	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.90	14.81	-0.20	0	Ant 2a	DLX27004P5TG	QPSK	50	0	0 mm	top	1:1	0.008	1.021	0.008	0.002	0.002	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.90	14.90	-0.04	0	Ant 2a	DLX27004P5TG	QPSK	1	0	0 mm	bottom	1:1	0.203	1.000	0.203	0.079	0.079	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.90	14.81	-0.11	0	Ant 2a	DLX27004P5TG	QPSK	50	0	0 mm	bottom	1:1	0.200	1.021	0.204	0.077	0.079	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.90	14.90	-0.07	0	Ant 2a	DLX27004P5TG	QPSK	1	0	0 mm	right	1:1	0.903	1.000	0.903	0.359	0.359	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.90	14.53	-0.05	0	Ant 2a	DLX27004P5TG	QPSK	1	0	0 mm	right	1:1	0.862	1.089	0.939	0.342	0.372	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.90	14.72	0.02	0	Ant 2a	DLX27004P5TG	QPSK	1	50	0 mm	right	1:1	0.893	1.042	0.931	0.347	0.362	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.90	14.81	0.05	0	Ant 2a	DLX27004P5TG	QPSK	50	0	0 mm	right	1:1	0.884	1.021	0.903	0.350	0.357	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.90	14.68	-0.03	0	Ant 2a	DLX27004P5TG	QPSK	50	0	0 mm	right	1:1	0.875	1.052	0.921	0.345	0.363	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.90	14.80	-0.03	0	Ant 2a	DLX27004P5TG	QPSK	50	50	0 mm	right	1:1	0.936	1.023	0.958	0.360	0.368	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.90	14.65	-0.03	0	Ant 2a	DLX27004P5TG	QPSK	100	0	0 mm	right	1:1	0.921	1.059	0.975	0.352	0.373	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.90	11.87	-0.03	0	Ant 2a	DLX27004P5TG	QPSK	1	0	0 mm	right	1:1	0.417	1.007	0.420	0.172	0.173	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.90	11.65	-0.03	0	Ant 2a	DLX27004P5TG	QPSK	50	0	0 mm	right	1:1	0.417	1.059	0.442	0.172	0.182	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.90	14.90	-0.20	0	Ant 2a	DLX27004P5TG	QPSK	1	0	0 mm	left	1:1	0.000	1.000	0.000	0.000	0.000	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.90	14.81	-0.20	0	Ant 2a	DLX27004P5TG	QPSK	50	0	0 mm	left	1:1	0.000	1.021	0.000	0.000	0.000	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.90	14.90	-0.10	0	Ant 2a	DLX27004P5TG	QPSK	1	0	0 mm	back	1:1	1.070	1.000	1.070	0.526	0.526	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/kg)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Note: Blue entry represents variability measurement.

FCC ID: BCGA2232			SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C1912170055-01-R1.BCG	Test Dates: 12/20/2019 – 02/05/2020	DUT Type: Tablet Device	Page 234 of 284	

Table 10-30
LTE Band 66 Ant 2b Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power (dUT) [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Scaling Factor	Reported SAR [W/kg]	SAR (Std) [W/kg]	Reported SAR (Std) [W/kg]	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)		
1720.00	132072	Low	LTE Band 66 (AWVS)	20	15.10	15.08	-0.18	0	Ant 2b	DLXZT004P5TG	QPSK	1	0	0 mm	back	1:1	0.995	1.005	1.000	0.429	0.421
1745.00	132322	Mid	LTE Band 66 (AWVS)	20	15.10	14.96	-0.20	0	Ant 2b	DLXZT004P5TG	QPSK	1	50	0 mm	back	1:1	0.874	1.028	0.898	0.374	0.384
1770.00	132572	High	LTE Band 66 (AWVS)	20	15.10	14.99	-0.19	0	Ant 2b	DLXZT004P5TG	QPSK	1	99	0 mm	back	1:1	0.866	1.026	0.889	0.367	0.377
1720.00	132072	Low	LTE Band 66 (AWVS)	20	15.10	15.09	-0.20	0	Ant 2b	DLXZT004P5TG	QPSK	50	0	0 mm	back	1:1	0.941	1.002	0.943	0.405	0.406
1745.00	132322	Mid	LTE Band 66 (AWVS)	20	15.10	15.01	-0.18	0	Ant 2b	DLXZT004P5TG	QPSK	50	25	0 mm	back	1:1	0.895	1.021	0.914	0.382	0.390
1770.00	132572	High	LTE Band 66 (AWVS)	20	15.10	15.02	-0.20	0	Ant 2b	DLXZT004P5TG	QPSK	50	50	0 mm	back	1:1	1.030	1.019	1.050	0.402	0.410
1720.00	132072	Low	LTE Band 66 (AWVS)	20	15.10	14.99	0.19	0	Ant 2b	DLXZT004P5TG	QPSK	100	0	0 mm	back	1:1	0.908	1.026	0.932	0.390	0.400
1720.00	132072	Low	LTE Band 66 (AWVS)	20	12.10	11.94	-0.02	0	Ant 2b	DLXZT004P5TG	QPSK	1	0	0 mm	back	1:1	0.481	1.038	0.499	0.201	0.209
1720.00	132072	Low	LTE Band 66 (AWVS)	20	12.10	11.79	-0.03	0	Ant 2b	DLXZT004P5TG	QPSK	50	25	0 mm	back	1:1	0.458	1.074	0.492	0.191	0.205
1720.00	132072	Low	LTE Band 66 (AWVS)	20	15.10	15.08	-0.19	0	Ant 2b	DLXZT004P5TG	QPSK	1	0	0 mm	top	1:1	0.002	1.005	0.002	0.000	0.000
1720.00	132072	Low	LTE Band 66 (AWVS)	20	15.10	15.09	0.20	0	Ant 2b	DLXZT004P5TG	QPSK	50	0	0 mm	top	1:1	0.001	1.002	0.001	0.000	0.000
1720.00	132072	Low	LTE Band 66 (AWVS)	20	15.10	15.08	-0.01	0	Ant 2b	DLXZT004P5TG	QPSK	1	0	0 mm	bottom	1:1	0.614	1.005	0.617	0.237	0.238
1720.00	132072	Low	LTE Band 66 (AWVS)	20	15.10	15.09	0.00	0	Ant 2b	DLXZT004P5TG	QPSK	50	0	0 mm	bottom	1:1	0.591	1.002	0.592	0.228	0.228
1720.00	132072	Low	LTE Band 66 (AWVS)	20	15.10	15.08	0.11	0	Ant 2b	DLXZT004P5TG	QPSK	1	0	0 mm	right	1:1	0.095	1.005	0.095	0.021	0.021
1720.00	132072	Low	LTE Band 66 (AWVS)	20	15.10	15.09	0.06	0	Ant 2b	DLXZT004P5TG	QPSK	50	0	0 mm	right	1:1	0.090	1.002	0.090	0.018	0.018
1720.00	132072	Low	LTE Band 66 (AWVS)	20	15.10	15.08	0.20	0	Ant 2b	DLXZT004P5TG	QPSK	1	0	0 mm	left	1:1	0.009	1.005	0.009	0.004	0.004
1720.00	132072	Low	LTE Band 66 (AWVS)	20	15.10	15.09	-0.04	0	Ant 2b	DLXZT004P5TG	QPSK	50	0	0 mm	left	1:1	0.009	1.002	0.009	0.004	0.004
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 10-31
LTE Band 66 Ant 4a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power DUT [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [g]	Scaling Factor	Reported SAR [g] (W/kg)	SAR [dBg]	Reported SAR [dBg] (W/kg)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)		
1720.00	132072	Low	LTE Band 66 (AWVS)	20	14.80	14.66	-0.05	0	Ant 4a	DLXZV008PQKH	QPSK	1	99	0 mm	back	1:1	0.915	1.033	0.945	0.464	0.479
1745.00	132322	Mid	LTE Band 66 (AWVS)	20	14.80	14.47	-0.04	0	Ant 4a	DLXZV008PQKH	QPSK	1	0	0 mm	back	1:1	0.927	1.079	1.000	0.467	0.504
1770.00	132572	High	LTE Band 66 (AWVS)	20	14.80	14.51	-0.07	0	Ant 4a	DLXZV008PQKH	QPSK	1	0	0 mm	back	1:1	0.869	1.069	0.929	0.426	0.465
1720.00	132072	Low	LTE Band 66 (AWVS)	20	14.80	14.60	-0.06	0	Ant 4a	DLXZV008PQKH	QPSK	50	50	0 mm	back	1:1	0.871	1.047	0.912	0.440	0.461
1745.00	132322	Mid	LTE Band 66 (AWVS)	20	14.80	14.57	-0.06	0	Ant 4a	DLXZV008PQKH	QPSK	50	0	0 mm	back	1:1	0.912	1.054	0.961	0.459	0.484
1770.00	132572	High	LTE Band 66 (AWVS)	20	14.80	14.59	-0.04	0	Ant 4a	DLXZV008PQKH	QPSK	50	0	0 mm	back	1:1	0.887	1.050	0.931	0.442	0.464
1720.00	132072	Low	LTE Band 66 (AWVS)	20	14.80	14.58	-0.09	0	Ant 4a	DLXZV008PQKH	QPSK	100	0	0 mm	back	1:1	0.889	1.052	0.895	0.462	0.476
1720.00	132072	Low	LTE Band 66 (AWVS)	20	11.80	11.57	-0.04	0	Ant 4a	DLXZV008PQKH	QPSK	1	99	0 mm	back	1:1	0.278	1.054	0.293	0.144	0.152
1720.00	132072	Low	LTE Band 66 (AWVS)	20	11.80	11.51	-0.04	0	Ant 4a	DLXZV008PQKH	QPSK	50	50	0 mm	back	1:1	0.264	1.069	0.282	0.137	0.146
1720.00	132072	Low	LTE Band 66 (AWVS)	20	14.80	14.66	0.10	0	Ant 4a	DLXZV008PQKH	QPSK	1	99	0 mm	top	1:1	0.220	1.033	0.227	0.084	0.087
1720.00	132072	Low	LTE Band 66 (AWVS)	20	14.80	14.60	0.05	0	Ant 4a	DLXZV008PQKH	QPSK	50	50	0 mm	top	1:1	0.210	1.047	0.220	0.080	0.084
1720.00	132072	Low	LTE Band 66 (AWVS)	20	14.80	14.66	0.20	0	Ant 4a	DLXZV008PQKH	QPSK	1	99	0 mm	bottom	1:1	0.013	1.033	0.013	0.005	0.005
1720.00	132072	Low	LTE Band 66 (AWVS)	20	14.80	14.60	0.20	0	Ant 4a	DLXZV008PQKH	QPSK	50	50	0 mm	bottom	1:1	0.010	1.047	0.010	0.004	0.004
1720.00	132072	Low	LTE Band 66 (AWVS)	20	14.80	14.66	0.20	0	Ant 4a	DLXZV008PQKH	QPSK	1	99	0 mm	right	1:1	0.000	1.033	0.000	0.000	0.000
1720.00	132072	Low	LTE Band 66 (AWVS)	20	14.80	14.60	0.21	0	Ant 4a	DLXZV008PQKH	QPSK	50	50	0 mm	right	1:1	0.000	1.047	0.000	0.000	0.000
1720.00	132072	Low	LTE Band 66 (AWVS)	20	14.80	14.66	-0.06	0	Ant 4a	DLXZV008PQKH	QPSK	1	99	0 mm	left	1:1	0.823	1.033	0.850	0.324	0.335
1745.00	132322	Mid	LTE Band 66 (AWVS)	20	14.80	14.47	-0.04	0	Ant 4a	DLXZV008PQKH	QPSK	1	0	0 mm	left	1:1	0.824	1.079	0.889	0.324	0.350
1770.00	132572	High	LTE Band 66 (AWVS)	20	14.80	14.51	-0.07	0	Ant 4a	DLXZV008PQKH	QPSK	1	0	0 mm	left	1:1	0.843	1.069	0.901	0.329	0.352
1720.00	132072	Low	LTE Band 66 (AWVS)	20	14.80	14.60	-0.04	0	Ant 4a	DLXZV008PQKH	QPSK	50	50	0 mm	left	1:1	0.804	1.047	0.842	0.315	0.330
1745.00	132322	Mid	LTE Band 66 (AWVS)	20	14.80	14.57	-0.06	0	Ant 4a	DLXZV008PQKH	QPSK	50	0	0 mm	left	1:1	0.818	1.054	0.862	0.320	0.337
1770.00	132572	High	LTE Band 66 (AWVS)	20	14.80	14.59	-0.05	0	Ant 4a	DLXZV008PQKH	QPSK	50	0	0 mm	left	1:1	0.852	1.050	0.895	0.330	0.347
1720.00	132072	Low	LTE Band 66 (AWVS)	20	14.80	14.58	-0.06	0	Ant 4a	DLXZV008PQKH	QPSK	100	0	0 mm	left	1:1	0.779	1.052	0.820	0.305	0.321
1720.00	132072	Low	LTE Band 66 (AWVS)	20	11.80	11.57	0.10	0	Ant 4a	DLXZV008PQKH	QPSK	1	99	0 mm	left	1:1	0.328	1.054	0.346	0.138	0.145
1720.00	132072	Low	LTE Band 66 (AWVS)	20	11.80	11.51	-0.14	0	Ant 4a	DLXZV008PQKH	QPSK	50	50	0 mm	left	1:1	0.317	1.069	0.339	0.133	0.142
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: BCGA2232	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C1912170055-01-R1.BCG	Test Dates: 12/20/2019 – 02/05/2020	DUT Type: Tablet Device	Page 235 of 284

Table 10-32
LTE Band 66 Ant 4b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Spectral Density [dBm/MHz]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [g]	Scaling Factor	Reported SAR [g]	SAR [g]	Reported SAR [g]	Plot #	
MHz	Ch.															(W/kg)	(W/kg)	(W/kg)				
1720.00	132072	Low	LTE Band 66 (AWVS)	20	13.50	13.50	-0.16	0	Ant 4b	DLX2T004P5TG	QPSK	1	50	0 mm	back	1:1	0.845	1.000	0.845	0.238	0.238	
1745.00	132322	Mid	LTE Band 66 (AWVS)	20	13.50	13.40	-0.20	0	Ant 4b	DLX2T004P5TG	QPSK	1	50	0 mm	back	1:1	0.830	1.023	0.849	0.332	0.340	
1770.00	132572	High	LTE Band 66 (AWVS)	20	13.50	13.14	-0.14	0	Ant 4b	DLX2T004P5TG	QPSK	1	0	0 mm	back	1:1	0.922	1.086	1.001	0.362	0.393	
1720.00	132072	Low	LTE Band 66 (AWVS)	20	13.50	13.49	-0.15	0	Ant 4b	DLX2T004P5TG	QPSK	50	0	0 mm	back	1:1	0.871	1.002	0.873	0.347	0.348	
1745.00	132322	Mid	LTE Band 66 (AWVS)	20	13.50	13.43	-0.08	0	Ant 4b	DLX2T004P5TG	QPSK	50	50	0 mm	back	1:1	0.920	1.016	0.935	0.363	0.369	
1770.00	132572	High	LTE Band 66 (AWVS)	20	13.50	13.33	-0.11	0	Ant 4b	DLX2T004P5TG	QPSK	50	0	0 mm	back	1:1	0.875	1.040	0.930	0.343	0.357	
1720.00	132072	Low	LTE Band 66 (AWVS)	20	13.50	13.47	-0.16	0	Ant 4b	DLX2T004P5TG	QPSK	100	0	0 mm	back	1:1	0.861	1.007	0.867	0.343	0.345	
1745.00	132322	Mid	LTE Band 66 (AWVS)	20	10.50	10.50	0.01	0	Ant 4b	DLX2T004P5TG	QPSK	1	99	0 mm	back	1:1	0.202	1.000	0.202	0.084	0.084	
1745.00	132322	Mid	LTE Band 66 (AWVS)	20	10.50	10.45	0.00	0	Ant 4b	DLX2T004P5TG	QPSK	50	50	0 mm	back	1:1	0.204	1.012	0.206	0.085	0.086	
1720.00	132072	Low	LTE Band 66 (AWVS)	20	13.50	13.50	-0.02	0	Ant 4b	DLX2T004P5TG	QPSK	1	50	0 mm	top	1:1	0.963	1.000	0.963	0.229	0.229	
1720.00	132072	Low	LTE Band 66 (AWVS)	20	13.50	13.49	0.00	0	Ant 4b	DLX2T004P5TG	QPSK	50	0	0 mm	top	1:1	0.603	1.002	0.604	0.235	0.235	
1720.00	132072	Low	LTE Band 66 (AWVS)	20	13.50	13.50	-0.12	0	Ant 4b	DLX2T004P5TG	QPSK	1	50	0 mm	bottom	1:1	0.000	1.000	0.000	0.000	0.000	
1720.00	132072	Low	LTE Band 66 (AWVS)	20	13.50	13.49	0.13	0	Ant 4b	DLX2T004P5TG	QPSK	50	0	0 mm	bottom	1:1	0.000	1.002	0.000	0.000	0.000	
1720.00	132072	Low	LTE Band 66 (AWVS)	20	13.50	13.50	-0.18	0	Ant 4b	DLX2T004P5TG	QPSK	1	50	0 mm	right	1:1	0.002	1.000	0.002	0.001	0.001	
1720.00	132072	Low	LTE Band 66 (AWVS)	20	13.50	13.49	-0.19	0	Ant 4b	DLX2T004P5TG	QPSK	50	0	0 mm	right	1:1	0.002	1.002	0.002	0.001	0.001	
1720.00	132072	Low	LTE Band 66 (AWVS)	20	13.50	13.50	0.19	0	Ant 4b	DLX2T004P5TG	QPSK	1	50	0 mm	left	1:1	0.030	1.000	0.030	0.012	0.012	
1720.00	132072	Low	LTE Band 66 (AWVS)	20	13.50	13.49	0.19	0	Ant 4b	DLX2T004P5TG	QPSK	50	0	0 mm	left	1:1	0.029	1.002	0.029	0.012	0.012	
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 10-33
LTE Band 2 Ant 2a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dn [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [g]	Scaling Factor	Reported SAR [50 (W/kg)]	SAR [20g (W/kg)]	Reported SAR [50 (W/kg)]	Plot #	
MHz	Ch.															(W/kg)		(W/kg)				
1880.00	18700	Low	LTE Band 2 (PCs)	20	15.00	14.77	0.00	0	Ant 2a	DLX2T004P5TG	QPSK	1	99	0 mm	back	1:1	1.060	1.054	1.117	0.525	0.553	
1880.00	18900	Mid	LTE Band 2 (PCs)	20	15.00	14.99	-0.03	0	Ant 2a	DLX2T004P5TG	QPSK	1	99	0 mm	back	1:1	1.050	1.002	1.052	0.519	0.520	
1900.00	19100	High	LTE Band 2 (PCs)	20	15.00	15.00	-0.05	0	Ant 2a	DLX2T004P5TG	QPSK	1	99	0 mm	back	1:1	1.120	1.000	1.120	0.555	0.555	A12
1880.00	18700	Low	LTE Band 2 (PCs)	20	15.00	14.92	0.02	0	Ant 2a	DLX2T004P5TG	QPSK	50	50	0 mm	back	1:1	1.030	1.019	1.050	0.513	0.523	
1880.00	18900	Mid	LTE Band 2 (PCs)	20	15.00	14.79	-0.01	0	Ant 2a	DLX2T004P5TG	QPSK	50	0	0 mm	back	1:1	0.988	1.050	1.037	0.490	0.515	
1900.00	19100	High	LTE Band 2 (PCs)	20	15.00	14.99	0.01	0	Ant 2a	DLX2T004P5TG	QPSK	50	50	0 mm	back	1:1	1.010	1.002	1.012	0.481	0.482	
1900.00	19100	High	LTE Band 2 (PCs)	20	15.00	14.91	0.20	0	Ant 2a	DLX2T004P5TG	QPSK	100	0	0 mm	back	1:1	1.000	1.021	1.052	0.499	0.509	
1900.00	19100	High	LTE Band 2 (PCs)	20	12.00	12.00	-0.01	0	Ant 2a	DLX2T004P5TG	QPSK	1	99	0 mm	back	1:1	0.650	1.000	0.650	0.291	0.291	
1900.00	19100	High	LTE Band 2 (PCs)	20	12.00	11.94	-0.01	0	Ant 2a	DLX2T004P5TG	QPSK	50	50	0 mm	back	1:1	0.617	1.014	0.626	0.277	0.281	
1900.00	19100	High	LTE Band 2 (PCs)	20	15.00	15.00	0.20	0	Ant 2a	DLX2T004P5TG	QPSK	1	99	0 mm	top	1:1	0.012	1.000	0.012	0.005	0.005	
1900.00	19100	High	LTE Band 2 (PCs)	20	15.00	14.99	0.20	0	Ant 2a	DLX2T004P5TG	QPSK	50	50	0 mm	top	1:1	0.013	1.002	0.013	0.005	0.005	
1900.00	19100	High	LTE Band 2 (PCs)	20	15.00	15.00	-0.02	0	Ant 2a	DLX2T004P5TG	QPSK	1	99	0 mm	bottom	1:1	0.359	1.000	0.359	0.127	0.127	
1900.00	19100	High	LTE Band 2 (PCs)	20	15.00	14.99	-0.01	0	Ant 2a	DLX2T004P5TG	QPSK	50	50	0 mm	bottom	1:1	0.336	1.002	0.339	0.120	0.120	
1880.00	18700	Low	LTE Band 2 (PCs)	20	15.00	14.77	-0.03	0	Ant 2a	DLX2T004P5TG	QPSK	1	99	0 mm	right	1:1	0.854	1.054	0.900	0.345	0.364	
1880.00	18900	Mid	LTE Band 2 (PCs)	20	15.00	14.99	-0.03	0	Ant 2a	DLX2T004P5TG	QPSK	1	99	0 mm	right	1:1	0.846	1.002	0.846	0.338	0.339	
1900.00	19100	High	LTE Band 2 (PCs)	20	15.00	15.00	0.02	0	Ant 2a	DLX2T004P5TG	QPSK	1	99	0 mm	right	1:1	0.927	1.000	0.927	0.369	0.369	
1880.00	18700	Low	LTE Band 2 (PCs)	20	15.00	14.92	-0.02	0	Ant 2a	DLX2T004P5TG	QPSK	50	50	0 mm	right	1:1	0.825	1.019	0.841	0.332	0.338	
1880.00	18900	Mid	LTE Band 2 (PCs)	20	15.00	14.79	-0.02	0	Ant 2a	DLX2T004P5TG	QPSK	50	0	0 mm	right	1:1	0.870	1.050	0.914	0.348	0.365	
1900.00	19100	High	LTE Band 2 (PCs)	20	15.00	14.99	-0.06	0	Ant 2a	DLX2T004P5TG	QPSK	50	50	0 mm	right	1:1	0.886	1.002	0.886	0.353	0.354	
1900.00	19100	High	LTE Band 2 (PCs)	20	15.00	14.91	-0.03	0	Ant 2a	DLX2T004P5TG	QPSK	100	0	0 mm	right	1:1	0.880	1.021	0.896	0.350	0.357	
1900.00	19100	High	LTE Band 2 (PCs)	20	12.00	12.00	-0.05	0	Ant 2a	DLX2T004P5TG	QPSK	1	99	0 mm	right	1:1	0.485	1.000	0.485	0.193	0.193	
1900.00	19100	High	LTE Band 2 (PCs)	20	12.00	11.94	-0.07	0	Ant 2a	DLX2T004P5TG	QPSK	50	50	0 mm	right	1:1	0.467	1.014	0.474	0.185	0.188	
1900.00	19100	High	LTE Band 2 (PCs)	20	15.00	15.00	0.14	0	Ant 2a	DLX2T004P5TG	QPSK	1	99	0 mm	left	1:1	0.000	1.000	0.000	0.000	0.000	
1900.00	19100	High	LTE Band 2 (PCs)	20	15.00	14.99	0.20	0	Ant 2a	DLX2T004P5TG	QPSK	50	50	0 mm	left	1:1	0.000	1.002	0.000	0.000	0.000	
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: BCGA2232		 SAR EVALUATION REPORT		Approved by: Quality Manager	
Document S/N: 1C1912170055-01-R1.BCG		Test Dates: 12/20/2019 – 02/05/2020		DUT Type: Tablet Device	
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Table 10-34
LTE Band 2 Ant 2b Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dn (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Plot #				
MHz	Ch.															(W/kg)	(W/kg)	(W/kg)							
1880.00	18700	Low	LTE Band 2 (PCS)	20	14.00	13.21	-0.05	0	Ant 2b	DLXQVLPQKX	QPSK	1	99	0 mm	back	1:1	0.946	1.172	1.109	0.381	0.447				
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.00	13.32	-0.08	0	Ant 2b	DLXQVLPQKX	QPSK	1	99	0 mm	back	1:1	0.936	1.169	1.094	0.373	0.436				
1900.00	19100	High	LTE Band 2 (PCS)	20	14.00	13.99	-0.21	0	Ant 2b	DLXQVLPQKX	QPSK	1	99	0 mm	back	1:1	0.953	1.002	0.955	0.381	0.382				
1880.00	18700	Low	LTE Band 2 (PCS)	20	14.00	13.48	-0.07	0	Ant 2b	DLXQVLPQKX	QPSK	50	50	0 mm	back	1:1	0.940	1.127	1.059	0.375	0.423				
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.00	13.48	-0.07	0	Ant 2b	DLXQVLPQKX	QPSK	50	50	0 mm	back	1:1	0.915	1.127	1.031	0.365	0.411				
1900.00	19100	High	LTE Band 2 (PCS)	20	14.00	13.71	-0.20	0	Ant 2b	DLXQVLPQKX	QPSK	50	50	0 mm	back	1:1	0.954	1.069	1.020	0.369	0.394				
1900.00	19100	High	LTE Band 2 (PCS)	20	14.00	13.62	-0.21	0	Ant 2b	DLXQVLPQKX	QPSK	100	0	0 mm	back	1:1	0.974	1.091	1.063	0.386	0.421				
1900.00	19100	High	LTE Band 2 (PCS)	20	11.00	11.00	-0.01	0	Ant 2b	DLXQVLPQKX	QPSK	1	99	0 mm	back	1:1	0.917	1.000	0.917	0.203	0.203				
1900.00	19100	High	LTE Band 2 (PCS)	20	11.00	10.63	-0.02	0	Ant 2b	DLXQVLPQKX	QPSK	50	50	0 mm	back	1:1	0.909	1.089	0.954	0.199	0.217				
1900.00	19100	High	LTE Band 2 (PCS)	20	14.00	13.99	0.00	0	Ant 2b	DLXQVLPQKX	QPSK	1	99	0 mm	top	1:1	0.000	1.002	0.000	0.000	0.000				
1900.00	19100	High	LTE Band 2 (PCS)	20	14.00	13.71	0.21	0	Ant 2b	DLXQVLPQKX	QPSK	50	50	0 mm	top	1:1	0.000	1.069	0.000	0.000	0.000				
1900.00	19100	High	LTE Band 2 (PCS)	20	14.00	13.99	0.03	0	Ant 2b	DLXQVLPQKX	QPSK	1	99	0 mm	bottom	1:1	0.651	1.002	0.652	0.257	0.258				
1900.00	19100	High	LTE Band 2 (PCS)	20	14.00	13.71	0.00	0	Ant 2b	DLXQVLPQKX	QPSK	50	50	0 mm	bottom	1:1	0.630	1.069	0.673	0.247	0.264				
1900.00	19100	High	LTE Band 2 (PCS)	20	14.00	13.99	0.16	0	Ant 2b	DLXQVLPQKX	QPSK	1	99	0 mm	right	1:1	0.019	1.002	0.019	0.008	0.008				
1900.00	19100	High	LTE Band 2 (PCS)	20	14.00	13.71	0.21	0	Ant 2b	DLXQVLPQKX	QPSK	50	50	0 mm	right	1:1	0.016	1.069	0.017	0.006	0.006				
1900.00	19100	High	LTE Band 2 (PCS)	20	14.00	13.99	0.10	0	Ant 2b	DLXQVLPQKX	QPSK	1	99	0 mm	left	1:1	0.003	1.002	0.003	0.000	0.000				
1900.00	19100	High	LTE Band 2 (PCS)	20	14.00	13.71	0.21	0	Ant 2b	DLXQVLPQKX	QPSK	50	50	0 mm	left	1:1	0.004	1.069	0.004	0.001	0.001				
ANSI / IEEE C63.1 1992 - SAFETY LIMIT										Body															
Uncontrolled Exposure/General Population										Spatial Peak												1.6 W/kg (mW/g)		averaged over 1 gram	

