



SAR EVALUATION REPORT

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

Date of Testing:
12/18/2019 – 01/28/2020
Test Site/Location:
PCTEST Lab, Morgan Hill, CA, USA
Document Serial No.:
1C1912170054-01-R1.BCG

FCC ID: BCGA2069
APPLICANT: APPLE, INC.

DUT Type: Tablet Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: A2069

Equipment Class	Band & Mode	Tx Frequency	SAR 1g Body (W/kg)
PCB	GPRS/EDGE 850	824.20 - 848.80 MHz	1.08
PCB	GPRS/EDGE 1900	1850.20 - 1909.80 MHz	1.03
PCB	UMTS 850	826.40 - 846.60 MHz	1.17
PCB	UMTS 1750	1712.4 - 1752.6 MHz	1.19
PCB	UMTS 1900	1852.4 - 1907.6 MHz	1.19
PCB	LTE Band 71	665.5 - 695.5 MHz	1.14
PCB	LTE Band 12	699.7 - 715.3 MHz	1.19
PCB	LTE Band 17	706.5 - 713.5 MHz	N/A
PCB	LTE Band 13	779.5 - 784.5 MHz	1.19
PCB	LTE Band 14	790.5 - 795.5 MHz	1.19
PCB	LTE Band 26 (Cell)	814.7 - 848.3 MHz	1.19
PCB	LTE Band 5 (Cell)	824.7 - 848.3 MHz	1.16
PCB	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	1.10
PCB	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	1.18
PCB	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	1.19
PCB	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	1.19
PCB	LTE Band 30	2307.5 - 2312.5 MHz	1.11
PCB	LTE Band 7	2502.5 - 2507.5 MHz	1.19
CBE	LTE Band 48	3552.5 - 3697.5 MHz	1.19
PCB	LTE Band 41	2498.5 - 2687.5 MHz	1.12
DTSS	2.4 GHz WLAN	2412 - 2472 MHz	1.18
NII	U-NII-1	5180 - 5240 MHz	1.01
NII	U-NII-2A	5260 - 5320 MHz	N/A
NII	U-NII-2C	5600 - 5720 MHz	1.05
NII	U-NII-3	5745 - 5825 MHz	1.18
DSS/DTSS	Bluetooth	2402 - 2480 MHz	1.09
Simultaneous SAR per KDB 690783 D01V0103:			1.59

Note: This revised Test Report (S/N: 1C1912170054-01-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@mwfai.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 71	Data	665.5 - 695.5 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 14	Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Data	824.7 - 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,

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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.

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

Mode/Band	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
GPRS/EDGE 850	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

Mode/Band	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
GPRS/EDGE 1900	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

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Mode/Band	Antenna		Modulated Average Output Power (in dBm)			
			3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
UMTS Band 5 (850 MHz)	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

Mode/Band	Antenna		Modulated Average Output Power (in dBm)			
			3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
UMTS Band 4 (1750 MHz)	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

Mode/Band	Antenna		Modulated Average Output Power (in dBm)			
			3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
UMTS Band 2 (1900 MHz)	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 71	Max allowed power	22.40	23.00				
	Nominal	21.90	22.50				
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 14	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

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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 14	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) - Antenna 2a
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) - Antenna 2a
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		Channel	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)	
			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

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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 - MIMO (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.

B. Antenna 4a

Mode/Band		Modulated Average - Single Tx Chain (dBm) - Antenna 4a
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) - Antenna 4a
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.

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Mode/ Band		Channel	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)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
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	11.00
		2	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		3	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		4	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		5	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		6	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		7	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		8	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		9	13.75	12.25	13.75	12.25	13.75	12.25	13.75	12.25
		10	13.75	12.25	13.75	12.25	13.75	12.25	13.50	12.00
		11	13.75	12.25	13.75	12.25	13.75	12.25	12.00	10.50
		12	13.75	12.25	11.00	9.50	11.00	9.50	10.00	8.50
		13	12.00	10.50	0.50	-1.00	0.50	-1.00	N/A	N/A

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 - MIMO (dBm) - Antenna 4a	20 MHz Bandwidth	1	13.75	12.25	13.75	12.25	12.00	10.50
		2	13.75	12.25	13.75	12.25	13.75	12.25
		3	13.75	12.25	13.75	12.25	13.75	12.25
		4	13.75	12.25	13.75	12.25	13.75	12.25
		5	13.75	12.25	13.75	12.25	13.75	12.25
		6	13.75	12.25	13.75	12.25	13.75	12.25
		7	13.75	12.25	13.75	12.25	13.75	12.25
		8	13.75	12.25	13.75	12.25	13.75	12.25
		9	13.75	12.25	13.75	12.25	13.75	12.25
		10	13.75	12.25	13.75	12.25	13.00	11.50
		11	13.50	12.00	13.50	12.00	11.50	10.00
		12	10.50	9.00	10.50	9.00	9.00	7.50
		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. 5 GHz 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	Nominal
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	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	15.50	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			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			15.50	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					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					15.50	14.00	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 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, 5 GHz ANTlower transmits at maximum allowed powers as indicated above for both 2 Tx CDD and 2 Tx SDM.

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D. 5 GHz 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
	40 MHz Bandwidth	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
		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	15.75	14.25	15.75	14.25	15.75	14.25
		159	15.75	14.25	15.75	14.25	15.75	14.25
		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, 5 GHz 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

E. Antenna 2a

Below table is applicable in the following conditions:

-Simultaneous conditions with 5GHz WLAN

Mode/Band		Modulated Average - Single Tx Chain (dBm) - Antenna 2a
Bluetooth BDR/LE Reduced	Maximum	11.50
	Nominal	10.00
Bluetooth EDR Reduced	Maximum	11.50
	Nominal	10.00
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 - Single Tx Chain (dBm) - Antenna 2a
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 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			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 - MIMO (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.

Below table is applicable in the following conditions:

-Simultaneous conditions with 5GHz WLAN

Mode/Band		Modulated Average - MIMO (dBm) - Antenna 2a
Bluetooth BDR/LE Reduced	Maximum	11.50
	Nominal	10.00
Bluetooth EDR Reduced	Maximum	11.50
	Nominal	10.00
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 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) - Antenna 2a
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.

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F. 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) - Antenna 4a
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 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 - MIMO (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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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) - Antenna 4a
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.

G. 5 GHz 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:

-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 - 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
		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	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

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

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H. 5 GHz 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		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 - 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 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 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
	40 MHz Bandwidth	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
		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
	80 MHz Bandwidth	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
		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, 5 GHz 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 1-1
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 71 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 14 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 (Cell) 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 71 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 14 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 (Cell) 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 (Cell) 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 (Cell) 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 1-2
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 1-3
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 B5/12/13/14 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 B5/12/13/14 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 B5/12/13/14 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 B5/12/13/14 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 B5/12/13/14 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 B5/12/13/14 LTE Bands transmitting from Ant 4A: LTE B2/4/7/66/30

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

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Table 1-4
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 1-3.

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

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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.

(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 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).

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

This device supports inter-band LTE Carrier Aggregation (CA) for LTE Bands 2/4/5/7/12/13/14/30/66 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.

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)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- October 2018 TCB Workshop Notes (Inter-band Uplink Carrier Aggregation)

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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LTE Information				
Form Factor	Tablet Device			
Frequency Range of each LTE transmission band	LTE Band 71 (665.5 - 695.5 MHz)			
	LTE Band 12 (699.7 - 715.3 MHz)			
	LTE Band 17 (706.5 - 713.5 MHz)			
	LTE Band 13 (779.5 - 784.5 MHz)			
	LTE Band 14 (790.5 - 795.5 MHz)			
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)			
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)			
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)			
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)			
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)			
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)			
	LTE Band 30 (2307.5 - 2312.5 MHz)			
	LTE Band 7 (2502.5 - 2567.5 MHz)			
	LTE Band 41 (2498.5 - 2687.5 MHz)			
	LTE Band 48 (3552.5 - 3697.5 MHz)			
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz			
	LTE Band 17: 5 MHz, 10 MHz			
	LTE Band 13: 5 MHz, 10 MHz			
	LTE Band 14: 5 MHz, 10 MHz			
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz			
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz			
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 30: 5 MHz, 10 MHz			
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High
	High			
LTE Band 71: 5 MHz	665.5 (133147)	680.5 (133297)	695.5 (133447)	
LTE Band 71: 10 MHz	668 (133172)	680.5 (133297)	693 (133422)	
LTE Band 71: 15 MHz	670.5 (133197)	680.5 (133297)	690.5 (133397)	
LTE Band 71: 20 MHz	673 (133222)	680.5 (133297)	688 (133372)	
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23040)	707.5 (23095)	711 (23130)	
LTE Band 17: 5 MHz	706.5 (23755)	710 (23790)	713.5 (23825)	
LTE Band 17: 10 MHz	709 (23780)	710 (23790)	711 (23800)	
LTE Band 13: 5 MHz	779.5 (23205)	782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	N/A	782 (23230)	N/A	
LTE Band 14: 5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)	
LTE Band 14: 10 MHz	N/A	793 (23330)	N/A	
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)	831.5 (26865)	848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (26705)	831.5 (26865)	847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (26715)	831.5 (26865)	846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (26740)	831.5 (26865)	844 (26990)	
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)	836.5 (20525)	848.3 (20643)	
LTE Band 5 (Cell): 3 MHz	825.5 (20415)	836.5 (20525)	847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)	836.5 (20525)	846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	829 (20450)	836.5 (20525)	844 (20600)	
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)	1732.5 (20175)	1754.3 (20393)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)	
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)	
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)	
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)	1745 (132322)	1779.3 (132665)	
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)	1745 (132322)	1778.5 (132657)	
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)	1745 (132322)	1777.5 (132647)	
LTE Band 66 (AWS): 10 MHz	1715 (132022)	1745 (132322)	1775 (132622)	
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)	1745 (132322)	1772.5 (132597)	
LTE Band 66 (AWS): 20 MHz	1720 (132072)	1745 (132322)	1770 (132572)	
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3 (19193)	
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	1880 (18900)	1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	1880 (18900)	1907.5 (19175)	
LTE Band 2 (PCS): 10 MHz	1855 (18650)	1880 (18900)	1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	1880 (18900)	1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (18700)	1880 (18900)	1900 (19100)	
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)	1882.5 (26365)	1914.3 (26663)	
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)	1882.5 (26365)	1913.5 (26655)	
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)	1882.5 (26365)	1912.5 (26645)	
LTE Band 25 (PCS): 10 MHz	1855 (26090)	1882.5 (26365)	1910 (26640)	
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)	1882.5 (26365)	1907.5 (26615)	
LTE Band 25 (PCS): 20 MHz	1860 (26140)	1882.5 (26365)	1905 (26590)	
LTE Band 30: 5 MHz	2307.5 (27685)	2310 (27710)	2312.5 (27735)	
LTE Band 30: 10 MHz	N/A	2310 (27710)	N/A	
LTE Band 7: 5 MHz	2502.5 (20775)	2535 (21100)	2567.5 (21425)	
LTE Band 7: 10 MHz	2505 (20800)	2535 (21100)	2565 (21400)	
LTE Band 7: 15 MHz	2507.5 (20825)	2535 (21100)	2562.5 (21375)	
LTE Band 7: 20 MHz	2510 (20850)	2535 (21100)	2560 (21350)	
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	N/A	3649.2 (56232)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55769)	N/A	3647.5 (56215)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)
UE Category	DL UE Cat 19 (QPSK, 16QAM, 64QAM, 256QAM), UL UE Cat 13 (QPSK, 16QAM, 64QAM)			
Modulations Supported in UL	QPSK, 16QAM, 64QAM			
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES			
A-MPR (Additional MPR) disabled for SAR Testing?	YES			
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations			
LTE Additional Information	This device does not support full CA features on 3GPP Release 13. It supports carrier aggregation and downlink MIMO features as shown in Section 8 and Appendix F. All other uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC unless otherwise specified. The following LTE Release 13 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.			

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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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4.1 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.

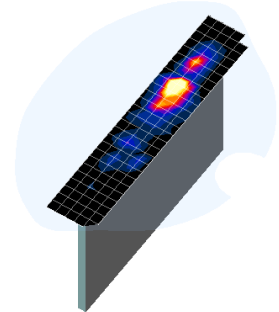


Figure 4-1
Sample SAR Area Scan

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		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤ 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	29.70	26.70	25.73	24.75
	190	29.64	26.61	25.65	24.66
	251	29.67	26.70	25.62	24.69
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	20.67	20.68	16.70	18.73
	190	20.61	20.59	16.62	18.64
	251	20.64	20.68	16.59	18.67
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	29.25	26.88	27.45	26.75
	190	29.13	26.73	27.32	26.59
	251	29.10	26.67	27.26	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	20.22	20.86	18.42	20.73
	190	20.10	20.71	18.29	20.57
	251	20.07	20.65	18.23	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	23.78	20.85	23.19	20.75
	661	23.76	20.90	23.17	20.76
	810	23.76	20.90	23.16	20.77
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	14.75	14.83	14.16	14.73
	661	14.73	14.88	14.14	14.74
	810	14.73	14.88	14.13	14.75
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	22.82	19.87	22.83	19.78
	661	22.79	19.87	22.82	19.80
	810	22.81	19.88	22.87	19.79
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	13.79	13.85	13.80	13.76
	661	13.76	13.85	13.79	13.78
	810	13.78	13.86	13.84	13.77
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	20.26	23.24	20.15
	661	23.12	20.29	23.26	20.12
	810	23.18	20.28	23.25	20.13
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	14.24	14.21	14.13
	661	14.09	14.27	14.23	14.10
	810	14.15	14.26	14.22	14.11
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	22.26	19.32	22.29	19.32
	661	22.21	19.30	22.28	19.31
	810	22.28	19.29	22.29	19.31
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	13.23	13.30	13.26	13.30
	661	13.18	13.28	13.25	13.29
	810	13.25	13.27	13.26	13.29
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.

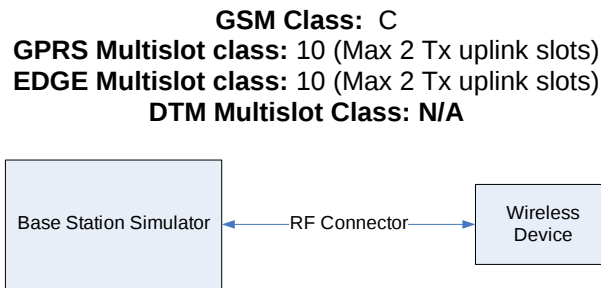


Figure 8-1
Power Measurement Setup

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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	20.42	20.45	20.31	-
6	HSDPA	Subtest 1	20.47	20.61	20.52	0
6		Subtest 2	20.45	20.62	20.47	0
6		Subtest 3	20.49	20.69	20.54	0.5
6		Subtest 4	20.49	20.65	20.53	0.5
6	HSUPA	Subtest 1	20.43	20.58	20.47	0
6		Subtest 2	20.45	20.65	20.51	2
6		Subtest 3	20.49	20.67	20.53	1
6		Subtest 4	20.46	20.65	20.52	2
6		Subtest 5	20.48	20.58	20.48	0
8	DC-HSDPA	Subtest 1	20.43	20.63	20.49	0
8		Subtest 2	20.51	20.66	20.53	0
8		Subtest 3	20.44	20.64	20.48	0.5
8		Subtest 4	20.44	20.60	20.47	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	20.82	20.80	20.81	-
6	HSDPA	Subtest 1	20.88	20.80	20.80	0
6		Subtest 2	20.97	20.83	20.85	0
6		Subtest 3	20.98	20.82	20.91	0.5
6		Subtest 4	20.97	20.89	20.90	0.5
6	HSUPA	Subtest 1	20.87	20.81	20.82	0
6		Subtest 2	20.91	20.85	20.92	2
6		Subtest 3	20.91	20.86	20.92	1
6		Subtest 4	20.80	20.92	20.98	2
6		Subtest 5	20.82	20.82	20.82	0
8	DC-HSDPA	Subtest 1	20.91	20.83	20.89	0
8		Subtest 2	20.92	20.82	20.91	0
8		Subtest 3	20.85	20.85	20.90	0.5
8		Subtest 4	20.88	20.85	20.89	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	15.84	15.80	15.70	14.65	14.82	14.89	-
6	HSDPA	Subtest 1	15.77	15.62	15.46	14.51	14.73	14.81	0
6		Subtest 2	15.78	15.60	15.47	14.61	14.80	14.85	0
6		Subtest 3	15.80	15.64	15.53	14.62	14.85	14.90	0.5
6		Subtest 4	15.82	15.65	15.53	14.65	14.85	14.94	0.5
6	HSUPA	Subtest 1	15.68	15.54	15.39	14.49	14.71	14.79	0
6		Subtest 2	15.71	15.58	15.42	14.65	14.83	14.87	2
6		Subtest 3	15.74	15.58	15.44	14.63	14.81	14.60	1
6		Subtest 4	15.70	15.59	15.45	14.69	14.91	14.71	2
6		Subtest 5	15.69	15.50	15.42	14.59	14.76	14.83	0
8	DC-HSDPA	Subtest 1	15.75	15.61	15.48	14.32	14.58	14.79	0
8		Subtest 2	15.78	15.60	15.50	14.41	14.64	14.84	0
8		Subtest 3	15.83	15.59	15.49	14.42	14.66	14.88	0.5
8		Subtest 4	15.80	15.58	15.48	14.48	14.63	14.86	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	15.06	14.70	14.68	13.45	13.54	13.90	-
6	HSDPA	Subtest 1	14.92	14.87	14.61	13.45	13.46	13.92	0
6		Subtest 2	14.91	14.85	14.66	13.34	13.56	13.98	0
6		Subtest 3	14.95	14.89	14.67	13.53	13.59	14.00	0.5
6		Subtest 4	14.95	14.89	14.68	13.62	13.61	13.99	0.5
6	HSUPA	Subtest 1	14.89	14.78	14.62	13.49	13.47	13.91	0
6		Subtest 2	14.95	14.86	14.67	13.50	13.60	13.96	2
6		Subtest 3	14.93	14.84	14.66	13.51	13.58	13.93	1
6		Subtest 4	14.97	14.84	14.68	13.55	13.63	14.00	2
6		Subtest 5	14.85	14.77	14.65	13.46	13.48	13.88	0
8	DC-HSDPA	Subtest 1	14.92	14.85	14.65	13.41	13.46	13.90	0
8		Subtest 2	14.93	14.82	14.70	13.48	13.40	13.98	0
8		Subtest 3	14.95	14.87	14.65	13.54	13.58	14.00	0.5
8		Subtest 4	14.93	14.89	14.69	13.51	13.55	13.93	0.5

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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	14.71	14.77	14.56	14.73	14.70	14.75	-
6	HSDPA	Subtest 1	14.40	14.66	14.43	14.55	14.25	14.49	0
6		Subtest 2	14.42	14.63	14.47	14.58	14.28	14.55	0
6		Subtest 3	14.45	14.69	14.44	14.65	14.40	14.58	0.5
6		Subtest 4	14.46	14.70	14.47	14.67	14.46	14.65	0.5
6	HSUPA	Subtest 1	14.34	14.57	14.37	14.51	14.42	14.51	0
6		Subtest 2	14.39	14.60	14.32	14.69	14.57	14.61	2
6		Subtest 3	14.34	14.63	14.40	14.67	14.45	14.63	1
6		Subtest 4	14.28	14.58	14.43	14.69	14.55	14.64	2
6		Subtest 5	14.33	14.59	14.28	14.49	14.38	14.52	0
8	DC-HSDPA	Subtest 1	14.35	14.59	14.37	14.51	14.32	14.51	0
8		Subtest 2	14.32	14.57	14.36	14.55	14.28	14.57	0
8		Subtest 3	14.41	14.59	14.40	14.56	14.38	14.60	0.5
8		Subtest 4	14.25	14.63	14.35	14.63	14.46	14.56	0.5

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	13.48	13.30	13.20	13.30	13.25	13.32	-
6	HSDPA	Subtest 1	13.32	13.14	13.28	13.32	13.22	13.21	0
6		Subtest 2	13.29	13.07	13.32	13.40	13.26	13.27	0
6		Subtest 3	13.33	13.13	13.39	13.41	13.35	13.28	0.5
6		Subtest 4	13.38	13.14	13.42	13.42	13.31	13.33	0.5
6	HSUPA	Subtest 1	13.06	13.07	13.12	13.10	13.19	13.17	0
6		Subtest 2	13.26	13.05	13.28	13.40	13.32	12.62	2
6		Subtest 3	13.18	12.95	13.19	13.22	13.13	13.13	1
6		Subtest 4	13.35	13.11	13.41	13.43	13.38	13.33	2
6		Subtest 5	13.24	13.09	13.26	13.31	13.21	13.19	0
8	DC-HSDPA	Subtest 1	13.27	13.17	13.26	13.26	13.24	13.11	0
8		Subtest 2	13.34	13.12	13.30	13.34	13.29	13.29	0
8		Subtest 3	13.37	13.14	13.35	13.37	13.24	13.28	0.5
8		Subtest 4	13.31	13.20	13.33	13.33	13.29	13.27	0.5

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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 71

Table 8-13

LTE Band 71 Conducted Powers Ant 1 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.33	0	0
	1	50	22.17		0
	1	99	22.30		0
	50	0	22.17	0-1	0
	50	25	22.16		0
	50	50	22.26		0
16QAM	100	0	22.25	0-1	0
	1	0	22.16		0
	1	50	21.95		0
	1	99	22.14	0-2	0
	50	0	21.71		0
	50	25	21.67		0
64QAM	50	50	21.75	0-2	0
	100	0	21.75		0
	1	0	22.30	0-2	0
	1	50	22.14		0
	1	99	22.29	0-3	0
	50	0	21.40		0
64QAM	50	25	21.40		0
	50	50	21.49	0-3	0
	100	0	21.51		0

Note: LTE Band 71 at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-14

LTE Band 71 Conducted Powers Ant 1 - 15 MHz Bandwidth

LTE Band 71 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.63	0	0
	1	36	21.67		0
	1	74	21.71		0
	36	0	21.50	0-1	0
	36	18	21.74		0
	36	37	21.76		0
16QAM	75	0	21.73	0-1	0
	1	0	21.85		0
	1	36	21.96	0-2	0
	1	74	21.78		0
	36	0	21.55		0
	36	18	21.76	0-2	0
64QAM	36	37	21.77		0
	75	0	21.71	0-2	0
	1	0	21.86		0
	1	36	21.94	0-3	0
	1	74	21.89		0
	36	0	21.54		0
64QAM	36	18	21.75	0-3	0
	36	37	21.78		0
	75	0	21.73		0

Note: LTE Band 71 at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-15
LTE Band 71 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 71 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133172 (668.0 MHz)	133297 (680.5 MHz)	133422 (693.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	21.72	21.52	21.75	0	0
	1	25	21.56	21.75	21.70		0
	1	49	21.76	21.74	21.72		0
	25	0	21.53	21.57	21.70	0-1	0
	25	12	21.55	21.75	21.75		0
	25	25	21.67	21.76	21.79		0
	50	0	21.68	21.77	21.77		0
16QAM	1	0	21.94	21.75	21.99	0-1	0
	1	25	21.87	21.94	21.83		0
	1	49	21.94	21.91	22.06		0
	25	0	21.56	21.58	21.71	0-2	0
	25	12	21.55	21.75	21.80		0
	25	25	21.69	21.80	21.81		0
	50	0	21.68	21.77	21.79		0
64QAM	1	0	21.94	21.79	22.01	0-2	0
	1	25	21.81	22.05	22.01		0
	1	49	21.94	21.96	21.98		0
	25	0	21.54	21.58	21.71	0-3	0
	25	12	21.57	21.79	21.77		0
	25	25	21.71	21.77	21.79		0
	50	0	21.68	21.80	21.81		0

Table 8-16
LTE Band 71 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 71 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133147 (665.5 MHz)	133297 (680.5 MHz)	133447 (695.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	21.89	21.78	21.73	0	0
	1	12	21.69	21.97	21.76		0
	1	24	21.69	21.98	21.74		0
	12	0	21.76	21.80	21.74	0-1	0
	12	6	21.62	21.81	21.81		0
	12	13	21.62	21.83	21.84		0
	25	0	21.65	21.82	21.80		0
16QAM	1	0	22.16	21.90	21.95	0-1	0
	1	12	21.91	22.10	21.94		0
	1	24	21.93	22.01	21.94		0
	12	0	21.77	21.83	21.80	0-2	0
	12	6	21.68	21.91	21.88		0
	12	13	21.67	21.95	21.92		0
	25	0	21.67	21.87	21.81		0
64QAM	1	0	22.11	21.92	21.92	0-2	0
	1	12	21.89	22.04	21.98		0
	1	24	21.91	22.11	21.85		0
	12	0	21.78	21.90	21.81	0-3	0
	12	6	21.69	21.91	21.87		0
	12	13	21.64	21.92	21.90		0
	25	0	21.60	21.85	21.83		0

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Table 8-17
LTE Band 71 Conducted Powers Ant 3 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.00	0	0
	1	50	22.85		0
	1	99	22.99		0
	50	0	23.00	0-1	0
	50	25	22.97		0
	50	50	23.00		0
	100	0	22.99		0
16QAM	1	0	23.00	0-1	0
	1	50	22.86		0
	1	99	23.00		0
	50	0	22.71	0-2	0
	50	25	22.70		0
	50	50	22.91		0
	100	0	22.78		0
64QAM	1	0	23.00	0-2	0
	1	50	22.66		0
	1	99	23.00		0
	50	0	22.71	0-3	0
	50	25	22.67		0
	50	50	22.89		0
	100	0	22.76		0

Note: LTE Band 71 at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Table 8-18
LTE Band 71 Conducted Powers Ant 3 - 15 MHz Bandwidth

LTE Band 71 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.84	0	0
	1	36	22.75		0
	1	74	22.90		0
	36	0	22.68	0-1	0
	36	18	22.81		0
	36	37	22.99		0
	75	0	22.82		0
16QAM	1	0	22.91	0-1	0
	1	36	22.86		0
	1	74	22.93		0
	36	0	22.67	0-2	0
	36	18	22.79		0
	36	37	22.99		0
	75	0	22.81		0
64QAM	1	0	22.92	0-2	0
	1	36	22.88		0
	1	74	23.00		0
	36	0	22.68	0-3	0
	36	18	22.81		0
	36	37	23.00		0
	75	0	22.77		0

Note: LTE Band 71 at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-19
LTE Band 71 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 71 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133172 (668.0 MHz)	133297 (680.5 MHz)	133422 (693.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.93	22.71	22.82	0	0
	1	25	22.81	22.81	22.71		0
	1	49	22.94	22.98	22.93		0
	25	0	22.58	22.70	22.68	0-1	0
	25	12	22.62	22.80	22.77		0
	25	25	22.78	22.91	22.90		0
	50	0	22.71	22.82	22.79		0
16QAM	1	0	22.89	23.00	22.84	0-1	0
	1	25	22.82	22.96	22.91		0
	1	49	22.96	23.00	23.00		0
	25	0	22.58	22.68	22.68	0-2	0
	25	12	22.60	22.85	22.75		0
	25	25	22.79	22.96	22.84		0
	50	0	22.69	22.80	22.80		0
64QAM	1	0	22.96	22.92	22.97	0-2	0
	1	25	22.88	22.90	22.95		0
	1	49	22.95	23.00	23.00		0
	25	0	22.54	22.68	22.70	0-3	0
	25	12	22.61	22.85	22.75		0
	25	25	22.77	22.96	22.88		0
	50	0	22.71	22.80	22.80		0

Table 8-20
LTE Band 71 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 71 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133147 (665.5 MHz)	133297 (680.5 MHz)	133447 (695.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.88	22.74	22.56	0	0
	1	12	22.76	22.84	22.75		0
	1	24	22.99	23.00	22.57		0
	12	0	22.53	22.73	22.72	0-1	0
	12	6	22.57	22.83	22.81		0
	12	13	22.73	22.94	22.54		0
16QAM	25	0	22.66	22.85	22.53	0-1	0
	1	0	22.84	22.90	22.58		0
	1	12	22.77	22.91	22.94		0
	1	24	22.91	23.00	22.81	0-2	0
	12	0	22.53	22.63	22.72		0
	12	6	22.55	22.80	22.25		0
64QAM	12	13	22.72	22.91	22.34	0-2	0
	25	0	22.62	22.75	22.30		0
	1	0	22.99	22.97	22.67		0-2
	1	12	22.81	22.95	22.65	0	
	1	24	22.98	23.00	22.85	0	
	12	0	22.47	22.63	22.20	0-3	0
12	6	22.54	22.80	22.25	0		
12	13	22.70	22.91	22.38	0		
	25	0	22.64	22.75	22.30		0

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8.3.2

LTE Band 12

Table 8-21
LTE Band 12 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23095 (707.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	21.16	0	0
	1	25	20.83		0
	1	49	20.94		0
	25	0	20.89	0-1	0
	25	12	20.86		0
	25	25	20.85		0
	50	0	20.84		0
16QAM	1	0	21.15	0-1	0
	1	25	20.86		0
	1	49	20.93		0
	25	0	20.70	0-2	0
	25	12	20.64		0
	25	25	20.60		0
	50	0	20.62		0
64QAM	1	0	21.30	0-2	0
	1	25	21.30		0
	1	49	21.10		0
	25	0	20.95	0-3	0
	25	12	20.88		0
	25	25	20.85		0
	50	0	20.93		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 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	20.67	20.74	20.64	0	0
	1	12	20.78	20.68	20.71		0
	1	24	20.75	20.73	20.71		0
	12	0	20.85	20.66	20.82	0-1	0
	12	6	20.86	20.64	20.83		0
	12	13	20.87	20.61	20.85		0
	25	0	20.86	20.64	20.84	0	
16QAM	1	0	20.93	20.94	20.78	0-1	0
	1	12	21.02	20.92	20.85		0
	1	24	21.03	20.88	20.95		0
	12	0	20.91	20.77	20.87	0-2	0
	12	6	20.87	20.76	20.87		0
	12	13	20.90	20.73	20.90		0
	25	0	20.93	20.72	20.91	0	
64QAM	1	0	20.90	20.95	20.83	0-2	0
	1	12	20.98	20.86	20.90		0
	1	24	21.04	20.84	20.91		0
	12	0	20.92	20.76	20.82	0-3	0
	12	6	20.89	20.76	20.85		0
	12	13	20.92	20.71	20.84		0
	25	0	20.91	20.67	20.90	0	

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Table 8-23
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	20.68	20.56	20.74	0	0
	1	7	20.84	20.60	20.83		0
	1	14	20.79	20.54	20.65		0
	8	0	20.83	20.69	20.90	0-1	0
	8	4	20.92	20.65	20.90		0
	8	7	20.93	20.66	20.87		0
15	0	20.93	20.69	20.93	0		
16QAM	1	0	20.87	20.73	20.87	0-1	0
	1	7	21.03	20.99	20.88		0
	1	14	21.16	20.85	20.80		0
	8	0	20.94	20.78	20.90	0-2	0
	8	4	20.99	20.73	20.99		0
	8	7	21.00	20.73	20.94		0
15	0	20.97	20.71	20.94	0		
64QAM	1	0	20.86	20.82	20.84	0-2	0
	1	7	21.12	20.77	20.96		0
	1	14	20.96	20.81	20.70		0
	8	0	20.87	20.78	20.96	0-3	0
	8	4	21.04	20.74	20.89		0
	8	7	20.96	20.77	20.96		0
15	0	21.01	20.71	20.96	0		