Table 10-35
LTE Band 2 Ant 4a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dn (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W)	Scaling Factor	Reported SAR (W)	SAR (12g)	Reported SAR (20g)	Plot #	
MHz	Ch.															(W/kg)	(W/kg)	(W/kg)				
1880.00	18700	Low	LTE Band 2 (PCS)	20	14.80	14.66	0.12	0	Ant 4a	DLXQVLPQKX	QPSK	1	99	0 mm	back	1:1	1.030	1.033	1.064	0.507	0.524	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.80	14.72	-0.01	0	Ant 4a	DLXQVLPQKX	QPSK	1	99	0 mm	back	1:1	1.020	1.019	1.039	0.500	0.510	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.80	14.74	0.10	0	Ant 4a	DLXQVLPQKX	QPSK	1	50	0 mm	back	1:1	1.060	1.014	1.075	0.515	0.522	
1880.00	18700	Low	LTE Band 2 (PCS)	20	14.80	14.58	-0.06	0	Ant 4a	DLXQVLPQKX	QPSK	50	0	0 mm	back	1:1	1.040	1.062	1.094	0.514	0.541	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.80	14.59	0.00	0	Ant 4a	DLXQVLPQKX	QPSK	50	0	0 mm	back	1:1	1.060	1.060	1.113	0.517	0.543	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.80	14.80	-0.12	0	Ant 4a	DLXQVLPQKX	QPSK	50	25	0 mm	back	1:1	1.070	1.000	1.070	0.520	0.520	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.80	14.73	-0.03	0	Ant 4a	DLXQVLPQKX	QPSK	100	0	0 mm	back	1:1	1.060	1.016	1.077	0.519	0.527	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.80	11.77	-0.20	0	Ant 4a	DLXQVLPQKX	QPSK	1	99	0 mm	back	1:1	0.956	1.007	0.960	0.252	0.254	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.80	11.66	0.03	0	Ant 4a	DLXQVLPQKX	QPSK	50	50	0 mm	back	1:1	0.948	1.033	0.966	0.251	0.259	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.80	14.74	0.01	0	Ant 4a	DLXQVLPQKX	QPSK	1	50	0 mm	top	1:1	0.307	1.014	0.311	0.109	0.111	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.80	14.80	0.01	0	Ant 4a	DLXQVLPQKX	QPSK	50	25	0 mm	top	1:1	0.304	1.000	0.304	0.109	0.109	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.80	14.74	-0.01	0	Ant 4a	DLXQVLPQKX	QPSK	1	50	0 mm	bottom	1:1	0.015	1.014	0.015	0.006	0.006	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.80	14.80	-0.04	0	Ant 4a	DLXQVLPQKX	QPSK	50	25	0 mm	bottom	1:1	0.015	1.000	0.015	0.006	0.006	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.80	14.74	0.00	0	Ant 4a	DLXQVLPQKX	QPSK	1	50	0 mm	right	1:1	0.000	1.014	0.000	0.000	0.000	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.80	14.80	0.00	0	Ant 4a	DLXQVLPQKX	QPSK	50	25	0 mm	right	1:1	0.000	1.000	0.000	0.000	0.000	
1880.00	18700	Low	LTE Band 2 (PCS)	20	14.80	14.66	-0.01	0	Ant 4a	DLXQVLPQKX	QPSK	1	99	0 mm	left	1:1	0.811	1.033	0.838	0.320	0.331	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.80	14.72	-0.03	0	Ant 4a	DLXQVLPQKX	QPSK	1	99	0 mm	left	1:1	0.814	1.019	0.829	0.320	0.326	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.80	14.74	0.02	0	Ant 4a	DLXQVLPQKX	QPSK	1	50	0 mm	left	1:1	0.833	1.014	0.845	0.327	0.332	
1880.00	18700	Low	LTE Band 2 (PCS)	20	14.80	14.58	0.01	0	Ant 4a	DLXQVLPQKX	QPSK	50	0	0 mm	left	1:1	0.819	1.052	0.862	0.323	0.340	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.80	14.59	0.00	0	Ant 4a	DLXQVLPQKX	QPSK	50	0	0 mm	left	1:1	0.816	1.050	0.857	0.321	0.337	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.80	14.80	0.02	0	Ant 4a	DLXQVLPQKX	QPSK	50	25	0 mm	left	1:1	0.847	1.000	0.847	0.331	0.331	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.80	14.73	-0.01	0	Ant 4a	DLXQVLPQKX	QPSK	100	0	0 mm	left	1:1	0.858	1.016	0.872	0.335	0.340	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.80	11.77	0.01	0	Ant 4a	DLXQVLPQKX	QPSK	1	99	0 mm	left	1:1	0.455	1.007	0.458	0.161	0.162	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.80	11.66	-0.07	0	Ant 4a	DLXQVLPQKX	QPSK	50	50	0 mm	left	1:1	0.445	1.033	0.460	0.177	0.183	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT										Body										1.6 W/kg (mW/g)		
Spatial Peak																				averaged over 1 gram		
Uncontrolled Exposure/General Population																						

FCC ID: BCGA2232		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C1912170055-01-R1.BCG	Test Dates: 12/20/2019 – 02/05/2020	DUT Type: Tablet Device	Page 237 of 284

Table 10-36
LTE Band 2 Ant 4b Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (dB)	Scaling Factor	Reported SAR (dB)	Reported SAR (dB)	Plot #	
MHz	Ch.															(mW/kg)		(mW/kg)	(mW/kg)		
1850.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.49	-0.20	0	Ant 4b	DLX2V00NPQKX	QPSK	1	0	0 mm	back	1:1	0.818	1.002	0.820	0.347	0.348
1850.00	18900	Mid	LTE Band 2 (PCS)	20	13.50	13.29	-0.21	0	Ant 4b	DLX2V00NPQKX	QPSK	1	50	0 mm	back	1:1	0.882	1.050	0.926	0.370	0.389
1900.00	19100	High	LTE Band 2 (PCS)	20	13.50	13.13	-0.11	0	Ant 4b	DLX2V00NPQKX	QPSK	1	50	0 mm	back	1:1	0.920	1.089	1.002	0.362	0.394
1850.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.48	-0.20	0	Ant 4b	DLX2V00NPQKX	QPSK	50	0	0 mm	back	1:1	0.811	1.005	0.815	0.344	0.346
1850.00	18900	Mid	LTE Band 2 (PCS)	20	13.50	13.34	-0.21	0	Ant 4b	DLX2V00NPQKX	QPSK	50	50	0 mm	back	1:1	0.872	1.038	0.905	0.366	0.380
1900.00	19100	High	LTE Band 2 (PCS)	20	13.50	13.42	-0.21	0	Ant 4b	DLX2V00NPQKX	QPSK	50	50	0 mm	back	1:1	0.897	1.019	0.914	0.374	0.381
1900.00	19100	High	LTE Band 2 (PCS)	20	13.50	13.37	-0.19	0	Ant 4b	DLX2V00NPQKX	QPSK	100	0	0 mm	back	1:1	0.882	1.030	0.908	0.369	0.380
1900.00	19100	High	LTE Band 2 (PCS)	20	10.50	10.35	-0.03	0	Ant 4b	DLX2V00NPQKX	QPSK	1	50	0 mm	back	1:1	0.390	1.035	0.404	0.155	0.160
1900.00	19100	High	LTE Band 2 (PCS)	20	10.50	10.37	-0.02	0	Ant 4b	DLX2V00NPQKX	QPSK	50	50	0 mm	back	1:1	0.378	1.030	0.389	0.151	0.155
1850.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.49	-0.03	0	Ant 4b	DLX2V00NPQKX	QPSK	1	0	0 mm	top	1:1	0.508	1.002	0.509	0.198	0.198
1850.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.48	-0.02	0	Ant 4b	DLX2V00NPQKX	QPSK	50	0	0 mm	top	1:1	0.519	1.005	0.522	0.204	0.205
1850.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.49	-0.19	0	Ant 4b	DLX2V00NPQKX	QPSK	1	0	0 mm	bottom	1:1	0.000	1.002	0.000	0.000	0.000
1850.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.48	0.00	0	Ant 4b	DLX2V00NPQKX	QPSK	50	0	0 mm	bottom	1:1	0.000	1.005	0.000	0.000	0.000
1850.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.49	0.15	0	Ant 4b	DLX2V00NPQKX	QPSK	1	0	0 mm	right	1:1	0.004	1.002	0.004	0.001	0.001
1850.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.48	0.12	0	Ant 4b	DLX2V00NPQKX	QPSK	50	0	0 mm	right	1:1	0.004	1.005	0.004	0.001	0.001
1850.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.49	0.19	0	Ant 4b	DLX2V00NPQKX	QPSK	1	0	0 mm	left	1:1	0.016	1.002	0.016	0.007	0.007
1850.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.48	-0.21	0	Ant 4b	DLX2V00NPQKX	QPSK	50	0	0 mm	left	1:1	0.016	1.005	0.016	0.007	0.007
ANSI / IEEE C63.1 1992 - SAFETY LIMIT										Body											
Uncontrolled Exposure/General Population										1.6 W/kg (mW/kg)											
										averaged over 1 gram											

Table 10-37
LTE Band 25 Ant 2a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Ch. (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (dB)	Scaling Factor	Reported SAR (dB)	SAR Ch. (dB)	Reported SAR (dB)	Plot #	
MHz	Ch.															(mW/kg)	(mW/kg)	(mW/kg)				
1860.00	20140	Low	LTE Band 25 (PCS)	20	15.00	14.94	-0.01	0	Ant 2a	DLX2T00APSTG	QPSK	1	99	0 mm	back	1:1	1.080	1.014	1.095	0.504	0.511	A13
1852.50	20365	Mid	LTE Band 25 (PCS)	20	15.00	14.72	0.02	0	Ant 2a	DLX2T00APSTG	QPSK	1	99	0 mm	back	1:1	1.070	1.067	1.142	0.487	0.530	
1900.00	20680	High	LTE Band 25 (PCS)	20	15.00	14.96	-0.20	0	Ant 2a	DLX2T00APSTG	QPSK	1	50	0 mm	back	1:1	1.080	1.009	1.090	0.493	0.497	
1860.00	20140	Low	LTE Band 25 (PCS)	20	15.00	14.95	0.05	0	Ant 2a	DLX2T00APSTG	QPSK	50	50	0 mm	back	1:1	1.080	1.012	1.093	0.504	0.510	
1852.50	20365	Mid	LTE Band 25 (PCS)	20	15.00	14.89	0.05	0	Ant 2a	DLX2T00APSTG	QPSK	50	50	0 mm	back	1:1	1.070	1.035	1.107	0.491	0.508	
1900.00	20680	High	LTE Band 25 (PCS)	20	15.00	14.98	-0.12	0	Ant 2a	DLX2T00APSTG	QPSK	50	50	0 mm	back	1:1	1.140	1.005	1.146	0.514	0.517	
1900.00	20680	High	LTE Band 25 (PCS)	20	15.00	14.95	-0.10	0	Ant 2a	DLX2T00APSTG	QPSK	100	0	0 mm	back	1:1	1.140	1.012	1.154	0.512	0.518	
1900.00	20680	High	LTE Band 25 (PCS)	20	15.00	14.96	-0.20	0	Ant 2a	DLX2T00APSTG	QPSK	1	50	0 mm	top	1:1	0.010	1.009	0.010	0.004	0.004	
1900.00	20680	High	LTE Band 25 (PCS)	20	15.00	14.98	0.17	0	Ant 2a	DLX2T00APSTG	QPSK	50	50	0 mm	top	1:1	0.011	1.005	0.011	0.005	0.005	
1900.00	20680	High	LTE Band 25 (PCS)	20	15.00	14.96	-0.01	0	Ant 2a	DLX2T00APSTG	QPSK	1	90	0 mm	bottom	1:1	0.309	1.009	0.312	0.110	0.111	
1900.00	20680	High	LTE Band 25 (PCS)	20	15.00	14.98	-0.04	0	Ant 2a	DLX2T00APSTG	QPSK	50	50	0 mm	bottom	1:1	0.339	1.005	0.341	0.120	0.121	
1860.00	20140	Low	LTE Band 25 (PCS)	20	15.00	14.94	-0.01	0	Ant 2a	DLX2T00APSTG	QPSK	1	99	0 mm	right	1:1	0.823	1.014	0.835	0.325	0.330	
1852.50	20365	Mid	LTE Band 25 (PCS)	20	15.00	14.72	0.01	0	Ant 2a	DLX2T00APSTG	QPSK	1	99	0 mm	right	1:1	0.824	1.067	0.879	0.322	0.344	
1900.00	20680	High	LTE Band 25 (PCS)	20	15.00	14.96	0.02	0	Ant 2a	DLX2T00APSTG	QPSK	1	90	0 mm	right	1:1	0.848	1.009	0.856	0.331	0.334	
1850.00	20140	Low	LTE Band 25 (PCS)	20	15.00	14.95	0.00	0	Ant 2a	DLX2T00APSTG	QPSK	50	50	0 mm	right	1:1	0.801	1.012	0.811	0.313	0.319	
1852.50	20365	Mid	LTE Band 25 (PCS)	20	15.00	14.85	0.05	0	Ant 2a	DLX2T00APSTG	QPSK	50	50	0 mm	right	1:1	0.798	1.035	0.826	0.312	0.324	
1900.00	20680	High	LTE Band 25 (PCS)	20	15.00	14.98	-0.01	0	Ant 2a	DLX2T00APSTG	QPSK	50	50	0 mm	right	1:1	0.910	1.005	0.915	0.354	0.356	
1900.00	20680	High	LTE Band 25 (PCS)	20	15.00	14.95	-0.04	0	Ant 2a	DLX2T00APSTG	QPSK	100	0	0 mm	right	1:1	0.847	1.012	0.857	0.340	0.344	
1900.00	20680	High	LTE Band 25 (PCS)	20	15.00	14.96	0.20	0	Ant 2a	DLX2T00APSTG	QPSK	1	50	0 mm	left	1:1	0.000	1.009	0.000	0.000	0.000	
1900.00	20680	High	LTE Band 25 (PCS)	20	15.00	14.98	0.20	0	Ant 2a	DLX2T00APSTG	QPSK	50	50	0 mm	left	1:1	0.000	1.005	0.000	0.000	0.000	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/kg)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

Table 10-38
LTE Band 25 Ant 2b Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Plot #
MHz	Ch.															SAR (W/kg)	Reported SAR (W/kg)	Reported SAR (W/kg)			
1850.00	20140	Low	LTE Band 25 (PCS)	20	14.00	13.51	-0.09	0	Ant 2b	DLX2VL3PQKX	QPSK	1	99	0 mm	back	1:1	0.854	1.119	1.000	0.360	0.403
1852.50	20365	Mid	LTE Band 25 (PCS)	20	14.00	13.52	-0.05	0	Ant 2b	DLX2VL3PQKX	QPSK	1	99	0 mm	back	1:1	0.963	1.117	1.076	0.384	0.429
1900.00	20680	High	LTE Band 25 (PCS)	20	14.00	13.78	-0.03	0	Ant 2b	DLX2VL3PQKX	QPSK	1	50	0 mm	back	1:1	0.977	1.057	1.033	0.391	0.413
1850.00	20140	Low	LTE Band 25 (PCS)	20	14.00	13.49	0.03	0	Ant 2b	DLX2VL3PQKX	QPSK	50	50	0 mm	back	1:1	0.997	1.125	1.054	0.374	0.421
1852.50	20365	Mid	LTE Band 25 (PCS)	20	14.00	13.52	-0.03	0	Ant 2b	DLX2VL3PQKX	QPSK	50	50	0 mm	back	1:1	0.940	1.117	1.050	0.374	0.418
1900.00	20680	High	LTE Band 25 (PCS)	20	14.00	13.84	0.01	0	Ant 2b	DLX2VL3PQKX	QPSK	50	50	0 mm	back	1:1	1.020	1.038	1.059	0.407	0.422
1900.00	20680	High	LTE Band 25 (PCS)	20	14.00	13.75	0.00	0	Ant 2b	DLX2VL3PQKX	QPSK	100	0	0 mm	back	1:1	0.989	1.059	1.047	0.396	0.419
1900.00	20680	High	LTE Band 25 (PCS)	20	14.00	13.78	0.21	0	Ant 2b	DLX2VL3PQKX	QPSK	1	50	0 mm	top	1:1	0.000	1.057	0.000	0.000	0.000
1900.00	20680	High	LTE Band 25 (PCS)	20	14.00	13.84	0.21	0	Ant 2b	DLX2VL3PQKX	QPSK	50	50	0 mm	top	1:1	0.000	1.038	0.000	0.000	0.000
1900.00	20680	High	LTE Band 25 (PCS)	20	14.00	13.76	-0.12	0	Ant 2b	DLX2VL3PQKX	QPSK	1	50	0 mm	bottom	1:1	0.633	1.057	0.669	0.249	0.263
1900.00	20680	High	LTE Band 25 (PCS)	20	14.00	13.84	-0.09	0	Ant 2b	DLX2VL3PQKX	QPSK	50	50	0 mm	bottom	1:1	0.672	1.038	0.698	0.263	0.273
1900.00	20680	High	LTE Band 25 (PCS)	20	14.00	13.76	0.21	0	Ant 2b	DLX2VL3PQKX	QPSK	1	50	0 mm	right	1:1	0.020	1.057	0.021	0.008	0.008
1900.00	20680	High	LTE Band 25 (PCS)	20	14.00	13.84	0.20	0	Ant 2b	DLX2VL3PQKX	QPSK	50	50	0 mm	right	1:1	0.021	1.038	0.022	0.009	0.009
1900.00	20680	High	LTE Band 25 (PCS)	20	14.00	13.76	-0.21	0	Ant 2b	DLX2VL3PQKX	QPSK	1	50	0 mm	left	1:1	0.005	1.057	0.005	0.002	0.002
1900.00	20680	High	LTE Band 25 (PCS)	20	14.00	13.84	0.21	0	Ant 2b	DLX2VL3PQKX	QPSK	50	50	0 mm	left	1:1	0.008	1.038	0.008	0.002	0.002
ANSI / IEEE CORE 148.2 - SAFETY LIMIT																	Body				
Spatial Peak																	1.6 W/kg (mW/kg)				
Uncontrolled Exposure/General Population averaged over 1 gram																					

LTE Band 25 Ant 4a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power D/B [dB]	MPE1 [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Scaling Factor	Reported SAR [W/kg]	SAR [W/kg]	Reported SAR [W/kg]	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1800.00	26340	Low	LTE Band 25 [PCS]	20	14.80	14.63	-0.14	0	Ant A	DLXVZL9JPGKJ	QPSK	1	0	0 mm	back	1:1	1.020	1.040	1.061	0.492	0.512
1802.50	26350	Low	LTE Band 25 [PCS]	20	14.80	14.53	-0.12	0	Ant A	DLXVZL9JPGKJ	QPSK	1	99	0 mm	back	1:1	1.000	1.064	1.064	0.478	0.508
1805.00	26360	High	LTE Band 25 [PCS]	20	14.80	14.66	-0.20	0	Ant A	DLXVZL9JPGKJ	QPSK	1	99	0 mm	back	1:1	0.942	1.033	0.973	0.487	0.472
1806.00	26340	Low	LTE Band 25 [PCS]	20	14.80	14.33	-0.13	0	Ant A	DLXVZL9JPGKJ	QPSK	50	0	0 mm	back	1:1	1.000	1.114	1.114	0.480	0.506
1802.50	26350	Mid	LTE Band 25 [PCS]	20	14.80	14.30	0.17	0	Ant A	DLXVZL9JPGKJ	QPSK	50	0	0 mm	back	1:1	1.030	1.122	1.156	0.488	0.548
1805.00	26360	High	LTE Band 25 [PCS]	20	14.80	14.47	-0.16	0	Ant A	DLXVZL9JPGKJ	QPSK	50	0	0 mm	back	1:1	0.977	1.079	1.054	0.473	0.510
1805.00	26360	High	LTE Band 25 [PCS]	20	14.80	14.34	-0.20	0	Ant A	DLXVZL9JPGKJ	QPSK	100	0	0 mm	back	1:1	0.947	1.112	1.063	0.467	0.508
1805.00	26360	High	LTE Band 25 [PCS]	20	14.80	14.66	-0.01	0	Ant A	DLXVZL9JPGKJ	QPSK	1	99	0 mm	top	1:1	0.270	1.033	0.279	0.999	0.102
1805.00	26360	High	LTE Band 25 [PCS]	20	14.80	14.47	0.00	0	Ant A	DLXVZL9JPGKJ	QPSK	50	0	0 mm	top	1:1	0.386	1.079	0.389	0.996	0.106
1805.00	26360	High	LTE Band 25 [PCS]	20	14.80	14.66	0.09	0	Ant A	DLXVZL9JPGKJ	QPSK	1	99	0 mm	bottom	1:1	0.012	1.033	0.012	0.004	0.004
1805.00	26360	High	LTE Band 25 [PCS]	20	14.80	14.47	0.10	0	Ant A	DLXVZL9JPGKJ	QPSK	50	0	0 mm	bottom	1:1	0.012	1.079	0.013	0.005	0.005
1805.00	26360	High	LTE Band 25 [PCS]	20	14.80	14.66	0.00	0	Ant A	DLXVZL9JPGKJ	QPSK	1	99	0 mm	right	1:1	0.000	1.033	0.000	0.000	0.000
1805.00	26360	High	LTE Band 25 [PCS]	20	14.80	14.47	0.00	0	Ant A	DLXVZL9JPGKJ	QPSK	50	0	0 mm	right	1:1	0.000	1.079	0.000	0.000	0.000
1805.00	26360	High	LTE Band 25 [PCS]	20	14.80	14.66	-0.01	0	Ant A	DLXVZL9JPGKJ	QPSK	1	99	0 mm	left	1:1	0.762	1.033	0.787	0.307	0.317
1806.00	26340	Low	LTE Band 25 [PCS]	20	14.80	14.33	-0.02	0	Ant A	DLXVZL9JPGKJ	QPSK	50	0	0 mm	left	1:1	0.741	1.114	0.825	0.302	0.336
1805.00	26365	Mid	LTE Band 25 [PCS]	20	14.80	14.30	-0.20	0	Ant A	DLXVZL9JPGKJ	QPSK	50	0	0 mm	left	1:1	0.710	1.122	0.779	0.296	0.331
1805.00	26360	High	LTE Band 25 [PCS]	20	14.80	14.47	0.01	0	Ant A	DLXVZL9JPGKJ	QPSK	50	0	0 mm	left	1:1	0.717	1.079	0.774	0.303	0.327
1805.00	26360	High	LTE Band 25 [PCS]	20	14.80	14.34	0.20	0	Ant A	DLXVZL9JPGKJ	QPSK	50	0	0 mm	left	1:1	0.711	1.112	0.791	0.296	0.328
ANSI / IEEE C62.1.1-1992 SAFETY LIMIT																Body averaged over 1 gram					
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)					

LTE Band 25 Ant 4b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode		Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power D/B [dB]	MFR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [dB] (W/kg)	Scaling Factor	Reported SAR [dB] (W/kg)	SAR [dB] (W/kg)	Reported SAR [dB] (W/kg)	Plot #
MHz	Ch.																					
1800.00	20340	Low	LTE Band 25 (PCS)	20	13.50	13.27	-0.09	0	Ant A	DLX02V08PQKQ	QPSK	1	0	0 mm	back	1:1	0.799	1.054	0.842	0.323	0.340	
1800.00	20365	Med	LTE Band 25 (PCS)	20	13.50	13.34	-0.19	0	Ant A	DLX02V08PQKQ	QPSK	1	50	0 mm	back	1:1	0.967	1.038	1.004	0.382	0.397	
1800.00	20360	High	LTE Band 25 (PCS)	20	13.50	13.42	-0.30	0	Ant A	DLX02V08PQKQ	QPSK	1	50	0 mm	back	1:1	0.955	1.019	0.973	0.377	0.384	
1800.00	20340	Low	LTE Band 25 (PCS)	20	13.50	13.49	-0.19	0	Ant A	DLX02V08PQKQ	QPSK	50	0	0 mm	back	1:1	0.626	1.002	0.827	0.329	0.330	
1802.50	20305	Med	LTE Band 25 (PCS)	20	13.50	13.45	-0.21	0	Ant A	DLX02V08PQKQ	QPSK	50	25	0 mm	back	1:1	0.973	1.012	0.985	0.385	0.388	
1900.00	20390	High	LTE Band 25 (PCS)	20	13.50	13.50	-0.20	0	Ant A	DLX02V08PQKQ	QPSK	50	0	0 mm	back	1:1	0.949	1.000	0.949	0.374	0.374	
1900.00	20390	High	LTE Band 25 (PCS)	20	13.50	13.41	-0.30	0	Ant A	DLX02V08PQKQ	QPSK	100	0	0 mm	back	1:1	0.967	1.021	0.967	0.377	0.385	
1900.00	20390	High	LTE Band 25 (PCS)	20	13.50	13.42	-0.04	0	Ant A	DLX02V08PQKQ	QPSK	1	50	0 mm	top	1:1	0.618	1.019	0.630	0.246	0.245	
1900.00	20390	High	LTE Band 25 (PCS)	20	13.50	13.50	-0.05	0	Ant A	DLX02V08PQKQ	QPSK	50	0	0 mm	top	1:1	0.619	1.000	0.619	0.246	0.246	
1900.00	20390	High	LTE Band 25 (PCS)	20	13.50	13.42	-0.16	0	Ant A	DLX02V08PQKQ	QPSK	1	50	0 mm	bottom	1:1	0.001	1.019	0.001	0.000	0.000	
1900.00	20390	High	LTE Band 25 (PCS)	20	13.50	13.50	0.00	0	Ant A	DLX02V08PQKQ	QPSK	50	0	0 mm	bottom	1:1	0.000	1.000	0.000	0.000	0.000	
1900.00	20390	High	LTE Band 25 (PCS)	20	13.50	13.42	0.21	0	Ant A	DLX02V08PQKQ	QPSK	1	50	0 mm	right	1:1	0.006	1.019	0.006	0.002	0.002	
1900.00	20390	High	LTE Band 25 (PCS)	20	13.50	13.50	0.30	0	Ant A	DLX02V08PQKQ	QPSK	50	0	0 mm	right	1:1	0.007	1.000	0.007	0.002	0.002	
1905.00	20390	High	LTE Band 25 (PCS)	20	13.50	13.42	0.10	0	Ant A	DLX02V08PQKQ	QPSK	1	50	0 mm	left	1:1	0.020	1.019	0.020	0.009	0.009	
1905.00	20390	High	LTE Band 25 (PCS)	20	13.50	13.50	0.20	0	Ant A	DLX02V08PQKQ	QPSK	50	0	0 mm	left	1:1	0.018	1.000	0.018	0.008	0.008	
ANSI / IEEE C63.1982 - SAFETY LIMIT																	Body 1.6 W/kg (mW/g) averaged over 1 gram					
Uncontrolled Exposure/General Population																						

LTE Band 30 Ant 2a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Spk (dBm)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (dB)	Reported SAR (dB)	Plot #
MHz	Ch.																				
2310.00	27710	Md	LTE Band 30	10	14.00	13.24	-0.01	0	Ant 2a	DLXZT002P5G	QPSK	1	25	0 mm	back	1:1	0.775	1.191	0.923	0.348	0.414
2310.00	27710	Md	LTE Band 30	10	14.00	13.48	-0.00	0	Ant 2a	DLXZT002P5G	QPSK	25	12	0 mm	back	1:1	0.740	1.127	0.834	0.330	0.372
2310.00	27710	Md	LTE Band 30	10	14.00	13.23	-0.01	0	Ant 2a	DLXZT002P5G	QPSK	50	0	0 mm	back	1:1	0.741	1.194	0.885	0.331	0.395
2310.00	27710	Md	LTE Band 30	10	11.00	10.01	0.01	0	Ant 2a	DLXZT002P5G	QPSK	1	25	0 mm	back	1:1	0.341	1.256	0.428	0.158	0.198
2310.00	27710	Md	LTE Band 30	10	11.00	9.94	-0.01	0	Ant 2a	DLXZT002P5G	QPSK	25	25	0 mm	back	1:1	0.332	1.276	0.424	0.152	0.194
2310.00	27710	Md	LTE Band 30	10	14.00	13.24	0.21	0	Ant 2a	DLXZT002P5G	QPSK	1	25	0 mm	top	1:1	0.019	1.191	0.023	0.009	0.011
2310.00	27710	Md	LTE Band 30	10	14.00	13.48	-0.02	0	Ant 2a	DLXZT002P5G	QPSK	25	12	0 mm	top	1:1	0.019	1.127	0.023	0.009	0.020
2310.00	27710	Md	LTE Band 30	10	14.00	13.24	-0.02	0	Ant 2a	DLXZT002P5G	QPSK	1	25	0 mm	bottom	1:1	0.360	1.191	0.429	0.117	0.139
2310.00	27710	Md	LTE Band 30	10	14.00	13.48	0.00	0	Ant 2a	DLXZT002P5G	QPSK	25	12	0 mm	bottom	1:1	0.363	1.127	0.398	0.114	0.128
2310.00	27710	Md	LTE Band 30	10	14.00	13.24	0.01	0	Ant 2a	DLXZT002P5G	QPSK	1	25	0 mm	right	1:1	0.429	1.191	0.511	0.156	0.188
2310.00	27710	Md	LTE Band 30	10	14.00	13.48	0.02	0	Ant 2a	DLXZT002P5G	QPSK	25	12	0 mm	right	1:1	0.425	1.127	0.479	0.156	0.176
2310.00	27710	Md	LTE Band 30	10	14.00	13.24	0.21	0	Ant 2a	DLXZT002P5G	QPSK	1	25	0 mm	left	1:1	0.004	1.191	0.005	0.002	0.002
2310.00	27710	Md	LTE Band 30	10	14.00	13.48	0.21	0	Ant 2a	DLXZT002P5G	QPSK	25	12	0 mm	left	1:1	0.004	1.127	0.005	0.002	0.002
ANSI / IEEE C63.1-1992 - SAFETY LIMIT																		Body 1.6 W/kg (mW/g) averaged over 1 gram			
Spatial Peak																					
Uncontrolled Exposure/General Population																					

FCC ID: BCGA2232	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C1912170055-01-R1.BCG	Test Dates: 12/20/2019 – 02/05/2020	DUT Type: Tablet Device	Page 239 of 284