Table 8-24
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	20.70	20.61	21.02	0	0
	1	2	20.74	20.58	20.95		0
	1	5	20.84	20.59	20.88		0
	3	0	20.77	20.70	20.83		0
	3	2	20.82	20.67	20.84		0
	3	3	20.80	20.68	20.85		0
	6	0	20.81	20.66	20.85	0-1	0
16QAM	1	0	20.95	20.74	21.10	0-1	0
	1	2	20.97	20.87	21.03		0
	1	5	20.97	20.96	21.03		0
	3	0	20.92	20.78	20.94		0
	3	2	20.91	20.74	20.95		0
	3	3	20.99	20.79	20.95		0
	6	0	20.90	20.75	20.96	0-2	0
64QAM	1	0	21.06	20.84	21.14	0-2	0
	1	2	20.94	20.70	20.98		0
	1	5	21.07	20.71	20.97		0
	3	0	20.94	20.84	21.03		0
	3	2	20.99	20.69	20.97		0
	3	3	20.97	20.75	20.94		0
	6	0	20.91	20.75	20.93	0-3	0

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Table 8-25
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	18.22	0	0
	1	25	18.00		0
	1	49	18.25		0
	25	0	18.18	0-1	0
	25	12	18.03		0
	25	25	18.14		0
	50	0	18.09		0
16QAM	1	0	18.05	0-1	0
	1	25	17.84		0
	1	49	18.00		0
	25	0	17.63	0-2	0
	25	12	17.60		0
	25	25	17.60		0
	50	0	17.58		0
64QAM	1	0	18.03	0-2	0
	1	25	17.78		0
	1	49	17.96		0
	25	0	17.60	0-3	0
	25	12	17.59		0
	25	25	17.59		0
	50	0	17.57		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 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	17.91	17.85	17.97	0	0
	1	12	17.98	17.79	18.07		0
	1	24	17.93	17.83	18.15		0
	12	0	18.04	17.87	17.95	0-1	0
	12	6	18.04	17.85	17.97		0
	12	13	18.05	17.83	18.01		0
	25	0	18.09	17.86	17.99		0
16QAM	1	0	17.92	18.09	17.95	0-1	0
	1	12	18.11	17.93	18.23		0
	1	24	18.08	17.90	18.25		0
	12	0	17.89	17.74	17.73	0-2	0
	12	6	17.89	17.72	17.81		0
	12	13	17.87	17.69	17.76		0
	25	0	17.91	17.72	17.81		0
64QAM	1	0	17.83	18.08	17.81	0-2	0
	1	12	17.99	17.81	17.97		0
	1	24	17.97	17.85	18.03		0
	12	0	17.79	17.77	17.72	0-3	0
	12	6	17.77	17.69	17.74		0
	12	13	17.78	17.67	17.80		0
	25	0	17.72	17.68	17.72		0

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Table 8-27
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	17.99	17.79	18.02	0	0
	1	7	18.13	17.86	18.09		0
	1	14	18.06	17.80	17.94		0
	8	0	18.13	17.92	18.16	0-1	0
	8	4	18.15	17.93	18.17		0
	8	7	18.15	17.94	18.12		0
	15	0	18.18	17.94	18.19		0
16QAM	1	0	17.99	18.09	18.19	0-1	0
	1	7	18.09	18.02	18.30		0
	1	14	18.08	18.01	17.89		0
	8	0	17.99	17.69	17.99	0-2	0
	8	4	18.00	17.70	17.98		0
	8	7	18.03	17.76	17.91		0
	15	0	18.01	17.73	17.92		0
64QAM	1	0	17.88	17.90	18.00	0-2	0
	1	7	18.09	17.93	18.15		0
	1	14	18.06	17.89	18.00		0
	8	0	17.80	17.73	17.90	0-3	0
	8	4	17.87	17.74	17.93		0
	8	7	17.84	17.72	17.91		0
	15	0	17.86	17.71	17.92		0

Table 8-28
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	18.03	17.85	18.24	0	0
	1	2	18.08	17.83	18.17		0
	1	5	18.14	17.86	18.14		0
	3	0	18.06	17.93	18.08		0
	3	2	18.12	17.95	18.10		0
	3	3	18.13	17.95	18.08		0
	6	0	18.11	17.94	18.06	0-1	0
16QAM	1	0	18.01	18.05	18.11	0-1	0
	1	2	18.16	18.12	18.12		0
	1	5	18.29	18.01	18.08		0
	3	0	18.00	17.89	18.03		0
	3	2	18.16	17.85	18.01		0
	3	3	18.07	17.89	18.08		0
	6	0	18.02	17.85	17.94	0-2	0
64QAM	1	0	17.95	17.78	18.05	0-2	0
	1	2	18.00	17.81	17.98		0
	1	5	18.11	17.67	17.99		0
	3	0	17.78	17.66	17.86		0
	3	2	17.83	17.69	17.86		0
	3	3	17.84	17.69	17.87		0
	6	0	17.77	17.61	17.75	0-3	0

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Table 8-29
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	21.68	0	0
	1	25	21.54		0
	1	49	21.52		0
	25	0	21.68	0-1	0
	25	12	21.56		0
	25	25	21.44		0
	50	0	21.57		0
16QAM	1	0	21.66	0-1	0
	1	25	21.56		0
	1	49	21.54		0
	25	0	21.48	0-2	0
	25	12	21.36		0
	25	25	21.22		0
	50	0	21.36		0
64QAM	1	0	21.60	0-2	0
	1	25	21.42		0
	1	49	21.43		0
	25	0	21.45	0-3	0
	25	12	21.36		0
	25	25	21.20		0
	50	0	21.36		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 8-30
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	21.38	21.26	0	0
	1	12	21.45	21.28	21.34		0
	1	24	21.50	21.27	21.43		0
	12	0	21.37	21.44	21.35	0-1	0
	12	6	21.43	21.34	21.48		0
	12	13	21.44	21.31	21.57		0
	25	0	21.45	21.35	21.49	0	
16QAM	1	0	21.56	21.60	21.50	0-1	0
	1	12	21.59	21.58	21.53		0
	1	24	21.65	21.52	21.59		0
	12	0	21.40	21.48	21.39	0-2	0
	12	6	21.48	21.37	21.52		0
	12	13	21.50	21.34	21.58		0
	25	0	21.47	21.38	21.55	0	
64QAM	1	0	21.64	21.56	21.61	0-2	0
	1	12	21.70	21.40	21.70		0
	1	24	21.72	21.50	21.77		0
	12	0	21.44	21.51	21.41	0-3	0
	12	6	21.45	21.40	21.50		0
	12	13	21.49	21.38	21.61		0
	25	0	21.52	21.39	21.52	0	

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Table 8-31
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	21.28	21.35	21.36	0	0
	1	7	21.36	21.31	21.54		0
	1	14	21.39	21.22	21.37		0
	8	0	21.42	21.48	21.54	0-1	0
	8	4	21.43	21.37	21.61		0
	8	7	21.53	21.36	21.56		0
	15	0	21.47	21.41	21.63		0
16QAM	1	0	21.48	21.49	21.50	0-1	0
	1	7	21.56	21.49	21.52		0
	1	14	21.54	21.37	21.48		0
	8	0	21.46	21.54	21.55	0-2	0
	8	4	21.49	21.45	21.66		0
	8	7	21.56	21.41	21.62		0
	15	0	21.51	21.42	21.67		0
64QAM	1	0	21.57	21.59	21.76	0-2	0
	1	7	21.69	21.60	21.75		0
	1	14	21.73	21.38	21.77		0
	8	0	21.49	21.50	21.64	0-3	0
	8	4	21.50	21.52	21.71		0
	8	7	21.57	21.43	21.64		0
	15	0	21.54	21.42	21.67		0

Table 8-32
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	21.36	21.31	21.70	0	0
	1	2	21.32	21.30	21.61		0
	1	5	21.33	21.32	21.60		0
	3	0	21.41	21.38	21.52		0
	3	2	21.41	21.36	21.51		0
	3	3	21.40	21.39	21.51		0
	6	0	21.39	21.37	21.53	0-1	0
16QAM	1	0	21.49	21.46	21.67	0-1	0
	1	2	21.63	21.45	21.65		0
	1	5	21.66	21.48	21.72		0
	3	0	21.52	21.49	21.62		0
	3	2	21.47	21.51	21.61		0
	3	3	21.48	21.51	21.53		0
	6	0	21.46	21.43	21.61	0-2	0
64QAM	1	0	21.66	21.55	21.80	0-2	0
	1	2	21.53	21.60	21.70		0
	1	5	21.44	21.53	21.64		0
	3	0	21.49	21.43	21.70		0
	3	2	21.45	21.46	21.59		0
	3	3	21.49	21.46	21.69		0
	6	0	21.45	21.52	21.55	0-3	0

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Table 8-33
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	18.61	0	0
	1	25	18.49		0
	1	49	18.48		0
	25	0	18.52	0-1	0
	25	12	18.56		0
	25	25	18.45		0
	50	0	18.51		0
16QAM	1	0	18.53	0-1	0
	1	25	18.24		0
	1	49	18.41		0
	25	0	18.34	0-2	0
	25	12	18.38		0
	25	25	18.24		0
	50	0	18.35		0
64QAM	1	0	18.79	0-2	0
	1	25	18.45		0
	1	49	18.74		0
	25	0	18.32	0-3	0
	25	12	18.33		0
	25	25	18.20		0
	50	0	18.36		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 8-34
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	18.30	18.41	18.09	0	0
	1	12	18.45	18.39	18.33		0
	1	24	18.42	18.26	18.42		0
	12	0	18.46	18.31	18.33	0-1	0
	12	6	18.50	18.35	18.43		0
	12	13	18.50	18.22	18.54		0
	25	0	18.51	18.35	18.45		0
16QAM	1	0	18.54	18.49	18.32	0-1	0
	1	12	18.58	18.61	18.56		0
	1	24	18.67	18.46	18.66		0
	12	0	18.55	18.34	18.40	0-2	0
	12	6	18.57	18.41	18.47		0
	12	13	18.57	18.31	18.56		0
	25	0	18.55	18.41	18.52		0
64QAM	1	0	18.45	18.55	18.36	0-2	0
	1	12	18.75	18.47	18.64		0
	1	24	18.65	18.31	18.75		0
	12	0	18.57	18.27	18.40	0-3	0
	12	6	18.59	18.32	18.49		0
	12	13	18.57	18.18	18.58		0
	25	0	18.59	18.33	18.45		0

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Table 8-35
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	18.20	18.21	18.41	0	0
	1	7	18.37	18.33	18.53		0
	1	14	18.39	18.12	18.40		0
	8	0	18.38	18.32	18.54	0-1	0
	8	4	18.44	18.37	18.60		0
	8	7	18.50	18.27	18.52		0
	15	0	18.48	18.40	18.61		0
16QAM	1	0	18.37	18.56	18.57	0-1	0
	1	7	18.58	18.69	18.66		0
	1	14	18.68	18.47	18.59		0
	8	0	18.44	18.38	18.65	0-2	0
	8	4	18.56	18.46	18.64		0
	8	7	18.60	18.38	18.52		0
	15	0	18.54	18.49	18.65		0
64QAM	1	0	18.55	18.35	18.70	0-2	0
	1	7	18.61	18.46	18.80		0
	1	14	18.67	18.41	18.71		0
	8	0	18.46	18.39	18.60	0-3	0
	8	4	18.55	18.42	18.68		0
	8	7	18.65	18.30	18.48		0
	15	0	18.57	18.36	18.63		0

Table 8-36
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	18.26	18.40	18.70	0	0
	1	2	18.31	18.37	18.59		0
	1	5	18.41	18.35	18.62		0
	3	0	18.40	18.32	18.50		0
	3	2	18.41	18.29	18.51		0
	3	3	18.39	18.28	18.52		0
	6	0	18.41	18.30	18.52	0-1	0
16QAM	1	0	18.52	18.56	18.79	0-1	0
	1	2	18.59	18.47	18.78		0
	1	5	18.69	18.45	18.76		0
	3	0	18.57	18.48	18.68		0
	3	2	18.55	18.43	18.68		0
	3	3	18.57	18.49	18.67		0
	6	0	18.47	18.35	18.64	0-2	0
64QAM	1	0	18.47	18.56	18.78	0-2	0
	1	2	18.56	18.48	18.79		0
	1	5	18.72	18.28	18.67		0
	3	0	18.57	18.45	18.65		0
	3	2	18.56	18.46	18.62		0
	3	3	18.56	18.48	18.72		0
	6	0	18.47	18.39	18.60	0-3	0

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LTE Band 13

Table 8-37
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	20.97	0	0
	1	25	20.65		0
	1	49	20.78		0
	25	0	20.97	0-1	0
	25	12	20.75		0
	25	25	20.80		0
	50	0	20.96		0
	50	0	20.96		0
16QAM	1	0	20.95	0-1	0
	1	25	20.77		0
	1	49	20.82		0
	25	0	20.70	0-2	0
	25	12	20.68		0
	25	25	20.59		0
	50	0	20.52		0
	50	0	20.52		0
64QAM	1	0	20.80	0-2	0
	1	25	20.62		0
	1	49	20.66		0
	25	0	20.55	0-3	0
	25	12	20.53		0
	25	25	20.54		0
	50	0	20.50		0
	50	0	20.50		0

Table 8-38
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	20.50	0	0
	1	12	20.51		0
	1	24	20.50		0
	12	0	20.57	0-1	0
	12	6	20.54		0
	12	13	20.54		0
	25	0	20.50		0
	25	0	20.50		0
16QAM	1	0	20.59	0-1	0
	1	12	20.54		0
	1	24	20.63		0
	12	0	20.62	0-2	0
	12	6	20.59		0
	12	13	20.62		0
	25	0	20.51		0
	25	0	20.51		0
64QAM	1	0	20.60	0-2	0
	1	12	20.55		0
	1	24	20.57		0
	12	0	20.64	0-3	0
	12	6	20.60		0
	12	13	20.62		0
	25	0	20.53		0
	25	0	20.53		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 8-39
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	17.80	0	0
	1	25	17.50		0
	1	49	17.75		0
	25	0	17.99	0-1	0
	25	12	17.67		0
	25	25	17.67		0
16QAM	50	0	17.65	0-1	0
	1	0	17.60		0
	1	25	17.28		0
	1	49	17.50	0-2	0
	25	0	17.15		0
	25	12	17.15		0
	25	25	17.18		0
	50	0	17.08		0
64QAM	1	0	17.40	0-2	0
	1	25	17.30		0
	1	49	17.56		0
	25	0	17.10	0-3	0
	25	12	17.11		0
	25	25	17.17		0
	50	0	17.06		0

Table 8-40
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	17.10	0	0
	1	12	17.04		0
	1	24	17.08		0
	12	0	17.16	0-1	0
	12	6	17.09		0
	12	13	17.08		0
	25	0	17.05		0
16QAM	1	0	17.38	0-1	0
	1	12	17.28		0
	1	24	17.35		0
	12	0	17.26	0-2	0
	12	6	17.20		0
	12	13	17.19		0
	25	0	17.12		0
64QAM	1	0	17.29	0-2	0
	1	12	17.26		0
	1	24	17.32		0
	12	0	17.20	0-3	0
	12	6	17.16		0
	12	13	17.17		0
	25	0	17.12		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 8-41
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	21.54	0	0
	1	25	21.42		0
	1	49	21.21		0
	25	0	21.27	0-1	0
	25	12	21.32		0
	25	25	21.27		0
	50	0	21.30		0
16QAM	1	0	21.52	0-1	0
	1	25	21.48		0
	1	49	21.16		0
	25	0	21.08	0-2	0
	25	12	21.15		0
	25	25	21.08		0
	50	0	21.19		0
64QAM	1	0	21.64	0-2	0
	1	25	21.50		0
	1	49	21.13		0
	25	0	21.03	0-3	0
	25	12	21.14		0
	25	25	21.08		0
	50	0	21.17		0

Table 8-42
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	21.31	0	0
	1	12	21.47		0
	1	24	21.39		0
	12	0	21.44	0-1	0
	12	6	21.46		0
	12	13	21.48		0
	25	0	21.53		0
16QAM	1	0	21.42	0-1	0
	1	12	21.71		0
	1	24	21.56		0
	12	0	21.51	0-2	0
	12	6	21.54		0
	12	13	21.50		0
	25	0	21.58		0
64QAM	1	0	21.52	0-2	0
	1	12	21.80		0
	1	24	21.60		0
	12	0	21.48	0-3	0
	12	6	21.52		0
	12	13	21.57		0
	25	0	21.60		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 8-43
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	18.79	0	0
	1	25	18.57		0
	1	49	18.28		0
	25	0	18.49	0-1	0
	25	12	18.59		0
	25	25	18.44		0
	50	0	18.52		0
16QAM	1	0	18.75	0-1	0
	1	25	18.76		0
	1	49	18.57		0
	25	0	18.54	0-2	0
	25	12	18.67		0
	25	25	18.55		0
	50	0	18.72		0
64QAM	1	0	18.78	0-2	0
	1	25	18.80		0
	1	49	18.67		0
	25	0	18.52	0-3	0
	25	12	18.65		0
	25	25	18.62		0
	50	0	18.75		0

Table 8-44
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	18.40	0	0
	1	12	18.67		0
	1	24	18.55		0
	12	0	18.57	0-1	0
	12	6	18.64		0
	12	13	18.68		0
	25	0	18.73		0
16QAM	1	0	18.58	0-1	0
	1	12	18.70		0
	1	24	18.68		0
	12	0	18.63	0-2	0
	12	6	18.73		0
	12	13	18.74		0
	25	0	18.77		0
64QAM	1	0	18.71	0-2	0
	1	12	18.80		0
	1	24	18.79		0
	12	0	18.61	0-3	0
	12	6	18.79		0
	12	13	18.74		0
	25	0	18.75		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 14

Table 8-45
LTE Band 14 Conducted Powers Ant 1 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	21.27	0	0
	1	25	21.31		0
	1	49	21.21		0
	25	0	21.27	0-1	0
	25	12	21.26		0
	25	25	21.28		0
	50	0	21.27		0
16QAM	1	0	21.45	0-1	0
	1	25	21.49		0
	1	49	21.38		0
	25	0	21.30	0-2	0
	25	12	21.30		0
	25	25	21.31		0
	50	0	21.31		0
64QAM	1	0	21.41	0-2	0
	1	25	21.47		0
	1	49	21.38		0
	25	0	21.30	0-3	0
	25	12	21.29		0
	25	25	21.29		0
	50	0	21.32		0

Table 8-46
LTE Band 14 Conducted Powers Ant 1 - 5 MHz Bandwidth

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	21.27	0	0
	1	12	21.27		0
	1	24	21.35		0
	12	0	21.36	0-1	0
	12	6	21.33		0
	12	13	21.35		0
	25	0	21.34		0
16QAM	1	0	21.50	0-1	0
	1	12	21.50		0
	1	24	21.45		0
	12	0	21.31	0-2	0
	12	6	21.25		0
	12	13	21.26		0
	25	0	21.25		0
64QAM	1	0	21.35	0-2	0
	1	12	21.37		0
	1	24	21.44		0
	12	0	21.39	0-3	0
	12	6	21.30		0
	12	13	21.31		0
	25	0	21.33		0

Note: LTE Band 14 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-47
LTE Band 14 Conducted Powers Ant 1 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.02	0	0
	1	25	18.12		0
	1	49	18.02		0
	25	0	18.18	0-1	0
	25	12	18.19		0
	25	25	18.21		0
16QAM	50	0	18.10	0	0
	1	0	17.84		0
	1	25	17.84		0
	1	49	17.98	0-1	0
	25	0	17.79		0
	25	12	17.78		0
64QAM	25	25	17.85	0-2	0
	50	0	17.81		0
	1	0	17.84		0
	1	25	17.90	0-2	0
	1	49	18.04		0
	25	0	17.77		0
	25	12	17.77	0-3	0
	25	25	17.83		0
	50	0	17.81		0

Table 8-48
LTE Band 14 Conducted Powers Ant 1 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	17.81	0	0
	1	12	17.81		0
	1	24	17.90		0
	12	0	17.92	0-1	0
	12	6	17.84		0
	12	13	17.88		0
16QAM	25	0	17.86	0	0
	1	0	18.05		0
	1	12	18.04		0
	1	24	18.20	0-1	0
	12	0	17.98		0
	12	6	17.90		0
64QAM	12	13	17.95	0-2	0
	25	0	17.90		0
	1	0	17.98		0
	1	12	18.00	0-2	0
	1	24	18.13		0
	12	0	17.96		0
	12	6	17.89	0-3	0
	12	13	17.92		0
	25	0	17.89		0

Note: LTE Band 14 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-49
LTE Band 14 Conducted Powers Ant 3 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.62	0	0
	1	25	21.50		0
	1	49	21.61		0
	25	0	21.40	0-1	0
	25	12	21.42		0
	25	25	21.50		0
	50	0	21.46		0
16QAM	1	0	21.50	0-1	0
	1	25	21.43		0
	1	49	21.51		0
	25	0	21.46	0-2	0
	25	12	21.53		0
	25	25	21.45		0
	50	0	21.44		0
64QAM	1	0	21.61	0-2	0
	1	25	21.57		0
	1	49	21.61		0
	25	0	21.35	0-3	0
	25	12	21.33		0
	25	25	21.44		0
	50	0	21.45		0

Table 8-50
LTE Band 14 Conducted Powers Ant 3 - 5 MHz Bandwidth

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.27	0	0
	1	12	21.33		0
	1	24	21.42		0
	12	0	21.29	0-1	0
	12	6	21.34		0
	12	13	21.44		0
	25	0	21.43		0
16QAM	1	0	21.45	0-1	0
	1	12	21.58		0
	1	24	21.69		0
	12	0	21.37	0-2	0
	12	6	21.40		0
	12	13	21.48		0
	25	0	21.47		0
64QAM	1	0	21.55	0-2	0
	1	12	21.50		0
	1	24	21.67		0
	12	0	21.33	0-3	0
	12	6	21.41		0
	12	13	21.54		0
	25	0	21.45		0

Note: LTE Band 14 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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Table 8-51
LTE Band 14 Conducted Powers Ant 3 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.48	0	0
	1	25	18.37		0
	1	49	18.55		0
	25	0	18.44	0-1	0
	25	12	18.43		0
	25	25	18.58		0
	50	0	18.51		0
16QAM	1	0	18.51	0-1	0
	1	25	18.54		0
	1	49	18.53		0
	25	0	18.52	0-2	0
	25	12	18.51		0
	25	25	18.62		0
	50	0	18.60		0
64QAM	1	0	18.52	0-2	0
	1	25	18.44		0
	1	49	18.53		0
	25	0	18.45	0-3	0
	25	12	18.48		0
	25	25	18.60		0
	50	0	18.55		0

Table 8-52
LTE Band 14 Conducted Powers Ant 3 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.38	0	0
	1	12	18.42		0
	1	24	18.50		0
	12	0	18.48	0-1	0
	12	6	18.47		0
	12	13	18.53		0
	25	0	18.55		0
16QAM	1	0	18.51	0-1	0
	1	12	18.54		0
	1	24	18.61		0
	12	0	18.52	0-2	0
	12	6	18.54		0
	12	13	18.56		0
	25	0	18.62		0
64QAM	1	0	18.70	0-2	0
	1	12	18.68		0
	1	24	18.79		0
	12	0	18.46	0-3	0
	12	6	18.51		0
	12	13	18.53		0
	25	0	18.57		0

Note: LTE Band 14 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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LTE Band 26

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 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.28	20.21	20.44	0	0
	1	25	20.24	20.22	20.18		0
	1	49	20.35	20.34	20.36		0
	25	0	20.10	20.22	20.27	0-1	0
	25	12	20.24	20.24	20.20		0
	25	25	20.44	20.26	20.30		0
	50	0	20.41	20.24	20.22		0
16QAM	1	0	20.26	20.29	20.50	0-1	0
	1	25	20.19	20.27	20.41		0
	1	49	20.32	20.46	20.39		0
	25	0	20.20	20.05	20.10	0-2	0
	25	12	20.32	20.05	20.02		0
	25	25	20.46	20.09	20.07		0
	50	0	20.38	20.05	20.04		0
64QAM	1	0	20.24	20.21	20.41	0-2	0
	1	25	20.22	20.22	20.28		0
	1	49	20.41	20.29	20.36		0
	25	0	20.14	20.05	20.09	0-3	0
	25	12	20.31	20.06	20.01		0
	25	25	20.46	20.09	20.07		0
	50	0	20.37	20.08	20.04		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	20.41	20.46	20.45	0	0
	1	12	20.28	20.45	20.52		0
	1	24	20.45	20.52	20.70		0
	12	0	20.34	20.52	20.44	0-1	0
	12	6	20.40	20.49	20.46		0
	12	13	20.49	20.48	20.48		0
	25	0	20.41	20.51	20.49		0
16QAM	1	0	20.69	20.69	20.58	0-1	0
	1	12	20.59	20.68	20.69		0
	1	24	20.62	20.63	20.61		0
	12	0	20.45	20.61	20.51	0-2	0
	12	6	20.48	20.57	20.52		0
	12	13	20.55	20.56	20.53		0
	25	0	20.41	20.58	20.53		0
64QAM	1	0	20.57	20.68	20.67	0-2	0
	1	12	20.49	20.67	20.62		0
	1	24	20.64	20.69	20.57		0
	12	0	20.39	20.57	20.52	0-3	0
	12	6	20.44	20.53	20.52		0
	12	13	20.52	20.53	20.54		0
	25	0	20.42	20.54	20.52		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	20.55	20.45	20.50	0	0
	1	7	20.39	20.49	20.54		0
	1	14	20.40	20.43	20.55		0
	8	0	20.54	20.58	20.54	0-1	0
	8	4	20.45	20.54	20.55		0
	8	7	20.51	20.55	20.63		0
	15	0	20.46	20.58	20.56		0
16QAM	1	0	20.64	20.60	20.48	0-1	0
	1	7	20.61	20.53	20.68		0
	1	14	20.62	20.69	20.57		0
	8	0	20.59	20.64	20.62	0-2	0
	8	4	20.45	20.59	20.59		0
	8	7	20.52	20.57	20.69		0
	15	0	20.46	20.62	20.57		0
64QAM	1	0	20.68	20.60	20.47	0-2	0
	1	7	20.45	20.50	20.59		0
	1	14	20.59	20.70	20.64		0
	8	0	20.63	20.57	20.57	0-3	0
	8	4	20.46	20.61	20.59		0
	8	7	20.51	20.63	20.70		0
	15	0	20.45	20.62	20.58		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	20.38	20.31	20.49	0	0
	1	2	20.29	20.29	20.55		0
	1	5	20.19	20.31	20.59		0
	3	0	20.38	20.42	20.47		0
	3	2	20.33	20.40	20.48		0
	3	3	20.33	20.39	20.47		0
	6	0	20.33	20.39	20.43	0-1	0
16QAM	1	0	20.66	20.54	20.44	0-1	0
	1	2	20.52	20.41	20.64		0
	1	5	20.34	20.69	20.67		0
	3	0	20.50	20.55	20.49		0
	3	2	20.47	20.43	20.48		0
	3	3	20.49	20.41	20.54		0
	6	0	20.39	20.50	20.49	0-2	0
64QAM	1	0	20.63	20.57	20.47	0-2	0
	1	2	20.56	20.56	20.47		0
	1	5	20.40	20.47	20.68		0
	3	0	20.57	20.48	20.50		0
	3	2	20.45	20.48	20.52		0
	3	3	20.45	20.48	20.49		0
	6	0	20.46	20.47	20.51	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	21.43	21.46	21.23	0	0
	1	25	21.24	21.36	21.47		0
	1	49	21.32	21.24	21.22		0
	25	0	21.35	21.48	21.36	0-1	0
	25	12	21.27	21.34	21.50		0
	25	25	21.31	21.20	21.33		0
	50	0	21.29	21.35	21.36		0
16QAM	1	0	21.16	21.15	20.78	0-1	0
	1	25	20.93	21.13	21.09		0
	1	49	21.03	21.02	20.78		0
	25	0	20.84	20.89	20.84	0-2	0
	25	12	20.75	20.77	20.96		0
	25	25	20.82	20.67	20.83		0
	50	0	20.79	20.84	20.92		0
64QAM	1	0	21.17	21.10	20.90	0-2	0
	1	25	21.02	20.92	21.09		0
	1	49	20.90	20.85	20.80		0
	25	0	20.82	20.98	20.84	0-3	0
	25	12	20.79	20.89	20.96		0
	25	25	20.80	20.65	20.82		0
	50	0	20.79	20.84	20.95		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	21.04	20.89	21.13	0	0
	1	12	20.97	20.75	20.97		0
	1	24	20.85	20.61	20.92		0
	12	0	20.89	20.89	20.92	0-1	0
	12	6	20.90	20.83	20.84		0
	12	13	20.80	20.73	20.81		0
	25	0	20.90	20.83	20.84		0
16QAM	1	0	21.09	21.19	21.27	0-1	0
	1	12	21.08	21.07	21.01		0
	1	24	20.93	20.88	20.87		0
	12	0	20.95	20.93	20.95	0-2	0
	12	6	20.94	20.88	20.86		0
	12	13	20.85	20.85	20.85		0
	25	0	20.91	20.88	20.88		0
64QAM	1	0	21.24	21.19	21.30	0-2	0
	1	12	21.23	21.00	21.18		0
	1	24	20.90	20.86	21.19		0
	12	0	20.94	20.93	20.96	0-3	0
	12	6	20.89	20.88	20.85		0
	12	13	20.85	20.82	20.84		0
	25	0	20.88	20.90	20.88		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	21.10	20.86	20.72	0	0
	1	7	21.05	20.84	20.72		0
	1	14	20.97	20.64	20.64		0
	8	0	21.00	20.93	20.85	0-1	0
	8	4	20.94	20.86	20.82		0
	8	7	20.95	20.78	20.75		0
	15	0	20.96	20.89	20.82		0
16QAM	1	0	21.14	21.00	21.19	0-1	0
	1	7	21.07	21.05	21.08		0
	1	14	20.95	20.89	21.05		0
	8	0	21.05	20.99	20.96	0-2	0
	8	4	20.98	20.88	20.85		0
	8	7	20.98	20.87	20.79		0
	15	0	20.98	20.93	20.86		0
64QAM	1	0	21.13	21.00	21.01	0-2	0
	1	7	21.07	21.11	21.15		0
	1	14	21.00	20.81	21.12		0
	8	0	21.04	20.97	20.96	0-3	0
	8	4	20.99	21.01	20.80		0
	8	7	21.01	20.84	20.80		0
	15	0	20.97	20.95	20.86		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	21.15	20.82	20.99	0	0
	1	2	21.10	20.82	20.89		0
	1	5	21.04	20.83	20.96		0
	3	0	20.97	20.88	20.77		0
	3	2	20.99	20.87	20.76		0
	3	3	20.98	20.88	20.77		0
	6	0	20.99	20.86	20.76	0-1	0
16QAM	1	0	21.14	21.09	20.83	0-1	0
	1	2	21.09	21.10	20.58		0
	1	5	21.05	20.99	20.79		0
	3	0	21.08	21.06	20.94		0
	3	2	21.10	21.07	20.98		0
	3	3	21.08	21.05	20.88		0
	6	0	21.02	20.97	20.84	0-2	0
64QAM	1	0	21.28	21.01	21.13	0-2	0
	1	2	21.06	21.10	20.98		0
	1	5	21.13	21.02	20.90		0
	3	0	21.17	21.08	20.97		0
	3	2	21.04	21.04	20.89		0
	3	3	21.07	21.09	20.90		0
	6	0	21.12	20.98	20.85	0-3	0

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LTE Band 5

Table 8-61
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	20.48	0	0
	1	25	20.65		0
	1	49	20.63		0
	25	0	20.51	0-1	0
	25	12	20.59		0
	25	25	20.70		0
	50	0	20.64		0
16QAM	1	0	20.42	0-1	0
	1	25	20.58		0
	1	49	20.63		0
	25	0	20.28	0-2	0
	25	12	20.36		0
	25	25	20.50		0
	50	0	20.45		0
64QAM	1	0	20.45	0-2	0
	1	25	20.54		0
	1	49	20.48		0
	25	0	20.29	0-3	0
	25	12	20.35		0
	25	25	20.49		0
	50	0	20.44		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 8-62
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	20.32	20.39	20.14	0	0
	1	12	20.24	20.50	20.19		0
	1	24	20.26	20.59	20.27		0
	12	0	20.30	20.37	20.21	0-1	0
	12	6	20.30	20.36	20.24		0
	12	13	20.29	20.45	20.26		0
	25	0	20.30	20.47	20.27		0
16QAM	1	0	20.56	20.47	20.25	0-1	0
	1	12	20.53	20.61	20.29		0
	1	24	20.55	20.69	20.54		0
	12	0	20.35	20.40	20.25	0-2	0
	12	6	20.34	20.44	20.29		0
	12	13	20.34	20.50	20.25		0
	25	0	20.29	20.44	20.29		0
64QAM	1	0	20.55	20.39	20.25	0-2	0
	1	12	20.52	20.52	20.37		0
	1	24	20.55	20.63	20.54		0
	12	0	20.36	20.45	20.24	0-3	0
	12	6	20.34	20.42	20.26		0
	12	13	20.35	20.52	20.26		0
	25	0	20.36	20.40	20.27		0

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Table 8-63
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	20.27	20.27	20.21	0	0
	1	7	20.25	20.41	20.23		0
	1	14	20.19	20.38	20.27		0
	8	0	20.39	20.41	20.29	0-1	0
	8	4	20.35	20.45	20.29		0
	8	7	20.34	20.47	20.37		0
	15	0	20.35	20.43	20.29		0
16QAM	1	0	20.44	20.39	20.34	0-1	0
	1	7	20.62	20.62	20.41		0
	1	14	20.44	20.49	20.43		0
	8	0	20.45	20.44	20.33	0-2	0
	8	4	20.44	20.49	20.34		0
	8	7	20.44	20.50	20.45		0
	15	0	20.39	20.48	20.30		0
64QAM	1	0	20.50	20.43	20.33	0-2	0
	1	7	20.40	20.67	20.48		0
	1	14	20.37	20.54	20.40		0
	8	0	20.48	20.46	20.36	0-3	0
	8	4	20.40	20.47	20.31		0
	8	7	20.39	20.51	20.44		0
	15	0	20.36	20.47	20.30		0

Table 8-64
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	20.32	20.34	20.46	0	0
	1	2	20.29	20.33	20.51		0
	1	5	20.27	20.43	20.54		0
	3	0	20.41	20.46	20.42		0
	3	2	20.38	20.52	20.42		0
	3	3	20.37	20.52	20.46		0
	6	0	20.40	20.51	20.44	0-1	0
16QAM	1	0	20.60	20.46	20.50	0-1	0
	1	2	20.54	20.51	20.65		0
	1	5	20.46	20.69	20.67		0
	3	0	20.51	20.45	20.48		0
	3	2	20.50	20.57	20.46		0
	3	3	20.53	20.59	20.44		0
	6	0	20.49	20.62	20.46	0-2	0
64QAM	1	0	20.64	20.58	20.47	0-2	0
	1	2	20.58	20.59	20.49		0
	1	5	20.50	20.67	20.62		0
	3	0	20.55	20.49	20.53		0
	3	2	20.54	20.66	20.55		0
	3	3	20.56	20.58	20.48		0
	6	0	20.48	20.61	20.44	0-3	0

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Table 8-65
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	17.52	0	0
	1	25	17.61		0
	1	49	17.55		0
	25	0	17.67	0-1	0
	25	12	17.65		0
	25	25	17.70		0
16QAM	50	0	17.60	0-1	0
	1	0	17.39		0
	1	25	17.52		0
	1	49	17.53	0-2	0
	25	0	17.50		0
	25	12	17.50		0
64QAM	25	25	17.63	0-2	0
	50	0	17.56		0
	1	0	17.30	0-2	0
	1	25	17.46		0
	1	49	17.46		0
	25	0	17.17	0-3	0
	25	12	17.24		0
	25	25	17.36		0
	50	0	17.32		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 8-66
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	17.39	17.33	17.41	0	0
	1	12	17.35	17.38	17.45		0
	1	24	17.32	17.46	17.57		0
	12	0	17.40	17.44	17.33	0-1	0
	12	6	17.38	17.43	17.39		0
	12	13	17.37	17.50	17.39		0
	25	0	17.39	17.51	17.43		0
16QAM	1	0	17.53	17.63	17.26	0-1	0
	1	12	17.57	17.52	17.38		0
	1	24	17.39	17.65	17.54		0
	12	0	17.41	17.49	17.34	0-2	0
	12	6	17.35	17.53	17.36		0
	12	13	17.32	17.58	17.41		0
	25	0	17.38	17.58	17.41		0
64QAM	1	0	17.58	17.64	17.37	0-2	0
	1	12	17.42	17.70	17.43		0
	1	24	17.41	17.70	17.58		0
	12	0	17.42	17.52	17.38	0-3	0
	12	6	17.34	17.51	17.39		0
	12	13	17.34	17.56	17.38		0
	25	0	17.36	17.57	17.39		0

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Table 8-67
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	17.30	17.39	17.28	0	0
	1	7	17.32	17.49	17.34		0
	1	14	17.25	17.44	17.36		0
	8	0	17.42	17.50	17.42	0-1	0
	8	4	17.39	17.57	17.41		0
	8	7	17.38	17.56	17.50		0
	15	0	17.40	17.59	17.43		0
16QAM	1	0	17.57	17.55	17.46	0-1	0
	1	7	17.37	17.68	17.51		0
	1	14	17.45	17.67	17.61		0
	8	0	17.55	17.58	17.48	0-2	0
	8	4	17.45	17.62	17.40		0
	8	7	17.46	17.65	17.54		0
	15	0	17.48	17.65	17.43		0
64QAM	1	0	17.41	17.39	17.35	0-2	0
	1	7	17.37	17.47	17.34		0
	1	14	17.35	17.52	17.39		0
	8	0	17.31	17.32	17.21	0-3	0
	8	4	17.22	17.39	17.20		0
	8	7	17.22	17.41	17.27		0
	15	0	17.22	17.39	17.22		0

Table 8-68
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	17.43	17.41	17.50	0	0
	1	2	17.32	17.40	17.57		0
	1	5	17.29	17.48	17.62		0
	3	0	17.43	17.47	17.50		0
	3	2	17.44	17.53	17.53		0
	3	3	17.43	17.51	17.52		0
	6	0	17.41	17.53	17.51	0-1	0
16QAM	1	0	17.68	17.61	17.53	0-1	0
	1	2	17.59	17.61	17.63		0
	1	5	17.64	17.68	17.68		0
	3	0	17.60	17.64	17.59		0
	3	2	17.59	17.70	17.54		0
	3	3	17.53	17.61	17.66		0
	6	0	17.57	17.62	17.60	0-2	0
64QAM	1	0	17.45	17.48	17.34	0-2	0
	1	2	17.43	17.44	17.42		0
	1	5	17.31	17.54	17.43		0
	3	0	17.36	17.38	17.34		0
	3	2	17.33	17.46	17.33		0
	3	3	17.32	17.45	17.36		0
	6	0	17.29	17.40	17.28	0-3	0

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Table 8-69
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	20.70	0	0
	1	25	20.63		0
	1	49	20.71		0
	25	0	20.67	0-1	0
	25	12	20.65		0
	25	25	20.68		0
	50	0	20.64		0
16QAM	1	0	20.69	0-1	0
	1	25	20.61		0
	1	49	20.73		0
	25	0	20.53	0-2	0
	25	12	20.53		0
	25	25	20.55		0
	50	0	20.56		0
64QAM	1	0	20.69	0-2	0
	1	25	20.57		0
	1	49	20.64		0
	25	0	20.51	0-3	0
	25	12	20.54		0
	25	25	20.55		0
	50	0	20.56		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 8-70
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	20.92	20.59	21.08	0	0
	1	12	20.97	20.56	20.94		0
	1	24	21.02	20.63	20.90		0
	12	0	20.89	20.68	20.90	0-1	0
	12	6	20.90	20.64	20.81		0
	12	13	20.93	20.63	20.79		0
	25	0	20.92	20.66	20.81		0
16QAM	1	0	21.11	20.85	21.13	0-1	0
	1	12	21.19	20.91	21.07		0
	1	24	21.14	20.99	20.99		0
	12	0	20.94	20.73	20.95	0-2	0
	12	6	20.98	20.71	20.87		0
	12	13	20.99	20.68	20.78		0
	25	0	20.97	20.67	20.85		0
64QAM	1	0	21.12	20.84	21.20	0-2	0
	1	12	21.16	20.85	21.03		0
	1	24	21.19	20.90	21.07		0
	12	0	20.97	20.74	20.94	0-3	0
	12	6	20.96	20.70	20.86		0
	12	13	20.96	20.67	20.83		0
	25	0	20.96	20.71	20.82		0

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Table 8-71
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	20.94	20.65	20.73	0	0
	1	7	21.07	20.70	20.74		0
	1	14	21.03	20.66	20.66		0
	8	0	20.89	20.72	20.86	0-1	0
	8	4	20.95	20.72	20.84		0
	8	7	20.96	20.71	20.78		0
	15	0	20.95	20.74	20.84		0
16QAM	1	0	20.95	20.85	21.07	0-1	0
	1	7	21.02	20.86	21.10		0
	1	14	20.91	20.80	20.90		0
	8	0	20.98	20.85	20.90	0-2	0
	8	4	21.01	20.77	20.85		0
	8	7	21.02	20.77	20.74		0
	15	0	20.97	20.78	20.89		0
64QAM	1	0	20.90	20.82	21.03	0-2	0
	1	7	21.01	20.80	21.04		0
	1	14	20.91	20.88	20.89		0
	8	0	20.96	20.80	20.92	0-3	0
	8	4	21.03	20.78	20.87		0
	8	7	20.97	20.78	20.79		0
	15	0	20.97	20.77	20.87		0

Table 8-72
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	21.01	20.68	20.97	0	0
	1	2	20.98	20.66	20.87		0
	1	5	21.06	20.72	20.94		0
	3	0	20.89	20.73	20.77		0
	3	2	20.89	20.70	20.75		0
	3	3	20.89	20.73	20.74		0
	6	0	20.90	20.70	20.71	0-1	0
16QAM	1	0	20.81	20.97	20.93	0-1	0
	1	2	21.03	20.89	20.70		0
	1	5	21.04	20.95	20.66		0
	3	0	20.94	20.94	20.90		0
	3	2	20.97	20.91	20.83		0
	3	3	21.07	20.90	20.79		0
	6	0	20.96	20.83	20.85	0-2	0
64QAM	1	0	20.94	21.00	20.73	0-2	0
	1	2	21.00	20.88	21.02		0
	1	5	21.06	20.87	21.04		0
	3	0	21.07	20.90	20.90		0
	3	2	20.96	20.95	20.89		0
	3	3	20.96	20.94	20.86		0
	6	0	20.94	20.81	20.84	0-3	0

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Table 8-73
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	17.94	0	0
	1	25	17.89		0
	1	49	17.95		0
	25	0	17.94	0-1	0
	25	12	17.97		0
	25	25	18.00		0
	50	0	17.92		0
16QAM	1	0	17.82	0-1	0
	1	25	17.82		0
	1	49	17.93		0
	25	0	17.80	0-2	0
	25	12	17.82		0
	25	25	17.84		0
	50	0	17.77		0
64QAM	1	0	17.98	0-2	0
	1	25	17.74		0
	1	49	18.00		0
	25	0	17.51	0-3	0
	25	12	17.58		0
	25	25	17.62		0
	50	0	17.52		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 8-74
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	17.84	17.77	17.96	0	0
	1	12	17.90	17.78	17.78		0
	1	24	17.95	17.89	17.73		0
	12	0	17.96	17.79	18.00	0-1	0
	12	6	17.96	17.75	17.92		0
	12	13	17.98	17.74	17.88		0
	25	0	17.98	17.77	17.93	0	
16QAM	1	0	17.82	17.67	17.82	0-1	0
	1	12	17.89	17.74	17.74		0
	1	24	17.99	17.75	17.68		0
	12	0	17.76	17.66	17.82	0-2	0
	12	6	17.78	17.65	17.74		0
	12	13	17.82	17.63	17.73		0
	25	0	17.78	17.63	17.75		0
64QAM	1	0	17.83	17.91	17.98	0-2	0
	1	12	17.79	17.88	17.84		0
	1	24	17.94	17.88	17.91		0
	12	0	17.73	17.70	17.89	0-3	0
	12	6	17.76	17.65	17.74		0
	12	13	17.75	17.66	17.73		0
	25	0	17.76	17.67	17.72		0

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Table 8-75
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	17.80	17.73	17.86	0	0
	1	7	17.94	17.76	17.88		0
	1	14	17.90	17.71	17.78		0
	8	0	17.94	17.85	17.98	0-1	0
	8	4	17.95	17.82	17.95		0
	8	7	17.96	17.80	17.95		0
	15	0	17.94	17.86	17.97		0
16QAM	1	0	17.74	17.61	17.85	0-1	0
	1	7	17.83	17.68	17.87		0
	1	14	17.84	17.63	17.77		0
	8	0	17.70	17.68	17.85	0-2	0
	8	4	17.77	17.64	17.82		0
	8	7	17.81	17.67	17.77		0
	15	0	17.81	17.75	17.78		0
64QAM	1	0	17.69	17.81	17.98	0-2	0
	1	7	17.88	17.82	17.97		0
	1	14	17.85	17.60	17.86		0
	8	0	17.70	17.65	17.85	0-3	0
	8	4	17.86	17.64	17.78		0
	8	7	17.84	17.64	17.76		0
	15	0	17.83	17.71	17.75		0

Table 8-76
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	17.55	17.70	17.74	0	0
	1	2	17.54	17.69	17.69		0
	1	5	17.65	17.68	17.69		0
	3	0	17.61	17.62	17.59		0
	3	2	17.62	17.60	17.60		0
	3	3	17.63	17.61	17.59		0
	6	0	17.62	17.62	17.60	0-1	0
16QAM	1	0	17.82	17.78	17.73	0-1	0
	1	2	17.77	17.79	17.77		0
	1	5	17.86	17.77	17.75		0
	3	0	17.71	17.75	17.66		0
	3	2	17.76	17.74	17.73		0
	3	3	17.74	17.69	17.71		0
	6	0	17.64	17.71	17.68	0-2	0
64QAM	1	0	17.72	17.82	17.80	0-2	0
	1	2	17.78	17.76	17.75		0
	1	5	17.76	17.80	17.78		0
	3	0	17.61	17.78	17.80		0
	3	2	17.64	17.72	17.72		0
	3	3	17.72	17.74	17.70		0
	6	0	17.70	17.68	17.64	0-3	0

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LTE Band 4

Table 8-77
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	14.27	0	0
	1	50	14.47		0
	1	99	14.73		0
	50	0	14.51	0-1	0
	50	25	14.58		0
	50	50	14.72		0
	100	0	14.58		0
16QAM	1	0	14.30	0-1	0
	1	50	14.55		0
	1	99	14.85		0
	50	0	14.29	0-2	0
	50	25	14.34		0
	50	50	14.48		0
	100	0	14.34		0
64QAM	1	0	14.61	0-2	0
	1	50	14.57		0
	1	99	14.62		0
	50	0	14.11	0-3	0
	50	25	14.23		0
	50	50	14.34		0
	100	0	14.26		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 8-78
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	14.83	14.32	14.65	0	0
	1	36	14.69	14.34	14.65		0
	1	74	14.40	14.48	14.42		0
	36	0	14.81	14.25	14.61	0-1	0
	36	18	14.61	14.36	14.63		0
	36	37	14.48	14.46	14.56		0
	75	0	14.59	14.33	14.58		0
16QAM	1	0	14.72	14.38	14.79	0-1	0
	1	36	14.50	14.45	14.84		0
	1	74	14.30	14.64	14.57		0
	36	0	14.55	14.02	14.38	0-2	0
	36	18	14.36	14.17	14.41		0
	36	37	14.24	14.25	14.34		0
	75	0	14.33	14.12	14.36		0
64QAM	1	0	14.81	14.35	14.64	0-2	0
	1	36	14.68	14.29	14.58		0
	1	74	14.38	14.53	14.36		0
	36	0	14.55	14.01	14.29	0-3	0
	36	18	14.34	14.15	14.33		0
	36	37	14.23	14.29	14.30		0
	75	0	14.33	14.17	14.32		0

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Table 8-79
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	14.69	14.23	14.58	0	0	
	1	25	14.70	14.24	14.48		0	
	1	49	14.62	14.36	14.42		0	
	25	0	14.81	14.24	14.58	0-1	0	
	25	12	14.81	14.30	14.52		0	
	25	25	14.78	14.34	14.50		0	
16QAM	50	0	14.85	14.32	14.53	0	0	
	1	0	14.83	14.58	14.52		0-1	0
	1	25	14.82	14.58	14.26			0
	1	49	14.80	14.64	14.29	0-2		0
	25	0	14.55	14.16	14.27		0	
	25	12	14.55	14.13	14.20		0	
64QAM	25	25	14.51	14.23	14.11	0	0	
	50	0	14.57	14.19	14.17		0	
	1	0	14.80	14.48	14.66		0-2	0
	1	25	14.81	14.50	14.48	0		
	1	49	14.79	14.57	14.47	0		
	25	0	14.56	14.07	14.29	0-3	0	
25	12	14.51	14.11	14.16	0			
25	25	14.51	14.09	14.25	0			
	50	0	14.55	14.19	14.27		0	

Table 8-80
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	14.80	14.31	14.55	0	0
	1	12	14.71	14.33	14.55		0
	1	24	14.57	14.53	14.47		0
	12	0	14.83	14.35	14.54	0-1	0
	12	6	14.77	14.37	14.53		0
	12	13	14.60	14.46	14.45		0
	25	0	14.71	14.37	14.52		0
16QAM	1	0	14.82	14.35	14.78	0-1	0
	1	12	14.80	14.43	14.67		0
	1	24	14.61	14.69	14.52		0
	12	0	14.64	14.16	14.33	0-2	0
	12	6	14.51	14.16	14.33		0
	12	13	14.34	14.26	14.23		0
	25	0	14.48	14.14	14.32		0
64QAM	1	0	14.78	14.26	14.52	0-2	0
	1	12	14.68	14.24	14.55		0
	1	24	14.56	14.60	14.28		0
	12	0	14.56	14.07	14.30	0-3	0
	12	6	14.50	14.13	14.29		0
	12	13	14.33	14.21	14.23		0
	25	0	14.44	14.15	14.34		0

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Table 8-81
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	14.71	14.39	14.41	0	0
	1	7	14.69	14.38	14.39		0
	1	14	14.70	14.38	14.38		0
	8	0	14.57	14.34	14.38	0-1	0
	8	4	14.57	14.31	14.39		0
	8	7	14.57	14.32	14.35		0
16QAM	15	0	14.64	14.35	14.37	0	
	1	0	14.82	14.60	14.55	0-1	0
	1	7	14.85	14.53	14.63		0
	1	14	14.81	14.48	14.55		0
	8	0	14.65	14.15	14.31	0-2	0
	8	4	14.62	14.16	14.29		0
8	7	14.59	14.11	14.19	0		
64QAM	15	0	14.53	14.11	14.20	0	
	1	0	14.85	14.48	14.71	0-2	0
	1	7	14.82	14.45	14.80		0
	1	14	14.81	14.57	14.65		0
	8	0	14.66	14.22	14.25	0-3	0
	8	4	14.53	14.19	14.35		0
8	7	14.55	14.25	14.22	0		
	15	0	14.55	14.17	14.18	0	

Table 8-82
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	14.67	14.28	14.35	0	0
	1	2	14.69	14.36	14.38		0
	1	5	14.70	14.33	14.26		0
	3	0	14.71	14.34	14.46		0
	3	2	14.70	14.30	14.41		0
	3	3	14.71	14.37	14.42		0
	6	0	14.72	14.33	14.45	0-1	0
16QAM	1	0	14.82	14.40	14.42	0-1	0
	1	2	14.84	14.56	14.47		0
	1	5	14.79	14.49	14.30		0
	3	0	14.51	14.13	14.12		0
	3	2	14.51	14.14	14.18		0
	3	3	14.47	14.23	14.24		0
	6	0	14.62	14.16	14.17	0-2	0
64QAM	1	0	14.66	14.53	14.24	0-2	0
	1	2	14.60	14.32	14.43		0
	1	5	14.80	14.43	14.31		0
	3	0	14.49	14.21	14.29		0
	3	2	14.48	14.22	14.15		0
	3	3	14.56	14.18	14.26		0
	6	0	14.56	14.17	14.21	0-3	0

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Table 8-83
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	11.28	0	0
	1	50	11.80		0
	1	99	11.86		0
	50	0	11.73	0-1	0
	50	25	11.80		0
	50	50	11.85		0
16QAM	100	0	11.84	0-1	0
	1	0	11.61		0
	1	50	11.83		0
	1	99	11.90	0-2	0
	50	0	11.65		0
	50	25	11.68		0
64QAM	50	50	11.88	0-2	0
	100	0	11.70		0
	1	0	11.32	0-3	0
	1	50	11.62		0
	1	99	11.82		0
	50	0	11.42	0-3	0
	50	25	11.45		0
	50	50	11.74		0
	100	0	11.47		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 8-84
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	11.90	11.67	11.89	0	0
	1	36	11.87	11.85	11.75		0
	1	74	11.70	11.89	11.75		0
	36	0	11.88	11.82	11.90	0-1	0
	36	18	11.86	11.87	11.90		0
	36	37	11.74	11.90	11.87		0
16QAM	75	0	11.85	11.88	11.89	0-1	0
	1	0	11.90	11.51	11.87		0
	1	36	11.75	11.68	11.80		0
	1	74	11.55	11.89	11.56	0-2	0
	36	0	11.85	11.60	11.87		0
	36	18	11.68	11.65	11.79		0
64QAM	36	37	11.53	11.84	11.72	0-2	0
	75	0	11.70	11.64	11.79		0
	1	0	11.73	11.47	11.90		0-2
	1	36	11.56	11.53	11.60	0	
	1	74	11.32	11.75	11.58	0	
	36	0	11.59	11.41	11.79	0-3	0
36	18	11.45	11.42	11.61	0		
36	37	11.34	11.63	11.63	0		
	75	0	11.45	11.43	11.60		0

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Table 8-85
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	11.88	11.72	11.89	0	0
	1	25	11.85	11.80	11.77		0
	1	49	11.72	11.90	11.75		0
	25	0	11.90	11.86	11.87	0-1	0
	25	12	11.88	11.86	11.85		0
	25	25	11.84	11.86	11.81		0
16QAM	50	0	11.87	11.86	11.85	0-1	0
	1	0	11.88	11.58	11.82		0
	1	25	11.89	11.62	11.81		0
	1	49	11.70	11.90	11.69	0-2	0
	25	0	11.87	11.54	11.75		0
	25	12	11.74	11.54	11.74		0
64QAM	25	25	11.66	11.73	11.67	0-2	0
	50	0	11.76	11.57	11.72		0
	1	0	11.80	11.52	11.87		0-2
	1	25	11.56	11.38	11.65	0	
	1	49	11.63	11.67	11.58	0	
	25	0	11.66	11.42	11.59	0-3	0
25	12	11.52	11.46	11.58	0		
25	25	11.48	11.61	11.55	0		
	50	0	11.53	11.45	11.53		0

Table 8-86
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	11.68	11.65	11.56	0	0	
	1	12	11.71	11.62	11.44		0	
	1	24	11.64	11.80	11.42		0	
	12	0	11.76	11.53	11.72	0-1	0	
	12	6	11.76	11.54	11.57		0	
	12	13	11.75	11.62	11.57		0	
16QAM	25	0	11.80	11.55	11.59	0	0	
	1	0	11.87	11.82	11.73		0-1	0
	1	12	11.90	11.75	11.63			0
	1	24	11.87	11.90	11.64	0-2		0
	12	0	11.88	11.68	11.75		0	
	12	6	11.89	11.70	11.62		0	
64QAM	12	13	11.88	11.75	11.62	0	0	
	25	0	11.87	11.71	11.64		0	
	1	0	11.87	11.65	11.62		0-2	0
	1	12	11.74	11.52	11.49	0		
	1	24	11.74	11.71	11.45	0-3		0
	12	0	11.65	11.47	11.49		0	
12	6	11.67	11.41	11.43	0			
64QAM	12	13	11.64	11.49	11.42	0	0	
	25	0	11.68	11.42	11.43		0	

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Table 8-87
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	11.66	11.50	11.47	0	0
	1	7	11.72	11.59	11.51		0
	1	14	11.69	11.60	11.42		0
	8	0	11.79	11.64	11.58	0-1	0
	8	4	11.79	11.62	11.59		0
	8	7	11.81	11.72	11.57		0
	15	0	11.82	11.65	11.59		0
16QAM	1	0	11.75	11.65	11.60	0-1	0
	1	7	11.77	11.70	11.61		0
	1	14	11.87	11.77	11.45		0
	8	0	11.76	11.71	11.55	0-2	0
	8	4	11.82	11.66	11.53		0
	8	7	11.82	11.70	11.50		0
	15	0	11.81	11.62	11.50		0
64QAM	1	0	11.65	11.53	11.56	0-2	0
	1	7	11.78	11.69	11.61		0
	1	14	11.73	11.70	11.48		0
	8	0	11.55	11.50	11.42	0-3	0
	8	4	11.61	11.47	11.41		0
	8	7	11.62	11.52	11.44		0
	15	0	11.57	11.48	11.40		0

Table 8-88
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	11.84	11.61	11.53	0	0
	1	2	11.79	11.60	11.50		0
	1	5	11.83	11.61	11.52		0
	3	0	11.73	11.68	11.60		0
	3	2	11.74	11.64	11.61		0
	3	3	11.75	11.65	11.60		0
	6	0	11.74	11.65	11.58	0-1	0
16QAM	1	0	11.81	11.71	11.55	0-1	0
	1	2	11.83	11.57	11.74		0
	1	5	11.90	11.73	11.63		0
	3	0	11.75	11.54	11.61		0
	3	2	11.71	11.64	11.65		0
	3	3	11.82	11.59	11.55		0
	6	0	11.80	11.62	11.59	0-2	0
64QAM	1	0	11.78	11.59	11.57	0-2	0
	1	2	11.76	11.62	11.52		0
	1	5	11.80	11.34	11.58		0
	3	0	11.61	11.54	11.40		0
	3	2	11.67	11.48	11.68		0
	3	3	11.66	11.50	11.37		0
	6	0	11.63	11.41	11.39	0-3	0

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Table 8-89
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	14.78	0	0
	1	50	14.89		0
	1	99	15.05		0
	50	0	14.82	0-1	0
	50	25	14.88		0
	50	50	15.03		0
16QAM	100	0	14.85	0-1	0
	1	0	14.54		0
	1	50	14.70		0
	1	99	15.03	0-2	0
	50	0	14.67		0
	50	25	14.71		0
64QAM	50	50	14.95	0-2	0
	100	0	14.72		0
	1	0	14.64	0-3	0
	1	50	14.81		0
	1	99	15.03		0
	50	0	14.65	0-3	0
	50	25	14.73		0
	50	50	14.91		0
	100	0	14.71		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 8-90
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	14.77	14.48	15.00	0	0
	1	36	14.65	14.68	14.82		0
	1	74	14.38	14.68	14.59		0
	36	0	14.90	14.67	14.97	0-1	0
	36	18	14.70	14.80	14.74		0
	36	37	14.60	14.80	14.68		0
16QAM	75	0	14.65	14.78	14.73	0-1	0
	1	0	14.96	14.67	15.10		0
	1	36	14.81	14.82	15.05		0
	1	74	14.42	14.70	14.62	0-2	0
	36	0	14.93	14.71	15.02		0
	36	18	14.73	14.86	14.78		0
64QAM	36	37	14.63	14.84	14.68	0-2	0
	75	0	14.66	14.81	14.74		0
	1	0	14.93	14.88	15.10	0-2	0
	1	36	14.70	15.01	14.82		0
	1	74	14.64	15.00	14.69		0
	36	0	14.96	14.71	15.01	0-3	0
	36	18	14.76	14.84	14.79		0
	36	37	14.61	14.85	14.70		0
	75	0	14.68	14.80	14.73		0

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Table 8-91
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	14.89	14.70	14.78	0	0
	1	25	14.75	14.75	14.61		0
	1	49	14.60	14.78	14.46		0
	25	0	14.97	14.77	14.74	0-1	0
	25	12	14.90	14.82	14.70		0
	25	25	14.73	14.86	14.60		0
16QAM	50	0	14.83	14.83	14.71	0	
	1	0	15.10	14.86	14.90	0-1	0
	1	25	14.94	14.89	14.80		0
	1	49	14.82	14.89	14.66		0
	25	0	14.99	14.79	14.76	0-2	0
	25	12	14.91	14.82	14.73		0
25	25	14.75	14.88	14.62	0		
64QAM	50	0	14.88	14.86	14.76	0	
	1	0	15.10	14.92	15.10	0-2	0
	1	25	15.06	14.99	14.98		0
	1	49	14.74	15.00	14.91		0
	25	0	14.97	14.78	14.79	0-3	0
	25	12	14.89	14.82	14.75		0
25	25	14.73	14.89	14.63	0		
	50	0	14.87	14.87	14.75		0

Table 8-92
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	14.82	14.77	14.56	0	0	
	1	12	14.81	14.78	14.45		0	
	1	24	14.79	14.86	14.45		0	
	12	0	14.85	14.69	14.69	0-1	0	
	12	6	14.86	14.77	14.59		0	
	12	13	14.87	14.84	14.60		0	
16QAM	25	0	14.86	14.80	14.60	0	0	
	1	0	14.92	14.92	14.83		0-1	0
	1	12	14.98	14.98	14.73			0
	1	24	14.91	15.07	14.73	0-2		0
	12	0	14.93	14.82	14.77		0	
	12	6	14.96	14.85	14.62		0	
64QAM	12	13	14.94	14.83	14.57	0	0	
	25	0	14.91	14.82	14.62		0	
	1	0	14.87	14.94	14.88		0-2	0
	1	12	14.91	15.03	14.86	0		
	1	24	14.89	15.09	14.75	0		
	12	0	14.95	14.71	14.73	0-3	0	
	12	6	14.93	14.82	14.63		0	
	12	13	14.96	14.87	14.61		0	
	25	0	14.91	14.79	14.62		0	

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Table 8-93
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	14.91	14.87	14.66	0	0
	1	7	14.96	14.92	14.69		0
	1	14	14.95	14.95	14.61		0
	8	0	15.02	14.96	14.80	0-1	0
	8	4	15.01	14.97	14.78		0
	8	7	15.01	15.05	14.79		0
16QAM	15	0	15.04	14.99	14.81	0-1	0
	1	0	14.83	14.78	14.54		0
	1	7	14.85	14.87	14.48		0
	1	14	14.87	15.06	14.55	0-2	0
	8	0	14.78	14.78	14.58		0
	8	4	14.80	14.84	14.57		0
64QAM	8	7	14.86	14.87	14.60	0-2	0
	15	0	14.81	14.80	14.58		0
	1	0	14.85	14.85	14.70		0-2
	1	7	14.87	14.91	14.79	0	
	1	14	14.75	14.95	14.76	0	
	8	0	14.79	14.84	14.68	0-3	0
8	4	14.81	14.77	14.57	0		
8	7	14.76	14.87	14.60	0		
	15	0	14.80	14.81	14.64		0

Table 8-94
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	14.74	14.72	14.59	0	0
	1	2	14.74	14.68	14.54		0
	1	5	14.75	14.71	14.55		0
	3	0	14.80	14.76	14.49		0
	3	2	14.79	14.72	14.48		0
	3	3	14.80	14.77	14.47		0
	6	0	14.84	14.75	14.50	0-1	0
16QAM	1	0	14.98	15.10	14.65	0-1	0
	1	2	15.00	15.08	14.64		0
	1	5	15.03	15.10	14.69		0
	3	0	14.95	14.97	14.65		0
	3	2	14.94	14.94	14.60		0
	3	3	14.93	14.92	14.62		0
	6	0	14.92	14.90	14.58	0-2	0
64QAM	1	0	15.00	15.00	14.80	0-2	0
	1	2	14.97	14.98	14.79		0
	1	5	15.00	14.99	14.75		0
	3	0	14.96	14.94	14.77		0
	3	2	14.94	14.95	14.73		0
	3	3	14.91	14.91	14.75		0
	6	0	14.90	14.94	14.59	0-3	0