Table 10-42
LTE Band 30 Ant 2b Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Scaling Factor	Reported SAR [W/kg]	SAR [dBm]	Reported SAR [dBm]	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)		
2310.00	27710	M4d	LTE Band 30	10	13.10	12.57	-0.04	0	Ant 2b	DLX2R017P53F	QPSK	1	25	0 mm	back	1:1	0.875	1.130	0.989	0.328	0.371
2310.00	27710	M4d	LTE Band 30	10	13.10	12.60	-0.05	0	Ant 2b	DLX2R017P53F	QPSK	25	12	0 mm	back	1:1	0.877	1.122	0.984	0.328	0.368
2310.00	27710	M4d	LTE Band 30	10	13.10	12.56	-0.04	0	Ant 2b	DLX2R017P53F	QPSK	50	0	0 mm	back	1:1	0.920	1.132	1.041	0.336	0.380
2310.00	27710	M4d	LTE Band 30	10	10.10	10.06	0.11	0	Ant 2b	DLX2R017P53F	QPSK	1	25	0 mm	back	1:1	0.466	1.009	0.470	0.175	0.177
2310.00	27710	M4d	LTE Band 30	10	10.10	10.04	0.00	0	Ant 2b	DLX2R017P53F	QPSK	25	0	0 mm	back	1:1	0.909	1.014	0.916	0.185	0.188
2310.00	27710	M4d	LTE Band 30	10	13.10	12.57	0.21	0	Ant 2b	DLX2R017P53F	QPSK	1	25	0 mm	top	1:1	0.004	1.130	0.005	0.002	0.002
2310.00	27710	M4d	LTE Band 30	10	13.10	12.60	0.20	0	Ant 2b	DLX2R017P53F	QPSK	25	12	0 mm	top	1:1	0.004	1.122	0.004	0.002	0.002
2310.00	27710	M4d	LTE Band 30	10	13.10	12.57	-0.02	0	Ant 2b	DLX2R017P53F	QPSK	1	25	0 mm	bottom	1:1	0.400	1.130	0.462	0.147	0.166
2310.00	27710	M4d	LTE Band 30	10	13.10	12.60	0.01	0	Ant 2b	DLX2R017P53F	QPSK	25	12	0 mm	bottom	1:1	0.405	1.122	0.454	0.148	0.166
2310.00	27710	M4d	LTE Band 30	10	13.10	12.57	0.06	0	Ant 2b	DLX2R017P53F	QPSK	1	25	0 mm	right	1:1	0.034	1.130	0.038	0.016	0.018
2310.00	27710	M4d	LTE Band 30	10	13.10	12.60	0.14	0	Ant 2b	DLX2R017P53F	QPSK	25	12	0 mm	right	1:1	0.034	1.122	0.038	0.016	0.018
2310.00	27710	M4d	LTE Band 30	10	13.10	12.57	0.14	0	Ant 2b	DLX2R017P53F	QPSK	1	25	0 mm	left	1:1	0.025	1.130	0.028	0.011	0.012
2310.00	27710	M4d	LTE Band 30	10	13.10	12.60	0.20	0	Ant 2b	DLX2R017P53F	QPSK	25	12	0 mm	left	1:1	0.024	1.122	0.027	0.011	0.012
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 10-43
LTE Band 30 Ant 4a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
2310.00	27710	M4d	LTE Band 30	10	13.10	13.35	0.20	0	Ant 4a	DLX2T00P53TG	QPSK	1	0	0 mm	back	1:1	0.806	1.035	0.834	0.367	0.380	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.12	-0.06	0	Ant 4a	DLX2T00P53TG	QPSK	25	0	0 mm	back	1:1	0.826	1.091	0.901	0.378	0.412	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.11	0.02	0	Ant 4a	DLX2T00P53TG	QPSK	50	0	0 mm	back	1:1	0.805	1.094	0.881	0.368	0.403	
2310.00	27710	M4d	LTE Band 30	10	10.10	10.32	-0.20	0	Ant 4a	DLX2T00P53TG	QPSK	1	25	0 mm	back	1:1	0.417	1.042	0.435	0.191	0.199	
2310.00	27710	M4d	LTE Band 30	10	10.10	10.50	-0.08	0	Ant 4a	DLX2T00P53TG	QPSK	25	25	0 mm	back	1:1	0.442	1.000	0.442	0.199	0.199	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.35	-0.07	0	Ant 4a	DLX2T00P53TG	QPSK	1	0	0 mm	top	1:1	0.314	1.035	0.325	0.104	0.108	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.12	0.07	0	Ant 4a	DLX2T00P53TG	QPSK	25	0	0 mm	top	1:1	0.316	1.091	0.345	0.105	0.115	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.35	0.20	0	Ant 4a	DLX2T00P53TG	QPSK	1	0	0 mm	bottom	1:1	0.020	1.035	0.021	0.010	0.010	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.12	-0.06	0	Ant 4a	DLX2T00P53TG	QPSK	25	0	0 mm	bottom	1:1	0.021	1.091	0.023	0.010	0.011	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.35	0.20	0	Ant 4a	DLX2T00P53TG	QPSK	1	0	0 mm	right	1:1	0.002	1.035	0.002	0.001	0.001	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.12	-0.20	0	Ant 4a	DLX2T00P53TG	QPSK	25	0	0 mm	right	1:1	0.003	1.091	0.003	0.002	0.002	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.35	0.01	0	Ant 4a	DLX2T00P53TG	QPSK	1	0	0 mm	left	1:1	0.477	1.035	0.494	0.183	0.189	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.12	0.05	0	Ant 4a	DLX2T00P53TG	QPSK	25	0	0 mm	left	1:1	0.492	1.091	0.537	0.188	0.205	
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 10-44
LTE Band 30 Ant 4b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Scaling Factor	Reported SAR [W/kg]	SAR (20g) [W/kg]	Reported SAR [W/kg]	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
2310.00	27710	M4d	LTE Band 30	10	13.10	13.32	-0.02	0	Ant 4b	DLX2T00P53TG	QPSK	1	0	0 mm	back	1:1	0.944	1.042	0.984	0.360	0.375	Alt4
2310.00	27710	M4d	LTE Band 30	10	13.10	13.25	0.02	0	Ant 4b	DLX2T00P53TG	QPSK	25	0	0 mm	back	1:1	0.967	1.059	1.024	0.366	0.388	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.24	0.01	0	Ant 4b	DLX2T00P53TG	QPSK	50	0	0 mm	back	1:1	1.020	1.062	1.083	0.373	0.396	
2310.00	27710	M4d	LTE Band 30	10	10.10	10.23	-0.12	0	Ant 4b	DLX2T00P53TG	QPSK	1	25	0 mm	back	1:1	0.561	1.064	0.597	0.206	0.219	
2310.00	27710	M4d	LTE Band 30	10	10.10	10.28	0.01	0	Ant 4b	DLX2T00P53TG	QPSK	25	25	0 mm	back	1:1	0.562	1.052	0.591	0.208	0.219	Alt4
2310.00	27710	M4d	LTE Band 30	10	13.10	13.32	0.00	0	Ant 4b	DLX2T00P53TG	QPSK	1	0	0 mm	top	1:1	0.600	1.042	0.625	0.221	0.230	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.25	0.00	0	Ant 4b	DLX2T00P53TG	QPSK	25	0	0 mm	top	1:1	0.597	1.059	0.632	0.219	0.232	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.32	0.21	0	Ant 4b	DLX2T00P53TG	QPSK	1	0	0 mm	bottom	1:1	0.005	1.042	0.005	0.003	0.003	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.25	0.14	0	Ant 4b	DLX2T00P53TG	QPSK	25	0	0 mm	bottom	1:1	0.005	1.059	0.005	0.003	0.003	Alt4
2310.00	27710	M4d	LTE Band 30	10	13.10	13.32	0.21	0	Ant 4b	DLX2T00P53TG	QPSK	1	0	0 mm	right	1:1	0.023	1.042	0.024	0.011	0.011	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.25	0.20	0	Ant 4b	DLX2T00P53TG	QPSK	25	0	0 mm	right	1:1	0.023	1.059	0.024	0.011	0.012	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.32	0.11	0	Ant 4b	DLX2T00P53TG	QPSK	1	0	0 mm	left	1:1	0.044	1.042	0.046	0.019	0.020	
2310.00	27710	M4d	LTE Band 30	10	13.10	13.25	-0.14	0	Ant 4b	DLX2T00P53TG	QPSK	25	0	0 mm	left	1:1	0.043	1.059	0.046	0.019	0.020	Alt4
2310.00	27710	M4d	LTE Band 30	10	13.10	13.24	-0.20	0	Ant 4b	DLX2T00P53TG	QPSK	50	0	0 mm	back	1:1	0.975	1.062	1.035	0.370	0.393	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g) averaged over 1 gram												

Note: Blue entry represents variability measurement.

FCC ID: BCGA2232			SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C1912170055-01-R1.BCG	Test Dates: 12/20/2019 – 02/05/2020	DUT Type: Tablet Device		Page 240 of 284	

Table 10-45
LTE Band 7 Ant 2a Body SAR

MEASUREMENT RESULTS																								
# CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Spectral Density [dBm/100kHz]	MFR [MHz]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (Sig) [W/kg]	Scaling Factor	Reported SAR (Sig) [W/kg]	SAR (Sig) [W/kg]	Reported SAR (Sig) [W/kg]	Plot #	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.10	-0.02	0	Ant 2a	DLXQV6BPQKX	QPSK	1	0	0 mm	back	1.1	0.844	1.000	0.844	0.363	0.363		
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	14.10	-0.06	0	Ant 2a	DLXQV6BPQKX	QPSK	1	0	0 mm	back	1.1	0.865	1.000	0.870	0.369	0.370		
1 CC Uplink	NA	2560.00	21350	High	LTE Band 7	20	14.10	-0.01	0	Ant 2a	DLXQV6BPQKX	QPSK	1	90	0 mm	back	1.1	0.869	1.004	0.841	0.364	0.395		
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.10	-0.03	0	Ant 2a	DLXQV6BPQKX	QPSK	50	0	0 mm	back	1.1	0.761	1.023	0.799	0.324	0.342		
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	14.10	-0.01	0	Ant 2a	DLXQV6BPQKX	QPSK	50	0	0 mm	back	1.1	0.890	1.007	0.950	0.376	0.403		
1 CC Uplink	NA	2560.00	21350	High	LTE Band 7	20	14.10	-0.02	0	Ant 2a	DLXQV6BPQKX	QPSK	50	0	0 mm	back	1.1	0.835	1.050	0.877	0.362	0.370		
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.10	-0.02	0	Ant 2a	DLXQV6BPQKX	QPSK	100	0	0 mm	back	1.1	0.824	1.026	0.948	0.393	0.403		
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	11.10	-0.10	-0.20	0	Ant 2a	DLXQV6BPQKX	QPSK	1	0	0 mm	back	1.1	0.406	1.014	0.422	0.176	0.178	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	11.10	-0.09	-0.19	0	Ant 2a	DLXQV6BPQKX	QPSK	50	0	0 mm	back	1.1	0.410	1.050	0.431	0.178	0.187	
2 CC Uplink	PCC	2535.00	21300	Mid	LTE Band 7	20							50	0		back	1.1	0.880	1.006	0.964	0.375	0.411		
2 CC Uplink	SCC	2535.20	20902	Mid	LTE Band 7	20	14.10	-0.02	0	Ant 2a	DLXQV6BPQKX	QPSK	50	50		back	1.1	0.880	1.006	0.964	0.375	0.411		
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.10	-0.01	0	Ant 2a	DLXQV6BPQKX	QPSK	1	0	0 mm	top	1.1	0.021	1.000	0.021	0.007	0.007		
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.10	-0.02	0	Ant 2a	DLXQV6BPQKX	QPSK	50	0	0 mm	top	1.1	0.022	1.023	0.023	0.008	0.008		
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.10	-0.13	0.00	0	Ant 2a	DLXQV6BPQKX	QPSK	1	0	0 mm	bottom	1.1	0.531	1.000	0.531	0.160	0.160	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.10	-0.03	0	Ant 2a	DLXQV6BPQKX	QPSK	50	0	0 mm	bottom	1.1	0.546	1.023	0.559	0.164	0.168		
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.10	-0.10	0.07	0	Ant 2a	DLXQV6BPQKX	QPSK	1	0	0 mm	right	1.1	0.425	1.000	0.426	0.147	0.147	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.10	-0.05	0	Ant 2a	DLXQV6BPQKX	QPSK	50	0	0 mm	right	1.1	0.457	1.023	0.488	0.158	0.162		
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.10	-0.10	-0.10	0	Ant 2a	DLXQV6BPQKX	QPSK	1	0	0 mm	left	1.1	0.002	1.000	0.002	0.000	0.000	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.10	-0.10	0.20	0	Ant 2a	DLXQV6BPQKX	QPSK	50	0	0 mm	left	1.1	0.001	1.023	0.001	0.000	0.000	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram														

Table 10-46
LTE Band 7 Ant 2b Body SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Spectral Density [dBm/100kHz]	MFR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (Sig) [W/kg]	Scaling Factor	Reported SAR (Sig) [W/kg]	SAR (Sig) [W/kg]	Reported SAR (Sig) [W/kg]	Plot #
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	11.80	-11.60	-0.02	Ant 2b	DLXCT700P57G	QPSK	1	0	0 mm	back	1.1	0.994	1.047	1.041	0.349	0.365	
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	11.80	-11.63	-0.00	Ant 2b	DLXCT700P57G	QPSK	1	0	0 mm	back	1.1	0.990	1.040	1.030	0.344	0.358	
1 CC Uplink	NA	2560.00	21350	High	LTE Band 7	20	11.80	-11.40	-0.04	Ant 2b	DLXCT700P57G	QPSK	1	90	0 mm	back	1.1	0.893	1.096	0.979	0.311	0.341	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	11.80	-11.44	-0.08	Ant 2b	DLXCT700P57G	QPSK	50	0	0 mm	back	1.1	0.979	1.086	1.063	0.344	0.374	
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	11.80	-11.40	-0.01	Ant 2b	DLXCT700P57G	QPSK	50	0	0 mm	back	1.1	0.995	1.084	1.079	0.345	0.374	
1 CC Uplink	NA	2560.00	21350	High	LTE Band 7	20	11.80	-11.23	-0.01	Ant 2b	DLXCT700P57G	QPSK	50	0	0 mm	back	1.1	0.954	1.140	1.089	0.328	0.374	
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	11.80	-11.37	-0.02	Ant 2b	DLXCT700P57G	QPSK	100	0	0 mm	back	1.1	0.967	1.104	1.057	0.333	0.368	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	8.80	-8.90	-0.18	Ant 2b	DLXCT700P57G	QPSK	1	0	0 mm	back	1.1	0.544	1.000	0.544	0.194	0.194	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	8.80	-8.63	-0.20	Ant 2b	DLXCT700P57G	QPSK	50	0	0 mm	back	1.1	0.521	1.040	0.542	0.189	0.197	
2 CC Uplink	PCC	2560.00	21350	High	LTE Band 7	20	11.80	-11.14	-0.02	Ant 2b	DLXCT700P57G	QPSK	50	0	0 mm	back	1.1	0.960	1.154	1.117	0.343	0.399	
2 CC Uplink	SCC	2540.20	21152	High	LTE Band 7	20							50	0 mm	back	1.1	0.960	1.154	1.117	0.343	0.399		
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	11.80	-11.63	-0.00	Ant 2b	DLXCT700P57G	QPSK	1	0	0 mm	top	1.1	0.000	1.040	0.000	0.000	0.000	
1 CC Uplink	NA	2530.00	21350	High	LTE Band 7	20	11.80	-11.45	-0.00	Ant 2b	DLXCT700P57G	QPSK	50	0	0 mm	top	1.1	0.000	1.084	0.000	0.000	0.000	
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	11.80	-11.63	-0.04	Ant 2b	DLXCT700P57G	QPSK	1	0	0 mm	bottom	1.1	0.340	1.040	0.354	0.117	0.122	
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	11.80	-11.40	-0.02	Ant 2b	DLXCT700P57G	QPSK	50	0	0 mm	bottom	1.1	0.343	1.084	0.372	0.118	0.128	
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	11.80	-11.60	-0.13	Ant 2b	DLXCT700P57G	QPSK	1	0	0 mm	right	1.1	0.034	1.040	0.035	0.013	0.014	
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	11.80	-11.40	-0.08	Ant 2b	DLXCT700P57G	QPSK	50	0	0 mm	right	1.1	0.034	1.084	0.037	0.013	0.014	
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	11.80	-11.63	-0.14	Ant 2b	DLXCT700P57G	QPSK	1	0	0 mm	left	1.1	0.022	1.040	0.023	0.008	0.008	
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	11.80	-11.40	-0.21	Ant 2b	DLXCT700P57G	QPSK	50	0	0 mm	left	1.1	0.024	1.084	0.026	0.009	0.010	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram													

Table 10-47
LTE Band 7 Ant 4a Body SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Spectral Density [dBm/100kHz]	MPE [dB]	Antenna Factor [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (Sig) [W/kg]	Scaling Factor	Reported SAR (Sig) [W/kg]	SAR (Sig) [W/kg]	Reported SAR (Sig) [W/kg]	Plot #
		MHz	Ch																				
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.60	-0.03	0	Ant 4a	DLXQV6BPQKX	QPSK	1	90	0 mm	back	1.1	1.020	1.000	1.020	0.432	0.432	
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	14.60	-0.01	0	Ant 4a	DLXQV6BPQKX	QPSK	1	90	0 mm	back	1.1	0.932	1.033	0.960	0.395	0.406	
1 CC Uplink	NA	2530.00	21350	High	LTE Band 7	20	14.60	-0.13	0	Ant 4a	DLXQV6BPQKX	QPSK	1	90	0 mm	back	1.1	0.831	1.054	0.884	0.349	0.371	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.60	-0.01	0	Ant 4a	DLXQV6BPQKX	QPSK	50	50	0 mm	back	1.1	1.010	1.016	1.026	0.428	0.435	
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	14.60	-0.03	0	Ant 4a	DLXQV6BPQKX	QPSK	50	50	0 mm	back	1.1	0.924	1.054	0.980	0.389	0.414	
1 CC Uplink	NA	2530.00	21350	High	LTE Band 7	20	14.60	-0.04	0	Ant 4a	DLXQV6BPQKX	QPSK	50	50	0 mm	back	1.1	0.809	1.086	0.879	0.337	0.366	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.60	-0.05	0	Ant 4a	DLXQV6BPQKX	QPSK	100	0	0 mm	back	1.1	0.951	1.035	0.984	0.405	0.419	
1 CC Uplink	NA	2530.00	21300	Mid	LTE Band 7	20	11.60	-0.16	0.21	0	Ant 4a	DLXQV6BPQKX	QPSK	1	90	0 mm	back	1.1	0.544	1.009	0.549	0.220	0.232
1 CC Uplink	NA	2530.00	21350	Mid	LTE Band 7	20	11.60	-0.18	-0.20	0	Ant 4a	DLXQV6BPQKX	QPSK	50	50	0 mm	back	1.1	0.533	1.028	0.548	0.224	0.230
2 CC Uplink	POCC	2530.00	20950	Low	LTE Band 7	20	14.60	-0.01	0	Ant 4a	DLXQV6BPQKX	QPSK	50	50				1.030	1.042	1.073	0.437	0.455	
1 CC Uplink	SCC	2530.00	20508	Low	LTE Band 7	20	14.60	-0.02	0	Ant 4a	DLXQV6BPQKX	QPSK	50	0	2 mm	back	1.1	1.030	1.042	1.073	0.437	0.455	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.60	-0.12	0	Ant 4a	DLXQV6BPQKX	QPSK	1	90	0 mm	top	1.1	0.509	1.000	0.509	0.193	0.193	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.60	-0.07	0	Ant 4a	DLXQV6BPQKX	QPSK	50	0	0 mm	top	1.1	0.508	1.016	0.516	0.183	0.185	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.60	-0.12	0	Ant 4a	DLXQV6BPQKX	QPSK	1	90	0 mm	bottom	1.1	0.517	1.000	0.517	0.057	0.057	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.60	-0.13	0.14	0	Ant 4a	DLXQV6BPQKX	QPSK	50	50	0 mm	bottom	1.1	0.018	1.016	0.018	0.007	0.007
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.60	-0.05	0	Ant 4a	DLXQV6BPQKX	QPSK	1	90	0 mm	right	1.1	0.001	1.000	0.001	0.000	0.000	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.60	-0.13	0.12	0	Ant 4a	DLXQV6BPQKX	QPSK	50	50	0 mm	right	1.1	0.001	1.016	0.001	0.000	0.000
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.60	-0.06	0	Ant 4a	DLXQV6BPQKX	QPSK	1	90	0 mm	left	1.1	0.572	1.000	0.572	0.191	0.191	
1 CC Uplink	NA	2530.00	20950	Low	LTE Band 7	20	14.60	-0.13	0.08	0	Ant 4a	DLXQV6BPQKX	QPSK	50	50	0 mm	left	1.1	0.012	1.016	0.011	0.007	0.008
ANSI / IEEE C63.1 1992 - SAFETY LIMIT												Body											
Spatial Peak												1.6 W/kg (mW/g)											
Uncontrolled Exposure (General Population)												ANSI / IEEE C63.1 1992 - SAFETY LIMIT											

Table 10-48
LTE Band 7 Ant 4b Body SAR

MEASUREMENT RESULTS																								
# CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Spectral Density [dBm/MHz]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (2g) [W/kg]	Scaling Factor	Reported SAR (2g) [W/kg]	SAR (2g) [W/kg]	Reported SAR (2g) [W/kg]	Plot #	
		Mhz	Ch																					
1 CC Uplink	N/A	2550.00	2095G	Low	LTE Band 7	20	12.50	12.44	-0.01	0	Ant 4b	DLXCT700P57G	QPSK	1	0	0 mm	back	1:1	1.030	1.034	1.044	0.368	0.373	
1 CC Uplink	N/A	2550.00	2130G	Mid	LTE Band 7	20	12.50	12.27	-0.08	0	Ant 4b	DLXCT700P57G	QPSK	1	99	0 mm	back	1:1	1.030	1.054	1.086	0.362	0.382	
1 CC Uplink	N/A	2550.00	2135G	High	LTE Band 7	20	12.50	12.32	-0.03	0	Ant 4b	DLXCT700P57G	QPSK	1	99	0 mm	back	1:1	1.040	1.042	1.084	0.359	0.374	
1 CC Uplink	N/A	2550.00	2095G	Low	LTE Band 7	20	12.50	12.22	-0.02	0	Ant 4b	DLXCT700P57G	QPSK	50	50	0 mm	back	1:1	1.040	1.067	1.110	0.367	0.392	
1 CC Uplink	N/A	2550.00	2130G	Mid	LTE Band 7	20	12.50	12.13	-0.02	0	Ant 4b	DLXCT700P57G	QPSK	50	50	0 mm	back	1:1	1.060	1.089	1.134	0.371	0.404	A15
1 CC Uplink	N/A	2550.00	2135G	High	LTE Band 7	20	12.50	12.21	-0.03	0	Ant 4b	DLXCT700P57G	QPSK	50	50	0 mm	back	1:1	1.010	1.069	1.080	0.349	0.373	
1 CC Uplink	N/A	2550.00	2095G	Low	LTE Band 7	20	12.50	12.21	-0.01	0	Ant 4b	DLXCT700P57G	QPSK	100	0	0 mm	back	1:1	1.020	1.069	1.090	0.360	0.385	
1 CC Uplink	N/A	2550.00	2135G	High	LTE Band 7	20	9.50	9.21	-0.02	0	Ant 4b	DLXCT700P57G	QPSK	1	50	0 mm	back	1:1	0.522	1.068	0.558	0.180	0.192	
1 CC Uplink	N/A	2550.00	2135G	High	LTE Band 7	20	9.50	9.30	-0.20	0	Ant 4b	DLXCT700P57G	QPSK	50	25	0 mm	back	1:1	0.480	1.047	0.503	0.199	0.177	
2 CC Uplink	PCC	2535.00	2130G	Mid	LTE Band 7	20							50	50										
2 CC Uplink	SCC	2554.00	2139G	Mid	LTE Band 7	20	12.50	12.10	-0.04	0	Ant 4b	DLXCT700P57G	QPSK	50	50	0 mm	back	1:1	1.020	1.056	1.118	0.370	0.406	
1 CC Uplink	N/A	2550.00	2095G	Low	LTE Band 7	20	12.50	12.44	-0.06	0	Ant 4b	DLXCT700P57G	QPSK	1	0	0 mm	top	1:1	0.386	1.034	0.391	0.125	0.137	
1 CC Uplink	N/A	2550.00	2095G	Low	LTE Band 7	20	12.50	12.22	-0.02	0	Ant 4b	DLXCT700P57G	QPSK	50	50	0 mm	top	1:1	0.401	1.067	0.428	0.140	0.149	
1 CC Uplink	N/A	2550.00	2095G	Low	LTE Band 7	20	12.50	12.44	0.15	0	Ant 4b	DLXCT700P57G	QPSK	1	0	0 mm	bottom	1:1	0.002	1.034	0.002	0.000	0.000	
1 CC Uplink	N/A	2550.00	2095G	Low	LTE Band 7	20	12.50	12.22	-0.20	0	Ant 4b	DLXCT700P57G	QPSK	50	50	0 mm	bottom	1:1	0.002	1.067	0.002	0.000	0.000	
1 CC Uplink	N/A	2550.00	2095G	Low	LTE Band 7	20	12.50	12.44	0.09	0	Ant 4b	DLXCT700P57G	QPSK	1	0	0 mm	right	1:1	0.020	1.034	0.020	0.008	0.008	
1 CC Uplink	N/A	2550.00	2095G	Low	LTE Band 7	20	12.50	12.22	-0.03	0	Ant 4b	DLXCT700P57G	QPSK	50	50	0 mm	right	1:1	0.023	1.067	0.025	0.009	0.010	
1 CC Uplink	N/A	2550.00	2095G	Low	LTE Band 7	20	12.50	12.44	0.00	0	Ant 4b	DLXCT700P57G	QPSK	1	0	0 mm	left	1:1	0.049	1.034	0.050	0.019	0.019	
1 CC Uplink	N/A	2550.00	2095G	Low	LTE Band 7	20	12.50	12.22	0.12	0	Ant 4b	DLXCT700P57G	QPSK	50	50	0 mm	left	1:1	0.053	1.067	0.057	0.021	0.022	
ANSI / IEEE C63.1 1997 - SAFETY LIMIT												Body												
Spatial Peak												1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population												averaged over 1 gram												