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Table 8-95
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	11.52	0	0
	1	50	11.87		0
	1	99	12.08		0
	50	0	11.82	0-1	0
	50	25	11.89		0
	50	50	11.92		0
16QAM	100	0	11.91	0-1	0
	1	0	11.38		0
	1	50	11.60		0
	1	99	11.82	0-2	0
	50	0	11.58		0
	50	25	11.65		0
64QAM	50	50	11.69	0-2	0
	100	0	11.66		0
	1	0	11.31	0-2	0
	1	50	11.58		0
	1	99	11.77		0
	50	0	11.34	0-3	0
	50	25	11.44		0
	50	50	11.44		0
	100	0	11.42		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 8-96
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	11.43	11.28	11.61	0	0
	1	36	11.30	11.51	11.39		0
	1	74	11.23	11.61	11.27		0
	36	0	11.59	11.49	11.71	0-1	0
	36	18	11.38	11.60	11.45		0
	36	37	11.37	11.63	11.44		0
16QAM	75	0	11.38	11.58	11.46	0-1	0
	1	0	11.49	11.48	11.75		0
	1	36	11.27	11.64	11.49		0
	1	74	11.44	11.75	11.39	0-2	0
	36	0	11.60	11.50	11.75		0
	36	18	11.43	11.64	11.49		0
64QAM	36	37	11.37	11.66	11.46	0-2	0
	75	0	11.41	11.60	11.47		0
	1	0	11.56	11.44	11.85		0-2
	1	36	11.38	11.59	11.67	0	
	1	74	11.28	11.67	11.51	0	
	36	0	11.47	11.40	11.78	0-3	0
36	18	11.26	11.50	11.50	0		
36	37	11.24	11.50	11.47	0		
	75	0	11.24	11.49	11.48		0

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Table 8-97
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	11.60	11.45	11.57	0	0
	1	25	11.56	11.50	11.45		0
	1	49	11.35	11.57	11.41		0
	25	0	11.64	11.56	11.54	0-1	0
	25	12	11.63	11.58	11.53		0
	25	25	11.40	11.62	11.50		0
16QAM	50	0	11.51	11.57	11.54	0-1	0
	1	0	11.78	11.45	11.67		0
	1	25	11.59	11.62	11.62		0
	1	49	11.36	11.58	11.49	0-2	0
	25	0	11.65	11.57	11.56		0
	25	12	11.64	11.61	11.55		0
64QAM	25	25	11.45	11.62	11.53	0-2	0
	50	0	11.54	11.60	11.54		0
	1	0	11.52	11.50	11.78		0-2
	1	25	11.46	11.51	11.53	0	
	1	49	11.36	11.58	11.47	0-3	
	25	0	11.44	11.42	11.47		0
25	12	11.42	11.43	11.45	0		
64QAM	25	25	11.26	11.47	11.38	0-3	0
	50	0	11.35	11.43	11.44		0

Table 8-98
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	11.43	11.45	11.27	0	0
	1	12	11.48	11.47	11.19		0
	1	24	11.50	11.57	11.12		0
	12	0	11.58	11.55	11.34	0-1	0
	12	6	11.57	11.61	11.28		0
	12	13	11.65	11.63	11.28		0
16QAM	25	0	11.61	11.59	11.29	0-1	0
	1	0	11.64	11.62	11.28		0
	1	12	11.67	11.58	11.23		0
	1	24	11.59	11.69	11.27	0-2	0
	12	0	11.60	11.57	11.34		0
	12	6	11.61	11.65	11.28		0
64QAM	12	13	11.65	11.68	11.32	0-2	0
	25	0	11.65	11.62	11.32		0
	1	0	11.48	11.54	11.46		0-2
	1	12	11.51	11.53	11.39	0	
	1	24	11.53	11.60	11.40	0-3	
	12	0	11.37	11.38	11.35		0
12	6	11.39	11.42	11.29	0		
64QAM	12	13	11.42	11.45	11.29	0-3	0
	25	0	11.38	11.41	11.29		0

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Table 8-99
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	11.41	11.46	11.27	0	0
	1	7	11.48	11.56	11.33		0
	1	14	11.48	11.51	11.25		0
	8	0	11.55	11.62	11.40	0-1	0
	8	4	11.57	11.60	11.39		0
	8	7	11.58	11.64	11.39		0
	15	0	11.58	11.61	11.40		0
16QAM	1	0	11.61	11.60	11.28	0-1	0
	1	7	11.54	11.54	11.46		0
	1	14	11.57	11.63	11.44		0
	8	0	11.59	11.65	11.43	0-2	0
	8	4	11.61	11.62	11.43		0
	8	7	11.61	11.68	11.39		0
	15	0	11.60	11.64	11.47		0
64QAM	1	0	11.33	11.50	11.38	0-2	0
	1	7	11.45	11.51	11.44		0
	1	14	11.46	11.60	11.34		0
	8	0	11.29	11.44	11.31	0-3	0
	8	4	11.28	11.41	11.30		0
	8	7	11.32	11.45	11.32		0
	15	0	11.30	11.43	11.34		0

Table 8-100
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	11.59	11.75	11.50	0	0
	1	2	11.58	11.69	11.43		0
	1	5	11.62	11.71	11.44		0
	3	0	11.50	11.61	11.37		0
	3	2	11.48	11.61	11.34		0
	3	3	11.50	11.61	11.37		0
	6	0	11.50	11.62	11.36	0-1	0
16QAM	1	0	11.57	11.89	11.40	0-1	0
	1	2	11.69	11.73	11.70		0
	1	5	11.66	11.84	11.48		0
	3	0	11.65	11.71	11.43		0
	3	2	11.59	11.66	11.45		0
	3	3	11.63	11.80	11.51		0
	6	0	11.58	11.70	11.45	0-2	0
64QAM	1	0	11.38	11.50	11.40	0-2	0
	1	2	11.37	11.52	11.34		0
	1	5	11.39	11.55	11.34		0
	3	0	11.34	11.47	11.32		0
	3	2	11.32	11.47	11.29		0
	3	3	11.34	11.47	11.29		0
	6	0	11.28	11.41	11.25	0-3	0

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Table 8-101
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	14.72	0	0
	1	50	14.74		0
	1	99	14.66		0
	50	0	14.71	0-1	0
	50	25	14.79		0
	50	50	14.72		0
16QAM	100	0	14.65	0-1	0
	1	0	14.75		0
	1	50	14.79		0
	1	99	14.76	0-2	0
	50	0	14.61		0
	50	25	14.53		0
64QAM	50	50	14.50	0-2	0
	100	0	14.53		0
	1	0	14.58	0-3	0
	1	50	14.60		0
	1	99	14.52		0
	50	0	14.51	0-3	0
	50	25	14.53		0
	50	50	14.41		0
	100	0	14.50		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 8-102
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	14.13	14.26	14.05	0	0
	1	36	14.14	14.32	14.08		0
	1	74	14.17	14.14	13.84		0
	36	0	14.07	14.23	14.06	0-1	0
	36	18	14.13	14.25	14.09		0
	36	37	14.12	14.15	13.94		0
16QAM	75	0	14.10	14.24	14.06	0-1	0
	1	0	14.56	14.33	14.39		0
	1	36	14.61	14.36	14.44		0
	1	74	14.50	14.22	14.18	0-2	0
	36	0	14.12	14.30	14.07		0
	36	18	14.17	14.32	14.14		0
64QAM	36	37	14.13	14.20	13.95	0-2	0
	75	0	14.13	14.27	14.09		0
	1	0	14.37	14.59	14.15		0-2
	1	36	14.50	14.54	14.36	0	
	1	74	14.40	14.37	14.09	0	
	36	0	14.13	14.30	14.09	0-3	0
36	18	14.17	14.31	14.11	0		
36	37	14.14	14.22	13.94	0		
	75	0	14.13	14.29	14.09		3

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Table 8-103
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	14.19	14.33	14.14	0	0
	1	25	14.06	14.28	14.02		0
	1	49	14.15	14.22	13.88		0
	25	0	14.14	14.34	14.08	0-1	0
	25	12	14.06	14.31	13.96		0
	25	25	14.10	14.30	13.85		0
16QAM	50	0	14.07	14.32	13.95	0-1	0
	1	0	14.53	14.68	14.53		0
	1	25	14.38	14.51	14.30		0
	1	49	14.44	14.48	14.24	0-2	0
	25	0	14.13	14.27	14.05		0
	25	12	14.08	14.30	13.96		0
64QAM	25	25	14.10	14.25	13.87	0-2	0
	50	0	14.06	14.28	13.96		0
	1	0	14.24	14.60	14.45		0-2
	1	25	14.45	14.50	14.01	0	
	1	49	14.41	14.26	14.14	0	
	25	0	14.14	14.31	14.12	0-3	0
25	12	14.05	14.23	14.02	0		
25	25	14.11	14.27	13.90	0		
50	0	14.13	14.30	13.95	0		

Table 8-104
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	14.05	14.27	14.01	0	0
	1	12	13.92	14.23	13.89		0
	1	24	13.85	14.22	13.96		0
	12	0	14.03	14.27	13.94	0-1	0
	12	6	14.02	14.26	13.87		0
	12	13	13.96	14.25	13.89		0
	25	0	14.07	14.28	13.88		0
16QAM	1	0	14.60	14.75	14.20	0-1	0
	1	12	14.42	14.45	14.16		0
	1	24	14.31	14.42	14.23		0
	12	0	14.07	14.29	14.02	0-2	0
	12	6	14.13	14.28	13.97		0
	12	13	14.00	14.26	13.99		0
	25	0	14.08	14.31	13.93		0
64QAM	1	0	14.57	14.71	14.43	0-2	0
	1	12	14.36	14.50	14.22		0
	1	24	14.45	14.71	14.42		0
	12	0	14.08	14.25	13.95	0-3	0
	12	6	14.10	14.28	13.93		0
	12	13	13.97	14.24	13.90		0
	25	0	14.05	14.27	13.86		0

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Table 8-105
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	14.20	14.03	13.82	0	0
	1	7	14.16	14.07	13.83		0
	1	14	14.08	14.00	13.83		0
	8	0	14.15	14.19	13.84	0-1	0
	8	4	14.11	14.18	13.84		0
	8	7	14.11	14.20	13.80		0
	15	0	14.11	14.22	13.83		0
16QAM	1	0	14.57	14.56	14.10	0-1	0
	1	7	14.31	14.66	14.13		0
	1	14	14.25	14.11	14.17		0
	8	0	14.13	14.20	13.87	0-2	0
	8	4	14.11	14.26	13.86		0
	8	7	14.14	14.23	13.87		0
	15	0	14.14	14.23	13.90		0
64QAM	1	0	14.28	14.45	14.04	0-2	0
	1	7	14.39	14.33	14.28		0
	1	14	14.41	14.20	14.11		0
	8	0	14.15	14.21	13.92	0-3	0
	8	4	14.15	14.16	13.87		0
	8	7	14.12	14.23	13.90		0
	15	0	14.12	14.24	13.91		0

Table 8-106
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	14.32	14.67	14.14	0	0
	1	2	13.92	14.23	13.89		0
	1	5	13.85	14.22	13.96		0
	3	0	14.03	14.27	13.94		0
	3	2	14.02	14.26	13.87		0
	3	3	13.96	14.25	13.89		0
	6	0	14.07	14.28	13.88	0-1	0
16QAM	1	0	14.59	14.74	14.19	0-1	0
	1	2	14.41	14.44	14.15		0
	1	5	14.30	14.41	14.22		0
	3	0	14.06	14.28	14.01		0
	3	2	14.12	14.27	13.96		0
	3	3	13.99	14.25	13.98		0
	6	0	14.07	14.30	13.92	0-2	0
64QAM	1	0	14.59	14.73	14.45	0-2	0
	1	2	14.38	14.52	14.24		0
	1	5	14.47	14.73	14.44		0
	3	0	14.10	14.27	13.97		0
	3	2	14.12	14.30	13.95		0
	3	3	13.99	14.26	13.92		0
	6	0	14.07	14.29	13.88	0-3	0

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Table 8-107
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	11.08	0	0
	1	50	11.38		0
	1	99	11.24		0
	50	0	11.22	0-1	0
	50	25	11.27		0
	50	50	11.24		0
16QAM	100	0	11.26	0-1	0
	1	0	11.40		0
	1	50	11.43		0
	1	99	11.27	0-2	0
	50	0	10.94		0
	50	25	11.00		0
64QAM	50	50	10.90	0-2	0
	100	0	11.07		0
	1	0	11.24	0-3	0
	1	50	11.22		0
	1	99	11.07		0
	50	0	11.06	0-3	0
	50	25	11.08		0
	50	50	10.86		0
	100	0	11.01		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 8-108
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	11.24	10.93	11.12	0	0
	1	36	11.00	11.19	10.96		0
	1	74	11.23	11.01	11.05		0
	36	0	10.85	11.28	11.03	0-1	0
	36	18	10.84	11.29	11.04		0
	36	37	10.94	11.26	11.03		0
	75	0	10.84	11.31	11.04	0	
16QAM	1	0	11.02	11.44	11.29	0-1	0
	1	36	10.94	11.53	10.99		0
	1	74	11.23	11.27	11.03		0
	36	0	10.84	11.30	11.04	0-2	0
	36	18	10.87	11.32	11.04		0
	36	37	11.00	11.27	11.02		0
	75	0	10.87	11.32	11.16	0	
64QAM	1	0	10.98	11.40	11.38	0-2	0
	1	36	10.87	11.42	11.26		0
	1	74	11.13	11.24	11.44		0
	36	0	10.87	11.31	11.15	0-3	0
	36	18	10.88	11.34	11.19		0
	36	37	10.98	11.29	11.18		0
	75	0	10.86	11.33	11.17	0	

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Table 8-109
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	11.01	11.13	11.15	0	0	
	1	25	10.94	11.20	11.19		0	
	1	49	11.00	11.22	11.07		0	
	25	0	11.08	11.23	11.13	0-1	0	
	25	12	11.07	11.28	11.12		0	
	25	25	11.06	11.35	11.15		0	
16QAM	50	0	11.07	11.30	11.15	0-1	0	
	1	0	11.16	11.34	11.06		0-1	0
	1	25	11.13	11.50	11.09			0
	1	49	11.08	11.52	11.16	0-2		0
	25	0	11.12	11.30	11.15		0	
	25	12	11.07	11.32	11.14		0	
64QAM	25	25	11.08	11.34	11.20	0-2	0	
	50	0	11.10	11.35	11.16		0	
	1	0	11.29	11.35	11.49		0-2	0
	1	25	11.20	11.44	11.47	0		
	1	49	11.23	11.43	11.51	0-3		0
	25	0	11.12	11.27	11.15		0	
25	12	11.12	11.33	11.14	0			
64QAM	25	25	11.10	11.37	11.21	0-3	0	
	50	0	11.10	11.34	11.20		0	

Table 8-110
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	11.00	11.28	11.21	0	0
	1	12	11.03	11.36	11.17		0
	1	24	11.11	11.40	11.17		0
	12	0	11.13	11.26	11.28	0-1	0
	12	6	11.15	11.28	11.27		0
	12	13	11.16	11.28	11.24		0
16QAM	25	0	11.14	11.29	11.28	0-1	0
	1	0	11.31	11.48	11.37		0
	1	12	11.32	11.49	11.42		0
	1	24	11.27	11.44	11.39	0-2	0
	12	0	11.18	11.23	11.34		0
	12	6	11.13	11.37	11.28		0
64QAM	12	13	11.24	11.34	11.28	0-2	0
	25	0	11.22	11.36	11.37		0
	1	0	11.28	11.67	11.60		0-2
	1	12	11.21	11.52	11.49	0	
	1	24	11.28	11.67	11.34	0-3	
	12	0	11.16	11.31	11.33		0
12	6	11.15	11.30	11.35	0		
64QAM	12	13	11.19	11.33	11.34	0-3	0
	25	0	11.17	11.34	11.33		0

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Table 8-111
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	10.96	11.11	11.11	0	0
	1	7	11.01	11.18	11.11		0
	1	14	10.94	11.14	11.07		0
	8	0	11.11	11.27	11.18	0-1	0
	8	4	11.08	11.28	11.20		0
	8	7	11.07	11.28	11.20		0
	15	0	11.11	11.29	11.22		0
16QAM	1	0	11.15	11.30	11.24	0-1	0
	1	7	11.12	11.51	11.23		0
	1	14	11.13	11.54	11.18		0
	8	0	11.10	11.37	11.23	0-2	0
	8	4	11.09	11.29	11.21		0
	8	7	11.12	11.36	11.18		0
	15	0	11.11	11.31	11.25		0
64QAM	1	0	11.12	11.61	11.45	0-2	0
	1	7	11.13	11.58	11.46		0
	1	14	11.01	11.30	11.36		0
	8	0	11.09	11.36	11.25	0-3	0
	8	4	11.08	11.36	11.25		0
	8	7	11.04	11.37	11.24		0
	15	0	11.03	11.33	11.23		0

Table 8-112
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	10.90	11.21	11.38	0	0
	1	2	10.88	11.20	11.36		0
	1	5	10.91	11.23	11.39		0
	3	0	10.97	11.32	11.29		0
	3	2	10.97	11.29	11.27		0
	3	3	10.96	11.31	11.28		0
	6	0	10.96	11.31	11.27	0-1	0
16QAM	1	0	11.11	11.35	11.37	0-1	0
	1	2	11.06	11.36	11.48		0
	1	5	11.10	11.42	11.45		0
	3	0	11.08	11.40	11.39		0
	3	2	11.05	11.42	11.35		0
	3	3	11.03	11.43	11.30		0
	6	0	10.97	11.39	11.33	0-2	0
64QAM	1	0	11.10	11.60	11.35	0-2	0
	1	2	10.99	11.69	11.33		0
	1	5	11.17	11.67	11.35		0
	3	0	11.01	11.44	11.30		0
	3	2	11.10	11.38	11.38		0
	3	3	11.05	11.33	11.47		0
	6	0	11.05	11.31	11.31	0-3	0

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Table 8-113
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	12.96	0	0
	1	50	13.04		0
	1	99	13.00		0
	50	0	13.17	0-1	0
	50	25	13.06		0
	50	50	13.01		0
16QAM	100	0	12.98	0-1	0
	1	0	13.33		0
	1	50	13.38		0
	1	99	13.36	0-2	0
	50	0	13.19		0
	50	25	13.09		0
64QAM	50	50	13.03	0-2	0
	100	0	13.05		0
	1	0	13.06	0-3	0
	1	50	13.12		0
	1	99	13.09		0
	50	0	13.18		0
	50	25	13.07		0
	50	50	13.04		0
	100	0	13.05		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 8-114
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	13.10	12.81	12.86	0	0
	1	36	13.09	12.87	13.15		0
	1	74	12.84	12.74	13.02		0
	36	0	13.04	13.03	13.02	0-1	0
	36	18	12.97	12.96	13.25		0
	36	37	12.87	12.89	13.21		0
16QAM	75	0	12.93	12.93	13.21	0-1	0
	1	0	13.15	12.84	13.08		0
	1	36	13.08	13.08	13.28		0
	1	74	12.93	12.95	13.23	0-2	0
	36	0	13.08	13.06	13.05		0
	36	18	12.97	12.96	13.28		0
64QAM	36	37	12.90	12.91	13.24	0-2	0
	75	0	12.95	12.93	13.23		0
	1	0	12.96	13.06	13.14	0-2	0
	1	36	13.02	12.96	13.50		0
	1	74	12.86	12.99	13.41		0
	36	0	13.07	13.06	13.09	0-3	0
36	18	12.99	12.99	13.32	0		
36	37	12.90	12.91	13.27	0		
	75	0	12.97	12.93	13.26		0

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Table 8-115
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	12.93	13.10	13.08	0	0	
	1	25	12.91	13.07	13.15		0	
	1	49	12.82	12.99	13.04		0	
	25	0	13.01	13.19	13.28	0-1	0	
	25	12	13.04	13.14	13.25		0	
	25	25	12.98	13.04	13.14		0	
16QAM	50	0	13.05	13.16	13.26	0	0	
	1	0	13.21	13.34	13.22		0-1	0
	1	25	13.17	13.16	13.20			0
	1	49	13.08	13.10	13.04	0-2		0
	25	0	13.05	13.19	13.25		0	
	25	12	13.07	13.14	13.17		0	
64QAM	25	25	13.01	13.06	13.14	0	0	
	50	0	13.04	13.12	13.19		0	
	1	0	13.11	13.33	13.46		0-2	0
	1	25	13.12	13.29	13.44	0		
	1	49	13.02	13.28	13.41	0		
	25	0	12.94	13.13	13.22	0-3	0	
25	12	13.02	13.08	13.21	0			
25	25	12.94	13.03	13.11	0			
	50	0	13.07	13.16	13.16		0	

Table 8-116
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	12.84	13.09	12.99	0	0	
	1	12	12.86	13.06	12.86		0	
	1	24	12.91	13.03	12.87		0	
	12	0	12.93	13.10	13.14	0-1	0	
	12	6	12.93	13.05	13.03		0	
	12	13	12.98	12.98	13.00		0	
16QAM	25	0	12.94	13.01	13.01	0	0	
	1	0	13.14	13.32	13.30		0-1	0
	1	12	13.10	13.22	12.90			0
	1	24	13.10	13.13	13.11	0-2		0
	12	0	12.97	13.07	13.04		0	
	12	6	12.98	13.01	13.01		0	
64QAM	12	13	12.97	12.99	13.02	0	0	
	25	0	13.01	13.01	13.01		0	
	1	0	12.97	13.34	13.33		0-2	0
	1	12	12.98	13.32	13.15	0		
	1	24	13.04	13.21	13.15	0		
	12	0	12.84	13.14	13.08	0-3	0	
12	6	12.93	13.02	13.00	0			
12	13	13.04	12.97	13.00	0			
	25	0	12.96	12.94	13.01		0	

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Table 8-117
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	12.72	12.89	12.88	0	0
	1	7	12.78	12.92	12.94		0
	1	14	12.76	12.76	12.88		0
	8	0	12.87	12.96	13.04	0-1	0
	8	4	12.88	12.98	13.02		0
	8	7	12.89	12.90	13.05		0
16QAM	15	0	12.90	12.99	13.05	0-1	0
	1	0	12.98	12.85	13.10		0
	1	7	12.98	13.09	12.98		0
	1	14	12.90	13.02	13.02	0-2	0
	8	0	12.92	13.05	13.13		0
	8	4	12.95	13.02	13.05		0
64QAM	8	7	12.99	12.91	13.06	0-2	0
	15	0	12.93	12.95	13.04		0
	1	0	12.95	13.18	13.14	0-2	0
	1	7	12.96	13.14	13.26		0
	1	14	12.99	12.94	13.28	0-3	0
	8	0	12.97	12.97	13.17		0
8	4	12.97	13.01	13.11	0		
64QAM	8	7	12.97	12.96	13.10	0-3	0
	15	0	12.89	13.00	13.09		0

Table 8-118
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	12.84	12.90	13.22	0	0
	1	2	12.80	12.88	13.17		0
	1	5	12.85	12.92	13.18		0
	3	0	12.91	12.99	13.14		0
	3	2	12.90	12.98	13.13		0
	3	3	12.91	12.99	13.12		0
	6	0	12.91	12.97	13.14	0-1	0
16QAM	1	0	13.08	13.01	13.32	0-1	0
	1	2	13.06	13.11	13.28		0
	1	5	13.01	13.12	13.37		0
	3	0	13.07	13.05	13.31		0
	3	2	13.10	13.02	13.26		0
	3	3	13.08	13.10	13.26		0
	6	0	12.88	12.98	13.19	0-2	0
64QAM	1	0	13.10	13.16	13.37	0-2	0
	1	2	13.07	13.20	13.31		0
	1	5	13.13	13.07	13.27		0
	3	0	12.98	12.95	13.16		0
	3	2	12.96	13.03	13.28		0
	3	3	13.00	13.02	13.12		0
	6	0	13.00	12.97	13.16	0-3	0

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Table 8-119
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	10.14	0	0
	1	50	10.45		0
	1	99	10.50		0
	50	0	10.40	0-1	0
	50	25	10.41		0
	50	50	10.47		0
16QAM	100	0	10.45	0-1	0
	1	0	9.95		0
	1	50	10.24		0
	1	99	10.43	0-2	0
	50	0	10.11		0
	50	25	10.16		0
64QAM	50	50	10.22	0-2	0
	100	0	10.18		0
	1	0	10.23	0-3	0
	1	50	10.42		0
	1	99	10.45		0
	50	0	10.18		0
	50	25	10.10		0
	50	50	10.07		0
	100	0	10.24		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 8-120
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	9.79	9.98	10.08	0	0
	1	36	9.89	10.15	9.94		0
	1	74	9.85	10.25	10.20		0
	36	0	10.08	10.21	9.99	0-1	0
	36	18	9.97	10.20	10.03		0
	36	37	9.92	10.21	10.16		0
16QAM	75	0	9.98	10.15	10.05	0	
	1	0	10.01	10.28	10.17	0-1	0
	1	36	10.03	10.48	10.12		0
	1	74	10.19	10.49	10.27		0-2
	36	0	10.02	10.18	10.05	0	
	36	18	9.96	10.22	10.06	0	
64QAM	36	37	9.93	10.24	10.14	0-2	0
	75	0	10.01	10.20	10.08		0
	1	0	10.08	10.08	10.30		0-2
	1	36	10.24	10.11	10.35	0	
	1	74	10.06	9.99	10.39	0	
	64QAM	36	0	10.17	10.13	10.34	0-3
36		18	10.12	9.95	10.35	0	
36		37	9.98	9.93	10.45	0	
75		0	10.06	10.01	10.35		0

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Table 8-121
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	10.22	10.18	9.99	0	0
	1	25	10.15	10.18	10.10		0
	1	49	10.05	10.01	10.23		0
	25	0	10.27	10.11	10.07	0-1	0
	25	12	10.23	10.04	10.15		0
	25	25	10.18	9.97	10.27		0
16QAM	50	0	10.27	10.04	10.15	0-1	0
	1	0	10.32	10.17	10.06		0
	1	25	10.29	10.23	10.34		0
	1	49	10.15	10.22	10.39	0-2	0
	25	0	10.28	10.14	10.07		0
	25	12	10.28	10.09	10.18		0
64QAM	25	25	10.24	10.02	10.30	0-2	0
	50	0	10.26	10.04	10.19		0
	1	0	10.07	10.07	10.12		0-2
	1	25	10.13	10.03	10.13	0	
	1	49	10.18	10.05	10.28	0	
	64QAM	25	0	10.11	10.02	9.94	0-3
25		12	10.13	10.09	10.03	0	
25		25	10.00	9.92	10.15	0	
50		0	10.02	9.95	10.05		0

Table 8-122
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	9.71	10.23	10.13	0	0
	1	12	9.69	10.21	10.17		0
	1	24	9.99	10.08	10.16		0
	12	0	9.98	10.13	10.14	0-1	0
	12	6	9.99	10.11	10.23		0
	12	13	10.14	10.10	10.23		0
16QAM	25	0	9.98	10.13	10.24	0-1	0
	1	0	10.03	10.40	10.17		0
	1	12	9.97	10.32	10.17		0
	1	24	10.06	10.29	10.23	0-2	0
	12	0	9.97	10.23	10.13		0
	12	6	9.98	10.22	10.25		0
64QAM	12	13	10.14	10.18	10.23	0-2	0
	25	0	10.06	10.18	10.23		0
	1	0	10.04	10.25	10.28		0-2
	1	12	10.05	10.22	10.24	0	
	1	24	10.26	10.21	10.27	0	
	12	0	9.85	10.09	10.10	0-3	0
12	6	9.91	10.12	10.14	0		
12	13	10.02	10.07	10.13	0		
	25	0	9.84	10.04	10.15		0

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Table 8-123
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	9.92	9.88	10.10	0	0
	1	7	9.96	9.95	10.12		0
	1	14	9.95	9.82	10.07		0
	8	0	10.06	10.01	10.21	0-1	0
	8	4	10.06	10.01	10.16		0
	8	7	10.06	9.95	10.19		0
	15	0	10.08	10.02	10.20	0	
16QAM	1	0	10.12	10.00	10.27	0-1	0
	1	7	10.13	10.18	10.29		0
	1	14	10.04	10.04	10.27		0
	8	0	10.10	10.04	10.30	0-2	0
	8	4	10.02	10.12	10.25		0
	8	7	10.08	10.03	10.24		0
	15	0	10.11	10.05	10.28		0
64QAM	1	0	10.00	10.17	10.33	0-2	0
	1	7	10.09	10.24	10.47		0
	1	14	10.05	10.12	10.40		0
	8	0	9.99	10.04	10.29	0-3	0
	8	4	9.94	10.02	10.32		0
	8	7	9.97	10.01	10.28		0
	15	0	9.95	10.03	10.27		0

Table 8-124
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	10.15	10.18	10.48	0	0
	1	2	10.13	10.15	10.45		0
	1	5	10.15	10.18	10.48		0
	3	0	10.09	10.02	10.35		0
	3	2	10.06	10.01	10.36		0
	3	3	10.06	10.02	10.36		0
	6	0	10.09	10.03	10.34	0-1	0
16QAM	1	0	10.26	10.33	10.43	0-1	0
	1	2	10.25	10.27	10.50		0
	1	5	10.29	10.26	10.48		0
	3	0	10.11	10.18	10.35		0
	3	2	10.04	10.09	10.42		0
	3	3	10.17	10.24	10.41		0
	6	0	10.14	10.15	10.43	0-2	0
64QAM	1	0	10.09	10.25	10.42	0-2	0
	1	2	10.11	10.25	10.42		0
	1	5	10.12	10.22	10.32		0
	3	0	10.08	10.14	10.27		0
	3	2	9.90	10.12	10.32		0
	3	3	10.00	10.16	10.35		0
	6	0	9.96	10.05	10.26	0-3	0

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LTE Band 66

Table 8-125
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	14.84	14.77	14.31	0	0
	1	50	14.61	14.78	14.36		0
	1	99	14.56	14.56	14.54		0
	50	0	14.68	14.82	14.45	0-1	0
	50	25	14.60	14.79	14.55		0
	50	50	14.41	14.69	14.67		0
	100	0	14.60	14.80	14.58		0
16QAM	1	0	14.80	14.41	14.23	0-1	0
	1	50	14.51	14.32	14.28		0
	1	99	14.40	14.17	14.42		0
	50	0	14.27	14.30	14.00	0-2	0
	50	25	14.11	14.26	14.10		0
	50	50	14.00	14.15	14.13		0
	100	0	14.11	14.26	14.13		0
64QAM	1	0	14.56	14.11	14.26	0-2	0
	1	50	14.20	14.06	14.27		0
	1	99	14.09	13.96	14.26		0
	50	0	14.25	14.08	14.02	0-3	0
	50	25	14.03	14.04	14.04		0
	50	50	13.95	13.98	14.08		0
	100	0	13.98	14.03	14.10		0

Table 8-126
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	14.85	14.58	14.44	0	0
	1	36	14.72	14.46	14.46		0
	1	74	14.58	14.46	14.49		0
	36	0	14.83	14.64	14.52	0-1	0
	36	18	14.76	14.59	14.52		0
	36	37	14.60	14.59	14.55		0
	75	0	14.68	14.61	14.54		0
16QAM	1	0	14.76	14.46	14.54	0-1	0
	1	36	14.60	14.38	14.41		0
	1	74	14.56	14.35	14.41		0
	36	0	14.61	14.40	14.28	0-2	0
	36	18	14.54	14.35	14.28		0
	36	37	14.36	14.35	14.33		0
	75	0	14.45	14.35	14.29		0
64QAM	1	0	14.59	14.32	14.16	0-2	0
	1	36	14.45	14.19	14.20		0
	1	74	14.28	14.20	14.22		0
	36	0	14.57	14.37	14.25	0-3	0
	36	18	14.47	14.33	14.24		0
	36	37	14.31	14.31	14.29		0
	75	0	14.41	14.34	14.27		0