Table 10-49
LTE Band 41 Ant 2a Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink 1 CC Uplink Power Class	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [dBm]	MPE [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [dB] (W/kg)	Scaling Factor	Reported SAR (2g) (W/kg)	SAR (2g) (W/kg)	Reported SAR (2g) (W/kg)	Plot #	
		Mhz	Ch.																					
1 CC Uplink - Power Class 3	N/A	2506.00	3975G	Low	LTE Band 41	20	16.40	16.28	-0.02	0	Ant 2a	DLXQVLPQKX	QPSK	1	99	0 mm	back	1:1.58	0.819	1.028	0.842	0.354	0.364	
1 CC Uplink - Power Class 3	N/A	2549.50	4018G	Low-Mid	LTE Band 41	20	16.40	16.30	-0.04	0	Ant 2a	DLXQVLPQKX	QPSK	1	0	0 mm	back	1:1.58	1.010	1.023	1.033	0.368	0.376	
1 CC Uplink - Power Class 3	N/A	2550.00	4050G	Mid	LTE Band 41	20	16.40	16.23	-0.02	0	Ant 2a	DLXQVLPQKX	QPSK	1	99	0 mm	back	1:1.58	0.686	1.040	0.713	0.286	0.297	
1 CC Uplink - Power Class 3	N/A	2636.50	4135G	Mid-High	LTE Band 41	20	16.40	16.10	-0.03	0	Ant 2a	DLXQVLPQKX	QPSK	1	0	0 mm	back	1:1.58	0.658	1.072	0.705	0.270	0.289	
1 CC Uplink - Power Class 3	N/A	2680.00	4148G	High	LTE Band 41	20	16.40	16.07	-0.02	0	Ant 2a	DLXQVLPQKX	QPSK	1	0	0 mm	back	1:1.58	0.588	1.079	0.634	0.258	0.257	
1 CC Uplink - Power Class 3	N/A	2506.00	3975G	Low	LTE Band 41	20	16.40	16.30	-0.02	0	Ant 2a	DLXQVLPQKX	QPSK	50	50	0 mm	back	1:1.58	0.801	1.023	0.819	0.364	0.352	
1 CC Uplink - Power Class 3	N/A	2549.50	4018G	Low-Mid	LTE Band 41	20	16.40	16.16	-0.03	0	Ant 2a	DLXQVLPQKX	QPSK	50	50	0 mm	back	1:1.58	0.698	1.057	0.549	0.281	0.403	
1 CC Uplink - Power Class 3	N/A	2550.00	4050G	Mid	LTE Band 41	20	16.40	16.06	-0.02	0	Ant 2a	DLXQVLPQKX	QPSK	50	50	0 mm	back	1:1.58	0.704	1.061	0.761	0.295	0.319	
1 CC Uplink - Power Class 3	N/A	2636.50	4135G	Mid-High	LTE Band 41	20	16.40	16.08	-0.01	0	Ant 2a	DLXQVLPQKX	QPSK	50	0	0 mm	back	1:1.58	0.631	1.076	0.679	0.259	0.279	
1 CC Uplink - Power Class 3	N/A	2680.00	4148G	High	LTE Band 41	20	16.40	16.10	-0.02	0	Ant 2a	DLXQVLPQKX	QPSK	50	50	0 mm	back	1:1.58	0.603	1.072	0.646	0.244	0.262	
1 CC Uplink - Power Class 3	N/A	2506.00	3975G	Low	LTE Band 41	20	16.40	16.18	-0.05	0	Ant 2a	DLXQVLPQKX	QPSK	100	0	0 mm	back	1:1.58	0.752	1.052	0.791	0.324	0.341	
1 CC Uplink - Power Class 3	N/A	2549.50	4018G	Low-Mid	LTE Band 41	20	16.40	16.04	-0.01	0	Ant 2a	DLXQVLPQKX	QPSK	1	0	0 mm	back	1:2.31	0.587	1.086	0.637	0.251	0.273	
2 CC Uplink - Power Class 3	PCC	2549.50	4018G	Low-Mid	LTE Band 41	20																		
2 CC Uplink - Power Class 3	SCC	2529.70	3988G	Low-Mid	LTE Band 41	20	16.40	15.58	-0.03	0	Ant 2a	DLXQVLPQKX	QPSK	1	0	0 mm	back	1:1.58	0.817	1.208	0.987	0.347	0.419	
2 CC Uplink - Power Class 3	PCC	2549.50	4018G	Low-Mid	LTE Band 41	20																		
2 CC Uplink - Power Class 3	SCC	2529.70	3988G	Low-Mid	LTE Band 41	20	16.40	15.77	-0.04	0	Ant 2a	DLXQVLPQKX	QPSK	1	99	0 mm	back	1:2.31	0.540	1.156	0.624	0.231	0.267	
1 CC Uplink - Power Class 3	N/A	2549.50	4018G	Low-Mid	LTE Band 41	20	16.40	16.30	-0.05	0	Ant 2a	DLXQVLPQKX	QPSK	1	0	0 mm	top	1:1.58	0.024	1.023	0.025	0.008	0.008	
1 CC Uplink - Power Class 3	N/A	2506.00	3975G	Low	LTE Band 41	20	16.40	16.30	-0.05	0	Ant 2a	DLXQVLPQKX	QPSK	50	50	0 mm	top	1:1.58	0.021	1.023	0.021	0.008	0.008	
1 CC Uplink - Power Class 3	N/A	2549.50	4018G	Low-Mid	LTE Band 41	20	16.40	16.30	-0.03	0	Ant 2a	DLXQVLPQKX	QPSK	1	0	0 mm	bottom	1:1.58	0.136	1.023	0.548	0.158	0.162	
1 CC Uplink - Power Class 3	N/A	2506.00	3975G	Low	LTE Band 41	20	16.40	16.30	-0.02	0	Ant 2a	DLXQVLPQKX	QPSK	50	50	0 mm	bottom	1:1.58	0.129	1.023	0.541	0.157	0.161	
1 CC Uplink - Power Class 3	N/A	2549.50	4018G	Low-Mid	LTE Band 41	20	16.40	16.30	-0.00	0	Ant 2a	DLXQVLPQKX	QPSK	1	0	0 mm	right	1:1.58	0.503	1.023	0.535	0.169	0.173	
1 CC Uplink - Power Class 3	N/A	2506.00	3975G	Low	LTE Band 41	20	16.40	16.30	-0.02	0	Ant 2a	DLXQVLPQKX	QPSK	50	50	0 mm	right	1:1.58	0.434	1.023	0.444	0.147	0.150	
1 CC Uplink - Power Class 3	N/A	2549.50	4018G	Low-Mid	LTE Band 41	20	16.40	16.30	-0.00	0	Ant 2a	DLXQVLPQKX	QPSK	1	0	0 mm	left	1:1.58	0.000	1.023	0.000	0.000	0.000	
1 CC Uplink - Power Class 3	N/A	2506.00	3975G	Low	LTE Band 41	20	16.40	16.30	-0.13	0	Ant 2a	DLXQVLPQKX	QPSK	50	50	0 mm	left	1:1.58	0.000	1.023	0.000	0.000	0.000	
ANSI / IEEE C63.1 1997 - SAFETY LIMIT										Body														
Spatial Peak										1.6 W/kg (mW/g)														
Uncontrolled Exposure/General Population										averaged over 1 gram														

FCC ID: BCGA2232	
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Table 10-50
LTE Band 41 Ant 2b Body SAR

MEASUREMENT RESULTS																						
1 CC Uplink 12 CC Uplink Power Class	Component Carrier	FREQUENCY	Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens [dBm]	MFR [dB]	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Plot #
1 CC Uplink - Power Class 2	N/A	2506.00 39750	Low	LTE Band 41	20	13.80	13.15	-0.03	0	Ant 2b	DLX0817P57F	QPSK	1	50	0 mm	back	1:1.58	0.715	1.161	0.837	0.249	0.269
1 CC Uplink - Power Class 3	N/A	2549.50 40385	Low-Mid	LTE Band 41	20	13.80	12.94	-0.03	0	Ant 2b	DLX0817P57F	QPSK	1	99	0 mm	back	1:1.58	0.670	1.219	0.817	0.229	0.279
1 CC Uplink - Power Class 3	N/A	2583.00 40930	Mid	LTE Band 41	20	13.80	13.03	-0.03	0	Ant 2b	DLX0817P57F	QPSK	1	99	0 mm	back	1:1.58	0.555	1.189	0.665	0.189	0.227
1 CC Uplink - Power Class 3	N/A	2636.50 41585	Mid-High	LTE Band 41	20	13.80	12.97	-0.03	0	Ant 2b	DLX0817P57F	QPSK	1	0	0 mm	back	1:1.58	0.503	1.211	0.682	0.189	0.229
1 CC Uplink - Power Class 3	N/A	2680.00 42030	Mid	LTE Band 41	20	13.80	13.00	-0.03	0	Ant 2b	DLX0817P57F	QPSK	1	99	0 mm	back	1:1.58	0.501	1.202	0.682	0.184	0.197
1 CC Uplink - Power Class 3	N/A	2506.00 39750	Low	LTE Band 41	20	13.80	13.07	-0.03	0	Ant 2b	DLX0817P57F	QPSK	50	25	0 mm	back	1:1.58	0.710	1.183	0.840	0.247	0.292
1 CC Uplink - Power Class 3	N/A	2549.50 40385	Low-Mid	LTE Band 41	20	13.80	12.83	-0.03	0	Ant 2b	DLX0817P57F	QPSK	50	50	0 mm	back	1:1.58	0.742	1.250	0.928	0.256	0.320
1 CC Uplink - Power Class 3	N/A	2583.00 40930	Mid	LTE Band 41	20	13.80	12.92	-0.03	0	Ant 2b	DLX0817P57F	QPSK	50	50	0 mm	back	1:1.58	0.579	1.225	0.709	0.196	0.240
1 CC Uplink - Power Class 3	N/A	2636.50 41585	Mid-High	LTE Band 41	20	13.80	12.87	-0.03	0	Ant 2b	DLX0817P57F	QPSK	50	0	0 mm	back	1:1.58	0.551	1.239	0.683	0.185	0.229
1 CC Uplink - Power Class 3	N/A	2680.00 42030	High	LTE Band 41	20	13.80	12.94	-0.03	0	Ant 2b	DLX0817P57F	QPSK	50	50	0 mm	back	1:1.58	0.497	1.219	0.606	0.163	0.199
1 CC Uplink - Power Class 3	N/A	2506.00 39750	Low	LTE Band 41	20	13.80	13.05	-0.03	0	Ant 2b	DLX0817P57F	QPSK	100	0	0 mm	back	1:1.58	0.707	1.189	0.841	0.246	0.292
1 CC Uplink - Power Class 3	N/A	2549.50 40385	Low-Mid	LTE Band 41	20	13.80	12.88	-0.03	0	Ant 2b	DLX0817P57F	QPSK	50	50	0 mm	back	1:2.31	0.465	1.233	0.610	0.173	0.213
2 CC Uplink - Power Class 3	PCC	2549.50 40385	Low-Mid	LTE Band 41	20	13.80	12.10	-0.03	0	Ant 2b	DLX0817P57F	QPSK	50	50	0 mm	back	1:1.58	0.635	1.479	0.939	0.225	0.333
2 CC Uplink - Power Class 3	SCC	2583.00 40930	Low-Mid	LTE Band 41	20	13.80	12.10	-0.03	0	Ant 2b	DLX0817P57F	QPSK	50	50	0 mm	back	1:1.58	0.635	1.479	0.939	0.225	0.333
2 CC Uplink - Power Class 3	PCC	2549.50 40385	Low-Mid	LTE Band 41	20	13.80	12.26	-0.03	0	Ant 2b	DLX0817P57F	QPSK	50	50	0 mm	back	1:2.31	0.414	1.426	0.580	0.149	0.212
2 CC Uplink - Power Class 3	SCC	2583.00 40930	Low-Mid	LTE Band 41	20	13.80	12.26	-0.03	0	Ant 2b	DLX0817P57F	QPSK	50	50	0 mm	back	1:2.31	0.414	1.426	0.580	0.149	0.212
1 CC Uplink - Power Class 3	N/A	2506.00 39750	Low	LTE Band 41	20	13.80	13.15	-0.21	0	Ant 2b	DLX0817P57F	QPSK	1	50	0 mm	top	1:1.58	0.000	1.161	0.000	0.000	0.000
1 CC Uplink - Power Class 3	N/A	2506.00 39750	Low	LTE Band 41	20	13.80	13.07	-0.21	0	Ant 2b	DLX0817P57F	QPSK	50	25	0 mm	top	1:1.58	0.000	1.183	0.000	0.000	0.000
1 CC Uplink - Power Class 3	N/A	2506.00 39750	Low	LTE Band 41	20	13.80	13.15	-0.03	0	Ant 2b	DLX0817P57F	QPSK	1	50	0 mm	bottom	1:1.58	0.315	1.161	0.366	0.110	0.128
1 CC Uplink - Power Class 3	N/A	2506.00 39750	Low	LTE Band 41	20	13.80	13.07	-0.03	0	Ant 2b	DLX0817P57F	QPSK	50	25	0 mm	bottom	1:1.58	0.319	1.183	0.377	0.111	0.131
1 CC Uplink - Power Class 3	N/A	2506.00 39750	Low	LTE Band 41	20	13.80	13.15	-0.03	0	Ant 2b	DLX0817P57F	QPSK	1	50	0 mm	right	1:1.58	0.021	1.161	0.024	0.009	0.009
1 CC Uplink - Power Class 3	N/A	2506.00 39750	Low	LTE Band 41	20	13.80	13.07	-0.12	0	Ant 2b	DLX0817P57F	QPSK	50	25	0 mm	right	1:1.58	0.022	1.183	0.026	0.009	0.009
1 CC Uplink - Power Class 3	N/A	2506.00 39750	Low	LTE Band 41	20	13.80	13.15	-0.21	0	Ant 2b	DLX0817P57F	QPSK	1	50	0 mm	left	1:1.58	0.015	1.161	0.017	0.005	0.006
1 CC Uplink - Power Class 3	N/A	2506.00 39750	Low	LTE Band 41	20	13.80	13.07	-0.21	0	Ant 2b	DLX0817P57F	QPSK	50	25	0 mm	left	1:1.58	0.016	1.183	0.020	0.005	0.006
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 10-51
LTE Band 41 Ant 4a Body SAR

MEASUREMENT RESULTS																						
1 CC Uplink 12 CC Uplink Power Class 3	Component Carrier	FREQUENCY	Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Sens (dBm)	MFR (dB)	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	SAR (W/kg)	Reported SAR (W/kg)	Plot #
1 CC Uplink - Power Class 3	N/A	2506.00 39750	Low	LTE Band 41	20	16.90	16.84	-0.02	0	Ant 4a	DLX08BPQKX	QPSK	1	50	0 mm	back	1:1.58	1.110	1.014	1.126	0.476	0.465
	N/A	2549.50 40385	Low-Mid	LTE Band 41	20	16.90	16.73	-0.03	0	Ant 4a	DLX08BPQKX	QPSK	1	50	0 mm	back	1:1.58	1.080	1.040	1.123	0.459	0.476
	N/A	2583.00 40930	Mid	LTE Band 41	20	16.90	16.57	-0.02	0	Ant 4a	DLX08BPQKX	QPSK	1	99	0 mm	back	1:1.58	0.822	1.079	0.887	0.344	0.371
	N/A	2636.50 41585	Mid-High	LTE Band 41	20	16.90	16.61	-0.04	0	Ant 4a	DLX08BPQKX	QPSK	1	0	0 mm	back	1:1.58	0.777	1.069	0.831	0.322	0.344
	N/A	2680.00 42030	High	LTE Band 41	20	16.90	16.34	-0.02	0	Ant 4a	DLX08BPQKX	QPSK	1	99	0 mm	back	1:1.58	0.779	1.138	0.887	0.318	0.362
	N/A	2506.00 39750	Low	LTE Band 41	20	16.90	16.83	-0.03	0	Ant 4a	DLX08BPQKX	QPSK	50	0	0 mm	back	1:1.58	1.120	1.016	1.138	0.482	0.460
	N/A	2549.50 40385	Low-Mid	LTE Band 41	20	16.90	16.76	-0.02	0	Ant 4a	DLX08BPQKX	QPSK	50	0	0 mm	back	1:1.58	1.150	1.033	1.188	0.483	0.469
	N/A	2583.00 40930	Mid	LTE Band 41	20	16.90	16.54	-0.03	0	Ant 4a	DLX08BPQKX	QPSK	50	0	0 mm	back	1:1.58	0.847	1.086	0.900	0.366	0.387
	N/A	2636.50 41585	Mid-High	LTE Band 41	20	16.90	16.59	-0.02	0	Ant 4a	DLX08BPQKX	QPSK	50	25	0 mm	back	1:1.58	0.797	1.074	0.813	0.313	0.336
	N/A	2680.00 42030	High	LTE Band 41	20	16.90	16.33	-0.03	0	Ant 4a	DLX08BPQKX	QPSK	50	50	0 mm	back	1:1.58	0.776	1.140	0.885	0.316	0.360
1 CC Uplink - Power Class 3	N/A	2506.00 39750	Low	LTE Band 41	20	16.90	16.78	-0.02	0	Ant 4a	DLX08BPQKX	QPSK	100	0	0 mm	back	1:1.58	1.120	1.028	1.151	0.492	0.465
	N/A	2549.50 40385	Low-Mid	LTE Band 41	20	16.90	16.58	-0.03	0	Ant 4a	DLX08BPQKX	QPSK	50	0	0 mm	back	1:2.31	0.707	1.076	0.761	0.301	0.324
	PCC	2549.50 40385	Low-Mid	LTE Band 41	20	16.90	16.48	-0.03	0	Ant 4a	DLX08BPQKX	QPSK	50	0	0 mm	back	1:1.58	1.040	1.102	1.146	0.442	0.487
	SCC	2529.70 39987	Low-Mid	LTE Band 41	20	16.90	16.02	-0.03	0	Ant 4a	DLX08BPQKX	QPSK	50	50	0 mm	back	1:2.31	0.711	1.047	0.744	0.301	0.315
	PCC	2549.50 40385	Low-Mid	LTE Band 41	20	16.90	16.70	-0.02	0	Ant 4a	DLX08BPQKX	QPSK	50	50	0 mm	back	1:2.31	0.711	1.047	0.744	0.301	0.315
	SCC	2529.70 39987	Low-Mid	LTE Band 41	20	16.90	16.70	-0.02	0	Ant 4a	DLX08BPQKX	QPSK	50	50	0 mm	back	1:2.31	0.711	1.047	0.744	0.301	0.315
	N/A	2506.00 39750	Low	LTE Band 41	20	16.90	16.84	-0.09	0	Ant 4a	DLX08BPQKX	QPSK	1	50	0 mm	top	1:1.58	0.578	1.014	0.588	0.175	0.177
	N/A	2506.00 39750	Low	LTE Band 41	20	16.90	16.83	-0.09	0	Ant 4a	DLX08BPQKX	QPSK	50	0	0 mm	top	1:1.58	0.576	1.016	0.585	0.173	0.176
	N/A	2506.00 39750	Low	LTE Band 41	20	16.90	16.84	-0.14	0	Ant 4a	DLX08BPQKX	QPSK	1	50	0 mm	bottom	1:1.58	0.029	1.014	0.029	0.011	0.011
	N/A	2506.00 39750	Low	LTE Band 41	20	16.90	16.83	-0.20	0	Ant 4a	DLX08BPQKX	QPSK	50	0	0 mm	bottom	1:1.58	0.025	1.016	0.025	0.010	0.010
1 CC Uplink - Power Class 3	N/A	2506.00 39750	Low	LTE Band 41	20	16.90	16.84	-0.20	0	Ant 4a	DLX08BPQKX	QPSK	1	50	0 mm	right	1:1.58	0.001	1.014	0.001	0.000	0.000
	N/A	2506.00 39750	Low	LTE Band 41	20	16.90	16.83	-0.21	0	Ant 4a	DLX08BPQKX	QPSK	50	0	0 mm	right	1:1.58	0.002	1.016	0.002	0.000	0.000
	N/A	2506.00 39750	Low	LTE Band 41	20	16.90	16.84	-0.06	0	Ant 4a	DLX08BPQKX	QPSK	1	50	0 mm	left	1:1.58	0.004	1.014	0.012	0.003	0.006
	N/A	2549.50 40385	Low-Mid	LTE Band 41	20	16.90	16.73	-0.05	0	Ant 4a	DLX08BPQKX	QPSK	1	50	0 mm	left	1:1.58	0.562	1.040	0.584	0.186	0.193
	N/A	2583.00 40930	Mid	LTE Band 41	20	16.90	16.57	-0.20	0	Ant 4a	DLX08BPQKX	QPSK	1	99	0 mm	left	1:1.58	0.393	1.079	0.424	0.136	0.136
	N/A	2636.50 41585	Mid-High	LTE Band 41	20	16.90	16.63	-0.05	0	Ant 4a	DLX08BPQKX	QPSK	1	0	0 mm	left	1:1.58	0.417	1.069	0.446	0.136	0.145
	N/A	2680.00 42030	High	LTE Band 41	20	16.90	16.34	-0.02	0	Ant 4a	DLX08BPQKX	QPSK	1	99	0 mm	left	1:1.58	0.480	1.138	0.455	0.126	0.146
	N/A	2506.00 39750	Low	LTE Band 41	20	16.90	16.83	-0.05	0	Ant 4a	DLX08BPQKX	QPSK	50	0	0 mm	left	1:1.58	0.598	1.016	0.598	0.187	0.200
	N/A	2506.00 39750	Low	LTE Band 41	20	16.90	16.78	-0.02	0	Ant 4a	DLX08BPQKX	QPSK	100	0	0 mm	left	1:1.58	0.604	1.033	0.621	0.202	0.208
	N/A	2549.50 40385	Low-Mid	LTE Band 41	20	16.90	16.76	-0.02	0	Ant 4a	DLX08BPQKX	QPSK	50	0	0 mm	back	1:1.58	1.120	1.033	1.137	0.476	0.465
ANSI / IEEE C63.11992 - SAFETY LIMIT										Body												
Spatial Peak										16 Wh/m (mW/kg)												
Unintentional Exposure (General Population)										100 mW/kg (0.1 W/kg)												

LTE Band 41 Ant 4b Body SAR

MEASUREMENT RESULTS																							
1 CC Uplink / 1 CC Uplink - Power Class 3	Component Carrier	FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Eff. (dBm)	MPE (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Sub-Carrier	SAR (dB)	Scaling Factor	Reported SAR (dB)	SAR (dB)	Reported SAR (dB)	Phi	
		MHz	Ch.																				
1 CC Uplink - Power Class 3	N/A	2500	39750	Low	LTE Band 41	20.0	14.80	-14.68	-0.12	0	Ant 4b	DLX2704P57G	QPSK	1	0	0 mm	back	11.58	0.922	1.028	0.948	0.349	0.359
1 CC Uplink - Power Class 3	N/A	2500	40000	Low	LTE Band 41	20.0	14.80	-14.48	0.00	0	Ant 4b	DLX2704P57G	QPSK	1	0	0 mm	back	11.58	0.952	1.076	0.960	0.354	0.359
1 CC Uplink - Power Class 3	N/A	2500	40600	Mid	LTE Band 41	20.0	14.80	-14.72	-0.01	0	Ant 4b	DLX2704P57G	QPSK	1	99	0 mm	back	11.58	0.953	1.029	0.971	0.349	0.356
1 CC Uplink - Power Class 3	N/A	2638	40500	Mid	LTE Band 41	20.0	14.80	-14.80	-0.07	0	Ant 4b	DLX2704P57G	QPSK	1	0	0 mm	back	11.58	0.911	1.000	0.811	0.331	0.331
1 CC Uplink - Power Class 3	N/A	2680	41480	High	LTE Band 41	20.0	14.80	-14.20	-0.07	0	Ant 4b	DLX2704P57G	QPSK	1	0	0 mm	back	11.58	0.989	1.148	1.031	0.739	0.366
1 CC Uplink - Power Class 3	N/A	2680	41480	High	LTE Band 41	20.0	14.80	-14.51	-0.05	0	Ant 4b	DLX2704P57G	QPSK	1	99	0 mm	back	11.58	0.951	1.069	1.017	0.339	0.368
1 CC Uplink - Power Class 3	N/A	2500	39750	Low	LTE Band 41	20.0	14.80	-14.61	0.09	0	Ant 4b	DLX2704P57G	QPSK	50	0	0 mm	back	11.58	0.904	1.045	0.945	0.340	0.355
1 CC Uplink - Power Class 3	N/A	2548	40258	Mid	LTE Band 41	20.0	14.80	-14.37	0.01	0	Ant 4b	DLX2704P57G	QPSK	50	25	0 mm	back	11.58	0.896	1.104	0.948	0.339	0.362
1 CC Uplink - Power Class 3	N/A	2548	40258	Mid	LTE Band 41	20.0	14.80	-14.64	0.03	0	Ant 4b	DLX2704P57G	QPSK	50	50	0 mm	back	11.58	0.949	1.038	0.985	0.346	0.359
1 CC Uplink - Power Class 3	N/A	2638	40500	Mid	LTE Band 41	20.0	14.80	-14.75	-0.02	0	Ant 4b	DLX2704P57G	QPSK	50	0	0 mm	back	11.58	0.913	1.022	0.904	0.329	0.333
1 CC Uplink - Power Class 3	N/A	2638	40500	Mid	LTE Band 41	20.0	14.80	-14.47	-0.11	0	Ant 4b	DLX2704P57G	QPSK	50	50	0 mm	back	11.58	0.944	1.079	1.015	0.333	0.359
1 CC Uplink - Power Class 3	N/A	2638	40500	Mid	LTE Band 41	20.0	14.80	-14.70	0.14	0	Ant 4b	DLX2704P57G	QPSK	100	0	0 mm	back	11.58	0.938	1.023	0.839	0.339	0.342
1 CC Uplink - Power Class 2	N/A	2680	41480	High	LTE Band 41	20.0	14.80	-14.45	-0.05	0	Ant 4b	DLX2704P57G	QPSK	1	0	0 mm	back	12.31	0.748	1.035	0.774	0.252	0.260
1 CC Uplink - Power Class 2	N/A	2680	41480	High	LTE Band 41	20.0	14.80	-14.50	-0.05	0	Ant 4b	DLX2704P57G	QPSK	1	99	0 mm	back	12.31	0.690	1.072	0.697	0.225	0.241
2 CC Uplink - Power Class 3	PCCC	2680	41480	High	LTE Band 41	20.0	14.80	-13.75	-0.10	0	Ant 4b	DLX2704P57G	QPSK	1	0	0 mm	back	11.58	0.827	1.274	1.054	0.398	0.380
2 CC Uplink - Power Class 3	PCCC	2680	41480	High	LTE Band 41	20.0	14.80	-14.22	-0.03	0	Ant 4b	DLX2704P57G	QPSK	1	99	0 mm	back	11.58	0.692	1.143	0.791	0.237	0.271
2 CC Uplink - Power Class 3	PCCC	2680	41480	High	LTE Band 41	20.0	14.80	-14.50	-0.05	0	Ant 4b	DLX2704P57G	QPSK	1	0	0 mm	top	11.58	0.978	1.000	0.378	0.229	0.129
1 CC Uplink - Power Class 3	N/A	2638	40500	Mid	LTE Band 41	20.0	14.80	-14.75	-0.04	0	Ant 4b	DLX2704P57G	QPSK	50	0	0 mm	top	11.58	0.973	1.022	0.374	0.126	0.128
1 CC Uplink - Power Class 3	N/A	2638	40500	Mid	LTE Band 41	20.0	14.80	-14.80	-0.20	0	Ant 4b	DLX2704P57G	QPSK	1	0	0 mm	bottom	11.58	0.005	1.000	0.005	0.001	0.001
1 CC Uplink - Power Class 3	N/A	2638	40500	Mid	LTE Band 41	20.0	14.80	-14.75	-0.21	0	Ant 4b	DLX2704P57G	QPSK	1	0	0 mm	bottom	11.58	0.005	1.002	0.005	0.001	0.001
1 CC Uplink - Power Class 3	N/A	2638	40500	Mid	LTE Band 41	20.0	14.80	-14.80	0.05	0	Ant 4b	DLX2704P57G	QPSK	50	0	0 mm	right	11.58	0.023	1.000	0.023	0.010	0.010
1 CC Uplink - Power Class 3	N/A	2638	40500	Mid	LTE Band 41	20.0	14.80	-14.75	-0.20	0	Ant 4b	DLX2704P57G	QPSK	1	0	0 mm	right	11.58	0.022	1.022	0.022	0.009	0.009
1 CC Uplink - Power Class 3	N/A	2638	40500	Mid	LTE Band 41	20.0	14.80	-14.80	0.03	0	Ant 4b	DLX2704P57G	QPSK	1	0	0 mm	left	11.58	0.002	1.000	0.002	0.002	0.020
1 CC Uplink - Power Class 3	N/A	2638	40500	Mid	LTE Band 41	20.0	14.80	-14.75	0.11	0	Ant 4b	DLX2704P57G	QPSK	50	0	0 mm	left	11.58	0.002	1.022	0.004	0.002	0.020
UNRECORDED / IEEE C63.1-1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																							
Averaged over 1 gram																							

LTE Band 48 Ant 1 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power drift (dB)	MPR (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spreading	Site	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (20) (W/kg)	SAR (20g) (W/kg)	Reported SAR (200) (W/kg)	Pass/Fail
MHz	Ch.																				
3600.0	55340	Low	LTE Band 48	20	15.50	15.40	0.21	0	Ant 1	DLX20ZSHHQPQK	QPSK	1	0	0 mm	back	1:15.8	0.984	1.023	1.007	0.321	0.339
3603.0	55330	Low-Mid	LTE Band 48	20	15.50	15.22	-0.22	0	Ant 1	DLX20ZSHHQPQK	QPSK	1	99	0 mm	back	1:15.8	0.685	1.067	0.734	0.221	0.236
3646.0	56207	Mid-High	LTE Band 48	20	15.50	15.23	0.20	0	Ant 1	DLX20ZSHHQPQK	QPSK	1	0	0 mm	back	1:15.8	0.765	1.064	0.803	0.247	0.263
3660.0	56640	High	LTE Band 48	20	15.50	14.90	0.00	0	Ant 1	DLX20ZSHHQPQK	QPSK	1	99	0 mm	back	1:15.8	0.751	1.148	0.862	0.241	0.277
3690.0	55340	Low	LTE Band 48	20	15.50	15.23	-0.20	0	Ant 1	DLX20ZSHHQPQK	QPSK	50	0	0 mm	back	1:15.8	0.989	1.064	1.020	0.320	0.340
3603.0	55773	Low-Mid	LTE Band 48	20	15.50	15.00	0.01	0	Ant 1	DLX20ZSHHQPQK	QPSK	50	50	0 mm	back	1:15.8	0.781	1.122	0.884	0.261	0.293
3646.0	56207	Mid-High	LTE Band 48	20	15.50	15.21	0.00	0	Ant 1	DLX20ZSHHQPQK	QPSK	50	0	0 mm	back	1:15.8	0.733	1.069	0.794	0.238	0.254
3660.0	56640	High	LTE Band 48	20	15.50	14.61	0.01	0	Ant 1	DLX20ZSHHQPQK	QPSK	50	50	0 mm	back	1:15.8	0.725	1.227	0.890	0.231	0.263
3690.0	55340	Low	LTE Band 48	20	15.50	15.22	-0.15	0	Ant 1	DLX20ZSHHQPQK	QPSK	100	0	0 mm	back	1:15.8	0.934	1.067	0.997	0.313	0.334
3660.0	55340	Low	LTE Band 48	20	15.50	15.40	0.18	0	Ant 1	DLX20ZSHHQPQK	QPSK	1	0	0 mm	top	1:15.8	0.003	1.023	0.003	0.001	0.001
3660.0	55340	Low	LTE Band 48	20	15.50	15.23	0.15	0	Ant 1	DLX20ZSHHQPQK	QPSK	50	0	0 mm	top	1:15.8	0.004	1.064	0.004	0.001	0.001
3660.0	55340	Low	LTE Band 48	20	15.50	15.40	-0.02	0	Ant 1	DLX20ZSHHQPQK	QPSK	1	0	0 mm	bottom	1:15.8	0.535	1.023	0.547	0.144	0.147
3660.0	55340	Low	LTE Band 48	20	15.50	15.23	-0.03	0	Ant 1	DLX20ZSHHQPQK	QPSK	50	0	0 mm	bottom	1:15.8	0.511	1.064	0.544	0.137	0.146
3660.0	55340	Low	LTE Band 48	20	15.50	15.40	0.00	0	Ant 1	DLX20ZSHHQPQK	QPSK	1	0	0 mm	right	1:15.8	0.000	1.023	0.000	0.000	0.000
3660.0	55340	Low	LTE Band 48	20	15.50	15.23	0.00	0	Ant 1	DLX20ZSHHQPQK	QPSK	50	0	0 mm	right	1:15.8	0.000	1.064	0.000	0.000	0.000
3660.0	55340	Low	LTE Band 48	20	15.50	15.40	-0.01	0	Ant 1	DLX20ZSHHQPQK	QPSK	1	0	0 mm	left	1:15.8	0.866	1.023	0.886	0.227	0.232
3603.0	55773	Low-Mid	LTE Band 48	20	15.50	15.22	0.02	0	Ant 1	DLX20ZSHHQPQK	QPSK	1	99	0 mm	left	1:15.8	0.628	1.067	0.670	0.161	0.172
3646.0	56207	Mid-High	LTE Band 48	20	15.50	15.23	-0.01	0	Ant 1	DLX20ZSHHQPQK	QPSK	1	0	0 mm	left	1:15.8	0.482	1.064	0.513	0.123	0.131
3690.0	56640	High	LTE Band 48	20	15.50	14.90	0.02	0	Ant 1	DLX20ZSHHQPQK	QPSK	1	99	0 mm	left	1:15.8	0.298	1.148	0.342	0.072	0.083
3660.0	55340	Low	LTE Band 48	20	15.50	15.23	-0.02	0	Ant 1	DLX20ZSHHQPQK	QPSK	50	0	0 mm	left	1:15.8	0.821	1.064	0.874	0.215	0.229
3603.0	55773	Low-Mid	LTE Band 48	20	15.50	15.00	0.03	0	Ant 1	DLX20ZSHHQPQK	QPSK	50	50	0 mm	left	1:15.8	0.633	1.122	0.710	0.162	0.182
3646.0	56207	Mid-High	LTE Band 48	20	15.50	15.21	0.03	0	Ant 1	DLX20ZSHHQPQK	QPSK	50	0	0 mm	left	1:15.8	0.467	1.069	0.499	0.115	0.123
3690.0	56640	High	LTE Band 48	20	15.50	14.61	-0.01	0	Ant 1	DLX20ZSHHQPQK	QPSK	50	50	0 mm	left	1:15.8	0.298	1.227	0.366	0.073	0.090
3660.0	55340	Low	LTE Band 48	20	15.50	15.22	0.02	0	Ant 1	DLX20ZSHHQPQK	QPSK	100	0	0 mm	left	1:15.8	0.824	1.067	0.879	0.216	0.230
ANSI / IEEE C63.1-1992 - SAFETY LIMIT															Body 1.6 W/kg (avg)						
Uncontrolled / Specific Absorption Rate (SAR) Limit															ANSI / IEEE C63.1-1992 - SAFETY LIMIT						

FCC ID: BCGA2232	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C19121270055-01-R1.BCG	Test Dates: 12/20/2019 – 02/05/2020	DUT Type: Tablet Device	Page 244 of 284

Table 10-54
LTE Band 48 Ant 3 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (2g)	Scaling Factor	Reported SAR (2g)	SAR (20g)	Reported SAR (20g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)		
3500.00	55340	Low	LTE Band 48	20	17.50	17.10	0.06	0	Ant 3	DLX2T004P5TG	QPSK	1	99	0 mm	back	1:1.58	0.600	1.096	0.658	0.204	0.224
3603.30	55773	Low-Mid	LTE Band 48	20	17.50	17.22	-0.08	0	Ant 3	DLX2T004P5TG	QPSK	1	99	0 mm	back	1:1.58	0.717	1.069	0.766	0.197	0.211
3646.70	56207	Mid-High	LTE Band 48	20	17.50	17.32	-0.18	0	Ant 3	DLX2T004P5TG	QPSK	1	0	0 mm	back	1:1.58	0.730	1.042	0.761	0.242	0.252
3690.00	56640	High	LTE Band 48	20	17.50	17.17	-0.11	0	Ant 3	DLX2T004P5TG	QPSK	1	0	0 mm	back	1:1.58	0.698	1.079	0.710	0.179	0.193
3500.00	55340	Low	LTE Band 48	20	17.50	16.98	-0.03	0	Ant 3	DLX2T004P5TG	QPSK	50	0	0 mm	back	1:1.58	0.713	1.127	0.804	0.196	0.221
3603.30	55773	Low-Mid	LTE Band 48	20	17.50	17.00	-0.17	0	Ant 3	DLX2T004P5TG	QPSK	50	50	0 mm	back	1:1.58	0.687	1.122	0.771	0.188	0.211
3646.70	56207	Mid-High	LTE Band 48	20	17.50	17.15	-0.11	0	Ant 3	DLX2T004P5TG	QPSK	50	0	0 mm	back	1:1.58	0.677	1.084	0.734	0.224	0.243
3690.00	56640	High	LTE Band 48	20	17.50	16.98	-0.10	0	Ant 3	DLX2T004P5TG	QPSK	50	0	0 mm	back	1:1.58	0.617	1.127	0.695	0.167	0.188
3546.70	56207	Mid-High	LTE Band 48	20	17.50	17.14	-0.20	0	Ant 3	DLX2T004P5TG	QPSK	100	0	0 mm	back	1:1.58	0.681	1.086	0.740	0.226	0.245
3500.00	55340	Low	LTE Band 48	20	17.50	17.10	-0.03	0	Ant 3	DLX2T004P5TG	QPSK	1	99	0 mm	top	1:1.58	0.769	1.096	0.843	0.201	0.220
3603.30	55773	Low-Mid	LTE Band 48	20	17.50	17.21	-0.10	0	Ant 3	DLX2T004P5TG	QPSK	1	99	0 mm	top	1:1.58	0.727	1.069	0.777	0.189	0.202
3646.70	56207	Mid-High	LTE Band 48	20	17.50	17.32	0.00	0	Ant 3	DLX2T004P5TG	QPSK	1	0	0 mm	top	1:1.58	0.673	1.042	0.701	0.174	0.181
3690.00	56640	High	LTE Band 48	20	17.50	17.17	-0.03	0	Ant 3	DLX2T004P5TG	QPSK	1	0	0 mm	top	1:1.58	0.620	1.079	0.669	0.159	0.172
3500.00	55340	Low	LTE Band 48	20	17.50	16.98	-0.02	0	Ant 3	DLX2T004P5TG	QPSK	50	0	0 mm	top	1:1.58	0.748	1.127	0.843	0.196	0.221
3603.30	55773	Low-Mid	LTE Band 48	20	17.50	17.00	-0.04	0	Ant 3	DLX2T004P5TG	QPSK	50	50	0 mm	top	1:1.58	0.696	1.122	0.761	0.179	0.201
3646.70	56207	Mid-High	LTE Band 48	20	17.50	17.15	-0.02	0	Ant 3	DLX2T004P5TG	QPSK	50	0	0 mm	top	1:1.58	0.676	1.084	0.733	0.174	0.189
3690.00	56640	High	LTE Band 48	20	17.50	16.98	-0.02	0	Ant 3	DLX2T004P5TG	QPSK	50	0	0 mm	top	1:1.58	0.585	1.127	0.659	0.149	0.168
3546.70	56207	Mid-High	LTE Band 48	20	17.50	17.14	-0.04	0	Ant 3	DLX2T004P5TG	QPSK	100	0	0 mm	top	1:1.58	0.681	1.086	0.740	0.175	0.190
3646.70	56207	Mid-High	LTE Band 48	20	17.50	17.32	0.20	0	Ant 3	DLX2T004P5TG	QPSK	1	0	0 mm	bottom	1:1.58	0.905	1.042	0.905	0.001	0.001
3646.70	56207	Mid-High	LTE Band 48	20	17.50	17.15	0.20	0	Ant 3	DLX2T004P5TG	QPSK	50	0	0 mm	bottom	1:1.58	0.905	1.084	0.905	0.001	0.001
3500.00	55340	Low	LTE Band 48	20	17.50	17.10	0.03	0	Ant 3	DLX2T004P5TG	QPSK	1	99	0 mm	right	1:1.58	1.080	1.096	1.184	0.302	0.331
3603.30	55773	Low-Mid	LTE Band 48	20	17.50	17.21	-0.01	0	Ant 3	DLX2T004P5TG	QPSK	1	99	0 mm	right	1:1.58	0.872	1.069	0.932	0.242	0.259
3646.70	56207	Mid-High	LTE Band 48	20	17.50	17.32	-0.02	0	Ant 3	DLX2T004P5TG	QPSK	1	0	0 mm	right	1:1.58	1.130	1.042	1.177	0.316	0.329
3690.00	56640	High	LTE Band 48	20	17.50	17.17	0.03	0	Ant 3	DLX2T004P5TG	QPSK	1	0	0 mm	right	1:1.58	0.851	1.079	0.918	0.232	0.250
3500.00	55340	Low	LTE Band 48	20	17.50	16.98	-0.01	0	Ant 3	DLX2T004P5TG	QPSK	50	0	0 mm	right	1:1.58	1.050	1.127	1.183	0.293	0.330
3603.30	55773	Low-Mid	LTE Band 48	20	17.50	17.00	0.04	0	Ant 3	DLX2T004P5TG	QPSK	50	50	0 mm	right	1:1.58	0.860	1.122	0.965	0.240	0.269
3646.70	56207	Mid-High	LTE Band 48	20	17.50	17.15	0.02	0	Ant 3	DLX2T004P5TG	QPSK	50	0	0 mm	right	1:1.58	1.090	1.084	1.182	0.303	0.328
3690.00	56640	High	LTE Band 48	20	17.50	16.98	-0.01	0	Ant 3	DLX2T004P5TG	QPSK	50	0	0 mm	right	1:1.58	0.797	1.127	0.888	0.218	0.246
3546.70	56207	Mid-High	LTE Band 48	20	17.50	17.14	0.05	0	Ant 3	DLX2T004P5TG	QPSK	100	0	0 mm	right	1:1.58	0.803	1.086	0.872	0.222	0.241
3646.70	56207	Mid-High	LTE Band 48	20	17.50	17.32	0.00	0	Ant 3	DLX2T004P5TG	QPSK	1	0	0 mm	left	1:1.58	0.900	1.042	0.900	0.000	0.000
3646.70	56207	Mid-High	LTE Band 48	20	17.50	17.15	0.00	0	Ant 3	DLX2T004P5TG	QPSK	50	0	0 mm	left	1:1.58	0.900	1.084	0.900	0.000	0.000
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 10-55
LTE Band 48 Ant 2b Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (2g) [W/kg]	Scaling Factor	Reported SAR (2g) [W/kg]	SAR (20g) [W/kg]	Reported SAR (20g) [W/kg]	Plot #	
MHz	Ch.																					
3500.00	55340	Low	LTE Band 48	20	14.80	14.56	-0.05	0	Ant 2b	DLX2T001P5TG	QPSK	1	99	0 mm	back	1:1.58	0.918	1.057	0.905	0.240	0.254	
3603.30	55773	Low-Mid	LTE Band 48	20	14.80	14.74	-0.01	0	Ant 2b	DLX2T001P5TG	QPSK	1	99	0 mm	back	1:1.58	1.170	1.014	1.136	0.342	0.347	A17
3646.70	56207	Mid-High	LTE Band 48	20	14.80	14.80	0.00	0	Ant 2b	DLX2T001P5TG	QPSK	1	99	0 mm	back	1:1.58	1.010	1.000	1.010	0.297	0.297	
3690.00	56640	High	LTE Band 48	20	14.80	14.43	0.00	0	Ant 2b	DLX2T001P5TG	QPSK	1	0	0 mm	back	1:1.58	0.956	1.089	0.605	0.160	0.174	
3500.00	55340	Low	LTE Band 48	20	14.80	14.47	-0.01	0	Ant 2b	DLX2T001P5TG	QPSK	50	0	0 mm	back	1:1.58	0.830	1.079	0.896	0.244	0.263	
3603.30	55773	Low-Mid	LTE Band 48	20	14.80	14.65	0.00	0	Ant 2b	DLX2T001P5TG	QPSK	50	50	0 mm	back	1:1.58	1.140	1.035	1.180	0.333	0.345	
3646.70	56207	Mid-High	LTE Band 48	20	14.80	14.63	-0.11	0	Ant 2b	DLX2T001P5TG	QPSK	50	50	0 mm	back	1:1.58	1.010	1.040	1.050	0.293	0.305	
3690.00	56640	High	LTE Band 48	20	14.80	14.32	-0.01	0	Ant 2b	DLX2T001P5TG	QPSK	50	0	0 mm	back	1:1.58	0.936	1.117	0.599	0.154	0.172	
3546.70	56207	Mid-High	LTE Band 48	20	14.80	14.62	-0.03	0	Ant 2b	DLX2T001P5TG	QPSK	100	0	0 mm	back	1:1.58	1.020	1.042	1.063	0.297	0.309	
3546.70	56207	Mid-High	LTE Band 48	20	14.80	14.80	0.00	0	Ant 2b	DLX2T001P5TG	QPSK	1	99	0 mm	top	1:1.58	0.900	1.000	0.900	0.000	0.000	
3603.30	55773	Low-Mid	LTE Band 48	20	14.80	14.65	0.00	0	Ant 2b	DLX2T001P5TG	QPSK	50	50	0 mm	top	1:1.58	0.900	1.035	0.900	0.000	0.000	
3646.70	56207	Mid-High	LTE Band 48	20	14.80	14.80	-0.01	0	Ant 2b	DLX2T001P5TG	QPSK	1	99	0 mm	bottom	1:1.58	0.277	1.000	0.277	0.079	0.079	
3603.30	55773	Low-Mid	LTE Band 48	20	14.80	14.65	-0.02	0	Ant 2b	DLX2T001P5TG	QPSK	50	50	0 mm	bottom	1:1.58	0.931	1.035	0.943	0.097	0.100	
3546.70	56207	Mid-High	LTE Band 48	20	14.80	14.80	0.16	0	Ant 2b	DLX2T001P5TG	QPSK	1	99	0 mm	right	1:1.58	0.921	1.000	0.921	0.009	0.009	
3603.30	55773	Low-Mid	LTE Band 48	20	14.80	14.65	0.05	0	Ant 2b	DLX2T001P5TG	QPSK	50	50	0 mm	right	1:1.58	0.924	1.035	0.925	0.006	0.006	
3646.70	56207	Mid-High	LTE Band 48	20	14.80	14.80	0.20	0	Ant 2b	DLX2T001P5TG	QPSK	1	99	0 mm	left	1:1.58	0.909	1.000	0.909	0.002	0.002	
3603.30	55773	Low-Mid	LTE Band 48	20	14.80	14.65	0.20	0	Ant 2b	DLX2T001P5TG	QPSK	50	50	0 mm	left	1:1.58	0.909	1.035	0.909	0.002	0.002	
3603.30	55773	Low-Mid	LTE Band 48	20	14.80	14.74	-0.01	0	Ant 2b	DLX2T001P5TG	QPSK	1	99	0 mm	back	1:1.58	1.160	1.014	1.176	0.341	0.346	
ANSI / IEEE C63.1-1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Table 10-56
LTE Band 48 Ant 4b Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [W/kg]	Scaling Factor	Reported SAR [W/kg]	SAR [dBm]	Reported SAR [dBm]	Plot #
MHz	Ch.															(W/kg)		(dBm)	(dBm)	(dBm)	
3550.00	55340	Low	LTE Band 48	20	16.40	16.18	0.00	0	Ant 4b	DLXZT001P57G	QPSK	1	99	0 mm	back	1:1.58	1.120	1.052	1.178	0.336	0.353
3503.30	55773	Low-Mid	LTE Band 48	20	16.40	16.28	0.14	0	Ant 4b	DLXZT001P57G	QPSK	1	99	0 mm	back	1:1.58	1.070	1.028	1.100	0.318	0.327
3646.70	56207	Mid-High	LTE Band 48	20	16.40	16.26	0.00	0	Ant 4b	DLXZT001P57G	QPSK	1	99	0 mm	back	1:1.58	1.030	1.033	1.064	0.305	0.315
3690.00	56640	High	LTE Band 48	20	16.40	16.12	0.02	0	Ant 4b	DLXZT001P57G	QPSK	1	99	0 mm	back	1:1.58	0.893	1.067	0.953	0.260	0.277
3550.00	55340	Low	LTE Band 48	20	16.40	16.24	-0.08	0	Ant 4b	DLXZT001P57G	QPSK	50	0	0 mm	back	1:1.58	1.140	1.028	1.183	0.341	0.354
3503.30	55773	Low-Mid	LTE Band 48	20	16.40	16.03	0.00	0	Ant 4b	DLXZT001P57G	QPSK	50	50	0 mm	back	1:1.58	1.070	1.089	1.165	0.315	0.343
3646.70	56207	Mid-High	LTE Band 48	20	16.40	16.02	0.02	0	Ant 4b	DLXZT001P57G	QPSK	50	50	0 mm	back	1:1.58	1.020	1.091	1.113	0.300	0.327
3690.00	56640	High	LTE Band 48	20	16.40	15.96	-0.04	0	Ant 4b	DLXZT001P57G	QPSK	50	50	0 mm	back	1:1.58	0.874	1.107	0.968	0.253	0.280
3546.70	56207	Mid-High	LTE Band 48	20	16.40	16.08	-0.05	0	Ant 4b	DLXZT001P57G	QPSK	100	0	0 mm	back	1:1.58	1.030	1.076	1.108	0.303	0.326
3503.30	55773	Low-Mid	LTE Band 48	20	16.40	16.28	0.13	0	Ant 4b	DLXZT001P57G	QPSK	1	99	0 mm	top	1:1.58	0.360	1.028	0.370	0.100	0.103
3550.00	55340	Low	LTE Band 48	20	16.40	16.24	0.04	0	Ant 4b	DLXZT001P57G	QPSK	50	0	0 mm	top	1:1.58	0.325	1.038	0.337	0.089	0.092
3503.30	55773	Low-Mid	LTE Band 48	20	16.40	16.26	0.00	0	Ant 4b	DLXZT001P57G	QPSK	1	99	0 mm	bottom	1:1.58	0.000	1.028	0.000	0.000	0.000
3550.00	55340	Low	LTE Band 48	20	16.40	16.24	0.00	0	Ant 4b	DLXZT001P57G	QPSK	50	0	0 mm	bottom	1:1.58	0.000	1.038	0.000	0.000	0.000
3503.30	55773	Low-Mid	LTE Band 48	20	16.40	16.28	0.21	0	Ant 4b	DLXZT001P57G	QPSK	1	99	0 mm	right	1:1.58	0.010	1.028	0.010	0.002	0.002
3550.00	55340	Low	LTE Band 48	20	16.40	16.24	0.20	0	Ant 4b	DLXZT001P57G	QPSK	50	0	0 mm	right	1:1.58	0.014	1.038	0.015	0.004	0.004
3503.30	55773	Low-Mid	LTE Band 48	20	16.40	16.26	0.21	0	Ant 4b	DLXZT001P57G	QPSK	1	99	0 mm	left	1:1.58	0.024	1.028	0.025	0.006	0.006
3550.00	55340	Low	LTE Band 48	20	16.40	16.24	0.14	0	Ant 4b	DLXZT001P57G	QPSK	50	0	0 mm	left	1:1.58	0.032	1.038	0.033	0.008	0.008
3550.00	55340	Low	LTE Band 48	20	16.40	16.24	-0.06	0	Ant 4b	DLXZT001P57G	QPSK	50	0	0 mm	back	1:1.58	1.120	1.028	1.183	0.336	0.351
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.

Table 10-57
2.4 GHz WLAN Ant 2a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dBm]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate [Mbps]	Side	Duty Cycle (%)	SAR [dS]	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR [dS]	SAR [dS]	Reported SAR [dS]	Plot
MHz	Ch.														(W/kg)						
2412	1	802.11b	DSSS	22	14.00	13.06	0.13	0 mm	Ant 2a	V1	DLXZR010P57F	1	back	99.2	0.894	1.242	1.008	1.119	0.393	0.492	A18
2412	1	802.11b	DSSS	22	14.00	13.04	0.06	0 mm	Ant 2a	V2	DLXZR00SP57F	1	back	99.0	0.817	1.247	1.010	1.029	0.362	0.456	
2437	6	802.11b	DSSS	22	14.00	13.01	-0.08	0 mm	Ant 2a	V1	DLXZR010P57F	1	back	99.2	0.877	1.256	1.008	1.110	0.384	0.486	
2402	11	802.11b	DSSS	22	14.00	13.20	0.02	0 mm	Ant 2a	V1	DLXZR010P57F	1	back	99.2	0.894	1.202	1.008	1.083	0.381	0.462	
2402	11	802.11b	DSSS	22	14.00	13.20	0.20	0 mm	Ant 2a	V1	DLXZR010P57F	1	top	99.2	0.017	1.202	1.008	0.021	0.008	0.010	
2402	11	802.11b	DSSS	22	14.00	13.20	0.04	0 mm	Ant 2a	V1	DLXZR010P57F	1	bottom	99.2	0.429	1.202	1.008	0.520	0.133	0.161	
2402	11	802.11b	DSSS	22	14.00	13.20	0.05	0 mm	Ant 2a	V1	DLXZR010P57F	1	right	99.2	0.516	1.202	1.008	0.625	0.180	0.218	
2402	11	802.11b	DSSS	22	14.00	13.20	0.05	0 mm	Ant 2a	V1	DLXZR010P57F	1	left	99.2	0.002	1.202	1.008	0.002	0.001	0.001	
2412	1	802.11b	DSSS	22	7.00	6.07	-0.09	0 mm	Ant 2a	V1	DLXZR010P57F	1	back	99.2	0.169	1.239	1.008	0.211	0.071	0.089	
2412	1	802.11b	DSSS	22	7.00	6.07	-0.01	0 mm	Ant 2a	V1	DLXZR010P57F	1	bottom	99.2	0.067	1.239	1.008	0.109	0.025	0.031	
2412	1	802.11b	DSSS	22	7.00	6.07	0.09	0 mm	Ant 2a	V1	DLXZR010P57F	1	right	99.2	0.086	1.239	1.008	0.122	0.035	0.044	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

FCC ID: BCGA2232	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C1912170055-01-R1.BCG	Test Dates: 12/20/2019 – 02/05/2020	DUT Type: Tablet Device	Page 246 of 284

Table 10-58
2.4 GHz WLAN Ant 4a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens. (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (dB)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (dB)	SAR (mW/kg)	Reported SAR (dB)	Plot
MHz	Ch.																				
2412	1	802.11b	DSSS	22	13.75	12.78	0.08	0 mm	Ant 4a	V1	DLX2R010P57F	1	back	99.1	0.865	1.250	1.009	1.076	0.371	0.468	
2437	6	802.11b	DSSS	22	13.75	12.76	0.03	0 mm	Ant 4a	V1	DLX2R010P57F	1	back	99.1	0.849	1.256	1.009	1.076	0.364	0.461	
2462	11	802.11b	DSSS	22	13.75	12.79	-0.03	0 mm	Ant 4a	V1	DLX2R010P57F	1	back	99.1	0.876	1.247	1.009	1.102	0.367	0.462	
2462	11	802.11b	DSSS	22	13.75	12.96	0.03	0 mm	Ant 4a	V2	DLX2R010P57F	1	back	99.0	0.790	1.202	1.010	0.959	0.348	0.422	
2462	11	802.11b	DSSS	22	13.75	12.79	0.02	0 mm	Ant 4a	V1	DLX2R010P57F	1	top	99.1	0.885	1.247	1.009	0.484	0.117	0.147	
2462	11	802.11b	DSSS	22	13.75	12.79	0.20	0 mm	Ant 4a	V1	DLX2R010P57F	1	bottom	99.1	0.018	1.247	1.009	0.023	0.008	0.010	
2462	11	802.11b	DSSS	22	13.75	12.79	-0.20	0 mm	Ant 4a	V1	DLX2R010P57F	1	right	99.1	0.003	1.247	1.009	0.004	0.001	0.001	
2462	11	802.11b	DSSS	22	13.75	12.79	0.06	0 mm	Ant 4a	V1	DLX2R010P57F	1	left	99.1	0.487	1.247	1.009	0.613	0.168	0.211	
2412	1	802.11b	DSSS	22	6.75	5.94	0.07	0 mm	Ant 4a	V1	DLX2R010P57F	1	back	99.1	0.116	1.205	1.009	0.141	0.050	0.061	
2412	1	802.11b	DSSS	22	6.75	5.94	-0.06	0 mm	Ant 4a	V1	DLX2R010P57F	1	top	99.1	0.062	1.205	1.009	0.100	0.023	0.028	
2412	1	802.11b	DSSS	22	6.75	5.94	0.12	0 mm	Ant 4a	V1	DLX2R010P57F	1	left	99.1	0.104	1.205	1.009	0.126	0.036	0.044	
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 10-59
WLAN 5GHz ANTlower Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (dB)	Scaling Factor (Power)	Scaling Factor Duty Cycle	Reported SAR (dB)	SAR (dBm)	Reported SAR (dBm)	Plot #
MHz	Ch.																				
5230	46	802.11n	OFDM	40	17.00	16.20	-0.21	0 mm	SGH ANTlower	V1	DLX2V00LPQKX	13.5	back	98.0	0.091	1.202	1.020	0.112	0.037	0.045	
5230	46	802.11n	OFDM	40	17.00	16.20	0.20	0 mm	SGH ANTlower	V1	DLX2V00LPQKX	13.5	top	98.0	0.000	1.202	1.020	0.000	0.000	0.000	
5230	46	802.11n	OFDM	40	17.00	16.20	0.21	0 mm	SGH ANTlower	V1	DLX2V00LPQKX	13.5	bottom	98.0	0.005	1.202	1.020	0.006	0.003	0.004	
5190	38	802.11n	OFDM	40	14.00	12.66	-0.12	0 mm	SGH ANTlower	V1	DLX2V00LPQKX	13.5	right	98.0	0.370	1.361	1.020	0.514	0.083	0.115	
5230	46	802.11n	OFDM	40	17.00	16.20	0.16	0 mm	SGH ANTlower	V1	DLX2V00LPQKX	13.5	right	98.0	0.919	1.202	1.020	1.127	0.224	0.275	A19
5230	46	802.11n	OFDM	40	17.00	16.09	0.12	0 mm	SGH ANTlower	V2	DLX2V00LPQKX	13.5	right	97.9	0.834	1.233	1.021	1.050	0.202	0.254	
5230	46	802.11n	OFDM	40	17.00	16.20	0.21	0 mm	SGH ANTlower	V1	DLX2V00LPQKX	13.5	left	98.0	0.011	1.202	1.020	0.013	0.007	0.009	
5210	42	802.11ac	OFDM	80	13.00	12.06	0.30	0 mm	SGH ANTlower	V1	DLX2V00LPQKX	29.3	back	98.0	0.019	1.242	1.020	0.024	0.006	0.008	
5210	42	802.11ac	OFDM	80	13.00	12.06	-0.13	0 mm	SGH ANTlower	V1	DLX2V00LPQKX	29.3	right	98.0	0.237	1.242	1.020	0.300	0.064	0.069	
5610	122	802.11ac	OFDM	80	15.50	14.54	-0.06	0 mm	SGH ANTlower	V1	DLX2R010P57F	29.3	back	95.7	0.094	1.247	1.045	0.122	0.041	0.053	
5610	122	802.11ac	OFDM	80	15.50	14.54	0.09	0 mm	SGH ANTlower	V1	DLX2R010P57F	29.3	top	95.7	0.000	1.247	1.045	0.000	0.000	0.000	
5610	122	802.11ac	OFDM	80	15.50	14.54	-0.20	0 mm	SGH ANTlower	V1	DLX2R010P57F	29.3	bottom	95.7	0.001	1.247	1.045	0.001	0.001	0.001	
5630	106	802.11ac	OFDM	80	13.00	11.03	-0.01	0 mm	SGH ANTlower	V1	DLX2R010P57F	29.3	right	95.7	0.286	1.574	1.045	0.469	0.067	0.110	
5610	122	802.11ac	OFDM	80	15.50	14.54	-0.20	0 mm	SGH ANTlower	V1	DLX2R010P57F	29.3	right	95.7	0.790	1.247	1.045	1.029	0.205	0.267	
5610	122	802.11ac	OFDM	80	15.50	14.57	-0.14	0 mm	SGH ANTlower	V2	DLX2R000P57F	29.3	right	96.0	0.763	1.239	1.042	0.985	0.191	0.247	
5690	138	802.11ac	OFDM	80	15.50	14.50	0.03	0 mm	SGH ANTlower	V1	DLX2R010P57F	29.3	right	95.7	0.744	1.259	1.045	0.979	0.196	0.257	
5610	122	802.11ac	OFDM	80	15.50	14.54	-0.19	0 mm	SGH ANTlower	V1	DLX2R010P57F	29.3	left	95.7	0.009	1.247	1.045	0.012	0.006	0.008	
5610	122	802.11ac	OFDM	80	11.50	10.75	-0.14	0 mm	SGH ANTlower	V1	DLX2R010P57F	29.3	back	95.7	0.037	1.189	1.045	0.046	0.019	0.024	
5610	122	802.11ac	OFDM	80	11.50	10.75	-0.08	0 mm	SGH ANTlower	V1	DLX2R010P57F	29.3	right	95.7	0.292	1.189	1.045	0.363	0.084	0.104	
5775	156	802.11ac	OFDM	80	15.50	14.54	-0.21	0 mm	SGH ANTlower	V1	DLX2N004P57G	29.3	back	95.7	0.099	1.247	1.045	0.129	0.036	0.047	
5775	156	802.11ac	OFDM	80	15.50	14.54	0.00	0 mm	SGH ANTlower	V1	DLX2N004P57G	29.3	top	95.7	0.000	1.247	1.045	0.000	0.000	0.000	
5775	156	802.11ac	OFDM	80	15.50	14.54	0.00	0 mm	SGH ANTlower	V1	DLX2N004P57G	29.3	bottom	95.7	0.000	1.247	1.045	0.000	0.000	0.000	
5775	156	802.11ac	OFDM	80	15.50	14.54	-0.14	0 mm	SGH ANTlower	V1	DLX2N004P57G	29.3	right	95.7	0.777	1.247	1.045	1.013	0.217	0.283	
5775	156	802.11ac	OFDM	80	15.50	14.50	-0.21	0 mm	SGH ANTlower	V2	DLX2N00LP57G	29.3	right	96.0	0.605	1.259	1.042	0.899	0.177	0.232	
5775	156	802.11ac	OFDM	80	15.50	14.54	0.00	0 mm	SGH ANTlower	V1	DLX2N004P57G	29.3	left	95.7	0.005	1.247	1.045	0.007	0.001	0.001	
5775	156	802.11ac	OFDM	80	11.50	10.80	0.20	0 mm	SGH ANTlower	V1	DLX2N004P57G	29.3	back	95.7	0.044	1.175	1.045	0.054	0.021	0.026	
5775	156	802.11ac	OFDM	80	11.50	10.80	0.11	0 mm	SGH ANTlower	V1	DLX2N004P57G	29.3	right	95.7	0.315	1.175	1.045	0.387	0.093	0.114	
5230	46	802.11n	OFDM	40	17.00	16.20	0.16	0 mm	SGH ANTlower	V1	DLX2V00LPQKX	13.5	right	98.0	0.915	1.202	1.020	1.122	0.223	0.273	
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.