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Table 8-127
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	14.71	14.52	14.25	0	0	
	1	25	14.54	14.50	14.49		0	
	1	49	14.21	14.41	14.40		0	
	25	0	14.84	14.61	14.36	0-1	0	
	25	12	14.68	14.63	14.54		0	
	25	25	14.52	14.58	14.51		0	
16QAM	50	0	14.65	14.60	14.52	0-1	0	
	1	0	14.62	14.84	14.30		0-1	0
	1	25	14.57	14.49	14.64			0
	1	49	14.29	14.53	14.38	0-2		0
	25	0	14.54	14.31	14.04		0	
	25	12	14.36	14.30	14.19		0	
64QAM	25	25	14.22	14.27	14.16	0-2	0	
	50	0	14.28	14.28	14.17		0	
	1	0	14.42	14.30	13.91		0-2	0
	1	25	14.25	14.25	14.18	0		
	1	49	13.91	14.12	14.07	0		
	64QAM	25	0	14.57	14.31	13.99	0-3	0
25		12	14.33	14.30	14.16	0		
25		25	14.20	14.26	14.14	0		
50		0	14.31	14.27	14.16	0		

Table 8-128
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	14.55	14.47	14.45	0	0
	1	12	14.62	14.50	14.45		0
	1	24	14.59	14.48	14.31		0
	12	0	14.71	14.56	14.49	0-1	0
	12	6	14.72	14.55	14.41		0
	12	13	14.73	14.55	14.43		0
16QAM	25	0	14.75	14.58	14.44	0-1	0
	1	0	14.65	14.39	14.46		0
	1	12	14.85	14.79	14.36		0
	1	24	14.83	14.35	14.52	0-2	0
	12	0	14.52	14.37	14.25		0
	12	6	14.51	14.35	14.18		0
64QAM	12	13	14.57	14.39	14.15	0-2	0
	25	0	14.56	14.38	14.21		0
	1	0	14.55	14.38	14.51		0-2
	1	12	14.65	14.36	14.39	0	
	1	24	14.83	14.65	14.32	0	
	12	0	14.61	14.41	14.20	0-3	0
12	6	14.43	14.32	14.16	0		
12	13	14.54	14.37	14.14	0		
	25	0	14.51	14.39	14.17		0

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Table 8-129
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	14.69	14.47	14.30	0	0
	1	7	14.68	14.42	14.32		0
	1	14	14.62	14.44	14.22		0
	8	0	14.76	14.58	14.38	0-1	0
	8	4	14.76	14.55	14.41		0
	8	7	14.72	14.53	14.37		0
	15	0	14.80	14.56	14.44		0
16QAM	1	0	14.72	14.54	14.21	0-1	0
	1	7	14.67	14.49	14.22		0
	1	14	14.65	14.61	14.32		0
	8	0	14.53	14.27	14.20	0-2	0
	8	4	14.53	14.19	14.19		0
	8	7	14.42	14.24	14.15		0
	15	0	14.53	14.26	14.21		0
64QAM	1	0	14.67	14.45	14.44	0-2	0
	1	7	14.69	14.40	14.23		0
	1	14	14.65	14.55	14.32		0
	8	0	14.54	14.25	14.21	0-3	0
	8	4	14.54	14.32	14.27		0
	8	7	14.51	14.21	14.23		0
	15	0	14.57	14.31	14.26		0

Table 8-130
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	14.77	14.47	14.49	0	0
	1	2	14.77	14.41	14.47		0
	1	5	14.80	14.44	14.42		0
	3	0	14.72	14.54	14.38		0
	3	2	14.72	14.54	14.39		0
	3	3	14.73	14.52	14.30		0
	6	0	14.73	14.56	14.44	0-1	0
16QAM	1	0	14.67	14.69	14.36	0-1	0
	1	2	14.84	14.30	14.45		0
	1	5	14.80	14.75	14.47		0
	3	0	14.55	14.38	14.24		0
	3	2	14.45	14.30	14.21		0
	3	3	14.60	14.37	14.14		0
	6	0	14.55	14.32	14.20	0-2	0
64QAM	1	0	14.74	14.65	14.34	0-2	0
	1	2	14.85	14.73	14.34		0
	1	5	14.84	14.56	14.33		0
	3	0	14.57	14.39	14.17		0
	3	2	14.60	14.33	14.06		0
	3	3	14.55	14.28	14.11		0
	6	0	14.61	14.38	14.13	0-3	0

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Table 8-131
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	11.84	11.72	11.26	0	0
	1	50	11.54	11.78	11.36		0
	1	99	11.63	11.56	11.39		0
	50	0	11.69	11.76	11.50	0-1	0
	50	25	11.47	11.79	11.54		0
	50	50	11.38	11.61	11.60		0
16QAM	100	0	11.43	11.73	11.58	0-1	0
	1	0	11.78	11.61	11.41		0
	1	50	11.42	11.79	11.49		0
	1	99	11.51	11.53	11.46	0-2	0
	50	0	11.48	11.66	11.35		0
	50	25	11.29	11.68	11.39		0
64QAM	50	50	11.20	11.54	11.42	0-2	0
	100	0	11.30	11.68	11.42		0
	1	0	11.60	11.66	11.40		0-2
	1	50	11.24	11.51	11.41	0	
	1	99	11.46	11.38	11.58	0-3	
	50	0	11.25	11.65	11.28		0
50	25	11.08	11.50	11.28	0		
64QAM	50	50	11.00	11.28	11.41	0-3	0
	100	0	11.06	11.33	11.36		0

Table 8-132
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	11.67	11.53	11.21	0	0
	1	36	11.52	11.54	11.33		0
	1	74	11.28	11.37	11.28		0
	36	0	11.54	11.62	11.38	0-1	0
	36	18	11.43	11.64	11.40		0
	36	37	11.33	11.53	11.46		0
16QAM	75	0	11.41	11.64	11.42	0-1	0
	1	0	11.72	11.82	11.32		0
	1	36	11.61	11.78	11.38		0
	1	74	11.31	11.55	11.32	0-2	0
	36	0	11.56	11.64	11.45		0
	36	18	11.47	11.67	11.41		0
64QAM	36	37	11.40	11.53	11.47	0-2	0
	75	0	11.47	11.63	11.42		0
	1	0	11.65	11.50	11.30		0-2
	1	36	11.39	11.67	11.41	0	
	1	74	11.12	11.36	11.38	0-3	
	36	0	11.43	11.47	11.28		0
36	18	11.24	11.51	11.29	0		
	36	37	11.15	11.34	11.32	0-3	0
	75	0	11.30	11.48	11.29		0

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Table 8-133
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	11.60	11.32	0	0
	1	25	11.43	11.58	11.34		0
	1	49	11.32	11.45	11.32		0
	25	0	11.62	11.64	11.40	0-1	0
	25	12	11.49	11.64	11.42		0
	25	25	11.44	11.51	11.40		0
16QAM	50	0	11.49	11.65	11.44	0-1	0
	1	0	11.75	11.77	11.44		0
	1	25	11.54	11.79	11.29		0
	1	49	11.47	11.58	11.47	0-2	0
	25	0	11.63	11.69	11.40		0
	25	12	11.47	11.69	11.42		0
64QAM	25	25	11.41	11.57	11.38	0-2	0
	50	0	11.47	11.68	11.43		0
	1	0	11.57	11.72	11.53		0-3
	1	25	11.55	11.64	11.62	0	
	1	49	11.48	11.61	11.51	0	
	25	0	11.42	11.54	11.38	0	
64QAM	25	12	11.26	11.56	11.40	0-3	0
	25	25	11.30	11.48	11.33		0
	50	0	11.29	11.56	11.39		0

Table 8-134
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	11.47	11.66	11.25	0	0
	1	12	11.47	11.63	11.22		0
	1	24	11.35	11.51	11.23		0
	12	0	11.52	11.70	11.42	0-1	0
	12	6	11.54	11.60	11.37		0
	12	13	11.48	11.52	11.39		0
16QAM	25	0	11.55	11.62	11.37	0-1	0
	1	0	11.66	11.86	11.45		0
	1	12	11.70	11.81	11.42		0
	1	24	11.58	11.80	11.58	0-2	0
	12	0	11.65	11.78	11.53		0
	12	6	11.64	11.67	11.47		0
64QAM	12	13	11.56	11.57	11.55	0-2	0
	25	0	11.63	11.70	11.50		0
	1	0	11.58	11.69	11.50		0-2
	1	12	11.54	11.59	11.41	0	
	1	24	11.56	11.60	11.39	0-3	
	12	0	11.41	11.63	11.34		0
12	6	11.43	11.60	11.27	0		
	12	13	11.39	11.46	11.32		0
	25	0	11.42	11.53	11.26		0

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Table 8-135

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	11.27	11.57	11.19	0	0
	1	7	11.34	11.58	11.27		0
	1	14	11.34	11.44	11.20		0
	8	0	11.41	11.70	11.34	0-1	0
	8	4	11.44	11.61	11.33		0
	8	7	11.45	11.64	11.30		0
16QAM	15	0	11.45	11.63	11.35	0-1	0
	1	0	11.55	11.81	11.39		0
	1	7	11.69	11.56	11.38		0
	1	14	11.57	11.60	11.33	0-2	0
	8	0	11.62	11.70	11.46		0
	8	4	11.62	11.62	11.49		0
64QAM	8	7	11.62	11.62	11.39	0-2	0
	15	0	11.61	11.61	11.43		0
	1	0	11.45	11.66	11.43		0-2
	1	7	11.61	11.51	11.50	0	
	1	14	11.66	11.35	11.49	0	
	8	0	11.37	11.59	11.38	0-3	0
8	4	11.39	11.45	11.39	0		
8	7	11.38	11.51	11.39	0		
	15	0	11.36	11.46	11.26		0

Table 8-136

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	11.39	11.58	11.48	0	0
	1	2	11.38	11.57	11.44		0
	1	5	11.43	11.61	11.53		0
	3	0	11.47	11.64	11.37		0
	3	2	11.47	11.67	11.38		0
	3	3	11.50	11.64	11.40		0
	6	0	11.47	11.64	11.38	0-1	0
16QAM	1	0	11.61	11.74	11.54	0-1	0
	1	2	11.52	11.60	11.44		0
	1	5	11.67	11.56	11.51		0
	3	0	11.66	11.62	11.42		0
	3	2	11.62	11.69	11.47		0
	3	3	11.66	11.70	11.50		0
	6	0	11.54	11.65	11.44	0-2	0
64QAM	1	0	11.60	11.58	11.37	0-2	0
	1	2	11.51	11.59	11.46		0
	1	5	11.55	11.64	11.42		0
	3	0	11.49	11.58	11.30		0
	3	2	11.41	11.43	11.25		0
	3	3	11.45	11.61	11.29		0
	6	0	11.37	11.45	11.24	0-3	0

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Table 8-137
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	14.60	14.57	14.46	0	0
	1	50	14.53	14.55	14.58		0
	1	99	14.51	14.40	14.59		0
	50	0	14.78	14.95	14.61	0-1	0
	50	25	14.66	14.86	14.70		0
	50	50	14.42	14.63	14.77		0
	100	0	14.53	14.59	14.56		0
16QAM	1	0	14.71	14.75	14.44	0-1	0
	1	50	14.63	14.61	14.73		0
	1	99	14.44	14.36	14.78		0
	50	0	14.59	14.70	14.32	0-2	0
	50	25	14.61	14.59	14.46		0
	50	50	14.39	14.39	14.54		0
	100	0	14.52	14.59	14.46		0
64QAM	1	0	14.65	15.05	14.31	0-2	0
	1	50	14.65	14.94	14.66		0
	1	99	14.48	14.62	14.84		0
	50	0	14.53	14.71	14.32	0-3	0
	50	25	14.48	14.61	14.43		0
	50	50	14.31	14.42	14.52		0
	100	0	14.44	14.62	14.45		0

Table 8-138
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	15.03	14.91	14.73	0	0
	1	36	14.83	14.93	14.92		0
	1	74	14.57	14.74	14.94		0
	36	0	15.04	14.93	14.84	0-1	0
	36	18	14.94	14.96	14.96		0
	36	37	14.78	14.88	14.97		0
	75	0	14.94	14.91	14.93		0
16QAM	1	0	14.92	14.69	14.36	0-1	0
	1	36	14.71	14.74	14.48		0
	1	74	14.49	14.57	14.53		0
	36	0	14.55	14.40	14.37	0-2	0
	36	18	14.46	14.41	14.46		0
	36	37	14.29	14.33	14.49		0
	75	0	14.40	14.41	14.51		0
64QAM	1	0	14.97	14.61	14.28	0-2	0
	1	36	14.70	14.61	14.50		0
	1	74	14.55	14.38	14.48		0
	36	0	14.57	14.43	14.33	0-3	0
	36	18	14.44	14.43	14.44		0
	36	37	14.30	14.37	14.48		0
	75	0	14.40	14.45	14.48		0

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Table 8-139
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	14.96	15.05	14.50	0	0
	1	25	14.90	15.04	14.66		0
	1	49	14.78	14.85	14.66		0
	25	0	14.97	14.98	14.63	0-1	0
	25	12	14.96	14.95	14.75		0
	25	25	14.91	14.93	14.77		0
16QAM	50	0	14.95	14.96	14.78	0-1	0
	1	0	15.03	15.05	14.68		0
	1	25	14.97	15.05	14.80		0
	1	49	14.88	14.84	14.84	0-2	0
	25	0	14.93	14.89	14.69		0
	25	12	14.92	14.90	14.80		0
64QAM	25	25	14.86	14.81	14.78	0-2	0
	50	0	14.92	14.89	14.79		0
	1	0	14.98	14.96	14.78		0
	1	25	14.98	14.99	15.05	0-2	0
	1	49	14.69	14.85	15.02		0
	25	0	14.89	14.78	14.73	0-3	0
	25	12	14.78	14.88	14.80		0
	25	25	14.67	14.74	14.83		0
	50	0	14.73	14.85	14.93		0

Table 8-140
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	14.75	14.84	14.60	0	0
	1	12	14.84	14.88	14.67		0
	1	24	14.80	14.83	14.63		0
	12	0	14.86	14.95	14.77	0-1	0
	12	6	14.87	14.92	14.77		0
	12	13	14.88	14.94	14.76		0
16QAM	25	0	14.89	14.96	14.78	0-1	0
	1	0	14.95	15.05	14.75		0
	1	12	15.00	15.04	14.76		0
	1	24	14.89	14.80	14.66	0-2	0
	12	0	14.94	14.93	14.77		0
	12	6	14.88	14.94	14.68		0
64QAM	12	13	14.85	14.81	14.70	0-2	0
	25	0	14.90	14.92	14.71		0
	1	0	14.96	14.82	14.77	0-2	0
	1	12	14.91	14.85	14.85		0
	1	24	14.87	14.77	14.80	0-3	0
	12	0	14.65	14.49	14.55		0
12	6	14.68	14.51	14.57	0		
	12	13	14.70	14.55	14.63		0
	25	0	14.71	14.56	14.62		0

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Table 8-141
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	14.96	14.88	14.65	0	0
	1	7	14.96	14.84	14.61		0
	1	14	15.00	14.80	14.70		0
	8	0	14.94	14.92	14.80	0-1	0
	8	4	14.95	14.91	14.77		0
	8	7	14.83	14.92	14.81		0
16QAM	15	0	14.98	14.93	14.79	0-1	0
	1	0	14.97	14.99	14.68		0
	1	7	14.98	14.91	14.70		0
	1	14	14.93	14.80	14.69	0-2	0
	8	0	14.85	14.97	14.71		0
	8	4	14.89	14.97	14.69		0
64QAM	8	7	14.84	14.85	14.71	0-2	0
	15	0	14.90	14.93	14.70		0
	1	0	15.05	14.80	14.80		0-2
	1	7	15.00	14.72	14.76	0	
	1	14	14.90	14.96	14.93	0	
	8	0	14.73	14.56	14.52	0-3	0
8	4	14.65	14.58	14.52	0		
8	7	14.73	14.50	14.56	0		
	15	0	14.72	14.56	14.48		0

Table 8-142
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	14.97	14.92	14.69	0	0
	1	2	14.94	14.85	14.74		0
	1	5	14.86	14.81	14.75		0
	3	0	15.04	14.95	14.83		0
	3	2	15.00	14.93	14.83		0
	3	3	14.87	14.96	14.81		0
16QAM	6	0	15.02	14.97	14.86	0-1	0
	1	0	15.02	15.05	14.81	0-1	0
	1	2	15.03	15.00	14.69		0
	1	5	14.88	14.85	14.92		0
	3	0	15.03	14.96	14.73		0
	3	2	14.95	14.92	14.76		0
3	3	14.84	14.83	14.76	0		
64QAM	6	0	14.96	14.94	14.77	0-2	0
	1	0	14.94	14.83	14.80	0-2	0
	1	2	14.91	14.83	14.86		0
	1	5	14.88	14.72	14.97		0
	3	0	14.73	14.50	14.75		0
	3	2	14.64	14.51	14.59		0
3	3	14.54	14.41	14.58	0		
	6	0	14.61	14.51	14.66	0-3	0

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Table 8-143
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	12.05	11.74	11.63	0	0
	1	50	11.62	11.66	11.71		0
	1	99	11.73	11.44	11.69		0
	50	0	11.83	11.86	11.61	0-1	0
	50	25	11.62	11.82	11.71		0
	50	50	11.55	11.71	11.77		0
16QAM	100	0	11.58	11.77	11.78	0-1	0
	1	0	12.00	11.99	11.75		0
	1	50	11.80	12.02	11.87		0
	1	99	11.92	11.87	11.85	0-2	0
	50	0	11.70	11.85	11.54		0
	50	25	11.47	11.75	11.59		0
64QAM	50	50	11.47	11.63	11.63	0-2	0
	100	0	11.48	11.72	11.61		0
	1	0	11.55	11.53	11.66	0-2	0
	1	50	11.30	11.56	11.63		0
	1	99	11.47	11.34	11.50		0
	50	0	11.31	11.59	11.49	0-3	0
	50	25	11.16	11.48	11.54		0
	50	50	11.17	11.34	11.51		0
	100	0	11.15	11.48	11.54		0

Table 8-144
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	11.53	11.59	11.42	0	0
	1	36	11.36	11.68	11.62		0
	1	74	11.32	11.46	11.51		0
	36	0	11.65	11.77	11.59	0-1	0
	36	18	11.44	11.77	11.71		0
	36	37	11.41	11.57	11.65		0
16QAM	75	0	11.44	11.68	11.70	0-1	0
	1	0	11.64	11.75	11.64		0
	1	36	11.45	11.83	11.68		0
	1	74	11.35	11.60	11.67	0-2	0
	36	0	11.69	11.81	11.61		0
	36	18	11.48	11.80	11.73		0
64QAM	36	37	11.48	11.60	11.65	0-2	0
	75	0	11.45	11.71	11.71		0
	1	0	11.56	11.76	11.59		0-2
	1	36	11.34	11.78	11.71	0	
	1	74	11.23	11.52	11.61	0-3	
	36	0	11.46	11.69	11.52		0
36	18	11.22	11.68	11.60	0		
64QAM	36	37	11.17	11.42	11.53	0-3	0
	75	0	11.20	11.56	11.60		0

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Table 8-145
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	11.58	11.73	11.44	0	0
	1	25	11.52	11.62	11.48		0
	1	49	11.38	11.46	11.42		0
	25	0	11.68	11.78	11.57	0-1	0
	25	12	11.66	11.77	11.55		0
	25	25	11.48	11.56	11.47		0
16QAM	50	0	11.58	11.70	11.55	0-1	0
	1	0	11.63	11.82	11.59		0
	1	25	11.69	11.68	11.56		0
	1	49	11.49	11.63	11.51	0-2	0
	25	0	11.70	11.82	11.58		0
	25	12	11.70	11.82	11.58		0
64QAM	25	25	11.47	11.57	11.48	0-2	0
	50	0	11.60	11.71	11.59		0
	1	0	11.49	11.83	11.63		0-2
	1	25	11.43	11.82	11.66	0	
	1	49	11.29	11.69	11.61	0	
	25	0	11.39	11.67	11.56	0-3	0
25	12	11.39	11.66	11.54	0		
25	25	11.19	11.45	11.45	0		
	50	0	11.29	11.59	11.56		0

Table 8-146
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	11.56	11.66	11.53	0	0
	1	12	11.60	11.54	11.43		0
	1	24	11.61	11.42	11.41		0
	12	0	11.68	11.79	11.63	0-1	0
	12	6	11.69	11.75	11.54		0
	12	13	11.74	11.58	11.60		0
16QAM	25	0	11.71	11.68	11.57	0-1	0
	1	0	11.72	11.87	11.69		0
	1	12	11.74	11.69	11.62		0
	1	24	11.93	11.56	11.60	0-2	0
	12	0	11.69	11.81	11.69		0
	12	6	11.70	11.74	11.53		0
64QAM	12	13	11.75	11.60	11.61	0-2	0
	25	0	11.72	11.70	11.57		0
	1	0	11.44	11.73	11.64		0-2
	1	12	11.45	11.61	11.56	0	
	1	24	11.48	11.49	11.47	0	
	12	0	11.32	11.62	11.50	0-3	0
12	6	11.34	11.57	11.43	0		
12	13	11.38	11.42	11.43	0		
	25	0	11.34	11.48	11.42		0

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Table 8-147

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	11.53	11.66	11.38	0	0
	1	7	11.58	11.57	11.45		0
	1	14	11.56	11.42	11.31		0
	8	0	11.64	11.74	11.51	0-1	0
	8	4	11.66	11.62	11.51		0
	8	7	11.70	11.64	11.52		0
	15	0	11.66	11.64	11.53		0
16QAM	1	0	11.53	11.83	11.51	0-1	0
	1	7	11.71	11.69	11.60		0
	1	14	11.69	11.47	11.41		0
	8	0	11.68	11.79	11.51	0-2	0
	8	4	11.74	11.67	11.60		0
	8	7	11.65	11.74	11.62		0
	15	0	11.72	11.66	11.55		0
64QAM	1	0	11.27	11.73	11.36	0-2	0
	1	7	11.37	11.63	11.45		0
	1	14	11.36	11.47	11.37		0
	8	0	11.24	11.55	11.32	0-3	0
	8	4	11.25	11.46	11.33		0
	8	7	11.26	11.46	11.33		0
	15	0	11.26	11.47	11.33		0

Table 8-148

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	11.64	11.76	11.54	0	0
	1	2	11.61	11.74	11.50		0
	1	5	11.67	11.67	11.46		0
	3	0	11.56	11.68	11.45		0
	3	2	11.56	11.60	11.46		0
	3	3	11.59	11.60	11.37		0
	6	0	11.55	11.61	11.45	0-1	0
16QAM	1	0	11.73	11.94	11.68	0-1	0
	1	2	11.75	11.86	11.67		0
	1	5	11.80	11.76	11.56		0
	3	0	11.60	11.74	11.52		0
	3	2	11.69	11.65	11.49		0
	3	3	11.71	11.74	11.48		0
	6	0	11.61	11.63	11.50	0-2	0
64QAM	1	0	11.41	11.65	11.67	0-2	0
	1	2	11.37	11.64	11.65		0
	1	5	11.45	11.53	11.52		0
	3	0	11.33	11.56	11.51		0
	3	2	11.33	11.47	11.52		0
	3	3	11.33	11.47	11.45		0
	6	0	11.28	11.44	11.48	0-3	0

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Table 8-149
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	14.57	14.75	14.50	0	0
	1	50	14.50	14.56	14.49		0
	1	99	14.73	14.61	14.49		0
	50	0	14.45	14.60	14.67	0-1	0
	50	25	14.47	14.56	14.54		0
	50	50	14.64	14.55	14.50		0
100	0	14.48	14.56	14.55	0		
16QAM	1	0	14.55	14.62	14.62	0-1	0
	1	50	14.46	14.45	14.50		0
	1	99	14.66	14.51	14.52		0
	50	0	14.22	14.36	14.45	0-2	0
	50	25	14.24	14.32	14.33		0
	50	50	14.37	14.33	14.28		0
100	0	14.24	14.32	14.32	0		
64QAM	1	0	14.47	14.68	14.66	0-2	0
	1	50	14.40	14.53	14.55		0
	1	99	14.60	14.60	14.52		0
	50	0	14.22	14.40	14.48	0-3	0
	50	25	14.24	14.32	14.34		0
	50	50	14.35	14.34	14.30		0
100	0	14.26	14.35	14.34	0		

Table 8-150
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	14.54	14.42	14.46	0	0
	1	36	14.49	14.26	14.31		0
	1	74	14.61	14.33	14.28		0
	36	0	14.48	14.52	14.54	0-1	0
	36	18	14.50	14.41	14.48		0
	36	37	14.55	14.39	14.38		0
16QAM	75	0	14.53	14.39	14.44	0	
	1	0	14.42	14.53	14.64	0-1	0
	1	36	14.45	14.46	14.69		0
	1	74	14.40	14.51	14.58		0-2
	36	0	14.30	14.33	14.39	0	
	36	18	14.31	14.24	14.33	0	
64QAM	36	37	14.33	14.24	14.27	0-2	0
	75	0	14.34	14.24	14.30		0
	1	0	14.46	14.66	14.30	0-2	0
	1	36	14.61	14.62	14.35		0
	1	74	14.52	14.43	14.28		0
	64QAM	36	0	14.38	14.37	14.20	0-3
36		18	14.40	14.34	14.23	0	
36		37	14.49	14.26	14.08	0	
75		0	14.43	14.29	14.20	0	

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Table 8-151
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	14.44	14.45	14.26	0	0	
	1	25	14.44	14.33	14.22		0	
	1	49	14.47	14.09	14.02		0	
	25	0	14.31	14.42	14.27	0-1	0	
	25	12	14.39	14.40	14.23		0	
	25	25	14.43	14.31	14.17		0	
16QAM	50	0	14.37	14.37	14.20	0-1	0	
	1	0	14.59	14.72	14.58		0-2	0
	1	25	14.51	14.66	14.70			0
	1	49	14.53	14.44	14.33	0-2		0
	25	0	14.34	14.45	14.28		0	
	25	12	14.42	14.43	14.24		0	
64QAM	25	25	14.42	14.35	14.17	0-2	0	
	50	0	14.37	14.39	14.19		0	
	1	0	14.65	14.66	14.54		0-2	0
	1	25	14.74	14.50	14.39	0-3		0
	1	49	14.75	14.41	14.15			0
	25	0	14.31	14.43	14.26		0-3	0
25	12	14.40	14.43	14.22	0			
25	25	14.41	14.33	14.19	0			
50	0	14.34	14.41	14.21		0		

Table 8-152
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	14.42	14.36	14.34	0	0
	1	12	14.23	14.26	14.19		0
	1	24	14.43	14.23	14.08		0
	12	0	14.37	14.39	14.21	0-1	0
	12	6	14.25	14.32	14.18		0
	12	13	14.34	14.29	14.08		0
16QAM	25	0	14.26	14.35	14.18	0-1	0
	1	0	14.71	14.57	14.67		0
	1	12	14.53	14.72	14.71		0
	1	24	14.67	14.51	14.54	0-2	0
	12	0	14.39	14.38	14.22		0
	12	6	14.28	14.32	14.20		0
64QAM	12	13	14.36	14.25	14.06	0-2	0
	25	0	14.27	14.36	14.21		0
	1	0	14.71	14.58	14.33		0-2
	1	12	14.51	14.43	14.40	0	
	1	24	14.61	14.62	14.32	0	
	12	0	14.43	14.42	14.20	0-3	0
12	6	14.26	14.31	14.22	0		
12	13	14.36	14.33	14.07	0		
	25	0	14.34	14.35	14.19		0

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Table 8-153
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	14.28	14.35	14.22	0	0
	1	7	14.15	14.27	14.09		0
	1	14	14.02	14.27	14.06		0
	8	0	14.27	14.31	14.17	0-1	0
	8	4	14.25	14.31	14.07		0
	8	7	14.16	14.36	14.03		0
16QAM	15	0	14.26	14.34	14.11	0	
	1	0	14.73	14.57	14.48	0-1	0
	1	7	14.71	14.72	14.29		0
	1	14	14.55	14.75	14.26		0-2
	8	0	14.30	14.29	14.21	0	
	8	4	14.27	14.26	14.05	0	
64QAM	8	7	14.18	14.37	14.09	0-2	0
	15	0	14.31	14.28	14.09		0
	1	0	14.74	14.57	14.60		0-2
	1	7	14.69	14.71	14.44	0	
	1	14	14.63	14.61	14.37	0	
	64QAM	8	0	14.31	14.31	14.20	0-3
8		4	14.28	14.31	14.03	0	
8		7	14.21	14.31	14.07	0	
15		0	14.26	14.33	14.15	0	

Table 8-154
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	14.32	14.15	13.91	0	0
	1	2	14.30	14.16	13.95		0
	1	5	14.20	14.23	13.91		0
	3	0	14.26	14.18	13.96		0
	3	2	14.24	14.15	13.93		0
	3	3	14.25	14.18	13.94		0
	6	0	14.24	14.19	13.97	0-1	0
16QAM	1	0	14.73	14.65	14.26	0-1	0
	1	2	14.57	14.50	14.26		0
	1	5	14.70	14.62	14.37		0
	3	0	14.32	14.19	14.04		0
	3	2	14.24	14.22	13.94		0
	3	3	14.26	14.20	14.00		0
	6	0	14.29	14.27	13.98	0-2	0
64QAM	1	0	14.63	14.32	14.14	0-2	0
	1	2	14.49	14.41	14.13		0
	1	5	14.45	14.42	14.09		0
	3	0	14.29	14.25	13.95		0
	3	2	14.28	14.18	13.97		0
	3	3	14.28	14.26	13.98		0
	6	0	14.32	14.25	13.98	0-3	0

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Table 8-155
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	11.31	11.41	11.35	0	0
	1	50	11.13	11.23	11.33		0
	1	99	11.71	11.22	11.28		0
	50	0	11.41	11.39	11.29	0-1	0
	50	25	11.34	11.36	11.30		0
	50	50	11.44	11.34	11.24		0
16QAM	100	0	11.37	11.33	11.28	0-1	0
	1	0	11.20	11.56	11.76		0
	1	50	11.10	11.32	11.77		0
	1	99	11.45	11.57	11.60	0-2	0
	50	0	10.95	11.35	11.49		0
	50	25	11.14	11.27	11.45		0
64QAM	50	50	11.27	11.34	11.28	0-2	0
	100	0	11.18	11.28	11.34		0
	1	0	11.25	11.73	11.48		0-2
	1	50	11.20	11.50	11.53	0	
	1	99	11.45	11.57	11.56	0	
	64QAM	50	0	11.10	11.27	11.34	0-3
50		25	11.15	11.18	11.36	0	
50		50	11.28	11.17	11.28	0	
100		0	11.17	11.15	11.30		0

Table 8-156
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	11.25	11.24	11.45	0	0
	1	36	11.06	11.19	11.26		0
	1	74	11.37	11.25	11.19		0
	36	0	11.05	11.37	11.48	0-1	0
	36	18	11.00	11.31	11.31		0
	36	37	11.12	11.33	11.26		0
16QAM	75	0	11.01	11.30	11.31	0-1	0
	1	0	11.45	11.63	11.59		0
	1	36	11.01	11.43	11.49		0
	1	74	11.48	11.44	11.21	0-2	0
	36	0	11.04	11.44	11.52		0
	36	18	11.03	11.35	11.42		0
64QAM	36	37	11.14	11.35	11.30	0-2	0
	75	0	11.03	11.30	11.33		0
	1	0	11.24	11.51	11.74		0-2
	1	36	10.99	11.43	11.80	0	
	1	74	11.43	11.41	11.67	0-3	
	36	0	11.00	11.45	11.55		0
36	18	11.00	11.37	11.38	0		
64QAM	36	37	11.13	11.37	11.33	0-3	0
	75	0	11.03	11.34	11.34		0