FCC ID: BCGA2232	 SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1C1912170055-01-R1.BCG	Test Dates: 12/20/2019 – 02/05/2020	DUT Type: Tablet Device	Page 247 of 284

Table 10-60
WLAN 5GHz ANTupper Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate [Mbps]	Side	Duty Cycle [%]	SAR (1g) [W/kg]	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) [W/kg]	SAR (10g) [W/kg]	Reported SAR (10g) [W/kg]	Plot
MHz	Ch.																				
5230	46	802.11n	OFDM	40	17.00	16.00	-0.20	0 mm	SGHz ANTupper	V1	DLX2R010P57F	13.5	back	98.0	0.061	1.259	1.020	0.104	0.037	0.048	
5230	46	802.11n	OFDM	40	17.00	16.00	-0.20	0 mm	SGHz ANTupper	V1	DLX2R010P57F	13.5	top	98.0	0.007	1.259	1.020	0.009	0.006	0.008	
5230	46	802.11n	OFDM	40	17.00	16.00	-0.21	0 mm	SGHz ANTupper	V1	DLX2R010P57F	13.5	bottom	98.0	0.000	1.259	1.020	0.000	0.000	0.000	
5100	38	802.11n	OFDM	40	14.00	12.60	-0.12	0 mm	SGHz ANTupper	V1	DLX2R010P57F	13.5	right	98.0	0.267	1.380	1.020	0.376	0.072	0.101	
5230	46	802.11n	OFDM	40	17.00	16.00	-0.20	0 mm	SGHz ANTupper	V1	DLX2R010P57F	13.5	right	98.0	0.783	1.259	1.020	1.006	0.212	0.272	
5230	46	802.11n	OFDM	40	17.00	16.20	-0.15	0 mm	SGHz ANTupper	V2	DLX2R00Q57F	13.5	right	97.9	0.752	1.202	1.021	0.923	0.200	0.245	
5230	46	802.11n	OFDM	40	17.00	16.00	-0.20	0 mm	SGHz ANTupper	V1	DLX2R010P57F	13.5	left	98.0	0.013	1.259	1.020	0.017	0.007	0.009	
5210	42	802.11ac	OFDM	80	12.00	11.14	-0.20	0 mm	SGHz ANTupper	V1	DLX2R010P57F	29.3	back	95.7	0.022	1.219	1.045	0.028	0.012	0.015	
5210	42	802.11ac	OFDM	80	12.00	11.14	-0.16	0 mm	SGHz ANTupper	V2	DLX2R010P57F	29.3	right	95.7	0.234	1.219	1.045	0.298	0.065	0.083	
5610	122	802.11ac	OFDM	80	15.50	14.64	-0.20	0 mm	SGHz ANTupper	V2	DLX2V01HPQKX	29.3	back	95.7	0.085	1.219	1.045	0.108	0.038	0.048	
5610	122	802.11ac	OFDM	80	15.50	14.64	-0.20	0 mm	SGHz ANTupper	V2	DLX2V01HPQKX	29.3	top	95.7	0.002	1.219	1.045	0.003	0.000	0.000	
5610	122	802.11ac	OFDM	80	15.50	14.64	-0.00	0 mm	SGHz ANTupper	V2	DLX2V01HPQKX	29.3	bottom	95.7	0.000	1.219	1.045	0.000	0.000	0.000	
5610	106	802.11ac	OFDM	80	13.00	11.06	-0.21	0 mm	SGHz ANTupper	V2	DLX2V01HPQKX	29.3	right	95.7	0.299	1.563	1.045	0.488	0.081	0.132	
5610	122	802.11ac	OFDM	80	15.50	14.64	-0.05	0 mm	SGHz ANTupper	V2	DLX2V01HPQKX	29.3	right	95.7	0.617	1.219	1.045	1.041	0.232	0.296	
5610	122	802.11ac	OFDM	80	15.50	14.51	-0.16	0 mm	SGHz ANTupper	V1	DLX2V009HPQKX	29.3	right	95.7	0.758	1.256	1.045	0.995	0.217	0.285	
5600	138	802.11ac	OFDM	80	15.50	14.57	-0.00	0 mm	SGHz ANTupper	V2	DLX2V01HPQKX	29.3	right	95.7	0.742	1.239	1.045	0.961	0.206	0.267	
5610	122	802.11ac	OFDM	80	15.50	14.64	-0.20	0 mm	SGHz ANTupper	V2	DLX2V01HPQKX	29.3	left	95.7	0.009	1.219	1.045	0.011	0.006	0.008	
5610	122	802.11ac	OFDM	80	10.50	9.69	-0.20	0 mm	SGHz ANTupper	V2	DLX2V01HPQKX	29.3	back	95.7	0.027	1.205	1.045	0.034	0.014	0.018	
5610	122	802.11ac	OFDM	80	10.50	9.69	-0.03	0 mm	SGHz ANTupper	V2	DLX2V01HPQKX	29.3	right	95.7	0.206	1.205	1.045	0.259	0.055	0.069	
5775	156	802.11ac	OFDM	80	15.75	14.93	-0.08	0 mm	SGHz ANTupper	V2	DLX2N00LP57G	29.3	back	95.7	0.082	1.208	1.045	0.104	0.036	0.044	
5775	156	802.11ac	OFDM	80	15.75	14.93	-0.20	0 mm	SGHz ANTupper	V2	DLX2N00LP57G	29.3	top	95.7	0.007	1.208	1.045	0.009	0.005	0.006	
5775	156	802.11ac	OFDM	80	15.75	14.93	-0.18	0 mm	SGHz ANTupper	V2	DLX2N00LP57G	29.3	bottom	95.7	0.008	1.208	1.045	0.010	0.006	0.008	
5775	156	802.11ac	OFDM	80	15.75	14.93	-0.21	0 mm	SGHz ANTupper	V2	DLX2N00LP57G	29.3	right	95.7	0.871	1.208	1.045	1.100	0.295	0.322	
5775	156	802.11ac	OFDM	80	15.75	14.79	-0.21	0 mm	SGHz ANTupper	V1	DLX2N00LP57G	29.3	right	95.7	0.709	1.247	1.045	0.924	0.214	0.279	
5775	156	802.11ac	OFDM	80	15.75	14.93	-0.15	0 mm	SGHz ANTupper	V2	DLX2N00LP57G	29.3	left	95.7	0.034	1.208	1.045	0.038	0.008	0.010	
5775	156	802.11ac	OFDM	80	10.75	9.87	-0.13	0 mm	SGHz ANTupper	V2	DLX2N00LP57G	29.3	back	95.7	0.028	1.225	1.045	0.036	0.015	0.019	
5775	156	802.11ac	OFDM	80	10.75	9.87	-0.03	0 mm	SGHz ANTupper	V2	DLX2N00LP57G	29.3	right	95.7	0.236	1.225	1.045	0.302	0.073	0.093	
5610	122	802.11ac	OFDM	80	15.50	14.64	-0.05	0 mm	SGHz ANTupper	V2	DLX2V01HPQKX	29.3	right	95.7	0.809	1.219	1.045	1.031	0.231	0.294	
5775	156	802.11ac	OFDM	80	15.75	14.93	-0.20	0 mm	SGHz ANTupper	V2	DLX2N00LP57G	29.3	right	95.7	0.842	1.208	1.045	1.063	0.247	0.312	
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.

Table 10-61
Bluetooth Ant 2a Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Cond. Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																			
2402	0	Bluetooth	FHSS	14.50	14.19	0.10	0 mm	Ant 2a	V1	DLX2T004P57G	1	back	76.9	1.040	1.074	1.008	1.126	0.461	0.499	
2441	39	Bluetooth	FHSS	14.50	14.30	-0.20	0 mm	Ant 2a	V1	DLX2T004P57G	1	back	76.9	1.090	1.047	1.008	1.150	0.472	0.498	
2441	39	Bluetooth	FHSS	14.50	14.15	-0.20	0 mm	Ant 2a	V2	DLX2N00LP57G	1	back	76.9	0.866	1.084	1.008	0.946	0.376	0.411	
2480	78	Bluetooth	FHSS	14.50	14.12	0.04	0 mm	Ant 2a	V1	DLX2T004P57G	1	back	76.9	0.992	1.091	1.008	1.091	0.422	0.464	
2441	39	Bluetooth	FHSS	14.50	14.30	0.05	0 mm	Ant 2a	V1	DLX2T004P57G	1	top	76.9	0.025	1.047	1.008	0.026	0.011	0.012	
2441	39	Bluetooth	FHSS	14.50	14.30	0.01	0 mm	Ant 2a	V1	DLX2T004P57G	1	bottom	76.9	0.523	1.047	1.008	0.552	0.162	0.171	
2441	39	Bluetooth	FHSS	14.50	14.30	0.02	0 mm	Ant 2a	V1	DLX2T004P57G	1	right	76.9	0.723	1.047	1.008	0.763	0.251	0.265	
2441	39	Bluetooth	FHSS	14.50	14.30	0.20	0 mm	Ant 2a	V1	DLX2T004P57G	1	left	76.9	0.003	1.047	1.008	0.003	0.001	0.001	
2402	0	Bluetooth	FHSS	11.50	11.50	0.00	0 mm	Ant 2a	V1	DLX2T004P57G	1	back	76.9	0.440	1.000	1.008	0.444	0.190	0.192	
2402	0	Bluetooth	FHSS	11.50	11.50	-0.05	0 mm	Ant 2a	V1	DLX2T004P57G	1	bottom	76.9	0.223	1.000	1.008	0.225	0.068	0.069	
2402	0	Bluetooth	FHSS	11.50	11.50	-0.01	0 mm	Ant 2a	V1	DLX2T004P57G	1	right	76.9	0.302	1.000	1.008	0.304	0.105	0.106	
2441	39	Bluetooth	FHSS	7.50	7.41	0.05	0 mm	Ant 2a	V1	DLX2T004P57G	1	back	76.9	0.223	1.021	1.008	0.230	0.094	0.097	
2441	39	Bluetooth	FHSS	7.50	7.41	0.03	0 mm	Ant 2a	V1	DLX2T004P57G	1	bottom	76.9	0.108	1.021	1.008	0.111	0.033	0.034	
2441	39	Bluetooth	FHSS	7.50	7.41	0.09	0 mm	Ant 2a	V1	DLX2T004P57G	1	right	76.9	0.179	1.021	1.008	0.184	0.062	0.064	
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: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per the manufacturer.

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Table 10-62
Bluetooth Ant 4a Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Delt (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pilot
MHz	Ch.																			
2402	0	Bluetooth	FHSS	15.00	14.83	-0.01	0 mm	Ant 4a	V1	DLX2R010P57F	1	back	76.8	0.971	1.040	1.009	1.019	0.443	0.465	
2441	39	Bluetooth	FHSS	15.00	14.92	0.04	0 mm	Ant 4a	V1	DLX2R010P57F	1	back	76.8	1.130	1.019	1.009	1.182	0.497	0.511	A20
2441	39	Bluetooth	FHSS	15.00	14.05	0.07	0 mm	Ant 4a	V2	DLX2R00TP57F	1	back	76.9	0.853	1.245	1.008	1.070	0.372	0.467	
2480	78	Bluetooth	FHSS	15.00	14.73	0.14	0 mm	Ant 4a	V1	DLX2R010P57F	1	back	76.8	0.916	1.064	1.009	0.983	0.406	0.436	
2441	39	Bluetooth	FHSS	15.00	14.92	0.00	0 mm	Ant 4a	V1	DLX2R010P57F	1	top	76.8	0.633	1.019	1.009	0.651	0.194	0.199	
2441	39	Bluetooth	FHSS	15.00	14.92	0.13	0 mm	Ant 4a	V1	DLX2R010P57F	1	bottom	76.8	0.032	1.019	1.009	0.033	0.014	0.014	
2441	39	Bluetooth	FHSS	15.00	14.92	0.19	0 mm	Ant 4a	V1	DLX2R010P57F	1	right	76.8	0.005	1.019	1.009	0.005	0.002	0.002	
2402	0	Bluetooth	FHSS	15.00	14.83	0.05	0 mm	Ant 4a	V1	DLX2R010P57F	1	left	76.8	0.631	1.040	1.009	0.662	0.226	0.237	
2441	39	Bluetooth	FHSS	15.00	14.92	0.02	0 mm	Ant 4a	V1	DLX2R010P57F	1	left	76.8	0.845	1.019	1.009	0.869	0.295	0.303	
2480	78	Bluetooth	FHSS	15.00	14.73	0.03	0 mm	Ant 4a	V1	DLX2R010P57F	1	left	76.8	0.736	1.064	1.009	0.790	0.255	0.274	
2480	78	Bluetooth	FHSS	8.00	7.97	0.02	0 mm	Ant 4a	V1	DLX2R010P57F	1	back	76.8	0.291	1.007	1.009	0.296	0.122	0.124	
2480	78	Bluetooth	FHSS	8.00	7.97	-0.03	0 mm	Ant 4a	V1	DLX2R010P57F	1	top	76.8	0.135	1.007	1.009	0.137	0.039	0.040	
2480	78	Bluetooth	FHSS	8.00	7.97	0.01	0 mm	Ant 4a	V1	DLX2R010P57F	1	left	76.8	0.182	1.007	1.009	0.185	0.064	0.065	
2441	39	Bluetooth	FHSS	15.00	14.92	0.04	0 mm	Ant 4a	V1	DLX2R010P57F	1	back	76.8	1.110	1.019	1.009	1.131	0.479	0.488	
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: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per the manufacturer.

Note: Blue entry represents variability measurement.

10.2 SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 616217 D04v01r02 and FCC KDB Publication 447498 D01v06.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- 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.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 12 for variability analysis.
- FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D01v06 was applied to determine SAR test exclusion for adjacent edge configurations.

GSM Test Notes:

- 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 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.
- 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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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 7.5.4.
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 LTE Band 41 SAR and LTE Band 48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not > 0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. 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 13 for linearity results.
8. For intra-band LTE Band 7, LTE Band 5, 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. For inter-band uplink carrier aggregation, additional SAR Measurements were performed for some positions at the maximum allowed output power in inter-band ULCA mode. All single uplink 1g SAR values for each band were < 0.8 W/kg and the algebraic summation of the 1g SAR inter-band ULCA values were < 1.45 . Per Fall 2018 TCB Workshop notes, no additional measurements were required.
10. 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.

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WLAN Notes:

1. 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 7.6.4 for more information.
2. 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 7.6.5 for more information.
3. 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 11 for complete analysis.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8 MHz, VBW = 50 MHz, and detector = peak per guidance of Section 6.0 b) of ANSI C63. 10-2013 and KDB 558074 D01 v04. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100.

Bluetooth Notes:

1. Bluetooth SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is limited to 77.5% per the manufacturer. See Section 8.6 for the time domain plot and calculation for the duty factor of the device.

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11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 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.

11.2 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 SAR.

Note:

SAR Summations for some scenarios when the output power levels are reduced, SAR values at the maximum output power level were used as the most conservative evaluation for simultaneous transmission analysis.

For each position, the highest SAR value across all modes for the applicable cellular band antenna was considered for summation to determine simultaneous SAR test exclusion.

*The SAR distributions for at least one of the antennas are spatially separated from the other antennas per FCC KDB Publication 248227 Section 6.1 procedures. Therefore, the simultaneous transmission were treated independently for this configuration. See section 11.4 for more information about the Spatial Separation Analysis.

11.3 Body SAR Simultaneous Transmission Analysis

Table 11-1
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.029	1.119	1.102	1.119*	1.102*	1.119*
	Top	0.050	0.021	0.484	0.071	0.534	0.555
	Bottom	0.584	0.520	0.023	1.104	0.607	1.127
	Right	0.008	0.625	0.004	0.633	0.012	0.637
	Left	1.188	0.002	0.613	1.190	1.188*	1.190*

Table 11-2
Cellular Band Ant 2A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2a SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 7dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	0.211	1.102	1.399	1.188*	1.399*
	Top	0.025	0.021	0.484	0.046	0.509	0.530
	Bottom	0.559	0.109	0.023	0.668	0.582	0.691
	Right	0.981	0.122	0.004	1.103	0.985	1.107
	Left	0.005	0.002	0.613	0.007	0.618	0.620

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Table 11-3
Cellular Band Ant 2B Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2b SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 7dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.187	0.211	1.102	1.398	1.187*	1.398*
	Top	0.005	0.021	0.484	0.026	0.489	0.510
	Bottom	0.767	0.109	0.023	0.876	0.790	0.899
	Right	0.076	0.122	0.004	0.198	0.080	0.202
	Left	0.028	0.002	0.613	0.030	0.641	0.643

Table 11-4
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 3 SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.121	1.119	1.102	1.121*	1.121*	1.121*
	Top	0.843	0.021	0.484	0.864	1.327	1.348
	Bottom	0.042	0.520	0.023	0.562	0.065	0.585
	Right	1.184	0.625	0.004	1.184*	1.188	1.188*
	Left	0.010	0.002	0.613	0.012	0.623	0.625

Table 11-5
Cellular Band Ant 4A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 4a SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	1.119	0.141	1.188*	1.329	1.329*
	Top	0.586	0.021	0.100	0.607	0.686	0.707
	Bottom	0.028	0.520	0.023	0.548	0.051	0.571
	Right	0.003	0.625	0.004	0.628	0.007	0.632
	Left	0.945	0.002	0.126	0.947	1.071	1.073

Table 11-6
Cellular Band Ant 4B Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 4b SAR (W/kg)	2.4 GHz WLAN Ant 2a SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.183	1.119	0.141	1.183*	1.324	1.324*
	Top	0.704	0.021	0.100	0.725	0.804	0.825
	Bottom	0.005	0.520	0.023	0.525	0.028	0.548
	Right	0.025	0.625	0.004	0.650	0.029	0.654
	Left	0.057	0.002	0.126	0.059	0.183	0.185

Table 11-7
Cellular Band Ant 1 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.029	0.129	0.108	1.158	1.137	1.266
	Top	0.050	0.000	0.009	0.050	0.059	0.059
	Bottom	0.584	0.006	0.010	0.590	0.594	0.600
	Right	0.008	1.127	1.100	1.135	1.108	1.135*
	Left	1.188	0.013	0.018	1.201	1.206	1.219

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Table 11-8
Cellular Band Ant 2A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2a SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	0.054	0.108	1.242	1.296	1.350
	Top	0.025	0.000	0.009	0.025	0.034	0.034
	Bottom	0.559	0.006	0.010	0.565	0.569	0.575
	Right	0.981	0.387	1.100	1.368	1.100*	1.368*
	Left	0.005	0.013	0.018	0.018	0.023	0.036

Table 11-9
Cellular Band Ant 2B Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2b SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.187	0.129	0.108	1.316	1.295	1.424
	Top	0.005	0.000	0.009	0.005	0.014	0.014
	Bottom	0.767	0.006	0.010	0.773	0.777	0.783
	Right	0.076	1.127	1.100	1.203	1.176	1.203*
	Left	0.028	0.013	0.018	0.041	0.046	0.059

Table 11-10
Cellular Band Ant 3 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 3 SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.121	0.129	0.036	1.250	1.157	1.286
	Top	0.843	0.000	0.009	0.843	0.852	0.852
	Bottom	0.042	0.006	0.010	0.048	0.052	0.058
	Right	1.184	1.127	0.302	1.184*	1.486	1.486*
	Left	0.010	0.013	0.018	0.023	0.028	0.041

Table 11-11
Cellular Band Ant 4A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 4a SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	0.129	0.108	1.317	1.296	1.425
	Top	0.586	0.000	0.009	0.586	0.595	0.595
	Bottom	0.028	0.006	0.010	0.034	0.038	0.044
	Right	0.003	1.127	1.100	1.130	1.103	1.130*
	Left	0.945	0.013	0.018	0.958	0.963	0.976

Table 11-12
Cellular Band Ant 4B Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 4b SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.183	0.129	0.108	1.312	1.291	1.420
	Top	0.704	0.000	0.009	0.704	0.713	0.713
	Bottom	0.005	0.006	0.010	0.011	0.015	0.021
	Right	0.025	1.127	1.100	1.152	1.125	1.152*
	Left	0.057	0.013	0.018	0.070	0.075	0.088

Table 11-13
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 1 SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.029	0.230	1.162	1.259	1.162*	1.162*
	Top	0.050	0.026	0.651	0.076	0.701	0.727
	Bottom	0.584	0.111	0.033	0.695	0.617	0.728
	Right	0.008	0.184	0.005	0.192	0.013	0.197
	Left	1.188	0.003	0.869	1.191	1.188*	1.191*

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Table 11-14
Cellular Band Ant 2A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 2a SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	0.230	1.162	1.418	1.188*	1.418*
	Top	0.025	0.026	0.651	0.051	0.676	0.702
	Bottom	0.559	0.111	0.033	0.670	0.592	0.703
	Right	0.981	0.184	0.005	1.165	0.986	1.170
	Left	0.005	0.003	0.869	0.008	0.874	0.877

Table 11-15
Cellular Band Ant 2B Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 2b SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.187	0.230	1.162	1.417	1.187*	1.417*
	Top	0.005	0.026	0.651	0.031	0.656	0.682
	Bottom	0.767	0.111	0.033	0.878	0.800	0.911
	Right	0.076	0.184	0.005	0.260	0.081	0.265
	Left	0.028	0.003	0.869	0.031	0.897	0.900

Table 11-16
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 3 SAR (W/kg)	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.121	1.150	0.296	1.150*	1.417	1.150*
	Top	0.843	0.026	0.137	0.869	0.980	1.006
	Bottom	0.042	0.552	0.033	0.594	0.075	0.627
	Right	1.184	0.763	0.005	1.184*	1.189	1.189*
	Left	0.010	0.003	0.185	0.013	0.195	0.198

Table 11-17
Cellular Band Ant 4A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 4a SAR (W/kg)	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	1.150	0.296	1.188*	1.484	1.484*
	Top	0.586	0.026	0.137	0.612	0.723	0.749
	Bottom	0.028	0.552	0.033	0.580	0.061	0.613
	Right	0.003	0.763	0.005	0.766	0.008	0.771
	Left	0.945	0.003	0.185	0.948	1.130	1.133

Table 11-18
Cellular Band Ant 4B Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 4b SAR (W/kg)	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.183	1.150	0.296	1.183*	1.479	1.479*
	Top	0.704	0.026	0.137	0.730	0.841	0.867
	Bottom	0.005	0.552	0.033	0.557	0.038	0.590
	Right	0.025	0.763	0.005	0.788	0.030	0.793
	Left	0.057	0.003	0.185	0.060	0.242	0.245

Table 11-19
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 1 SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.029	0.230	1.162	0.129	0.108	1.270*
	Top	0.050	0.026	0.651	0.000	0.009	0.736
	Bottom	0.584	0.111	0.033	0.006	0.010	0.744
	Right	0.008	0.184	0.005	1.127	1.100	1.324*
	Left	1.188	0.003	0.869	0.013	0.018	1.222*

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Table 11-20

Cellular Band Ant 2A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 2a SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.188	0.230	1.162	0.054	0.108	1.472*
	Top	0.025	0.026	0.651	0.000	0.009	0.711
	Bottom	0.559	0.111	0.033	0.006	0.010	0.719
	Right	0.981	0.184	0.005	0.387	1.100	1.557*
	Left	0.005	0.003	0.869	0.013	0.018	0.908

Table 11-21

Cellular Band Ant 2B Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 2b SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.187	0.230	1.162	0.129	0.108	1.546*
	Top	0.005	0.026	0.651	0.000	0.009	0.691
	Bottom	0.767	0.111	0.033	0.006	0.010	0.927
	Right	0.076	0.184	0.005	1.127	1.100	1.392*
	Left	0.028	0.003	0.869	0.013	0.018	0.931

Table 11-22

Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 3 SAR (W/kg)	Bluetooth Ant 2a at 11.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.121	0.444	0.296	0.129	0.036	1.286*
	Top	0.843	0.026	0.137	0.000	0.009	1.015
	Bottom	0.042	0.225	0.033	0.006	0.010	0.316
	Right	1.184	0.304	0.005	1.127	0.302	1.491*
	Left	0.010	0.003	0.185	0.013	0.018	0.229

Table 11-23

Cellular Band Ant 4A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 4a SAR (W/kg)	Bluetooth Ant 2a at 11.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.188	0.444	0.296	0.129	0.108	1.592*
	Top	0.586	0.026	0.137	0.000	0.009	0.758
	Bottom	0.028	0.225	0.033	0.006	0.010	0.302
	Right	0.003	0.304	0.005	1.127	1.100	1.439*
	Left	0.945	0.003	0.185	0.013	0.018	1.164

Table 11-24

Cellular Band Ant 4B Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 4b SAR (W/kg)	Bluetooth Ant 2a at 11.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	WLAN 5GHz ANTlower SAR (W/kg)	WLAN 5GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.183	0.444	0.296	0.129	0.108	1.587*
	Top	0.704	0.026	0.137	0.000	0.009	0.876
	Bottom	0.005	0.225	0.033	0.006	0.010	0.279
	Right	0.025	0.304	0.005	1.127	1.100	1.461*
	Left	0.057	0.003	0.185	0.013	0.018	0.276

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Table 11-25

Inter-band ULCA Cellular Band Ant 1 and 2A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 2a Inter-band ULCA Active SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 7dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.382	0.650	0.211	0.141	1.243	1.173	1.384
	Top	0.050	0.023	0.021	0.100	0.094	0.173	0.194
	Bottom	0.584	0.559	0.109	0.023	1.252	1.166	1.275
	Right	0.007	0.511	0.122	0.004	0.640	0.522	0.644
	Left	0.693	0.005	0.002	0.126	0.700	0.824	0.826

Table 11-26

Inter-band ULCA Cellular Band Ant 1 and 4A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 7dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.382	0.566	0.211	0.141	1.159	1.089	1.300
	Top	0.050	0.516	0.021	0.100	0.587	0.666	0.687
	Bottom	0.584	0.023	0.109	0.023	0.716	0.630	0.739
	Right	0.007	0.003	0.122	0.004	0.132	0.014	0.136
	Left	0.693	0.572	0.002	0.126	1.267	1.391	1.393

Table 11-27

Inter-band ULCA Cellular Band Ant 1 and 4B Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4b Inter-band ULCA Active SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 7dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.382	0.597	0.211	0.141	1.190	1.120	1.331
	Top	0.050	0.704	0.021	0.100	0.775	0.854	0.875
	Bottom	0.584	0.005	0.109	0.023	0.698	0.612	0.721
	Right	0.007	0.025	0.122	0.004	0.154	0.036	0.158
	Left	0.693	0.057	0.002	0.126	0.752	0.876	0.878

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Table 11-28

Inter-band ULCA Cellular Band Ant 2A and 3 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2a Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 7dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.650	0.509	0.211	0.141	1.370	1.300	1.511
	Top	0.023	0.730	0.021	0.100	0.774	0.853	0.874
	Bottom	0.559	0.042	0.109	0.023	0.710	0.624	0.733
	Right	0.511	0.647	0.122	0.004	1.280	1.162	1.284
	Left	0.005	0.008	0.002	0.126	0.015	0.139	0.141

Table 11-29

Inter-band ULCA Cellular Band Ant 2B and 3 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2b Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 7dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.554	0.509	0.211	0.141	1.274	1.204	1.415
	Top	0.005	0.730	0.021	0.100	0.756	0.835	0.856
	Bottom	0.767	0.042	0.109	0.023	0.918	0.832	0.941
	Right	0.059	0.647	0.122	0.004	0.828	0.710	0.832
	Left	0.028	0.008	0.002	0.126	0.038	0.162	0.164

Table 11-30

Inter-band ULCA Cellular Band Ant 3 and 4A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active SAR (W/kg)	2.4 GHz WLAN Ant 2a Reduced at 7dBm SAR (W/kg)	2.4 GHz WLAN Ant 4a Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.509	0.566	0.211	0.141	1.286	1.216	1.427
	Top	0.730	0.516	0.021	0.100	1.267	1.346	1.367
	Bottom	0.042	0.023	0.109	0.023	0.174	0.088	0.197
	Right	0.647	0.003	0.122	0.004	0.772	0.654	0.776
	Left	0.008	0.572	0.002	0.126	0.582	0.706	0.708

Table 11-31

Inter-band ULCA Cellular Band Ant 1 and 2A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 2a Inter-band ULCA Active SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.382	0.650	0.054	0.036	1.086	1.068	1.122
	Top	0.050	0.023	0.000	0.009	0.073	0.082	0.082
	Bottom	0.584	0.559	0.006	0.010	1.149	1.153	1.159
	Right	0.007	0.511	0.387	0.302	0.905	0.820	1.207
	Left	0.693	0.005	0.013	0.018	0.711	0.716	0.729

Table 11-32

Inter-band ULCA Cellular Band Ant 1 and 4A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.382	0.566	0.054	0.036	1.002	0.984	1.038
	Top	0.050	0.516	0.000	0.009	0.566	0.575	0.575
	Bottom	0.584	0.023	0.006	0.010	0.613	0.617	0.623
	Right	0.007	0.003	0.387	0.302	0.397	0.312	0.699
	Left	0.693	0.572	0.013	0.018	1.278	1.283	1.296

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Table 11-33

Inter-band ULCA Cellular Band Ant 1 and 4B Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4b Inter-band ULCA Active SAR (W/kg)	WLAN 5GHz ANTLower Reduced SAR (W/kg)	WLAN 5GHz ANTUpper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.382	0.597	0.054	0.036	1.033	1.015	1.069
	Top	0.050	0.704	0.000	0.009	0.754	0.763	0.763
	Bottom	0.584	0.005	0.006	0.010	0.595	0.599	0.605
	Right	0.007	0.025	0.387	0.302	0.419	0.334	0.721
	Left	0.693	0.057	0.013	0.018	0.763	0.768	0.781

Table 11-34

Inter-band ULCA Cellular Band Ant 2A and 3 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2a Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	WLAN 5GHz ANTLower Reduced SAR (W/kg)	WLAN 5GHz ANTUpper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.650	0.509	0.054	0.036	1.213	1.195	1.249
	Top	0.023	0.730	0.000	0.009	0.753	0.762	0.762
	Bottom	0.559	0.042	0.006	0.010	0.607	0.611	0.617
	Right	0.511	0.647	0.387	0.302	1.545	1.460	0.949*
	Left	0.005	0.008	0.013	0.018	0.026	0.031	0.044

Table 11-35

Inter-band ULCA Cellular Band Ant 2B and 3 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2b Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	WLAN 5GHz ANTLower Reduced SAR (W/kg)	WLAN 5GHz ANTUpper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.554	0.509	0.054	0.036	1.117	1.099	1.153
	Top	0.005	0.730	0.000	0.009	0.735	0.744	0.744
	Bottom	0.767	0.042	0.006	0.010	0.815	0.819	0.825
	Right	0.059	0.647	0.387	0.302	1.093	1.008	1.395
	Left	0.028	0.008	0.013	0.018	0.049	0.054	0.067

Table 11-36

Inter-band ULCA Cellular Band Ant 3 and 4A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active SAR (W/kg)	WLAN 5GHz ANTLower Reduced SAR (W/kg)	WLAN 5GHz ANTUpper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.509	0.566	0.054	0.036	1.129	1.111	1.165
	Top	0.730	0.516	0.000	0.009	1.246	1.255	1.255
	Bottom	0.042	0.023	0.006	0.010	0.071	0.075	0.081
	Right	0.647	0.003	0.387	0.302	1.037	0.952	1.339
	Left	0.008	0.572	0.013	0.018	0.593	0.598	0.611

Table 11-37

Inter-band ULCA Cellular Band Ant 1 and 2A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 2a Inter-band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.382	0.650	0.230	0.296	1.262	1.328	1.558
	Top	0.050	0.023	0.026	0.137	0.099	0.210	0.236
	Bottom	0.584	0.559	0.111	0.033	1.254	1.176	1.287
	Right	0.007	0.511	0.184	0.005	0.702	0.523	0.707
	Left	0.693	0.005	0.003	0.185	0.701	0.883	0.886

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Table 11-38

Inter-band ULCA Cellular Band Ant 1 and 4A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.382	0.566	0.230	0.296	1.178	1.244	1.474
	Top	0.050	0.516	0.026	0.137	0.592	0.703	0.729
	Bottom	0.584	0.023	0.111	0.033	0.718	0.640	0.751
	Right	0.007	0.003	0.184	0.005	0.194	0.015	0.199
	Left	0.693	0.572	0.003	0.185	1.268	1.450	1.453

Table 11-39

Inter-band ULCA Cellular Band Ant 1 and 4B Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4b Inter-band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.382	0.597	0.230	0.296	1.209	1.275	1.505
	Top	0.050	0.704	0.026	0.137	0.780	0.891	0.917
	Bottom	0.584	0.005	0.111	0.033	0.700	0.622	0.733
	Right	0.007	0.025	0.184	0.005	0.216	0.037	0.221
	Left	0.693	0.057	0.003	0.185	0.753	0.935	0.938

Table 11-40

Inter-band ULCA Cellular Band Ant 2A and 3 Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 2a Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.650	0.509	0.230	0.296	1.389	1.455	0.880*
	Top	0.023	0.730	0.026	0.137	0.779	0.890	0.916
	Bottom	0.559	0.042	0.111	0.033	0.712	0.634	0.745
	Right	0.511	0.647	0.184	0.005	1.342	1.163	1.347
	Left	0.005	0.008	0.003	0.185	0.016	0.198	0.201

Table 11-41

Inter-band ULCA Cellular Band Ant 2B and 3 Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 2b Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.554	0.509	0.230	0.296	1.293	1.359	1.589
	Top	0.005	0.730	0.026	0.137	0.761	0.872	0.898
	Bottom	0.767	0.042	0.111	0.033	0.920	0.842	0.953
	Right	0.059	0.647	0.184	0.005	0.890	0.711	0.895
	Left	0.028	0.008	0.003	0.185	0.039	0.221	0.224

Table 11-42

Inter-band ULCA Cellular Band Ant 3 and 4A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3	1+2+4	1+2+3+4
Body SAR	Back	0.509	0.566	0.230	0.296	1.305	1.371	0.862*
	Top	0.730	0.516	0.026	0.137	1.272	1.383	1.409
	Bottom	0.042	0.023	0.111	0.033	0.176	0.098	0.209
	Right	0.647	0.003	0.184	0.005	0.834	0.655	0.839
	Left	0.008	0.572	0.003	0.185	0.583	0.765	0.768

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Table 11-43

Inter-band ULCA Cellular Band Ant 1 and 2A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 2a Inter-band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.382	0.650	0.230	0.296	0.054	0.036	0.934*
	Top	0.050	0.023	0.026	0.137	0.000	0.009	0.245
	Bottom	0.584	0.559	0.111	0.033	0.006	0.010	1.303
	Right	0.007	0.511	0.184	0.005	0.387	0.302	1.396
	Left	0.693	0.005	0.003	0.185	0.013	0.018	0.917

Table 11-44

Inter-band ULCA Cellular Band Ant 1 and 4A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.382	0.566	0.230	0.296	0.054	0.036	1.564
	Top	0.050	0.516	0.026	0.137	0.000	0.009	0.738
	Bottom	0.584	0.023	0.111	0.033	0.006	0.010	0.767
	Right	0.007	0.003	0.184	0.005	0.387	0.302	0.888
	Left	0.693	0.572	0.003	0.185	0.013	0.018	1.484

Table 11-45

Inter-band ULCA Cellular Band Ant 1 and 4B Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 1 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4b Inter-band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.382	0.597	0.230	0.296	0.054	0.036	1.069*
	Top	0.050	0.704	0.026	0.137	0.000	0.009	0.926
	Bottom	0.584	0.005	0.111	0.033	0.006	0.010	0.749
	Right	0.007	0.025	0.184	0.005	0.387	0.302	0.910
	Left	0.693	0.057	0.003	0.185	0.013	0.018	0.969

Table 11-46

Inter-band ULCA Cellular Band Ant 2A and 3 Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 2a Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.650	0.509	0.230	0.296	0.054	0.036	0.934*
	Top	0.023	0.730	0.026	0.137	0.000	0.009	0.925
	Bottom	0.559	0.042	0.111	0.033	0.006	0.010	0.761
	Right	0.511	0.647	0.184	0.005	0.387	0.302	1.087*
	Left	0.005	0.008	0.003	0.185	0.013	0.018	0.232

Table 11-47

Inter-band ULCA Cellular Band Ant 2B and 3 Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 2b Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	WLAN 5GHz ANTlower Reduced SAR (W/kg)	WLAN 5GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.554	0.509	0.230	0.296	0.054	0.036	1.117*
	Top	0.005	0.730	0.026	0.137	0.000	0.009	0.907
	Bottom	0.767	0.042	0.111	0.033	0.006	0.010	0.969
	Right	0.059	0.647	0.184	0.005	0.387	0.302	1.013*
	Left	0.028	0.008	0.003	0.185	0.013	0.018	0.255

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Table 11-48

Inter-band ULCA Cellular Band Ant 3 and 4A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Antenna 3 Inter-band ULCA Active SAR (W/kg)	Cellular Band Antenna 4a Inter-band ULCA Active SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	WLAN 5GHz ANTLower Reduced SAR (W/kg)	WLAN 5GHz ANTUpper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.509	0.566	0.230	0.296	0.054	0.036	0.898*
	Top	0.730	0.516	0.026	0.137	0.000	0.009	1.418
	Bottom	0.042	0.023	0.111	0.033	0.006	0.010	0.225
	Right	0.647	0.003	0.184	0.005	0.387	0.302	0.957*
	Left	0.008	0.572	0.003	0.185	0.013	0.018	0.799

Table 11-49

2.4 GHz Bluetooth MIMO Simultaneous Transmission Scenario with 5 GHz WLAN MIMO

Simult Tx	Configuration	Bluetooth Ant 2a at 11.5 dBm SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	WLAN 5GHz ANTLower SAR (W/kg)	WLAN 5GHz ANTUpper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.444	1.162	0.129	0.108	1.270*
	Top	0.026	0.651	0.000	0.009	0.686
	Bottom	0.225	0.033	0.006	0.010	0.274
	Right	0.304	0.005	1.127	1.100	1.436*
	Left	0.003	0.869	0.013	0.018	0.903

Table 11-50

Simultaneous Transmission Scenario with 2.4 GHz Bluetooth

Simult Tx	Configuration	Bluetooth Ant 2a SAR (W/kg)	Bluetooth Ant 4a SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body SAR	Back	1.150	1.162	1.162*
	Top	0.026	0.651	0.677
	Bottom	0.552	0.033	0.585
	Right	0.763	0.005	0.768
	Left	0.003	0.869	0.872

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11.4 Spatial Separation Analysis

Per FCC KDB Publication 248227, antennas may be considered spatially separated when the aggregate SAR from multiple antennas at any location in the combined SAR distribution is either ≤ 1.2 W/kg where at least 90% of the SAR is attributed to a single SAR distribution or ≤ 0.4 W/kg where no more than one SAR distribution is contributing > 0.1 W/kg.

Spatial separation was determined by inspection of the area scan SAR distributions to confirm that at all locations, SAR was < 1.2 W/kg, where at least 90% of the SAR is attributed to a single SAR distribution. See below for illustrations of the spatial separated antennas considered.

11.4.1 Back Side Spatial Separation Analysis

Figure 11-1
Back Side Spatial Separation for Antenna 1 and Antenna 2A

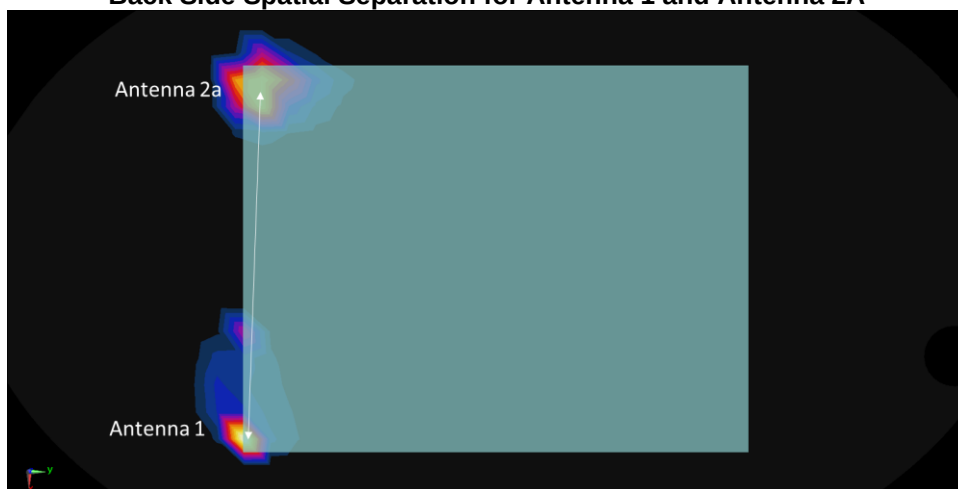
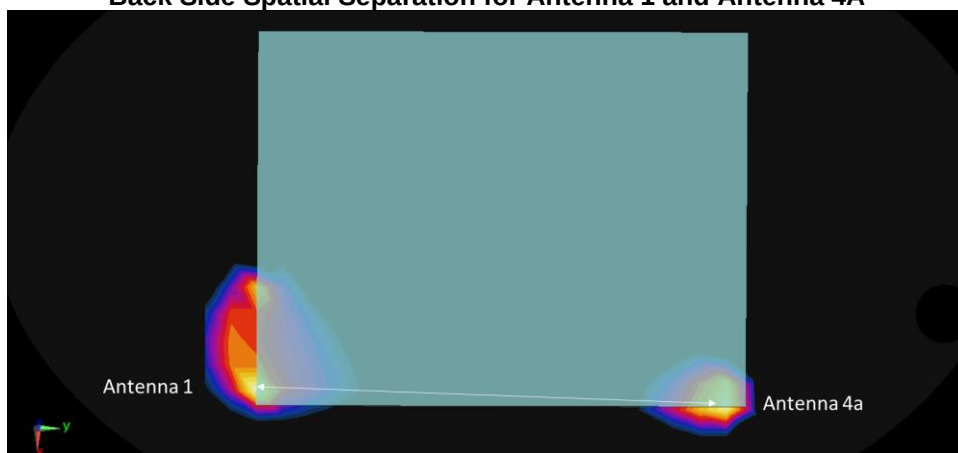


Figure 11-2
Back Side Spatial Separation for Antenna 1 and Antenna 4A



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Figure 11-3
Back Side Spatial Separation for Antenna 2A and Antenna 4A

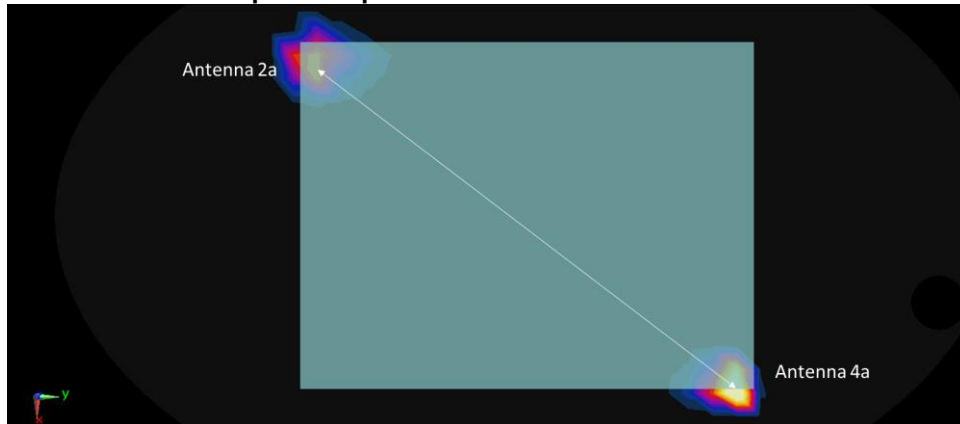
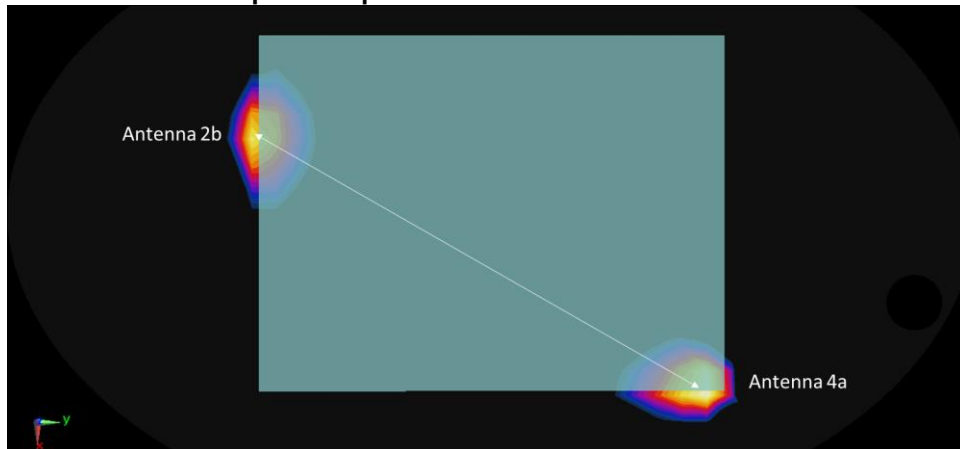


Figure 11-4
Back Side Spatial Separation for Antenna 2B and Antenna 4A



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Figure 11-5
Back Side Spatial Separation for Antenna 2A and 5GHz ANTupper

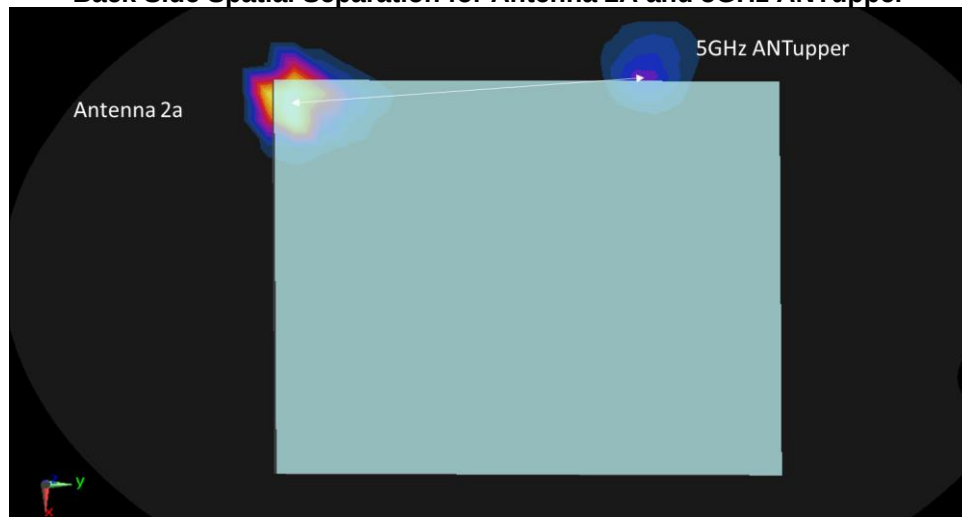
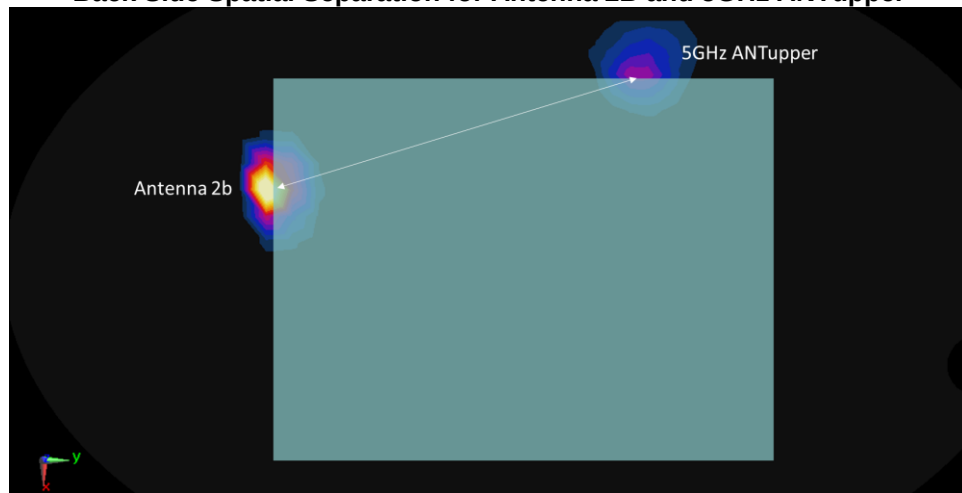


Figure 11-6
Back Side Spatial Separation for Antenna 2B and 5GHz ANTupper



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Figure 11-7
Back Side Spatial Separation for Antenna 3 and Antenna 2A

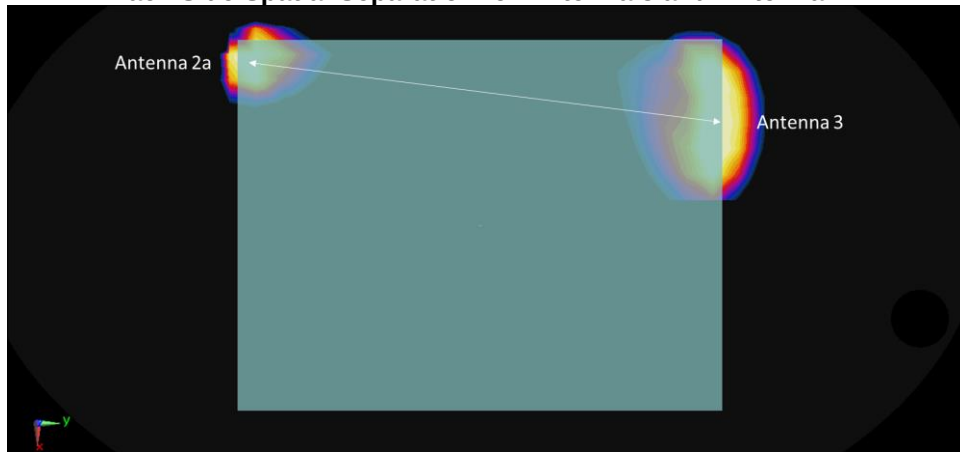


Figure 11-8
Back Side Spatial Separation for Antenna 3 and Antenna 4A

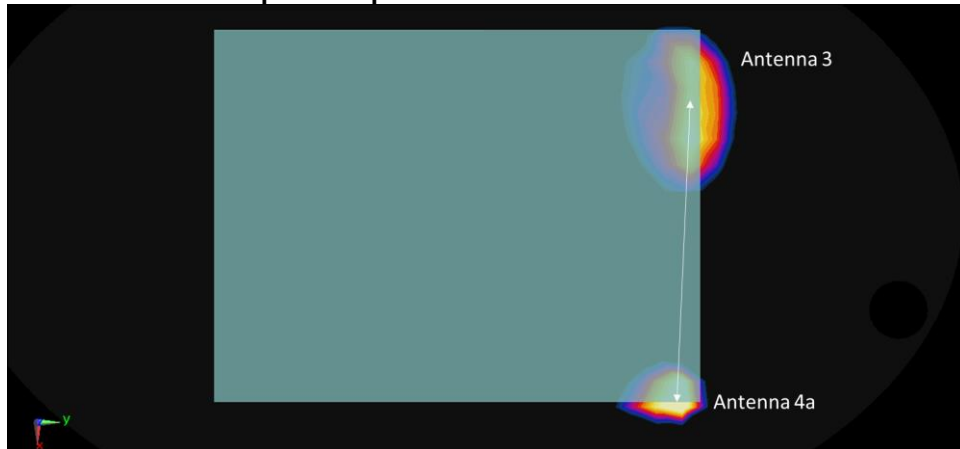
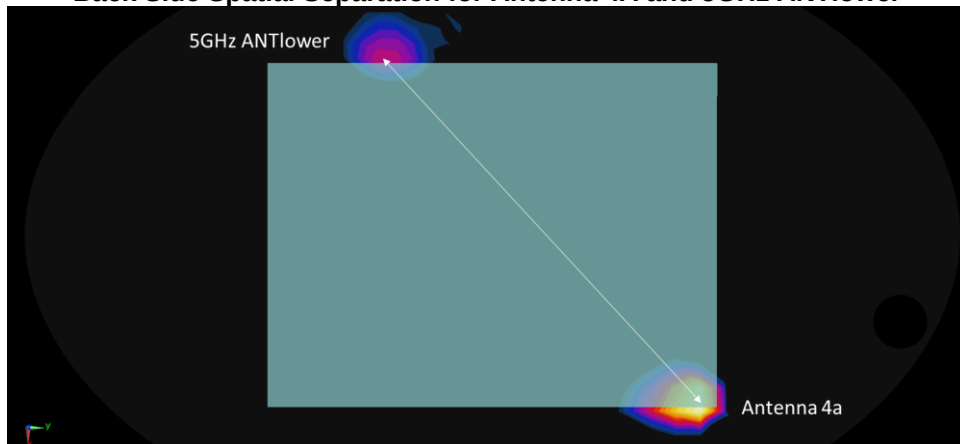
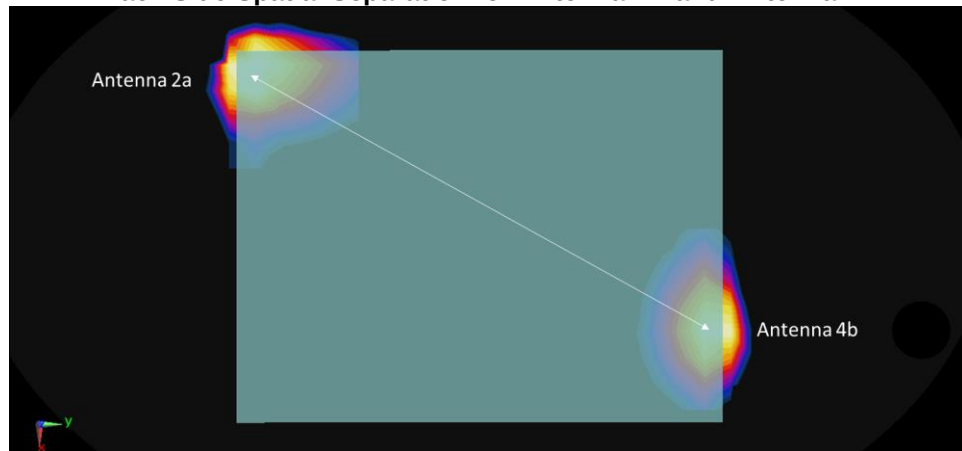


Figure 11-9
Back Side Spatial Separation for Antenna 4A and 5GHz ANTlower



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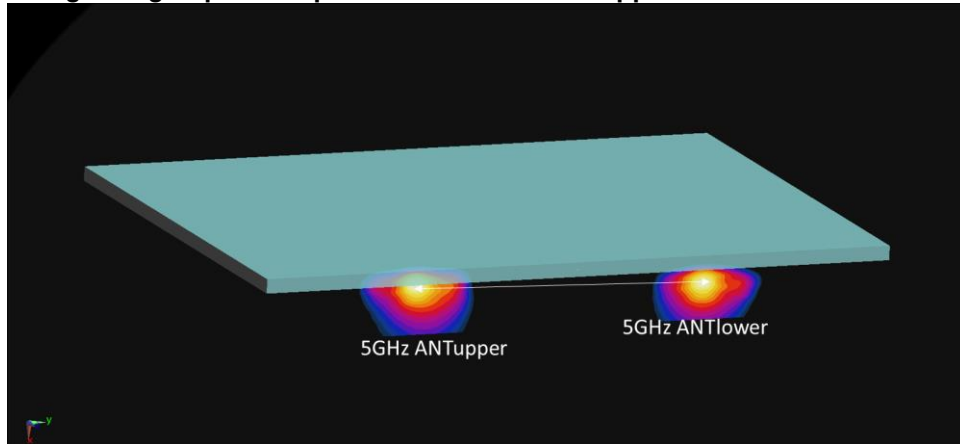
Figure 11-10
Back Side Spatial Separation for Antenna 4B and Antenna 2A



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11.4.2 Right Edge Spatial Separation Analysis

Figure 11-11
Right Edge Spatial Separation for 5GHz ANTupper and 5GHz ANTlower



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Figure 11-12
Right Edge Spatial Separation for 5GHz ANTupper and Antenna 2A