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Table 8-157
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	11.12	11.13	11.36	0	0
	1	25	11.03	10.93	11.17		0
	1	49	11.26	10.95	11.26		0
	25	0	11.08	11.19	11.26	0-1	0
	25	12	11.07	11.13	11.23		0
	25	25	11.14	11.17	11.35		0
16QAM	50	0	11.14	11.15	11.25		0
	1	0	11.40	11.39	11.52	0-1	0
	1	25	11.27	11.25	11.35		0
	1	49	11.39	11.32	11.43		0
	25	0	11.29	11.25	11.28	0-2	0
	25	12	11.13	11.15	11.28		0
25	25	11.17	11.18	11.46	0		
64QAM	50	0	11.16	11.18	11.26		0
	1	0	11.22	11.38	11.51	0-2	0
	1	25	11.27	11.18	11.80		0
	1	49	11.35	11.14	11.47		0
	25	0	11.24	11.20	11.27	0-3	0
	25	12	11.15	11.09	11.30		0
25	25	11.16	11.10	11.45	0		
	50	0	11.14	11.19	11.31		0

Table 8-158
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	11.11	11.43	11.20	0	0
	1	12	11.07	11.27	11.26		0
	1	24	11.30	11.31	11.30		0
	12	0	11.15	11.22	11.22	0-1	0
	12	6	11.11	11.22	11.34		0
	12	13	11.14	11.26	11.31		0
16QAM	25	0	11.07	11.28	11.31	0-1	0
	1	0	11.14	11.53	11.45		0
	1	12	11.17	11.42	11.38		0
	1	24	11.03	11.52	11.41	0-2	0
	12	0	11.12	11.31	11.25		0
	12	6	11.07	11.26	11.33		0
64QAM	12	13	10.94	11.25	11.32	0-2	0
	25	0	11.12	11.29	11.33		0
	1	0	11.14	11.68	11.47		0-2
	1	12	11.13	11.51	11.60	0	
	1	24	11.22	11.49	11.61	0-3	
	12	0	11.07	11.28	11.25		0
12	6	11.07	11.29	11.35	0		
64QAM	12	13	10.95	11.29	11.37	0-3	0
	25	0	11.06	11.31	11.34		0

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Table 8-159
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	11.07	11.01	11.12	0	0
	1	7	11.19	11.03	11.18		0
	1	14	11.30	11.00	11.08		0
	8	0	11.14	11.09	11.27	0-1	0
	8	4	11.11	11.10	11.24		0
	8	7	11.09	11.10	11.22		0
16QAM	15	0	11.17	11.13	11.23	0	
	1	0	11.22	11.20	11.15	0-1	0
	1	7	11.31	11.31	11.24		0
	1	14	11.15	11.37	11.16		0-2
	8	0	11.21	11.18	11.28	0	
	8	4	11.16	11.12	11.29	0	
64QAM	8	7	11.12	11.18	11.28	0-2	0
	15	0	11.17	11.14	11.24		0
	1	0	11.20	11.35	11.53		0-2
	1	7	11.17	11.42	11.57	0	
	1	14	11.11	11.15	11.40	0	
	8	0	11.21	11.17	11.32	0-3	0
	8	4	11.15	11.14	11.31		0
	8	7	11.16	11.15	11.23		0
	15	0	11.17	11.19	11.25		0

Table 8-160
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	11.07	11.17	11.41	0	0
	1	2	11.08	11.15	11.35		0
	1	5	11.29	11.14	11.35		0
	3	0	11.14	11.25	11.25		0
	3	2	11.16	11.24	11.25		0
	3	3	11.14	11.24	11.24		0
	6	0	11.16	11.22	11.25	0-1	0
16QAM	1	0	11.20	11.28	11.61	0-1	0
	1	2	11.20	11.44	11.44		0
	1	5	11.23	11.31	11.41		0
	3	0	11.18	11.35	11.35		0
	3	2	11.22	11.34	11.27		0
	3	3	11.26	11.26	11.31		0
	6	0	11.22	11.26	11.22	0-2	0
64QAM	1	0	11.25	11.34	11.44	0-2	0
	1	2	11.19	11.49	11.39		0
	1	5	11.21	11.55	11.61		0
	3	0	11.24	11.29	11.42		0
	3	2	11.31	11.25	11.29		0
	3	3	11.28	11.25	11.37		0
	6	0	11.20	11.22	11.27	0-3	0

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Table 8-161
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	12.85	13.07	13.18	0	0
	1	50	12.83	12.96	12.69		0
	1	99	13.07	13.04	12.88		0
	50	0	12.88	12.98	12.94	0-1	0
	50	25	12.86	13.02	12.85		0
	50	50	12.81	13.13	12.93		0
16QAM	100	0	12.87	13.00	12.85	0-1	0
	1	0	12.99	13.46	13.47		0
	1	50	13.01	13.31	13.04		0
	1	99	13.21	13.43	13.24	0-2	0
	50	0	12.89	13.00	12.92		0
	50	25	12.91	13.03	12.86		0
64QAM	50	50	12.84	13.14	12.94	0-2	0
	100	0	12.90	13.01	12.85		0
	1	0	12.96	13.18	13.50		0-2
	1	50	12.89	13.04	13.08	0	
	1	99	13.14	13.14	13.30	0-3	
	50	0	12.88	12.97	12.94		0
50	25	12.88	13.01	12.86	0		
50	50	12.84	13.11	12.93	0		
64QAM	100	0	12.92	13.02	12.86	0	

Table 8-162
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	13.04	12.84	12.84	0	0
	1	36	13.10	13.02	12.89		0
	1	74	12.98	13.08	12.89		0
	36	0	13.06	12.94	12.90	0-1	0
	36	18	13.06	13.11	12.98		0
	36	37	12.94	13.18	12.98		0
16QAM	75	0	13.01	13.04	12.94	0-1	0
	1	0	13.19	12.89	13.00		0
	1	36	13.14	13.33	12.96		0
	1	74	13.15	13.25	13.09	0-2	0
	36	0	13.05	12.95	12.93		0
	36	18	12.99	13.11	13.01		0
64QAM	36	37	12.94	13.17	13.01	0-2	0
	75	0	12.99	13.06	12.94		0
	1	0	13.11	13.14	13.14		0-2
	1	36	13.20	13.17	13.17	0	
	1	74	13.00	13.25	13.23	0-3	
	36	0	13.06	12.95	12.94		0
36	18	12.99	13.14	13.03	0		
64QAM	36	37	12.94	13.24	13.02	0-3	0
	75	0	12.98	13.09	12.95		0

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Table 8-163
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	12.90	12.99	12.84	0	0
	1	25	12.94	13.04	12.86		0
	1	49	12.88	13.16	12.91		0
	25	0	13.00	13.02	12.92	0-1	0
	25	12	13.04	13.14	12.94		0
	25	25	13.04	13.26	12.96		0
16QAM	50	0	13.07	13.13	12.97	0-1	0
	1	0	13.05	13.10	12.92		0
	1	25	13.11	13.33	13.13		0
	25	0	13.02	13.05	12.93	0-2	0
	25	12	13.07	13.13	12.97		0
	25	25	13.06	13.28	12.99		0
64QAM	50	0	13.10	13.17	13.01	0-2	0
	1	0	13.11	13.20	13.10		0
	1	25	13.16	13.17	13.19		0
	1	49	13.08	13.45	13.30	0-3	0
	25	0	13.09	13.06	12.97		0
	25	12	13.14	13.14	12.99		0
	25	25	13.04	13.27	13.01	0	
	50	0	13.12	13.19	13.00	0	

Table 8-164
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	12.82	12.89	12.81	0	0
	1	12	12.83	13.01	12.76		0
	1	24	12.89	13.19	12.81		0
	12	0	12.90	12.96	12.90	0-1	0
	12	6	12.90	13.00	12.93		0
	12	13	12.97	13.04	12.92		0
16QAM	25	0	12.93	13.02	12.95	0-1	0
	1	0	13.14	13.03	12.92		0
	1	12	12.96	13.04	12.84		0
	1	24	13.18	13.33	12.92	0-2	0
	12	0	12.94	12.95	12.85		0
	12	6	12.92	13.08	12.94		0
64QAM	12	13	13.05	13.04	12.95	0-2	0
	25	0	12.91	13.03	13.00		0
	1	0	12.98	13.11	13.23	0-2	0
	1	12	13.05	13.24	13.27		0
	1	24	13.12	13.47	13.17	0-3	0
	12	0	12.92	13.04	12.94		0
12	6	12.94	12.97	12.99	0		
64QAM	12	13	13.05	13.07	12.96	0-3	0
	25	0	12.96	13.08	12.94		0

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Table 8-165
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	12.71	12.87	12.69	0	0
	1	7	12.77	12.95	12.72		0
	1	14	12.72	12.94	12.72		0
	8	0	12.86	12.96	12.86	0-1	0
	8	4	12.85	13.00	12.81		0
	8	7	12.86	13.00	12.88		0
16QAM	15	0	12.88	13.03	12.86	0-1	0
	1	0	12.93	13.07	12.92		0
	1	7	12.98	13.15	12.69		0
	1	14	12.92	13.13	12.96	0-2	0
	8	0	12.91	13.07	12.85		0
	8	4	12.92	13.04	12.82		0
64QAM	8	7	12.95	13.04	12.97	0-2	0
	15	0	12.94	13.08	12.90		0
	1	0	12.92	13.09	13.01		0-2
	1	7	12.95	13.30	13.05	0	
	1	14	13.00	13.07	13.13	0	
	64QAM	8	0	12.93	13.00	12.97	0-3
8		4	12.95	13.10	12.91	0	
8		7	12.94	13.04	13.01	0	
15		0	12.89	13.12	12.86		0

Table 8-166
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	12.82	13.00	12.99	0	0
	1	2	12.80	13.00	12.98		0
	1	5	12.83	13.00	12.97		0
	3	0	12.91	13.06	12.92		0
	3	2	12.89	13.09	12.89		0
	3	3	12.91	13.09	12.91		0
	6	0	12.90	13.06	12.92	0-1	0
16QAM	1	0	12.96	13.20	13.04	0-1	0
	1	2	13.05	13.11	13.10		0
	1	5	13.10	13.21	13.01		0
	3	0	13.10	13.10	13.03		0
	3	2	12.97	13.14	13.02		0
	3	3	13.02	13.18	13.07		0
	6	0	12.97	13.12	13.02	0-2	0
64QAM	1	0	13.10	13.29	12.99	0-2	0
	1	2	13.07	13.39	13.02		0
	1	5	13.01	13.21	13.06		0
	3	0	12.94	13.08	12.99		0
	3	2	13.04	13.12	12.98		0
	3	3	12.98	13.13	13.04		0
	6	0	12.98	13.02	12.97	0-3	0

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Table 8-167
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	10.16	10.17	10.40	0	0
	1	50	10.04	10.14	10.35		0
	1	99	10.43	10.36	10.40		0
	50	0	10.43	10.17	10.38	0-1	0
	50	25	10.22	10.15	10.32		0
	50	50	10.18	10.18	10.28		0
16QAM	100	0	10.21	10.18	10.28	0-1	0
	1	0	10.09	10.28	9.80		0
	1	50	10.03	10.40	10.12		0
	1	99	10.20	10.50	9.90	0-2	0
	50	0	9.96	10.02	9.96		0
	50	25	9.72	9.96	9.56		0
64QAM	50	50	9.64	10.12	9.48	0-2	0
	100	0	9.75	9.99	9.58		0
	1	0	10.22	10.17	10.28		0-2
	1	50	10.14	10.35	10.15	0	
	1	99	10.40	10.35	10.20	0	
	64QAM	50	0	10.11	10.24	9.90	0-3
50		25	10.09	10.28	9.78	0	
50		50	9.94	10.22	9.80	0	
100		0	10.03	10.24	9.97		0

Table 8-168
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	10.29	10.23	10.34	0	0
	1	36	10.12	10.10	10.22		0
	1	74	10.34	10.29	10.32		0
	36	0	10.35	10.28	10.24	0-1	0
	36	18	10.21	10.19	10.11		0
	36	37	10.11	10.24	10.18		0
	75	0	10.20	10.20	10.11		0
16QAM	1	0	10.34	10.40	10.50	0-1	0
	1	36	10.50	10.42	10.35		0
	1	74	10.37	10.44	10.41		0
	36	0	10.37	10.17	10.28	0-2	0
	36	18	10.10	10.22	10.11		0
	36	37	10.02	10.42	10.13		0
	75	0	10.18	10.38	10.11		0
64QAM	1	0	10.37	10.44	10.48	0-2	0
	1	36	10.28	10.15	10.14		0
	1	74	10.00	10.20	10.17		0
	36	0	10.28	10.03	10.17	0-3	0
	36	18	10.16	10.04	10.02		0
	36	37	9.92	10.02	10.07		0
	75	0	10.15	10.02	10.01		0

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Table 8-169
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	10.23	10.28	10.17	0	0	
	1	25	10.20	10.27	10.15		0	
	1	49	10.23	10.23	10.30		0	
	25	0	10.26	10.35	10.10	0-1	0	
	25	12	10.24	10.33	10.16		0	
	25	25	10.16	10.30	10.26		0	
16QAM	50	0	10.26	10.34	10.14	0	0	
	1	0	10.42	10.40	10.44		0	
	1	25	10.37	10.48	10.40		0-1	0
	1	49	10.30	10.33	10.43	0		
	25	0	10.32	10.38	10.14	0-2		0
	25	12	10.19	10.38	10.19		0	
25	25	10.10	10.34	10.26	0			
64QAM	50	0	10.17	10.35	10.17	0	0	
	1	0	10.25	10.24	10.34		0-2	0
	1	25	10.24	10.15	10.25			0
	1	49	10.24	10.13	10.38	0-3		0
	25	0	10.15	10.06	10.10		0	
	25	12	10.13	10.02	10.14		0	
	25	25	10.09	10.00	10.23		0	
	50	0	10.15	10.04	10.14		0	

Table 8-170
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	10.06	10.28	10.25	0	0
	1	12	10.03	10.29	10.33		0
	1	24	10.35	10.23	10.31		0
	12	0	10.24	10.14	10.24	0-1	0
	12	6	10.14	10.15	10.28		0
	12	13	10.17	10.15	10.25		0
	25	0	10.15	10.15	10.19		0
16QAM	1	0	10.34	10.35	10.25	0-1	0
	1	12	10.19	10.35	10.35		0
	1	24	10.43	10.41	10.39		0
	12	0	10.20	10.21	10.18	0-2	0
	12	6	10.17	10.27	10.20		0
	12	13	10.17	10.23	10.19		0
	25	0	10.21	10.21	10.21		0
64QAM	1	0	10.22	10.34	10.03	0-2	0
	1	12	10.17	10.15	10.17		0
	1	24	10.25	10.18	10.20		0
	12	0	10.07	10.04	9.89	0-3	0
	12	6	10.07	10.04	10.04		0
	12	13	10.15	10.02	10.03		0
	25	0	10.09	10.03	10.02		0

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Table 8-171

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	10.01	10.08	10.00	0	0
	1	7	10.05	10.20	10.12		0
	1	14	10.13	10.10	10.01		0
	8	0	10.11	10.22	10.17	0-1	0
	8	4	10.13	10.22	10.18		0
	8	7	10.13	10.23	10.16		0
16QAM	15	0	10.13	10.23	10.19	0	
	1	0	10.36	10.37	10.49	0-1	0
	1	7	10.30	10.33	10.44		0
	1	14	10.13	10.26	10.47		0
	8	0	10.22	10.29	10.18	0-2	0
	8	4	10.15	10.28	10.26		0
8	7	10.14	10.31	10.22	0		
64QAM	15	0	10.19	10.24	10.21	0	
	1	0	10.08	10.20	10.13	0-2	0
	1	7	10.16	10.23	10.16		0
	1	14	10.15	10.16	10.02		0
	8	0	10.05	10.07	10.00	0-3	0
	8	4	10.02	10.07	9.97		0
8	7	10.04	10.09	9.96	0		
	15	0	10.05	10.07	9.98		0

Table 8-172

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	10.16	10.25	10.10	0	0
	1	2	10.13	10.26	10.04		0
	1	5	10.15	10.25	10.08		0
	3	0	10.09	10.17	9.97		0
	3	2	10.04	10.17	9.99		0
	3	3	10.07	10.17	10.01		0
	6	0	10.07	10.17	10.00	0-1	0
16QAM	1	0	9.97	10.09	9.72	0-1	0
	1	2	9.88	10.17	9.80		0
	1	5	9.81	10.12	9.86		0
	3	0	9.80	10.11	9.74		0
	3	2	9.84	10.10	9.70		0
	3	3	9.89	10.16	9.72		0
	6	0	9.81	10.01	9.72	0-2	0
64QAM	1	0	10.11	10.16	9.94	0-2	0
	1	2	10.13	10.25	10.10		0
	1	5	10.13	10.21	10.01		0
	3	0	10.05	10.04	9.93		0
	3	2	10.01	10.10	9.92		0
	3	3	9.99	10.07	9.87		0
	6	0	9.95	10.03	9.84	0-3	0

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LTE Band 2

Table 8-173
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	14.75	14.66	14.82	0	0
	1	50	14.72	14.39	14.50		0
	1	99	14.96	14.67	14.90		0
	50	0	14.65	14.63	14.67	0-1	0
	50	25	14.71	14.49	14.50		0
	50	50	14.87	14.65	14.70		0
16QAM	100	0	14.74	14.50	14.52	0	
	1	0	14.50	14.47	14.46	0-1	0
	1	50	14.57	14.28	14.18		0
	1	99	14.85	14.50	14.44		0-2
	50	0	14.10	14.13	14.19	0	
	50	25	14.21	14.00	14.03	0	
50	50	14.40	14.14	14.22	0		
64QAM	100	0	14.24	14.01	14.04	0	
	1	0	14.75	14.97	14.96	0-2	0
	1	50	14.86	14.90	14.85		0
	1	99	15.00	15.00	15.00		0
	50	0	14.35	14.46	14.45	0-3	0
	50	25	14.27	14.29	14.32		0
50	50	14.40	14.44	14.30	0		
100	0	14.31	14.30	14.28	0		

Table 8-174
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	14.60	14.55	14.70	0	0	
	1	36	14.78	14.48	14.55		0	
	1	74	14.97	14.61	14.74		0	
	36	0	14.66	14.60	14.33	0-1	0	
	36	18	14.80	14.15	14.26		0	
	36	37	14.93	14.35	14.35		0	
16QAM	75	0	14.80	14.24	14.27	0	0	
	1	0	14.53	14.70	14.20		0-1	0
	1	36	14.82	14.59	14.33			0
	1	74	14.70	14.84	14.41	0-2		0
	36	0	14.26	14.13	14.36		0	
	36	18	14.32	14.19	14.32		0	
64QAM	36	37	14.27	14.39	14.41	0-2	0	
	75	0	14.32	14.26	14.28		0	
	1	0	14.48	14.73	14.92		0-3	0
	1	36	14.69	14.55	14.71	0		
	1	74	14.76	14.76	14.66	0		
	36	0	14.27	14.19	14.42	0		
36	18	14.35	14.20	14.33	0			
36	37	14.33	14.40	14.44	0			
75	0	14.34	14.26	14.28	0			

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Table 8-175
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	14.44	14.41	14.36	0	0
	1	25	14.45	14.41	14.44		0
	1	49	14.53	14.61	14.56		0
	25	0	14.30	14.36	14.33	0-1	0
	25	12	14.32	14.36	14.49		0
	25	25	14.39	14.48	14.55		0
16QAM	50	0	14.50	14.47	14.51	0	
	1	0	14.53	14.79	14.54	0-1	0
	1	25	14.66	14.70	14.65		0
	1	49	14.58	14.68	14.87		0-2
	25	0	14.12	14.22	14.13	0	
	25	12	14.15	14.18	14.28	0	
64QAM	25	25	14.21	14.33	14.39	0-2	0
	50	0	14.25	14.27	14.35		0
	1	0	14.61	14.75	14.68		0-2
	1	25	14.58	14.87	14.78	0	
	1	49	14.72	14.79	14.76	0	
	64QAM	25	0	14.13	14.22	14.16	0-3
25		12	14.16	14.20	14.32	0	
25		25	14.23	14.31	14.37	0	
50		0	14.25	14.28	14.33	0	

Table 8-176
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	14.47	14.48	14.74	0	0	
	1	12	14.51	14.52	14.77		0	
	1	24	14.58	14.41	14.86		0	
	12	0	14.61	14.39	14.78	0-1	0	
	12	6	14.51	14.40	14.79		0	
	12	13	14.59	14.49	14.63		0	
16QAM	25	0	14.55	14.53	14.75	0	0	
	1	0	14.26	14.46	14.47		0-1	0
	1	12	14.22	14.47	14.52			0
	1	24	14.46	14.55	14.62	0-2		0
	12	0	14.09	14.18	14.37		0	
	12	6	14.08	14.18	14.30		0	
64QAM	12	13	14.19	14.25	14.34	0	0	
	25	0	14.09	14.22	14.28		0	
	1	0	14.29	14.52	14.65		0-2	0
	1	12	14.28	14.65	14.74	0		
	1	24	14.61	14.59	14.87	0		
	12	0	14.05	14.12	14.39	0-3	0	
12	6	14.01	14.13	14.42	0			
12	13	14.13	14.22	14.51	0			
	25	0	14.06	14.27	14.42		0	

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Table 8-177
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	14.47	14.30	14.83	0	0
	1	7	14.55	14.39	14.91		0
	1	14	14.49	14.42	14.83		0
	8	0	14.54	14.35	14.70	0-1	0
	8	4	14.57	14.39	14.71		0
	8	7	14.56	14.40	14.59		0
16QAM	15	0	14.54	14.42	14.70	0-1	0
	1	0	14.51	14.63	14.72		0
	1	7	14.64	14.75	14.60		0
	1	14	14.49	14.67	14.71	0-2	0
	8	0	14.09	14.25	14.29		0
	8	4	14.08	14.30	14.38		0
64QAM	8	7	14.11	14.28	14.36	0-2	0
	15	0	14.10	14.27	14.46		0
	1	0	14.43	14.68	14.58		0-2
	1	7	14.36	14.63	14.84	0	
	1	14	14.59	14.63	14.54	0	
	8	0	14.15	14.18	14.38	0-3	0
8	4	14.16	14.37	14.39	0		
8	7	14.04	14.33	14.26	0		
	15	0	14.17	14.35	14.43		0

Table 8-178
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	14.55	14.65	14.57	0	0
	1	2	14.51	14.65	14.50		0
	1	5	14.57	14.64	14.55		0
	3	0	14.54	14.66	14.38		0
	3	2	14.53	14.62	14.38		0
	3	3	14.55	14.63	14.41		0
	6	0	14.54	14.62	14.44	0-1	0
16QAM	1	0	14.37	14.52	14.93	0-1	0
	1	2	14.54	14.63	14.65		0
	1	5	14.62	14.62	14.65		0
	3	0	14.20	14.25	14.43		0
	3	2	14.19	14.34	14.45		0
	3	3	14.33	14.30	14.50		0
	6	0	14.23	14.28	14.43	0-2	0
64QAM	1	0	14.67	14.93	14.95	0-2	0
	1	2	14.57	14.68	14.69		0
	1	5	14.67	14.70	14.73		0
	3	0	14.14	14.16	14.41		0
	3	2	14.25	14.33	14.46		0
	3	3	14.19	14.29	14.41		0
	6	0	14.26	14.33	14.51	0-3	0

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Table 8-179

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	11.39	11.66	11.51	0	0
	1	50	11.41	11.42	11.26		0
	1	99	11.67	11.71	11.47		0
	50	0	11.41	11.40	11.53	0-1	0
	50	25	11.40	11.36	11.40		0
	50	50	11.54	11.55	11.40		0
16QAM	100	0	11.49	11.45	11.41	0-1	0
	1	0	11.49	11.83	11.97		0
	1	50	11.75	11.50	11.62		0
	1	99	11.94	11.96	11.85	0-2	0
	50	0	11.54	11.62	11.70		0
	50	25	11.63	11.42	11.52		0
64QAM	50	50	11.82	11.55	11.60	0-2	0
	100	0	11.66	11.46	11.49		0
	1	0	11.72	11.85	11.83		0-2
	1	50	11.61	11.55	11.60	0	
	1	99	11.85	11.88	11.88	0-3	
	50	0	11.46	11.42	11.66		0
50	25	11.48	11.41	11.45	0		
64QAM	50	50	11.63	11.57	11.50	0-3	0
	100	0	11.53	11.41	11.43		0

Table 8-180

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	11.36	11.56	11.40	0	0
	1	36	11.39	11.41	11.39		0
	1	74	11.69	11.57	11.71		0
	36	0	11.45	11.52	11.44	0-1	0
	36	18	11.52	11.50	11.47		0
	36	37	11.65	11.48	11.63		0
16QAM	75	0	11.54	11.45	11.51	0-1	0
	1	0	11.64	11.51	11.54		0
	1	36	11.52	11.46	11.59		0
	1	74	11.70	11.67	11.78	0-2	0
	36	0	11.56	11.44	11.49		0
	36	18	11.60	11.42	11.53		0
64QAM	36	37	11.67	11.40	11.65	0-2	0
	75	0	11.56	11.38	11.53		0
	1	0	11.39	11.68	11.64		0-2
	1	36	11.67	11.52	11.84	0	
	1	74	11.85	11.84	11.90	0-3	
	36	0	11.43	11.36	11.45		0
36	18	11.48	11.34	11.36	0		
64QAM	36	37	11.48	11.54	11.50	0-3	0
	75	0	11.51	11.39	11.47		0

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Table 8-181

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	11.38	11.55	11.45	0	0
	1	25	11.42	11.39	11.44		0
	1	49	11.48	11.54	11.59		0
	25	0	11.45	11.52	11.51	0-1	0
	25	12	11.39	11.52	11.52		0
	25	25	11.48	11.51	11.62		0
16QAM	50	0	11.49	11.46	11.56	0-1	0
	1	0	11.56	11.64	11.42		0
	1	25	11.50	11.59	11.60		0
	1	49	11.79	11.62	11.76	0-2	0
	25	0	11.50	11.51	11.47		0
	25	12	11.47	11.51	11.54		0
64QAM	25	25	11.58	11.50	11.68	0-2	0
	50	0	11.61	11.44	11.55		0
	1	0	11.62	11.66	11.46		0-2
	1	25	11.54	11.58	11.64	0	
	1	49	11.61	11.81	11.84	0	
	25	0	11.38	11.37	11.38	0-3	0
25	12	11.36	11.39	11.49	0		
25	25	11.47	11.49	11.59	0		
	50	0	11.42	11.45	11.51		0

Table 8-182

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	11.15	11.35	11.27	0	0
	1	12	11.22	11.26	11.42		0
	1	24	11.18	11.32	11.44		0
	12	0	11.38	11.44	11.55	0-1	0
	12	6	11.41	11.43	11.61		0
	12	13	11.42	11.35	11.69		0
16QAM	25	0	11.42	11.38	11.62	0-1	0
	1	0	11.33	11.49	11.55		0
	1	12	11.33	11.45	11.71		0
	1	24	11.46	11.56	11.71	0-2	0
	12	0	11.46	11.52	11.64		0
	12	6	11.44	11.57	11.71		0
64QAM	12	13	11.47	11.44	11.72	0-2	0
	25	0	11.44	11.46	11.70		0
	1	0	11.49	11.49	11.45		0-2
	1	12	11.47	11.56	11.47	0	
	1	24	11.42	11.64	11.65	0	
	12	0	11.37	11.37	11.28	0-3	0
12	6	11.35	11.36	11.35	0		
12	13	11.35	11.37	11.35	0		
	25	0	11.33	11.37	11.27		0

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Table 8-183
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	11.26	11.38	11.48	0	0
	1	7	11.40	11.36	11.59		0
	1	14	11.31	11.28	11.46		0
	8	0	11.39	11.49	11.62	0-1	0
	8	4	11.45	11.42	11.69		0
	8	7	11.46	11.43	11.67		0
16QAM	15	0	11.44	11.44	11.70	0-1	0
	1	0	11.29	11.36	11.73		0
	1	7	11.42	11.50	11.97		0
	1	14	11.36	11.43	11.65	0-2	0
	8	0	11.46	11.50	11.73		0
	8	4	11.46	11.46	11.86		0
64QAM	8	7	11.51	11.41	11.77	0-2	0
	15	0	11.49	11.45	11.82		0
	1	0	11.39	11.42	11.60		0-2
	1	7	11.53	11.75	11.81	0	
	1	14	11.40	11.59	11.79	0-3	
	8	0	11.34	11.42	11.60		0
8	4	11.23	11.46	11.62	0		
64QAM	8	7	11.35	11.50	11.62	0-3	0
	15	0	11.34	11.46	11.62		0

Table 8-184
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	11.52	11.48	11.88	0	0
	1	2	11.44	11.46	11.85		0
	1	5	11.47	11.45	11.74		0
	3	0	11.38	11.39	11.70		0
	3	2	11.37	11.35	11.69		0
	3	3	11.40	11.35	11.70	0	
	6	0	11.39	11.36	11.71	0-1	0
16QAM	1	0	11.50	11.58	11.78	0-1	0
	1	2	11.47	11.68	11.76		0
	1	5	11.50	11.69	11.77		0
	3	0	11.52	11.53	11.80		0
	3	2	11.36	11.46	11.76		0
	3	3	11.46	11.43	11.76	0	
	6	0	11.39	11.51	11.70	0-2	0
64QAM	1	0	11.41	11.35	11.81	0-2	0
	1	2	11.13	11.48	11.81		0
	1	5	11.54	11.54	11.80		0
	3	0	11.25	11.41	11.66		0
	3	2	11.33	11.41	11.74		0
	3	3	11.34	11.44	11.76	0	
	6	0	11.26	11.39	11.62	0-3	0

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Table 8-185
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	13.67	13.83	13.78	0	0
	1	50	13.60	13.59	13.58		0
	1	99	13.81	13.87	13.88		0
	50	0	13.51	13.74	13.74	0-1	0
	50	25	13.61	13.52	13.66		0
	50	50	13.60	13.73	13.81		0
100	0	13.65	13.53	13.69	0		
16QAM	1	0	13.34	13.45	13.72	0-1	0
	1	50	13.23	13.12	13.44		0
	1	99	13.46	13.69	13.82		0
	50	0	13.01	13.15	13.37	0-2	0
	50	25	13.11	13.01	13.38		0
	50	50	13.23	13.25	13.35		0
100	0	13.14	13.00	13.22	0		
64QAM	1	0	13.11	13.51	13.66	0-2	0
	1	50	13.10	13.24	13.37		0
	1	99	13.47	13.69	13.86		0
	50	0	13.03	13.20	13.36	0-3	0
	50	25	13.15	13.00	13.22		0
	50	50	13.32	13.28	13.37		0
100	0	13.19	13.02	13.28	0		

Table 8-186
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	13.40	13.58	13.57	0	0
	1	36	13.48	13.48	13.54		0
	1	74	13.52	13.68	13.80		0
	36	0	13.35	13.43	13.65	0-1	0
	36	18	13.53	13.39	13.66		0
	36	37	13.48	13.47	13.76		0
16QAM	75	0	13.52	13.32	13.66	0-1	0
	1	0	13.07	13.21	13.53		0
	1	36	13.15	13.31	13.42		0
	1	74	13.24	13.60	13.64	0-2	0
	36	0	13.03	13.14	13.45		0
	36	18	13.20	13.08	13.43		0
64QAM	36	37	13.22	13.26	13.53	0-2	0
	75	0	13.21	13.05	13.40		0
	1	0	13.22	13.36	13.65		0-2
	1	36	13.33	13.34	13.63	0	
	1	74	13.41	13.28	13.96	0	
	36	0	13.06	13.20	13.41	0-3	0
36	18	13.26	13.13	13.45	0		
36	37	13.24	13.24	13.63	0		
	75	0	13.28	13.04	13.43		0

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Table 8-187
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	13.34	13.50	13.48	0	0	
	1	25	13.25	13.26	13.61		0	
	1	49	13.42	13.52	13.82		0	
	25	0	13.39	13.48	13.59	0-1	0	
	25	12	13.34	13.38	13.73		0	
	25	25	13.45	13.46	13.84		0	
16QAM	50	0	13.36	13.31	13.74	0-1	0	
	1	0	13.17	13.38	13.41		0-1	0
	1	25	13.21	13.12	13.51			0
	1	49	13.08	13.41	13.63	0-2		0
	25	0	13.09	13.23	13.31		0	
	25	12	13.03	13.13	13.51		0	
64QAM	25	25	13.16	13.19	13.55	0-2	0	
	50	0	13.02	13.12	13.51		0	
	1	0	13.35	13.49	13.63		0-2	0
	1	25	13.02	13.29	13.77	0		
	1	49	13.18	13.34	13.95	0		
	64QAM	25	0	13.08	13.26	13.42	0-3	0
25		12	13.00	13.20	13.58	0		
25		25	13.18	13.27	13.64	0		
50		0	13.07	13.14	13.59	0		

Table 8-188
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	13.40	13.43	13.51	0	0
	1	12	13.42	13.24	13.61		0
	1	24	13.36	13.41	13.71		0
	12	0	13.41	13.39	13.66	0-1	0
	12	6	13.39	13.36	13.74		0
	12	13	13.27	13.34	13.85		0
16QAM	25	0	13.38	13.34	13.77	0-1	0
	1	0	13.15	13.40	13.54		0
	1	12	13.24	13.13	13.44		0
	1	24	13.16	13.31	13.61	0-2	0
	12	0	13.03	13.21	13.45		0
	12	6	13.09	13.18	13.50		0
64QAM	12	13	13.01	13.22	13.55	0-2	0
	25	0	13.11	13.11	13.46		0
	1	0	13.42	13.41	13.61		0-2
	1	12	13.42	13.39	13.57	0	
	1	24	13.31	13.39	13.70	0	
	12	0	13.23	13.22	13.48	0-3	0
12	6	13.12	13.21	13.53	0		
12	13	13.06	13.18	13.64	0		
	25	0	13.15	13.22	13.48		0

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Table 8-189
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	13.18	13.25	13.56	0	0
	1	7	13.33	13.21	13.70		0
	1	14	13.23	13.24	13.59		0
	8	0	13.29	13.32	13.70	0-1	0
	8	4	13.32	13.23	13.79		0
	8	7	13.29	13.26	13.76		0
16QAM	15	0	13.33	13.27	13.82	0-1	0
	1	0	13.37	13.43	13.81		0
	1	7	13.43	13.36	13.85		0
	1	14	13.30	13.50	13.86	0-2	0
	8	0	13.43	13.39	13.78		0
	8	4	13.51	13.32	13.88		0
64QAM	8	7	13.52	13.32	13.88	0-2	0
	15	0	13.47	13.33	13.90		0
	1	0	13.17	13.31	13.58		0-2
	1	7	13.09	13.35	13.70	0	
	1	14	13.08	13.34	13.51	0	
	8	0	13.02	13.20	13.46	0-3	0
8	4	13.09	13.19	13.56	0		
8	7	13.03	13.23	13.53	0		
	15	0	13.06	13.21	13.58		0

Table 8-190
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	13.32	13.26	13.98	0	0
	1	2	13.31	13.25	13.90		0
	1	5	13.40	13.20	13.94		0
	3	0	13.33	13.28	13.79		0
	3	2	13.35	13.19	13.79		0
	3	3	13.39	13.19	13.80	0	
	6	0	13.34	13.22	13.80	0-1	0
16QAM	1	0	13.60	13.59	13.95	0-1	0
	1	2	13.35	13.51	14.00		0
	1	5	13.52	13.44	13.99		0
	3	0	13.45	13.50	13.84		0
	3	2	13.45	13.41	13.79		0
	3	3	13.49	13.39	13.86	0	
	6	0	13.42	13.37	13.84	0-2	0
64QAM	1	0	13.12	13.16	13.77	0-2	0
	1	2	13.15	13.11	13.72		0
	1	5	13.16	13.18	13.73		0
	3	0	13.02	13.08	13.68		0
	3	2	13.00	13.04	13.66		0
	3	3	13.02	13.06	13.67	0	
	6	0	13.00	13.01	13.59	0-3	0

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Table 8-191

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	10.78	10.88	11.00	0	0
	1	50	10.83	10.74	10.91		0
	1	99	10.96	10.94	10.93		0
	50	0	10.92	10.97	10.99	0-1	0
	50	25	10.82	10.88	10.86		0
	50	50	10.98	10.98	10.95		0
16QAM	100	0	10.92	10.89	10.96	0-1	0
	1	0	10.84	10.93	11.00		0
	1	50	10.74	10.69	10.97		0
	1	99	10.91	10.99	10.99	0-2	0
	50	0	10.50	10.53	10.72		0
	50	25	10.47	10.49	10.58		0
64QAM	50	50	10.50	10.66	10.70	0-2	0
	100	0	10.49	10.41	10.57		0
	1	0	10.65	10.90	10.92		0-2
	1	50	10.54	10.68	10.84	0	
	1	99	10.91	10.96	10.80	0	
	50	0	10.36	10.60	10.73	0-3	0
50	25	10.42	10.39	10.48	0		
50	50	10.59	10.57	10.60	0		
	100	0	10.48	10.41	10.51		0

Table 8-192

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	10.55	10.63	10.79	0	0
	1	36	10.47	10.49	10.68		0
	1	74	10.64	10.84	10.65		0
	36	0	10.58	10.58	10.75	0-1	0
	36	18	10.57	10.60	10.78		0
	36	37	10.62	10.78	10.74		0
	75	0	10.60	10.58	10.81		0
16QAM	1	0	10.58	10.69	10.96	0-1	0
	1	36	10.53	10.62	10.78		0
	1	74	10.79	10.90	10.76		0
	36	0	10.59	10.58	10.72	0-2	0
	36	18	10.59	10.59	10.75		0
	36	37	10.63	10.81	10.71		0
	75	0	10.57	10.59	10.79		0
64QAM	1	0	10.52	10.81	10.88	0-2	0
	1	36	10.49	10.69	10.82		0
	1	74	10.63	10.87	10.70		0
	36	0	10.32	10.53	10.58	0-3	0
	36	18	10.38	10.52	10.62		0
	36	37	10.48	10.63	10.55		0
	75	0	10.51	10.49	10.62		0

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Table 8-193

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	10.61	10.60	10.72	0	0
	1	25	10.51	10.51	10.75		0
	1	49	10.54	10.81	10.59		0
	25	0	10.66	10.61	10.82	0-1	0
	25	12	10.62	10.61	10.85		0
	25	25	10.67	10.75	10.76		0
16QAM	50	0	10.64	10.61	10.89		0
	1	0	10.91	10.86	10.72	0-1	0
	1	25	10.65	10.59	10.84		0
	1	49	10.69	10.94	10.77		0
	25	0	10.65	10.61	10.81	0-2	0
	25	12	10.62	10.63	10.85		0
25	25	10.66	10.73	10.74	0		
64QAM	50	0	10.66	10.59	10.87		0
	1	0	10.67	10.70	10.88	0-2	0
	1	25	10.50	10.50	10.92		0
	1	49	10.47	10.71	10.64		0
	25	0	10.41	10.43	10.69	0-3	0
	25	12	10.37	10.37	10.71		0
25	25	10.33	10.49	10.56	0		
	50	0	10.38	10.39	10.73		0

Table 8-194

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	10.41	10.61	10.60	0	0
	1	12	10.37	10.61	10.58		0
	1	24	10.32	10.72	10.60		0
	12	0	10.53	10.69	10.74	0-1	0
	12	6	10.51	10.67	10.74		0
	12	13	10.51	10.79	10.76		0
16QAM	25	0	10.53	10.72	10.78		0
	1	0	10.66	10.72	10.81	0-1	0
	1	12	10.48	10.77	10.77		0
	1	24	10.65	10.84	10.68		
	12	0	10.55	10.71	10.75	0-2	0
	12	6	10.55	10.78	10.75		0
12	13	10.44	10.83	10.73	0		
64QAM	25	0	10.55	10.69	10.75		0
	1	0	10.61	10.69	10.67	0-2	0
	1	12	10.59	10.64	10.45		0
	1	24	10.58	10.79	10.51		0
	12	0	10.46	10.52	10.35	0-3	0
	12	6	10.45	10.48	10.37		0
12	13	10.44	10.52	10.44	0		
	25	0	10.45	10.40	10.40		0

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Table 8-195
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	10.58	10.46	10.52	0	0
	1	7	10.62	10.52	10.59		0
	1	14	10.52	10.55	10.57		0
	8	0	10.70	10.60	10.68	0-1	0
	8	4	10.66	10.59	10.67		0
	8	7	10.63	10.57	10.70		0
	15	0	10.67	10.60	10.70		0
16QAM	1	0	10.76	10.61	10.60	0-1	0
	1	7	10.84	10.50	10.79		0
	1	14	10.65	10.64	10.76		0
	8	0	10.74	10.61	10.71	0-2	0
	8	4	10.70	10.60	10.67		0
	8	7	10.69	10.58	10.70		0
	15	0	10.67	10.66	10.67		0
64QAM	1	0	10.53	10.56	10.62	0-2	0
	1	7	10.54	10.55	10.66		0
	1	14	10.49	10.60	10.71		0
	8	0	10.40	10.45	10.49	0-3	0
	8	4	10.39	10.44	10.48		0
	8	7	10.39	10.46	10.48		0
	15	0	10.40	10.45	10.47		0

Table 8-196
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	10.70	10.84	10.77	0	0
	1	2	10.64	10.76	10.70		0
	1	5	10.66	10.69	10.73		0
	3	0	10.60	10.61	10.63		0
	3	2	10.59	10.61	10.64		0
	3	3	10.58	10.62	10.62		0
	6	0	10.60	10.64	10.64	0-1	0
16QAM	1	0	10.85	10.95	10.84	0-1	0
	1	2	10.77	10.91	10.82		0
	1	5	10.71	10.94	10.81		0
	3	0	10.62	10.69	10.73		0
	3	2	10.61	10.64	10.70		0
	3	3	10.70	10.63	10.72		0
	6	0	10.62	10.70	10.69	0-2	0
64QAM	1	0	10.59	10.71	10.79	0-2	0
	1	2	10.51	10.67	10.79		0
	1	5	10.59	10.70	10.75		0
	3	0	10.49	10.59	10.71		0
	3	2	10.49	10.55	10.69		0
	3	3	10.50	10.58	10.62		0
	6	0	10.42	10.51	10.64	0-3	0

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Table 8-197
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	14.58	14.71	14.47	0	0
	1	50	14.36	14.67	14.63		0
	1	99	14.46	14.60	14.42		0
	50	0	14.28	14.72	14.59	0-1	0
	50	25	14.26	14.63	14.71		0
	50	50	14.36	14.62	14.50		0
16QAM	100	0	14.33	14.63	14.70	0-1	0
	1	0	14.33	14.67	14.43		0
	1	50	14.29	14.68	14.68		0
	1	99	14.44	14.68	14.54	0-2	0
	50	0	14.08	14.37	14.38		0
	50	25	14.12	14.30	14.50		0
64QAM	50	50	14.21	14.31	14.35	0-2	0
	100	0	14.13	14.29	14.38		0
	1	0	14.42	14.30	14.59		0-2
	1	50	14.35	14.27	14.62	0	
	1	99	14.26	14.09	14.69	0	
	64QAM	50	0	14.19	14.13	14.55	0-3
50		25	14.19	14.18	14.34	0	
50		50	14.15	14.13	14.26	0	
100		0	14.14	14.09	14.26	0	

Table 8-198
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	14.56	14.61	14.63	0	0
	1	36	14.44	14.54	14.71		0
	1	74	14.63	14.69	14.67		0
	36	0	14.55	14.56	14.76	0-1	0
	36	18	14.52	14.52	14.77		0
	36	37	14.54	14.48	14.60		0
16QAM	75	0	14.50	14.46	14.68	0-1	0
	1	0	14.75	14.40	14.45		0
	1	36	14.70	14.41	14.62		0
	1	74	14.74	14.38	14.60	0-2	0
	36	0	14.10	14.15	14.29		0
	36	18	14.03	14.05	14.27		0
64QAM	36	37	14.08	13.93	14.22	0-2	0
	75	0	14.03	13.97	14.19		0
	1	0	14.58	14.24	14.63		0-2
	1	36	14.36	14.10	14.72	0	
	1	74	14.53	14.19	14.65	0	
	64QAM	36	0	14.14	14.23	14.44	0-3
36		18	14.09	14.10	14.41	0	
36		37	14.12	14.03	14.18	0	
75		0	14.11	14.07	14.43	0	

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Table 8-199
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	14.26	14.17	14.39	0	0
	1	25	14.05	14.02	14.11		0
	1	49	14.10	14.05	14.24		0
	25	0	14.18	14.20	14.29	0-1	0
	25	12	14.14	14.15	14.21		0
	25	25	14.15	14.12	14.19		0
16QAM	50	0	14.15	14.14	14.21	0-1	0
	1	0	14.38	14.35	14.58		0
	1	25	14.11	14.22	14.26		0
	1	49	14.23	14.14	14.40	0-2	0
	25	0	14.18	14.20	14.28		0
	25	12	14.13	14.17	14.19		0
64QAM	25	25	14.15	14.15	14.17	0-2	0
	50	0	14.15	14.14	14.20		0
	1	0	14.45	14.54	14.77		0-2
	1	25	14.28	14.32	14.51	0	
	1	49	14.25	14.31	14.61	0	
	64QAM	25	0	14.21	14.20	14.31	0-3
25		12	14.18	14.17	14.23	0	
25		25	14.18	14.12	14.21	0	
50		0	14.17	14.15	14.20		0

Table 8-200
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	14.23	14.20	14.02	0	0
	1	12	14.13	14.06	13.98		0
	1	24	14.01	14.12	14.21		0
	12	0	14.21	14.14	14.15	0-1	0
	12	6	14.13	14.12	14.11		0
	12	13	14.05	14.09	14.21		0
16QAM	25	0	14.15	14.12	14.15	0-1	0
	1	0	14.44	14.35	14.31		0
	1	12	14.34	14.21	14.06		0
	1	24	14.36	14.20	14.36	0-2	0
	12	0	14.27	14.18	14.18		0
	12	6	14.15	14.07	14.13		0
64QAM	12	13	14.13	14.08	14.19	0-2	0
	25	0	14.15	14.05	14.12		0
	1	0	14.31	14.39	14.25		0-2
	1	12	14.31	14.26	14.42	0	
	1	24	14.16	14.32	14.53	0	
	12	0	14.28	14.17	14.13	0-3	0
12	6	14.18	14.05	14.14	0		
12	13	14.12	14.03	14.23	0		
	25	0	14.14	14.07	14.12		0

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Table 8-201
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	14.19	13.97	14.03	0	0
	1	7	14.22	13.91	14.16		0
	1	14	14.11	13.87	14.23		0
	8	0	14.33	14.04	14.12	0-1	0
	8	4	14.26	13.95	14.23		0
	8	7	14.19	13.96	14.27		0
	15	0	14.28	14.00	14.23		0
16QAM	1	0	14.31	14.08	14.12	0-1	0
	1	7	14.41	14.16	14.21		0
	1	14	14.33	14.03	14.40		0
	8	0	14.36	14.06	14.18	0-2	0
	8	4	14.35	13.96	14.29		0
	8	7	14.26	14.00	14.32		0
	15	0	14.30	14.01	14.28		0
64QAM	1	0	14.43	14.30	14.42	0-2	0
	1	7	14.40	14.09	14.52		0
	1	14	14.40	13.97	14.60		0
	8	0	14.41	14.04	14.29	0-3	0
	8	4	14.35	14.00	14.30		0
	8	7	14.26	13.98	14.34		0
	15	0	14.27	14.02	14.29		0

Table 8-202
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	14.23	14.02	14.26	0	0
	1	2	14.13	13.96	14.22		0
	1	5	14.13	14.08	14.50		0
	3	0	14.15	14.12	14.30		0
	3	2	14.08	14.05	14.21		0
	3	3	14.11	14.05	14.23		0
	6	0	14.48	14.21	14.29	0-1	0
16QAM	1	0	14.22	14.13	14.35	0-1	0
	1	2	14.01	13.98	14.07		0
	1	5	14.06	14.01	14.20		0
	3	0	14.14	14.16	14.25		0
	3	2	14.10	14.11	14.17		0
	3	3	14.11	14.08	14.15		0
	6	0	14.11	14.10	14.17	0-2	0
64QAM	1	0	14.37	14.34	14.57	0-2	0
	1	2	14.10	14.21	14.25		0
	1	5	14.22	14.13	14.39		0
	3	0	14.17	14.19	14.27		0
	3	2	14.12	14.16	14.18		0
	3	3	14.14	14.14	14.16		0
	6	0	14.14	14.13	14.19	0-3	0

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Table 8-203

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	11.25	11.08	11.21	0	0
	1	50	10.97	10.94	11.27		0
	1	99	11.05	10.97	11.32		0
	50	0	10.99	11.13	11.20	0-1	0
	50	25	10.96	11.12	11.26		0
	50	50	10.94	11.11	11.24		0
16QAM	100	0	10.94	11.11	11.24	0	
	1	0	11.25	11.50	11.32	0-1	0
	1	50	11.41	11.35	11.30		0
	1	99	11.60	11.30	11.20		0
	50	0	10.94	11.10	11.18	0-2	0
	50	25	11.00	11.04	11.22		0
50	50	11.11	11.03	11.04	0		
64QAM	100	0	11.00	11.02	11.18	0	
	1	0	11.12	11.32	11.33	0-2	0
	1	50	11.30	11.20	11.35		0
	1	99	11.34	11.31	11.27		0
	50	0	10.80	11.12	11.14	0-3	0
	50	25	10.82	11.08	11.22		0
	50	50	10.90	11.12	11.14		0
	100	0	10.84	11.11	11.25		0

Table 8-204

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	11.18	10.99	11.10	0	0
	1	36	10.93	11.03	10.97		0
	1	74	11.05	10.95	10.81		0
	36	0	10.90	11.03	11.20	0-1	0
	36	18	10.82	11.12	11.07		0
	36	37	10.85	11.14	10.91		0
16QAM	75	0	10.81	11.11	11.08	0-1	0
	1	0	11.22	11.22	11.23		0
	1	36	10.99	11.24	11.23		0
	1	74	11.24	11.13	10.89	0-2	0
	36	0	10.92	11.02	11.19		0
	36	18	10.85	11.12	11.08		0
64QAM	36	37	10.89	11.13	11.04	0-2	0
	75	0	10.81	11.11	11.15		0
	1	0	11.19	11.19	11.47	0-2	0
	1	36	11.07	11.40	11.55		0
	1	74	11.02	11.22	11.23	0-3	0
	36	0	10.88	11.07	11.24		0
36	18	10.83	11.16	11.18	0		
	36	37	10.89	11.17	11.07	0-3	0
	75	0	10.81	11.10	11.12		0

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Table 8-205

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	10.92	11.05	11.19	0	0
	1	25	10.84	11.02	11.00		0
	1	49	10.80	11.05	11.01		0
	25	0	10.89	11.09	11.12	0-1	0
	25	12	10.88	11.08	11.06		0
	25	25	10.84	11.11	11.05		0
16QAM	50	0	10.83	11.10	11.06	0-1	0
	1	0	11.17	11.26	11.45		0
	1	25	10.89	11.25	11.11		0
	1	49	10.91	11.13	11.09	0-2	0
	25	0	10.89	11.11	11.14		0
	25	12	10.82	11.11	11.09		0
64QAM	25	25	10.80	11.14	11.04	0-2	0
	50	0	10.84	11.15	11.11		0
	1	0	11.20	11.30	11.41		0-2
	1	25	10.97	11.38	11.61	0	
	1	49	11.02	11.26	11.70	0-3	
	25	0	10.96	11.11	11.18		0
25	12	10.91	11.14	11.18	0		
64QAM	25	25	10.87	11.09	11.21	0-3	0
	50	0	10.89	11.14	11.20		0

Table 8-206

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	11.06	11.06	11.14	0	0
	1	12	10.96	11.05	11.11		0
	1	24	10.84	11.05	11.06		0
	12	0	10.98	10.94	11.03	0-1	0
	12	6	10.87	10.94	11.05		0
	12	13	10.83	10.95	11.04		0
16QAM	25	0	10.87	10.97	11.05	0-1	0
	1	0	11.22	11.23	11.05		0
	1	12	10.98	11.14	11.15		0
	1	24	10.95	11.20	11.30	0-2	0
	12	0	10.99	11.01	11.08		0
	12	6	10.86	11.02	11.08		0
64QAM	12	13	10.87	10.95	11.09	0-2	0
	25	0	10.93	10.99	11.07		0
	1	0	11.16	11.24	11.29		0-2
	1	12	10.99	11.18	11.33	0	
	1	24	11.08	11.30	11.42	0	
	12	0	11.04	11.01	11.19	0-3	0
12	6	10.97	11.03	11.20	0		
12	13	10.90	11.03	11.22	0		
	25	0	10.95	11.07	11.21		0

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Table 8-207
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	10.95	10.91	11.15	0	0
	1	7	10.98	11.02	11.14		0
	1	14	10.86	10.96	11.05		0
	8	0	11.08	11.05	11.23	0-1	0
	8	4	11.04	11.08	11.21		0
	8	7	11.01	11.07	11.21		0
16QAM	15	0	11.07	11.07	11.21	0-1	0
	1	0	11.15	11.14	11.31		0
	1	7	11.17	11.36	11.36		0
	1	14	11.05	11.07	11.30	0-2	0
	8	0	11.13	11.14	11.27		0
	8	4	11.14	11.09	11.24		0
64QAM	8	7	11.05	11.08	11.29	0-2	0
	15	0	11.04	11.07	11.24		0
	1	0	11.17	11.39	11.65		0-2
	1	7	11.21	11.46	11.60	0	
	1	14	11.06	11.22	11.48	0	
	8	0	11.15	11.14	11.35	0-3	0
8	4	11.04	11.08	11.42	0		
8	7	10.95	11.16	11.29	0		
	15	0	11.10	11.14	11.25		0

Table 8-208
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	11.01	10.99	11.34	0	0
	1	2	10.98	10.95	11.33		0
	1	5	10.97	10.96	11.32		0
	3	0	11.07	11.04	11.16		0
	3	2	11.05	11.05	11.18		0
	3	3	11.06	11.05	11.16	0	
	6	0	11.07	11.06	11.16	0-1	0
16QAM	1	0	11.22	11.14	11.37	0-1	0
	1	2	11.27	11.20	11.38		0
	1	5	11.22	11.15	11.46		0
	3	0	11.20	11.20	11.24		0
	3	2	11.21	11.10	11.20		0
	3	3	11.24	11.19	11.22	0	
	6	0	11.12	11.11	11.20	0-2	0
64QAM	1	0	11.28	11.35	11.34	0-2	0
	1	2	11.17	11.18	11.41		0
	1	5	11.26	11.06	11.36		0
	3	0	11.14	11.14	11.29		0
	3	2	11.13	11.09	11.35		0
	3	3	11.19	11.11	11.23	0	
	6	0	11.23	11.07	11.14	0-3	0

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Table 8-209
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	13.13	12.85	12.91	0	0
	1	50	13.14	13.11	12.78		0
	1	99	12.90	12.94	12.89		0
	50	0	13.14	13.03	12.77	0-1	0
	50	25	13.08	13.13	12.88		0
	50	50	12.96	13.09	13.03		0
16QAM	100	0	13.12	13.10	12.92	0-1	0
	1	0	13.26	13.11	13.32		0
	1	50	13.30	13.40	13.16		0
	1	99	12.99	13.26	13.20	0-2	0
	50	0	13.13	13.05	12.81		0
	50	25	13.10	13.12	12.89		0
64QAM	50	50	13.00	13.05	13.04	0-2	0
	100	0	13.11	13.11	12.92		0
	1	0	13.09	13.20	13.28		0-2
	1	50	13.13	13.50	13.25	0	
	1	99	12.88	13.39	13.30	0	
	64QAM	50	0	13.18	13.10	12.78	0-3
50		25	13.16	13.15	12.88	0	
50		50	13.02	13.08	13.03	0	
100		0	13.12	13.14	12.92		0

Table 8-210
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	12.82	12.56	12.50	0	0
	1	36	13.01	12.74	12.68		0
	1	74	12.79	12.51	12.60		0
	36	0	12.91	12.77	12.56	0-1	0
	36	18	12.93	12.83	12.79		0
	36	37	12.88	12.75	12.82		0
16QAM	75	0	12.90	12.81	12.76	0-1	0
	1	0	13.00	12.70	12.57		0
	1	36	13.04	12.88	12.81		0
	1	74	12.89	12.63	12.86	0-2	0
	36	0	12.91	12.78	12.59		0
	36	18	12.89	12.85	12.82		0
64QAM	36	37	12.88	12.76	12.81	0-2	0
	75	0	12.88	12.83	12.79		0
	1	0	12.76	12.60	12.70	0-2	0
	1	36	13.05	12.94	13.02		0
	1	74	12.86	12.76	12.92	0-3	0
	36	0	12.92	12.84	12.63		0
36	18	12.92	12.89	12.87	0		
	36	37	12.89	12.76	12.87	0-3	0
	75	0	12.89	12.84	12.77		0

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Table 8-211
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	12.75	12.64	12.62	0	0
	1	25	12.83	12.74	12.61		0
	1	49	12.77	12.68	12.55		0
	25	0	12.84	12.81	12.73	0-1	0
	25	12	12.90	12.82	12.70		0
	25	25	12.88	12.73	12.65		0
16QAM	50	0	12.91	12.81	12.74	0-1	0
	1	0	12.92	12.65	12.62		0
	1	25	12.98	12.75	12.66		0
	1	49	12.81	12.74	12.53	0-2	0
	25	0	12.86	12.81	12.72		0
	25	12	12.91	12.81	12.71		0
64QAM	25	25	12.88	12.71	12.67	0-2	0
	50	0	12.91	12.83	12.74		0
	1	0	13.03	12.87	12.99		0-2
	1	25	13.04	13.05	13.01	0	
	1	49	13.00	12.94	12.80	0	
	64QAM	25	0	12.86	12.83	12.74	0-3
25		12	12.93	12.83	12.71	0	
25		25	12.87	12.72	12.67	0	
50		0	12.93	12.86	12.69		0

Table 8-212
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	12.51	12.79	12.53	0	0
	1	12	12.58	12.77	12.54		0
	1	24	12.64	12.71	12.50		0
	12	0	12.62	12.77	12.67	0-1	0
	12	6	12.65	12.76	12.67		0
	12	13	12.71	12.76	12.63		0
16QAM	25	0	12.66	12.78	12.70	0-1	0
	1	0	12.75	12.98	12.83		0
	1	12	12.71	12.89	12.61		0
	1	24	12.87	12.74	12.62	0-2	0
	12	0	12.60	12.85	12.65		0
	12	6	12.64	12.81	12.71		0
64QAM	12	13	12.66	12.87	12.67	0-2	0
	25	0	12.71	12.78	12.74		0
	1	0	12.78	12.97	12.84		0-2
	1	12	12.79	12.82	12.80	0	
	1	24	12.88	12.83	12.82	0	
	12	0	12.62	12.78	12.69	0-3	0
12	6	12.65	12.79	12.67	0		
12	13	12.75	12.80	12.65	0		
	25	0	12.65	12.82	12.68		0

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Table 8-213
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	12.50	12.56	12.53	0	0
	1	7	12.53	12.61	12.53		0
	1	14	12.52	12.55	12.57		0
	8	0	12.62	12.64	12.63	0-1	0
	8	4	12.61	12.67	12.60		0
	8	7	12.65	12.67	12.59		0
16QAM	15	0	12.63	12.68	12.60	0-1	0
	1	0	12.59	12.66	12.66		0
	1	7	12.66	12.79	12.72		0
	1	14	12.65	12.78	12.53	0-2	0
	8	0	12.69	12.74	12.69		0
	8	4	12.67	12.70	12.64		0
64QAM	8	7	12.67	12.73	12.64	0-2	0
	15	0	12.61	12.71	12.64		0
	1	0	12.68	12.67	12.95		0-2
	1	7	12.79	12.73	13.11	0	
	1	14	12.56	12.77	12.80	0	
	8	0	12.63	12.68	12.73	0-3	0
8	4	12.64	12.71	12.69	0		
8	7	12.73	12.71	12.59	0		
	15	0	12.59	12.65	12.62		0

Table 8-214
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	12.77	12.76	12.59	0	0
	1	2	12.82	12.67	12.51		0
	1	5	12.82	12.69	12.56		0
	3	0	12.67	12.75	12.58		0
	3	2	12.72	12.77	12.62		0
	3	3	12.73	12.77	12.60		0
	6	0	12.73	12.78	12.60	0-1	0
16QAM	1	0	12.81	12.99	12.56	0-1	0
	1	2	12.85	12.94	12.59		0
	1	5	12.93	12.86	12.55		0
	3	0	12.77	12.94	12.59		0
	3	2	12.84	12.84	12.52		0
	3	3	12.80	12.85	12.51		0
	6	0	12.82	12.82	12.53	0-2	0
64QAM	1	0	12.89	12.91	12.50	0-2	0
	1	2	12.89	12.90	12.58		0
	1	5	12.79	12.87	12.54		0
	3	0	12.80	12.73	12.52		0
	3	2	12.85	12.79	12.54		0
	3	3	12.85	12.77	12.51		0
	6	0	12.82	12.91	12.50	0-3	0

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Table 8-215
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	10.09	9.97	10.04	0	0
	1	50	10.16	10.04	10.13		0
	1	99	9.80	10.01	9.86		0
	50	0	10.12	9.94	9.91	0-1	0
	50	25	10.14	10.09	10.05		0
	50	50	10.02	10.08	10.01		0
16QAM	100	0	10.13	10.11	10.03	0-1	0
	1	0	9.86	10.02	10.02		0
	1	50	10.05	10.13	10.23		0
	1	99	9.95	10.07	10.12	0-2	0
	50	0	9.83	9.80	9.61		0
	50	25	9.92	9.90	9.64		0
64QAM	50	50	9.90	9.80	9.71	0-2	0
	100	0	9.94	9.81	9.70		0
	1	0	9.86	10.10	9.95		0-2
	1	50	10.01	9.95	9.96	0	
	1	99	10.03	9.91	9.96	0-3	
	50	0	9.73	9.71	9.69		0
	50	25	9.83	9.81	9.68		0
	50	50	9.74	9.79	9.79		0
	100	0	9.83	9.88	9.81		0

Table 8-216
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	9.76	9.50	9.58	0	0
	1	36	9.91	9.63	9.82		0
	1	74	9.75	9.66	9.72		0
	36	0	9.91	9.64	9.80	0-1	0
	36	18	9.99	9.74	9.90		0
	36	37	9.99	9.81	9.79		0
	75	0	9.99	9.83	9.87	0	
16QAM	1	0	10.17	9.81	9.99	0-1	0
	1	36	10.28	10.00	10.38		0
	1	74	10.21	10.04	10.05		0
	36	0	9.97	9.66	9.87	0-2	0
	36	18	10.02	9.87	9.93		0
	36	37	10.01	9.90	9.84		0
	75	0	9.96	9.97	9.91	0	
64QAM	1	0	9.82	9.87	9.65	0-2	0
	1	36	10.12	9.92	10.10		0
	1	74	10.09	9.89	10.13		0
	36	0	9.80	9.82	9.68	0-3	0
	36	18	9.95	9.87	9.71		0
	36	37	9.89	9.86	9.80		0
	75	0	9.91	9.84	9.76	0	