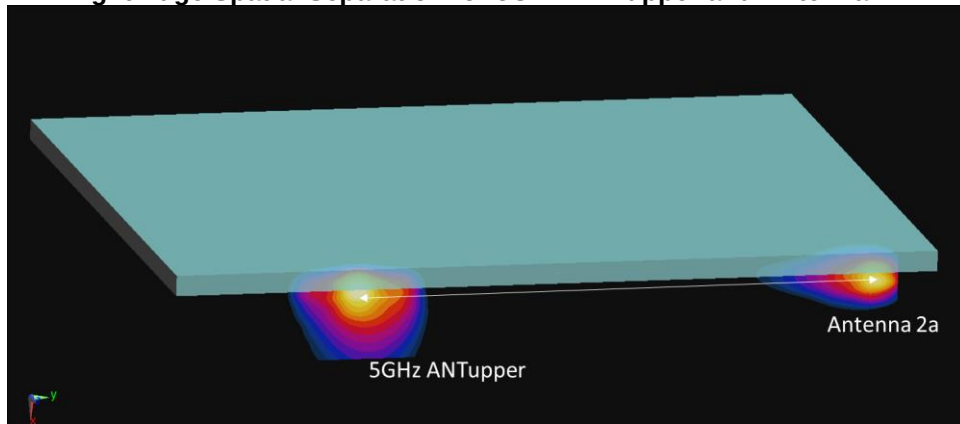


Figure 11-13
Right Edge Spatial Separation for Antenna 3 and 5GHz ANTlower

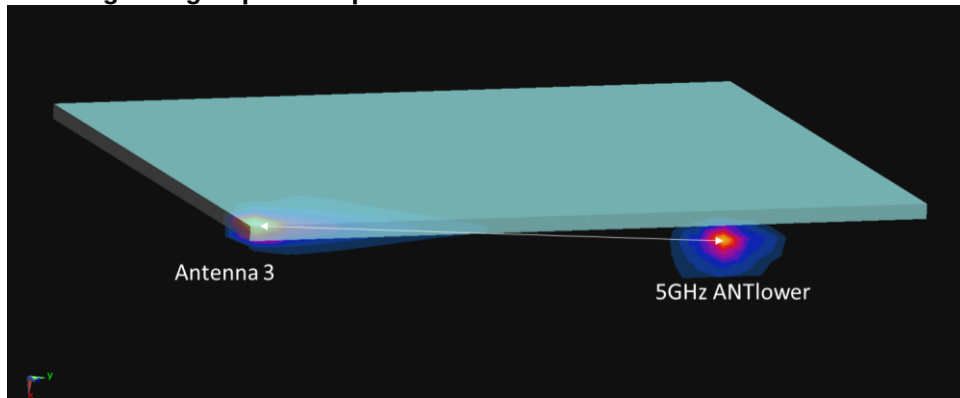
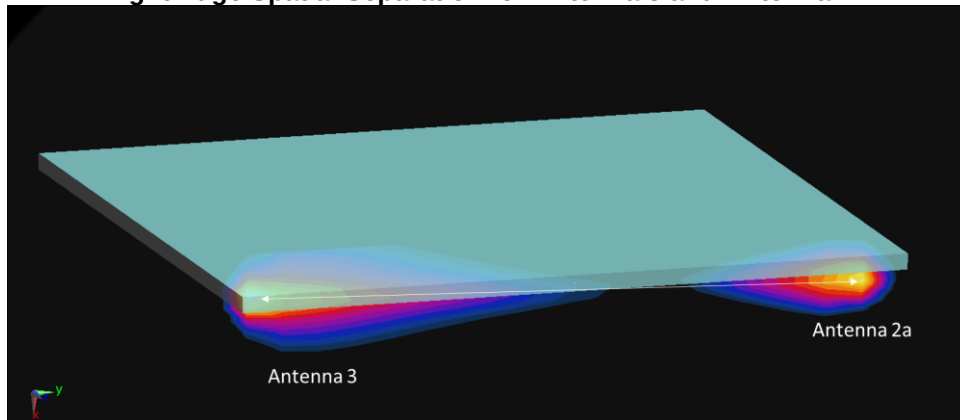


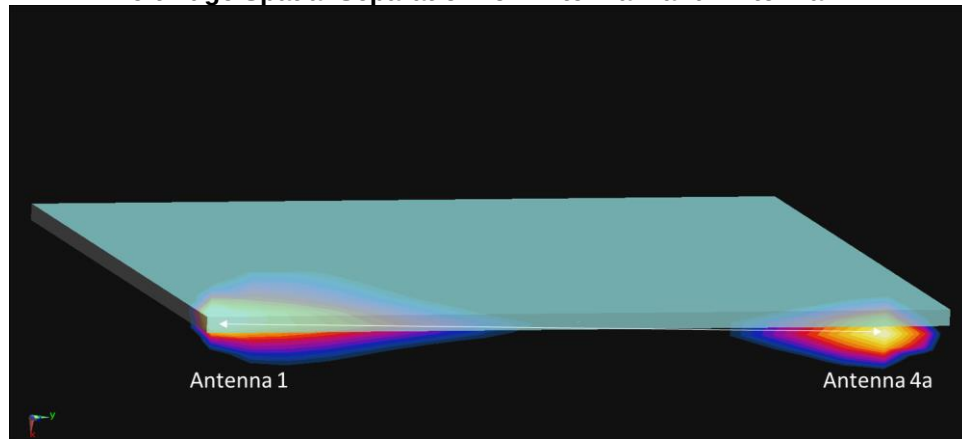
Figure 11-14
Right Edge Spatial Separation for Antenna 3 and Antenna 2A



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11.4.3 Left Edge Spatial Separation Analysis

Figure 11-15
Left Edge Spatial Separation for Antenna 1 and Antenna 4A



11.5 Simultaneous Transmission Conclusion

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

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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

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

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

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

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Antenna	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	3rd Repeated SAR (1g)
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)	(W/kg)
750	707.50	23095	LTE Band 12, 10 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Ant 1	N/A	left	0 mm	1.080	1.000	1.08	N/A	N/A
835	836.50	20525	LTE Band 5 (Cell), 10 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Ant 1	N/A	left	0 mm	1.160	1.130	1.03	N/A	N/A
1750	1720.00	132072	LTE Band 66 (AWS), 20 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Ant 2a	N/A	back	0 mm	1.170	1.070	1.09	N/A	N/A
1900	1907.60	9538	UMTS 1900	RMC	Ant 2b	N/A	back	0 mm	1.160	1.050	1.10	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Ant 4b	N/A	back	0 mm	1.020	0.975	1.05	N/A	N/A
2450	2441.00	39	Bluetooth	FHSS	Ant 4a	1	back	0 mm	1.130	1.110	1.02	N/A	N/A
2600	2549.50	40185	LTE Band 41, 20 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Ant 4a	N/A	back	0 mm	1.150	1.120	1.02	N/A	N/A
3500	3560.00	55340	LTE Band 48, 20 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Ant 4b	N/A	back	0 mm	1.140	1.120	1.02	N/A	N/A
3700	3603.30	55773	LTE Band 48, 20 MHz Bandwidth	QPSK, 1 RB, 99 RB Offset	Ant 2b	N/A	back	0 mm	1.170	1.160	1.01	N/A	N/A
5250	5230.00	46	802.11n, 40 MHz Bandwidth	OFDM	5GHz ANT _{lower}	13.5	right	0 mm	0.919	0.915	1.00	N/A	N/A
5600	5610.00	122	802.11ac, 80 MHz Bandwidth	OFDM	5GHz ANT _{upper}	29.3	right	0 mm	0.817	0.809	1.01	N/A	N/A
5750	5775.00	155	802.11ac, 80 MHz Bandwidth	OFDM	5GHz ANT _{upper}	29.3	right	0 mm	0.871	0.842	1.03	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram				

12.2 Measurement Uncertainty

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

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13 ADDITIONAL TESTING PER FCC GUIDANCE

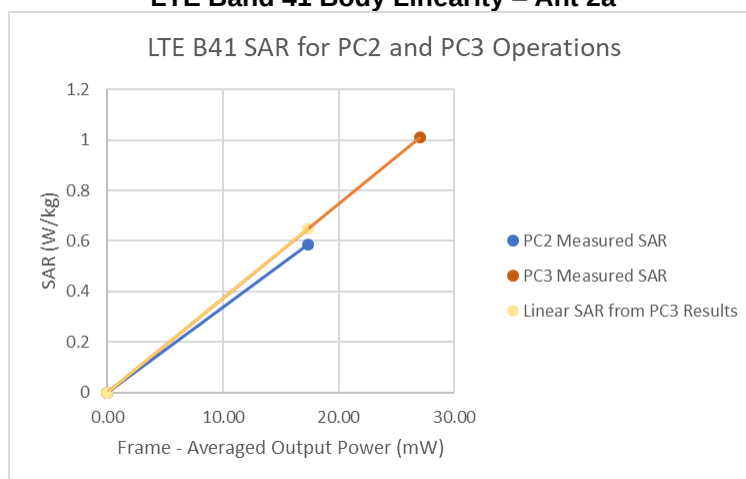
13.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

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

Table 13-1
LTE Band 41 Body Linearity Data – Ant 2a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.4	16.4
Measured Output Power (dBm)	16.3	16.04
Measured SAR (W/kg)	1.01	0.587
Measured Power (mW)	42.66	40.18
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	27.00	17.40
% deviation from expected linearity		-9.79%

Figure 13-1
LTE Band 41 Body Linearity – Ant 2a

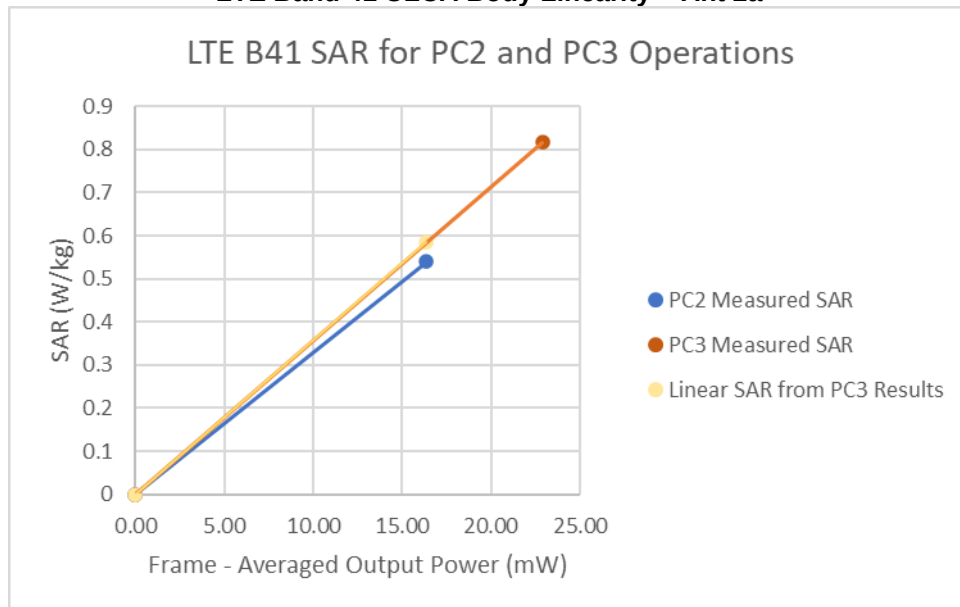


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Table 13-2
LTE Band 41 ULCA Body Linearity Data – Ant 2a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.4	16.4
Measured Output Power (dBm)	15.58	15.77
Measured SAR (W/kg)	0.817	0.54
Measured Power (mW)	36.14	37.76
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	22.88	16.35
% deviation from expected linearity		-7.51%

Figure 13-2
LTE Band 41 ULCA Body Linearity – Ant 2a

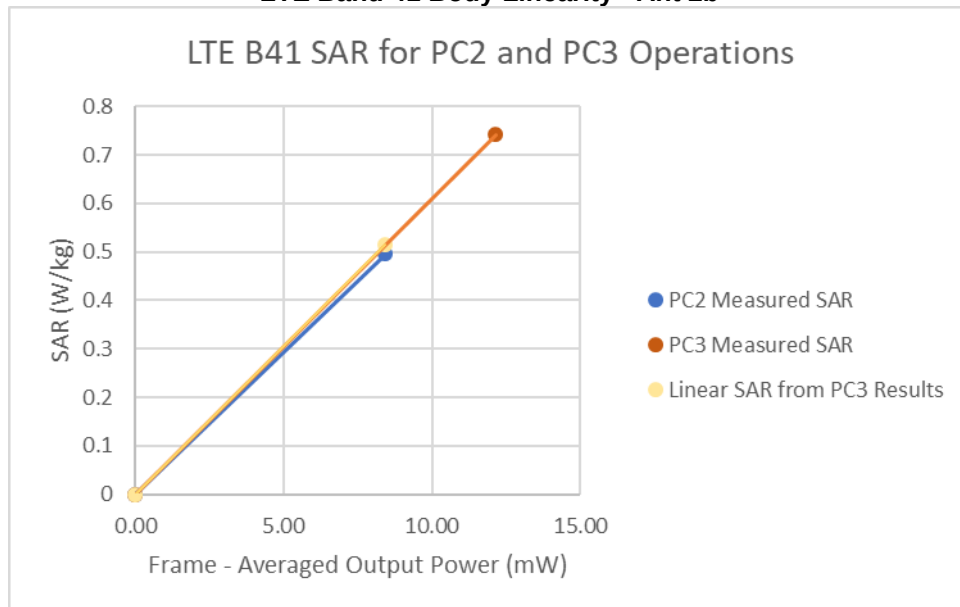


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Table 13-3
LTE Band 41 Body Linearity Data – Ant 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.8	13.8
Measured Output Power (dBm)	12.83	12.89
Measured SAR (W/kg)	0.742	0.495
Measured Power (mW)	19.19	19.45
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	12.15	8.42
% deviation from expected linearity		-3.81%

Figure 13-3
LTE Band 41 Body Linearity– Ant 2b

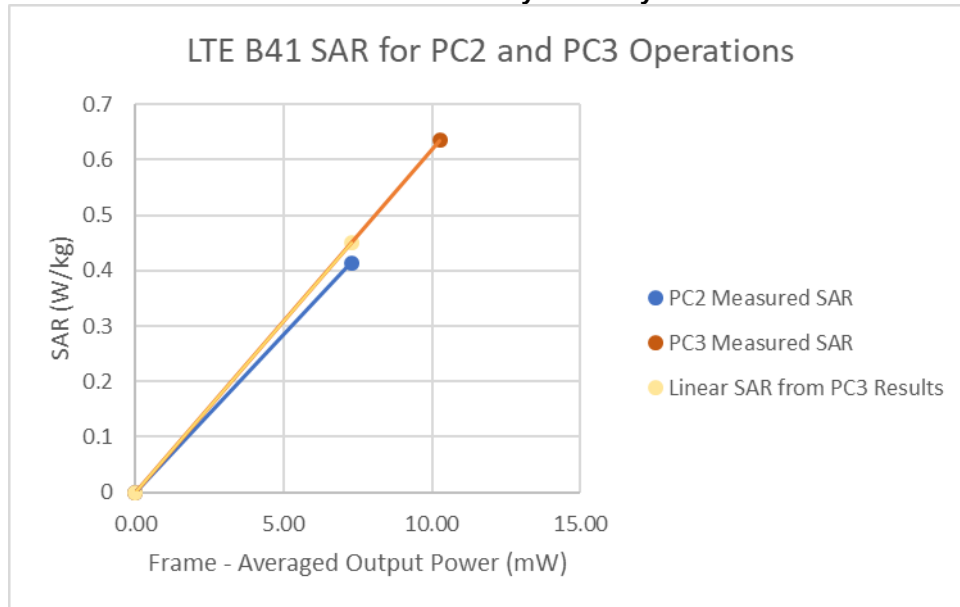


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Table 13-4
LTE Band 41 ULCA Body Linearity Data– Ant 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.8	13.8
Measured Output Power (dBm)	12.1	12.26
Measured SAR (W/kg)	0.635	0.414
Measured Power (mW)	16.22	16.83
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	10.27	7.29
% deviation from expected linearity		-8.14%

Figure 13-4
LTE Band 41 ULCA Body Linearity– Ant 2b

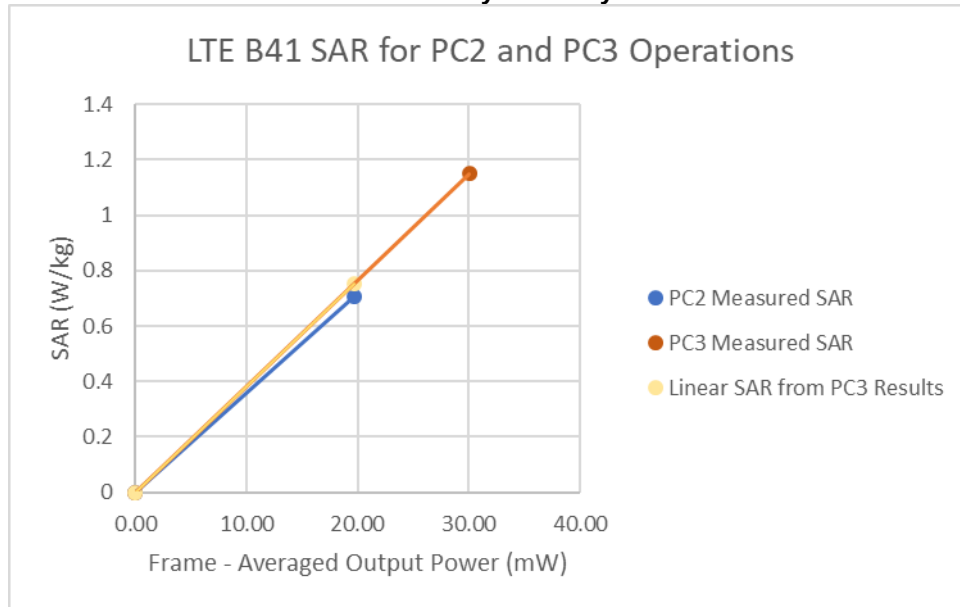


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Table 13-5
LTE Band 41 Body Linearity Data – Ant 4a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.9	16.9
Measured Output Power (dBm)	16.76	16.58
Measured SAR (W/kg)	1.15	0.707
Measured Power (mW)	47.42	45.50
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	30.02	19.70
% deviation from expected linearity		-6.32%

Figure 13-5
LTE Band 41 Body Linearity– Ant 4a

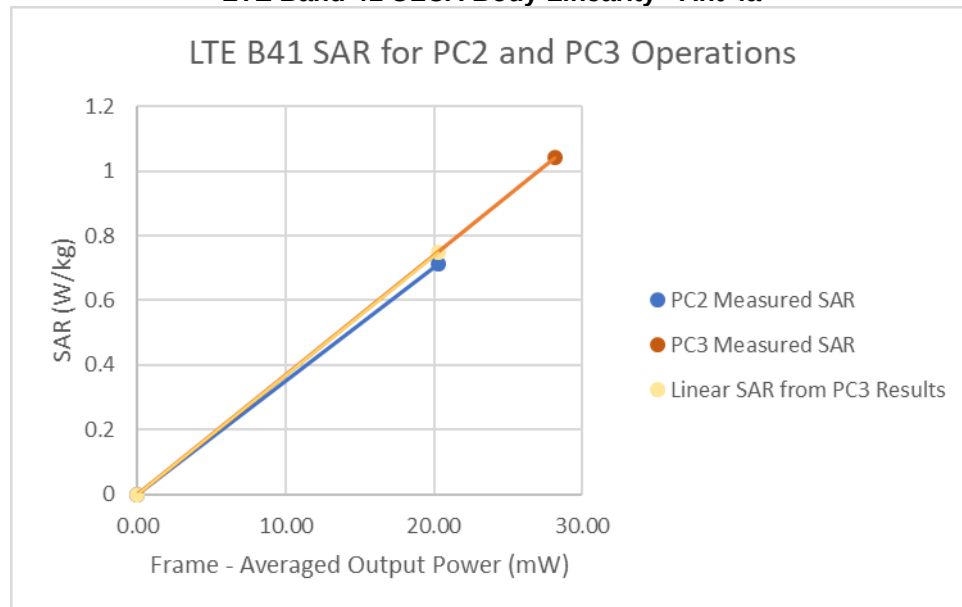


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Table 13-6
LTE Band 41 ULCA Body Linearity Data– Ant 4a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.9	16.9
Measured Output Power (dBm)	16.48	16.7
Measured SAR (W/kg)	1.04	0.711
Measured Power (mW)	44.46	46.77
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	28.15	20.25
% deviation from expected linearity		-4.99%

Figure 13-6
LTE Band 41 ULCA Body Linearity– Ant 4a

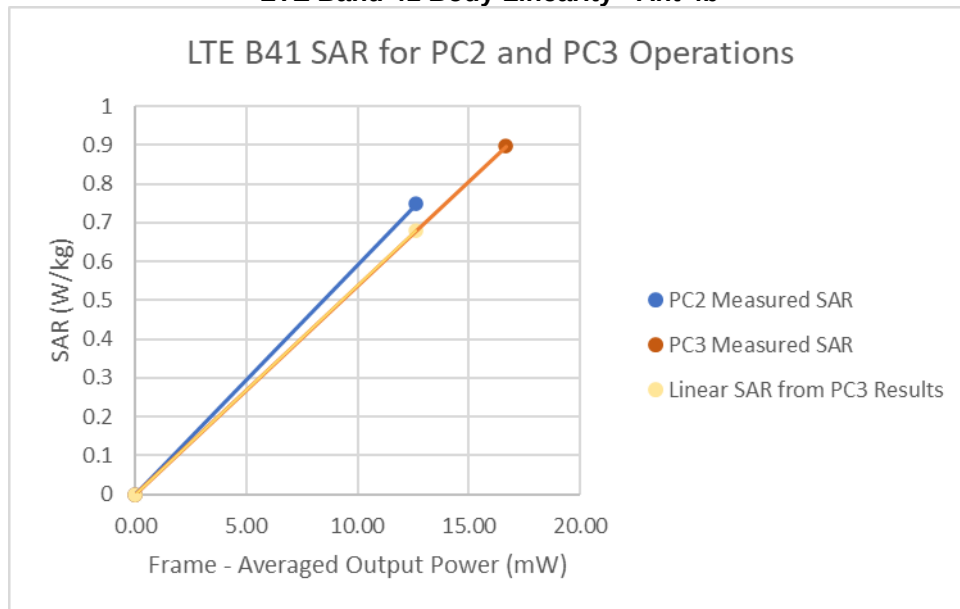


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Table 13-7
LTE Band 41 Body Linearity Data – Ant 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.8	14.8
Measured Output Power (dBm)	14.2	14.65
Measured SAR (W/kg)	0.898	0.748
Measured Power (mW)	26.30	29.17
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	16.65	12.63
% deviation from expected linearity		9.78%

Figure 13-7
LTE Band 41 Body Linearity– Ant 4b

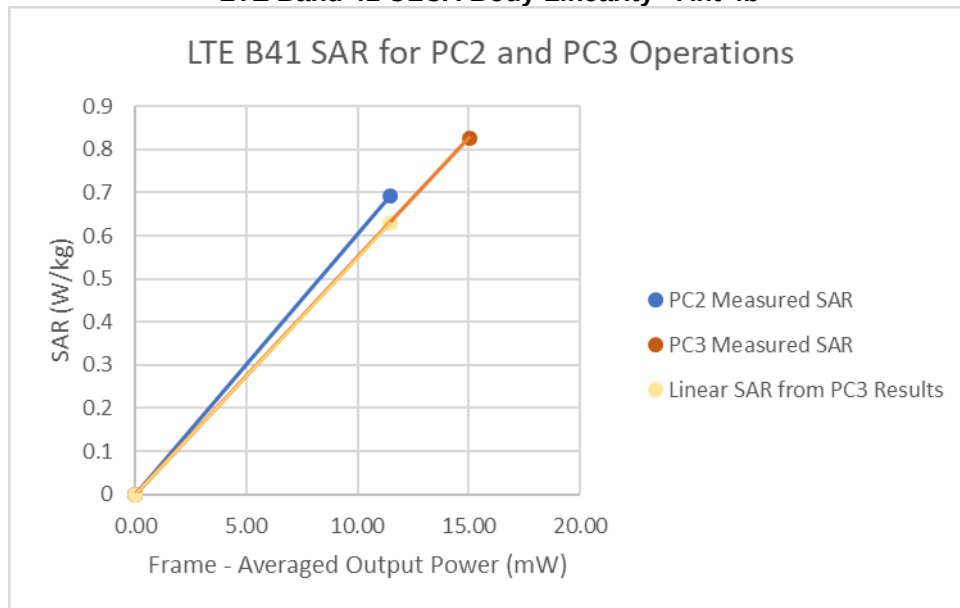


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Table 13-8
LTE Band 41 ULCA Body Linearity Data– Ant 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.8	14.8
Measured Output Power (dBm)	13.75	14.22
Measured SAR (W/kg)	0.827	0.692
Measured Power (mW)	23.71	26.42
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	15.01	11.44
% deviation from expected linearity		9.78%

Figure 13-8
LTE Band 41 ULCA Body Linearity– Ant 4b



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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4438C	ESG Vector Signal Generator	6/27/2019	Annual	6/27/2020	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	9/11/2019	Annual	9/11/2020	MY45093678
Agilent	E5515C	Wireless Communications Test Set	2/28/2018	Biennial	2/28/2020	GB41450275
Agilent	E5515C	Wireless Communications Test Set	5/22/2018	Biennial	5/22/2020	GB43193563
Agilent	N5182A	MXG Vector Signal Generator	6/27/2019	Annual	6/27/2020	US46240505
Agilent	N5182A	MXG Vector Signal Generator	8/19/2019	Annual	8/19/2020	MY47420837
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	343971
Anritsu	MA24106A	USB Power Sensor	8/5/2019	Annual	8/5/2020	1827527
Anritsu	MA24106A	USB Power Sensor	6/21/2019	Annual	6/21/2020	1244515
Anritsu	MA24106A	USB Power Sensor	7/8/2019	Annual	7/8/2020	1248508
Anritsu	MA24106A	USB Power Sensor	8/5/2019	Annual	8/5/2020	1827528
Anritsu	MA24106A	USB Power Sensor	8/27/2019	Annual	8/27/2020	1827533
Anritsu	MA2411B	Pulse Power Sensor	12/4/2019	Annual	12/4/2020	1126066
Anritsu	ML2496A	Power Meter	11/6/2019	Annual	11/6/2020	1405003
Anritsu	ML2496A	Power Meter	12/17/2019	Annual	12/17/2020	1138001
Anritsu	MT8820C	Radio Communication Analyzer	7/25/2019	Annual	7/25/2020	6201240328
Anritsu	MT8821C	Radio Communication Analyzer	8/16/2019	Annual	8/16/2020	6201144418
Anritsu	MT8821C	Radio Communication Analyzer	3/18/2019	Annual	3/18/2020	6201144419
Control Company	4040	Temperature / Humidity Monitor	2/28/2018	Biennial	2/28/2020	15076191
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/28/2018	Biennial	2/28/2020	170151872
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/28/2018	Biennial	2/28/2020	170151893
Control Company	4352	Ultra Long Stem Thermometer	2/28/2018	Biennial	2/28/2020	170330160
Control Company	4352	Ultra Long Stem Thermometer	2/28/2018	Biennial	2/28/2020	170330158
Control Company	4352	Ultra Long Stem Thermometer	8/2/2018	Biennial	8/2/2020	181292054
Control Company	1235C55	Digital Caliper	3/20/2018	Biennial	3/20/2020	140448586
MCL	BW-N3W5+	3dB Attenuator	CBT	N/A	CBT	1812
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1311
MCL	BW-N10W5+	10dB Attenuator	CBT	N/A	CBT	1611
Mini-Circuits	NLP-1000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	5/23/2018	Biennial	5/23/2020	N/A
Seekonk	NC-100	Torque Wrench	5/9/2018	Biennial	5/9/2020	22217
Rohde & Schwarz	CMW500	Radio Communication Tester	6/24/2019	Annual	6/24/2020	101699
Rohde & Schwarz	CMW500	Radio Communication Tester	8/20/2019	Annual	8/20/2020	106578
Rohde & Schwarz	CMW500	Radio Communication Tester	6/26/2019	Annual	6/26/2020	108843
Rohde & Schwarz	CMW500	Radio Communication Tester	4/15/2019	Annual	4/15/2020	167283
Rohde & Schwarz	CMW500	Radio Communication Tester	4/15/2019	Annual	4/15/2020	167284
Rohde & Schwarz	CMW500	Radio Communication Tester	4/17/2019	Annual	4/17/2020	167285
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	8/8/2019	Annual	8/8/2020	145663
SPEAG	D750V3	750 MHz SAR Dipole	9/8/2017	Triennial	9/8/2020	1097
SPEAG	D835V2	835 MHz SAR Dipole	6/20/2019	Annual	6/20/2020	4d040
SPEAG	D1750V2	1750 MHz SAR Dipole	6/19/2019	Annual	6/19/2020	1083
SPEAG	D1900V2	1900 MHz SAR Dipole	5/14/2018	Biennial	5/14/2020	5d026
SPEAG	D2300V2	2300 MHz SAR Dipole	3/7/2018	Biennial	3/7/2020	1038
SPEAG	D2450V2	2450 MHz SAR Dipole	11/12/2018	Biennial	11/12/2020	921
SPEAG	D2450V2	2450 MHz SAR Dipole	5/16/2018	Biennial	5/16/2020	945
SPEAG	D2600V2	2600 MHz SAR Dipole	9/11/2017	Triennial	9/11/2020	1069
SPEAG	D2600V2	2600 MHz SAR Dipole	6/19/2018	Biennial	6/19/2020	1009
SPEAG	D3500V2	3500 MHz SAR Dipole	12/4/2019	Annual	12/4/2020	1068
SPEAG	D3700V2	3700 MHz SAR Dipole	12/4/2019	Annual	12/4/2020	1029
SPEAG	D5GHZV2	5 GHz SAR Dipole	9/13/2018	Biennial	9/13/2020	1163
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/7/2019	Annual	5/7/2020	1070
SPEAG	DAKS-3.5	Portable DAK	9/10/2019	Annual	9/10/2020	1045
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/13/2019	Annual	3/13/2020	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/13/2019	Annual	2/13/2020	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/13/2019	Annual	11/13/2020	1213
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/17/2019	Annual	4/17/2020	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/12/2019	Annual	8/12/2020	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/10/2019	Annual	7/10/2020	1402
SPEAG	EX3DV4	SAR Probe	3/18/2019	Annual	3/18/2020	7421
SPEAG	EX3DV4	SAR Probe	2/19/2019	Annual	2/19/2020	7427
SPEAG	EX3DV4	SAR Probe	11/21/2019	Annual	11/21/2020	7420
SPEAG	EX3DV4	SAR Probe	4/12/2019	Annual	4/12/2020	7532
SPEAG	EX3DV4	SAR Probe	8/29/2019	Annual	8/29/2020	3949
SPEAG	EX3DV4	SAR Probe	7/16/2019	Annual	7/16/2020	7491

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

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15 MEASUREMENT UNCERTAINTIES

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

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16 CONCLUSION

16.1 Measurement Conclusion

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

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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