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Table 8-217

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	9.83	9.50	9.99	0	0
	1	25	9.75	9.71	9.79		0
	1	49	9.72	9.73	9.63		0
	25	0	9.65	9.81	9.79	0-1	0
	25	12	9.69	9.85	9.76		0
	25	25	9.77	9.90	9.70		0
16QAM	50	0	9.73	9.90	9.77	0-1	0
	1	0	10.08	10.03	10.17		0
	1	25	9.90	10.07	10.13		0
	1	49	9.98	9.81	10.00	0-2	0
	25	0	9.68	9.83	9.85		0
	25	12	9.69	9.82	9.81		0
64QAM	25	25	9.76	9.87	9.73	0-2	0
	50	0	9.70	9.93	9.80		0
	1	0	10.11	9.78	10.23	0-2	0
	1	25	10.07	9.71	10.07		0
	1	49	9.94	9.97	9.82		0
	25	0	9.81	9.62	9.86	0-3	0
25	12	9.80	9.72	9.79	0		
25	25	9.78	9.89	9.74	0		
	50	0	9.83	9.83	9.81		0

Table 8-218

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	9.69	9.48	9.77	0	0
	1	12	9.74	9.56	9.61		0
	1	24	9.76	9.75	9.58		0
	12	0	9.72	9.75	9.73	0-1	0
	12	6	9.68	9.76	9.72		0
	12	13	9.80	9.83	9.72		0
16QAM	25	0	9.72	9.84	9.74	0-1	0
	1	0	9.92	9.99	10.10		0
	1	12	10.06	10.03	10.05		0
	1	24	10.00	10.01	9.90	0-2	0
	12	0	9.82	9.80	9.77		0
	12	6	9.74	9.82	9.76		0
64QAM	12	13	9.86	9.92	9.72	0-2	0
	25	0	9.79	9.86	9.75		0
	1	0	10.01	10.04	9.95		0-2
	1	12	9.89	10.07	10.16	0	
	1	24	10.03	10.12	9.80	0-3	
	12	0	9.83	9.90	9.75		0
12	6	9.60	9.81	9.71	0		
	12	13	9.81	9.97	9.61	0-3	0
	25	0	9.70	9.96	9.71		0

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Table 8-219
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	9.59	9.51	9.59	0	0
	1	7	9.71	9.64	9.62		0
	1	14	9.62	9.58	9.50		0
	8	0	9.74	9.66	9.68	0-1	0
	8	4	9.76	9.72	9.66		0
	8	7	9.76	9.72	9.68		0
	15	0	9.74	9.72	9.69		0
16QAM	1	0	9.92	9.82	9.98	0-1	0
	1	7	10.06	9.96	10.01		0
	1	14	10.06	9.90	9.89		0
	8	0	9.87	9.73	9.76	0-2	0
	8	4	9.85	9.83	9.70		0
	8	7	9.87	9.80	9.75		0
	15	0	9.88	9.81	9.75		0
64QAM	1	0	9.93	9.74	9.87	0-2	0
	1	7	10.04	9.82	9.78		0
	1	14	10.00	9.91	9.84		0
	8	0	9.87	9.76	9.72	0-3	0
	8	4	9.85	9.76	9.67		0
	8	7	9.79	9.74	9.69		0
	15	0	9.81	9.75	9.65		0

Table 8-220
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	9.96	9.66	9.92	0	0
	1	2	9.97	9.63	9.91		0
	1	5	10.00	9.72	9.89		0
	3	0	9.81	9.60	9.78		0
	3	2	9.86	9.65	9.75		0
	3	3	9.85	9.71	9.74		0
	6	0	9.87	9.68	9.73	0-1	0
16QAM	1	0	10.04	9.75	10.06	0-1	0
	1	2	10.10	9.74	10.07		0
	1	5	10.02	9.94	9.90		0
	3	0	9.96	9.63	9.86		0
	3	2	9.92	9.75	10.00		0
	3	3	9.94	9.73	9.92		0
	6	0	9.94	9.76	9.85	0-2	0
64QAM	1	0	10.05	9.75	9.83	0-2	0
	1	2	10.04	9.92	9.97		0
	1	5	10.02	10.06	9.76		0
	3	0	9.88	9.91	9.72		0
	3	2	9.93	9.99	9.72		0
	3	3	9.93	10.02	9.75		0
	6	0	9.82	9.92	9.67	0-3	0

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LTE Band 25

Table 8-221
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	14.75	14.71	14.55	0	0
	1	50	14.73	14.54	14.54		0
	1	99	14.96	14.89	14.55		0
	50	0	14.65	14.57	14.56	0-1	0
	50	25	14.70	14.57	14.66		0
	50	50	14.86	14.84	14.84		0
	100	0	14.84	14.58	14.73		0
16QAM	1	0	14.22	14.68	14.37	0-1	0
	1	50	14.34	14.42	14.32		0
	1	99	14.70	14.62	14.50		0
	50	0	14.11	14.16	14.08	0-2	0
	50	25	14.21	14.10	14.22		0
	50	50	14.38	14.25	14.31		0
	100	0	14.26	14.11	14.28		0
64QAM	1	0	14.70	14.80	14.93	0-2	0
	1	50	14.74	14.85	14.86		0
	1	99	15.00	14.97	14.99		0
	50	0	14.25	14.20	14.25	0-3	0
	50	25	14.26	14.40	14.38		0
	50	50	14.38	14.50	14.47		0
	100	0	14.28	14.42	14.44		0

Table 8-222
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	14.57	14.78	14.69	0	0
	1	36	14.70	14.66	14.85		0
	1	74	14.87	14.87	14.83		0
	36	0	14.64	14.71	14.83	0-1	0
	36	18	14.72	14.70	14.88		0
	36	37	14.84	14.77	14.84		0
	75	0	14.74	14.69	14.80		0
16QAM	1	0	14.36	14.47	14.53	0-1	0
	1	36	14.57	14.66	14.80		0
	1	74	14.81	14.91	14.81		0
	36	0	14.19	14.17	14.28	0-2	0
	36	18	14.25	14.33	14.46		0
	36	37	14.23	14.49	14.47		0
	75	0	14.26	14.39	14.44		0
64QAM	1	0	14.40	14.58	14.60	0-2	0
	1	36	14.69	14.73	14.86		0
	1	74	14.65	14.79	14.80		0
	36	0	14.26	14.20	14.33	0-3	0
	36	18	14.35	14.36	14.47		0
	36	37	14.28	14.50	14.47		0
	75	0	14.30	14.40	14.48		0

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Table 8-223
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	14.63	14.69	14.85	0	0
	1	25	14.67	14.64	14.83		0
	1	49	14.70	14.80	14.85		0
	25	0	14.62	14.57	14.89	0-1	0
	25	12	14.66	14.67	14.89		0
	25	25	14.72	14.72	14.78		0
	50	0	14.72	14.68	14.86		0
16QAM	1	0	14.70	14.65	14.63	0-1	0
	1	25	14.50	14.65	14.80		0
	1	49	14.69	14.84	14.90		0
	25	0	14.14	14.24	14.41	0-2	0
	25	12	14.18	14.25	14.44		0
	25	25	14.27	14.44	14.34		0
	50	0	14.28	14.40	14.45		0
64QAM	1	0	14.60	14.62	14.63	0-2	0
	1	25	14.54	14.82	14.80		0
	1	49	14.49	14.63	14.89		0
	25	0	14.09	14.27	14.39	0-3	0
	25	12	14.20	14.31	14.42		0
	25	25	14.24	14.47	14.32		0
	50	0	14.26	14.40	14.45		0

Table 8-224
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	14.53	14.57	14.87	0	0
	1	12	14.52	14.62	14.80		0
	1	24	14.51	14.67	14.88		0
	12	0	14.54	14.54	14.83	0-1	0
	12	6	14.52	14.60	14.79		0
	12	13	14.54	14.67	14.84		0
	25	0	14.51	14.65	14.80		0
16QAM	1	0	14.14	14.47	14.62	0-1	0
	1	12	14.36	14.70	14.71		0
	1	24	14.44	14.48	14.68		0
	12	0	14.16	14.33	14.44	0-2	0
	12	6	14.15	14.33	14.35		0
	12	13	14.16	14.40	14.36		0
	25	0	14.11	14.44	14.37		0
64QAM	1	0	14.50	14.72	14.79	0-2	0
	1	12	14.55	14.74	14.79		0
	1	24	14.61	14.82	14.60		0
	12	0	14.11	14.32	14.42	0-3	0
	12	6	14.15	14.30	14.38		0
	12	13	14.19	14.39	14.36		0
	25	0	14.15	14.41	14.31		0

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Table 8-225
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	14.45	14.51	14.65	0	0
	1	7	14.53	14.60	14.78		0
	1	14	14.50	14.60	14.71		0
	8	0	14.50	14.64	14.73	0-1	0
	8	4	14.53	14.62	14.76		0
	8	7	14.52	14.61	14.76		0
	15	0	14.53	14.62	14.75		0
16QAM	1	0	14.34	14.51	14.61	0-1	0
	1	7	14.70	14.63	14.68		0
	1	14	14.42	14.66	14.60		0
	8	0	14.19	14.23	14.30	0-2	0
	8	4	14.21	14.31	14.30		0
	8	7	14.22	14.33	14.31		0
	15	0	14.24	14.33	14.31		0
64QAM	1	0	14.42	14.42	14.60	0-2	0
	1	7	14.58	14.64	14.85		0
	1	14	14.65	14.71	14.56		0
	8	0	14.31	14.21	14.30	0-3	0
	8	4	14.18	14.36	14.33		0
	8	7	14.16	14.33	14.37		0
	15	0	14.24	14.34	14.39		0

Table 8-226
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	26365	26683		
			(1850.7 MHz)	(1882.5 MHz)	(1914.3 MHz)		
Conducted Power [dBm]							
QPSK	1	0	14.51	14.62	14.85	0	0
	1	2	14.46	14.59	14.81		0
	1	5	14.53	14.61	14.82		0
	3	0	14.51	14.62	14.82		0
	3	2	14.49	14.63	14.83		0
	3	3	14.49	14.63	14.82		0
	6	0	14.48	14.62	14.81	0-1	0
16QAM	1	0	14.48	14.56	14.68	0-1	0
	1	2	14.43	14.51	14.74		0
	1	5	14.45	14.68	14.59		0
	3	0	14.25	14.22	14.42		0
	3	2	14.24	14.42	14.35		0
	3	3	14.18	14.43	14.44		0
	6	0	14.17	14.40	14.34	0-2	0
64QAM	1	0	14.53	14.39	15.00	0-2	0
	1	2	14.81	14.69	14.61		0
	1	5	14.51	14.77	14.92		0
	3	0	14.29	14.19	14.47		0
	3	2	14.16	14.33	14.43		0
	3	3	14.17	14.39	14.40		0
	6	0	14.28	14.38	14.50	0-3	0

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Table 8-227
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	13.77	13.82	13.74	0	0
	1	50	13.72	13.60	13.71		0
	1	99	13.90	13.93	13.79		0
	50	0	13.57	13.57	13.65	0-1	0
	50	25	13.69	13.61	13.81		0
	50	50	13.75	13.90	13.89		0
	100	0	13.74	13.62	13.88		0
16QAM	1	0	13.62	13.77	13.74	0-1	0
	1	50	13.51	13.60	13.77		0
	1	99	13.69	13.91	13.98		0
	50	0	13.31	13.36	13.43	0-2	0
	50	25	13.38	13.35	13.55		0
	50	50	13.48	13.60	13.70		0
	100	0	13.42	13.34	13.63		0
64QAM	1	0	13.21	13.67	13.54	0-2	0
	1	50	13.09	13.48	13.49		0
	1	99	13.32	13.77	13.77		0
	50	0	13.06	13.19	13.24	0-3	0
	50	25	13.14	13.22	13.42		0
	50	50	13.25	13.46	13.61		0
	100	0	13.19	13.20	13.51		0

Table 8-228
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	13.40	13.53	13.45	0	0
	1	36	13.50	13.56	13.74		0
	1	74	13.48	13.82	13.68		0
	36	0	13.37	13.36	13.69	0-1	0
	36	18	13.52	13.47	13.84		0
	36	37	13.47	13.63	13.81		0
	75	0	13.53	13.45	13.88		0
16QAM	1	0	13.15	13.43	13.31	0-1	0
	1	36	13.44	13.49	13.70		0
	1	74	13.34	13.69	13.56		0
	36	0	13.11	13.12	13.44	0-2	0
	36	18	13.27	13.25	13.60		0
	36	37	13.24	13.40	13.57		0
	75	0	13.27	13.20	13.61		0
64QAM	1	0	13.13	13.36	13.55	0-2	0
	1	36	13.53	13.44	13.79		0
	1	74	13.35	13.62	13.86		0
	36	0	13.11	13.14	13.48	0-3	0
	36	18	13.27	13.25	13.63		0
	36	37	13.28	13.40	13.68		0
	75	0	13.27	13.20	13.64		0

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Table 8-229
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	13.43	13.45	13.63	0	0
	1	25	13.32	13.43	13.65		0
	1	49	13.45	13.60	13.67		0
	25	0	13.46	13.37	13.78	0-1	0
	25	12	13.38	13.48	13.82		0
	25	25	13.47	13.58	13.70		0
	50	0	13.40	13.49	13.76		0
16QAM	1	0	13.27	13.19	13.60	0-1	0
	1	25	13.31	13.42	13.64		0
	1	49	13.25	13.44	13.66		0
	25	0	13.18	13.09	13.57	0-2	0
	25	12	13.10	13.24	13.62		0
	25	25	13.21	13.36	13.46		0
	50	0	13.12	13.24	13.59		0
64QAM	1	0	13.22	13.27	13.82	0-2	0
	1	25	13.30	13.37	13.76		0
	1	49	13.43	13.54	13.85		0
	25	0	13.13	13.14	13.60	0-3	0
	25	12	13.08	13.26	13.61		0
	25	25	13.22	13.42	13.50		0
	50	0	13.13	13.24	13.59		0

Table 8-230
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	13.36	13.35	13.56	0	0
	1	12	13.37	13.45	13.50		0
	1	24	13.34	13.56	13.49		0
	12	0	13.33	13.40	13.67	0-1	0
	12	6	13.36	13.46	13.63		0
	12	13	13.25	13.47	13.68		0
	25	0	13.35	13.47	13.64		0
16QAM	1	0	13.27	13.05	13.54	0-1	0
	1	12	13.18	13.22	13.43		0
	1	24	13.19	13.50	13.48		0
	12	0	13.16	13.08	13.47	0-2	0
	12	6	13.17	13.16	13.44		0
	12	13	13.00	13.25	13.46		0
	25	0	13.12	13.20	13.44		0
64QAM	1	0	13.37	13.10	13.83	0-2	0
	1	12	13.30	13.21	13.83		0
	1	24	13.38	13.53	13.70		0
	12	0	13.13	13.11	13.48	0-3	0
	12	6	13.11	13.19	13.45		0
	12	13	13.06	13.29	13.50		0
	25	0	13.13	13.16	13.46		0

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Table 8-231
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	13.27	13.52	0	0
	1	7	13.34	13.37	13.63		0
	1	14	13.26	13.34	13.48		0
	8	0	13.30	13.33	13.69	0-1	0
	8	4	13.34	13.38	13.73		0
	8	7	13.34	13.42	13.73		0
	15	0	13.35	13.42	13.73		0
16QAM	1	0	13.24	13.43	13.89	0-1	0
	1	7	13.50	13.56	13.83		0
	1	14	13.36	13.40	13.66		0
	8	0	13.34	13.42	13.82	0-2	0
	8	4	13.31	13.41	13.82		0
	8	7	13.29	13.43	13.80		0
	15	0	13.28	13.44	13.80		0
64QAM	1	0	13.42	13.43	13.98	0-2	0
	1	7	13.38	13.48	13.98		0
	1	14	13.29	13.57	13.98		0
	8	0	13.32	13.39	13.70	0-3	0
	8	4	13.32	13.47	13.89		0
	8	7	13.32	13.46	13.83		0
	15	0	13.26	13.43	13.82		0

Table 8-232
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	13.38	13.40	13.91	0	0
	1	2	13.36	13.37	13.87		0
	1	5	13.43	13.38	13.80		0
	3	0	13.39	13.37	13.75		0
	3	2	13.41	13.37	13.75		0
	3	3	13.43	13.38	13.65		0
	6	0	13.40	13.38	13.73	0-1	0
16QAM	1	0	13.27	13.37	13.79	0-1	0
	1	2	13.11	13.32	13.69		0
	1	5	13.34	13.29	13.60		0
	3	0	13.10	13.19	13.55		0
	3	2	13.18	13.24	13.50		0
	3	3	13.08	13.29	13.47		0
	6	0	13.15	13.21	13.51	0-2	0
64QAM	1	0	13.24	13.35	13.75	0-2	0
	1	2	13.22	13.25	13.70		0
	1	5	13.18	13.27	13.73		0
	3	0	13.16	13.22	13.66		0
	3	2	13.06	13.24	13.64		0
	3	3	13.07	13.30	13.57		0
	6	0	13.04	13.24	13.49	0-3	0

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Table 8-233
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	14.43	14.44	14.56	0	0
	1	50	14.24	14.40	14.60		0
	1	99	14.42	14.48	14.62		0
	50	0	14.24	14.50	14.77	0-1	0
	50	25	14.22	14.50	14.55		0
	50	50	14.33	14.51	14.56		0
	100	0	14.24	14.51	14.56		0
16QAM	1	0	14.33	14.65	14.47	0-1	0
	1	50	14.31	14.61	14.57		0
	1	99	14.40	14.68	14.61		0
	50	0	14.11	14.20	14.43	0-2	0
	50	25	14.14	14.21	14.28		0
	50	50	14.18	14.22	14.27		0
	100	0	14.04	14.22	14.26		0
64QAM	1	0	14.21	14.28	14.21	0-2	0
	1	50	14.20	14.25	14.23		0
	1	99	14.31	14.21	14.25		0
	50	0	14.25	14.23	14.28	0-3	0
	50	25	14.29	14.15	14.24		0
	50	50	14.19	14.29	14.21		0
	100	0	14.27	14.25	14.20		0

Table 8-234
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	14.58	14.35	14.38	0	0
	1	36	14.41	14.18	14.18		0
	1	74	14.54	14.48	14.61		0
	36	0	14.28	14.25	14.42	0-1	0
	36	18	14.23	14.17	14.26		0
	36	37	14.25	14.22	14.37		0
	75	0	14.22	14.15	14.29		0
16QAM	1	0	14.56	14.55	14.60	0-1	0
	1	36	14.47	14.30	14.45		0
	1	74	14.67	14.52	14.75		0
	36	0	13.95	13.88	13.92	0-2	0
	36	18	13.80	13.80	13.83		0
	36	37	13.90	13.81	13.86		0
	75	0	13.82	13.85	13.82		0
64QAM	1	0	14.33	14.57	14.55	0-2	0
	1	36	14.23	14.37	14.35		0
	1	74	14.35	14.65	14.65		0
	36	0	14.13	14.20	14.45	0-3	0
	36	18	14.11	14.13	14.25		0
	36	37	14.15	14.23	14.26		0
	75	0	14.11	14.16	14.24		0

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Table 8-235
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	14.13	14.25	14.28	0	0
	1	25	14.00	14.05	14.09		0
	1	49	14.03	14.18	14.40		0
	25	0	14.05	14.07	14.13	0-1	0
	25	12	14.07	13.97	14.12		0
	25	25	14.02	13.99	14.35		0
	50	0	14.02	13.95	14.12		0
16QAM	1	0	14.30	14.48	14.41	0-1	0
	1	25	14.13	14.03	14.22		0
	1	49	14.07	14.29	14.50		0
	25	0	14.05	14.08	14.14	0-2	0
	25	12	14.06	13.97	14.15		0
	25	25	14.01	13.99	14.37		0
	50	0	13.99	13.97	14.10		0
64QAM	1	0	14.32	14.30	14.58	0-2	0
	1	25	14.28	14.37	14.39		0
	1	49	14.29	14.28	14.53		0
	25	0	14.07	14.25	14.28	0-3	0
	25	12	14.12	14.17	14.24		0
	25	25	14.11	14.14	14.39		0
	50	0	14.04	14.13	14.18		0

Table 8-236
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	14.18	14.08	14.11	0	0
	1	12	13.95	13.88	14.27		0
	1	24	13.95	13.91	14.38		0
	12	0	14.16	13.98	14.15	0-1	0
	12	6	14.06	13.97	14.34		0
	12	13	14.05	13.90	14.48		0
	25	0	14.07	13.96	14.35		0
16QAM	1	0	14.38	14.27	14.22	0-1	0
	1	12	14.13	13.99	14.35		0
	1	24	14.16	14.01	14.55		0
	12	0	14.18	13.98	14.13	0-2	0
	12	6	14.08	13.97	14.35		0
	12	13	14.09	13.91	14.47		0
	25	0	14.10	13.99	14.36		0
64QAM	1	0	14.27	14.31	14.39	0-2	0
	1	12	14.15	14.12	14.62		0
	1	24	14.15	14.10	14.73		0
	12	0	14.10	14.02	14.20	0-3	0
	12	6	14.02	14.04	14.32		0
	12	13	14.11	14.01	14.52		0
	25	0	14.07	14.06	14.35		0

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Table 8-237
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	14.12	13.84	14.33	0	0
	1	7	14.05	13.83	14.35		0
	1	14	13.94	13.82	14.25		0
	8	0	14.14	13.82	14.42	0-1	0
	8	4	14.07	13.82	14.42		0
	8	7	13.99	13.82	14.40		0
	15	0	14.07	13.86	14.46		0
16QAM	1	0	14.34	13.89	14.49	0-1	0
	1	7	14.26	13.98	14.50		0
	1	14	14.18	13.90	14.48		0
	8	0	14.18	13.93	14.48	0-2	0
	8	4	14.07	13.92	14.49		0
	8	7	13.99	13.90	14.44		0
	15	0	14.15	13.85	14.46		0
64QAM	1	0	14.31	13.97	14.36	0-2	0
	1	7	14.23	14.07	14.56		0
	1	14	14.09	14.27	14.60		0
	8	0	14.22	14.01	14.35	0-3	0
	8	4	14.13	13.94	14.48		0
	8	7	14.11	13.94	14.41		0
	15	0	14.13	13.97	14.45		0

Table 8-238
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 (1850.7 MHz)	26365 (1882.5 MHz)	26683 (1914.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.99	13.85	14.29	0	0
	1	2	14.07	13.86	14.38		0
	1	5	13.99	13.82	14.28		0
	3	0	14.14	13.88	14.44		0
	3	2	14.13	13.88	14.42		0
	3	3	14.07	13.88	14.42		0
	6	0	14.13	13.91	14.44	0-1	0
16QAM	1	0	14.11	14.06	14.48	0-1	0
	1	2	14.23	13.88	14.43		0
	1	5	14.17	13.90	14.35		0
	3	0	14.20	13.93	14.46		0
	3	2	14.17	13.93	14.47		0
	3	3	14.14	13.93	14.48		0
	6	0	14.16	13.89	14.46	0-2	0
64QAM	1	0	14.12	14.08	14.67	0-2	0
	1	2	14.16	14.13	14.70		0
	1	5	14.12	13.97	14.68		0
	3	0	14.20	14.04	14.58		0
	3	2	14.15	13.97	14.53		0
	3	3	14.03	13.98	14.38		0
	6	0	14.12	13.98	14.49	0-3	0

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Table 8-239
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	13.06	12.80	12.77	0	0
	1	50	13.13	12.97	12.93		0
	1	99	12.92	12.92	12.98		0
	50	0	13.18	13.12	13.00	0-1	0
	50	25	13.16	13.09	13.05		0
	50	50	13.02	13.04	12.95		0
	100	0	13.12	13.12	13.11		0
16QAM	1	0	13.22	13.09	13.14	0-1	0
	1	50	13.25	13.28	13.22		0
	1	99	13.06	13.24	13.30		0
	50	0	13.22	13.14	13.01	0-2	0
	50	25	13.18	13.12	13.07		0
	50	50	13.04	13.05	12.94		0
	100	0	13.21	13.14	13.10		0
64QAM	1	0	13.22	13.22	13.17	0-2	0
	1	50	13.24	13.36	13.30		0
	1	99	13.00	13.31	13.38		0
	50	0	13.16	13.14	13.01	0-3	0
	50	25	13.17	13.11	13.05		0
	50	50	13.14	13.04	12.94		0
	100	0	13.14	13.14	13.11		0

Table 8-240
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	12.84	12.66	12.50	0	0
	1	36	12.88	12.76	12.69		0
	1	74	12.61	12.52	12.68		0
	36	0	12.85	12.90	12.74	0-1	0
	36	18	12.81	12.86	12.79		0
	36	37	12.75	12.70	12.75		0
	75	0	12.84	12.83	12.78		0
16QAM	1	0	12.95	12.76	12.58	0-1	0
	1	36	13.12	13.06	12.66		0
	1	74	12.68	12.63	12.87		0
	36	0	12.85	12.92	12.74	0-2	0
	36	18	12.84	12.86	12.77		0
	36	37	12.76	12.71	12.73		0
	75	0	12.80	12.85	12.78		0
64QAM	1	0	12.93	12.84	12.81	0-2	0
	1	36	12.82	12.82	13.06		0
	1	74	12.68	12.75	13.09		0
	36	0	12.85	12.93	12.77	0-3	0
	36	18	12.83	12.86	12.81		0
	36	37	12.76	12.72	12.77		0
	75	0	12.82	12.82	12.79		0

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Table 8-241
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	12.72	12.68	12.65	0	0
	1	25	12.86	12.58	12.64		0
	1	49	12.87	12.55	12.66		0
	25	0	12.84	12.76	12.69	0-1	0
	25	12	12.93	12.68	12.66		0
	25	25	12.95	12.67	12.68		0
	50	0	12.92	12.68	12.65		0
16QAM	1	0	12.99	12.90	12.76	0-1	0
	1	25	13.11	12.77	12.79		0
	1	49	13.01	12.72	12.82		0
	25	0	12.84	12.77	12.73	0-2	0
	25	12	12.95	12.70	12.63		0
	25	25	12.96	12.70	12.70		0
	50	0	12.96	12.71	12.67		0
64QAM	1	0	12.90	12.89	12.93	0-2	0
	1	25	13.12	12.67	12.89		0
	1	49	13.03	12.63	12.99		0
	25	0	12.87	12.73	12.70	0-3	0
	25	12	12.94	12.64	12.65		0
	25	25	12.96	12.65	12.67		0
	50	0	12.97	12.70	12.66		0

Table 8-242
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	12.57	12.72	12.56	0	0
	1	12	12.68	12.63	12.50		0
	1	24	12.79	12.68	12.54		0
	12	0	12.70	12.71	12.54	0-1	0
	12	6	12.75	12.64	12.55		0
	12	13	12.81	12.60	12.55		0
	25	0	12.74	12.65	12.58		0
16QAM	1	0	12.81	12.87	12.50	0-1	0
	1	12	13.03	12.73	12.54		0
	1	24	12.99	12.84	12.75		0
	12	0	12.70	12.73	12.50	0-2	0
	12	6	12.79	12.62	12.56		0
	12	13	12.82	12.58	12.57		0
	25	0	12.71	12.66	12.60		0
64QAM	1	0	12.81	13.02	13.00	0-2	0
	1	12	12.85	12.94	12.88		0
	1	24	12.93	13.00	12.96		0
	12	0	12.76	12.70	12.54	0-3	0
	12	6	12.81	12.66	12.58		0
	12	13	12.85	12.60	12.62		0
	25	0	12.75	12.65	12.60		0

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Table 8-243
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	12.57	12.58	12.50	0	0
	1	7	12.60	12.53	12.53		0
	1	14	12.60	12.51	12.51		0
	8	0	12.69	12.59	12.51	0-1	0
	8	4	12.68	12.60	12.51		0
	8	7	12.73	12.59	12.59		0
	15	0	12.70	12.61	12.52		0
16QAM	1	0	12.65	12.69	12.51	0-1	0
	1	7	12.74	12.60	12.53		0
	1	14	12.80	12.61	12.54		0
	8	0	12.80	12.60	12.52	0-2	0
	8	4	12.72	12.67	12.50		0
	8	7	12.79	12.67	12.59		0
	15	0	12.71	12.61	12.54		0
64QAM	1	0	12.73	12.65	12.68	0-2	0
	1	7	12.83	12.74	12.71		0
	1	14	12.82	12.63	12.77		0
	8	0	12.71	12.59	12.58	0-3	0
	8	4	12.73	12.61	12.52		0
	8	7	12.82	12.63	12.68		0
	15	0	12.69	12.59	12.54		0

Table 8-244
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	12.57	12.68	12.83	0	0
	1	2	12.65	12.65	12.80		0
	1	5	12.65	12.67	12.88		0
	3	0	12.64	12.73	12.72		0
	3	2	12.71	12.74	12.75		0
	3	3	12.69	12.75	12.78		0
	6	0	12.72	12.74	12.75	0-1	0
16QAM	1	0	12.80	12.77	12.93	0-1	0
	1	2	12.92	12.85	12.97		0
	1	5	12.84	12.85	12.99		0
	3	0	12.70	12.72	12.72		0
	3	2	12.78	12.79	12.86		0
	3	3	12.83	12.74	12.79		0
	6	0	12.77	12.74	12.73	0-2	0
64QAM	1	0	12.92	12.91	12.87	0-2	0
	1	2	12.93	12.85	12.76		0
	1	5	12.90	12.89	12.89		0
	3	0	12.71	12.72	12.88		0
	3	2	12.82	12.70	12.75		0
	3	3	12.72	12.73	12.81		0
	6	0	12.88	12.67	12.72	0-3	0

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LTE Band 30

Table 8-245

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	13.18	0	0
	1	25	13.26		0
	1	49	13.10		0
	25	0	13.30	0-1	0
	25	12	13.40		0
	25	25	13.28		0
16QAM	50	0	13.25	0-1	0
	1	0	13.50		0
	1	25	13.60		0
	1	49	13.48	0-2	0
	25	0	13.34		0
	25	12	13.40		0
64QAM	25	25	13.26	0-2	0
	50	0	13.33		0
	1	0	13.40	0-2	0
	1	25	13.54		0
	1	49	13.26		0
	25	0	13.30	0-3	0
64QAM	25	12	13.40		0
	25	25	13.28		0
	50	0	13.31		0

Table 8-246

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	13.34	0	0
	1	12	13.34		0
	1	24	13.25		0
	12	0	13.30	0-1	0
	12	6	13.34		0
	12	13	13.33		0
16QAM	25	0	13.29	0-1	0
	1	0	13.50		0
	1	12	13.40	0-2	0
	1	24	13.36		0
	12	0	13.34		0
	12	6	13.36	0-2	0
64QAM	12	13	13.34		0
	25	0	13.31		0
	1	0	13.60	0-2	0
	1	12	13.57		0
	1	24	13.48		0
	12	0	13.32	0-3	0
64QAM	12	6	13.37		0
	12	13	13.34		0
	25	0	13.25		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 8-247
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	10.13	0	0
	1	25	10.25		0
	1	49	10.11		0
	25	0	10.30	0-1	0
	25	12	10.37		0
	25	25	10.28		0
16QAM	50	0	10.23	0-1	0
	1	0	10.33		0
	1	25	10.48		0
	1	49	10.18	0-2	0
	25	0	10.38		0
	25	12	10.50		0
64QAM	25	25	10.29	0-2	0
	50	0	10.43		0
	1	0	10.35		0
	1	25	10.48	0-3	0
	1	49	10.35		0
	25	0	10.19		0
	25	12	10.34		0
	25	25	10.18		0
	50	0	10.21		0

Table 8-248
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	10.13	0	0
	1	12	10.18		0
	1	24	10.01		0
	12	0	10.31	0-1	0
	12	6	10.36		0
	12	13	10.32		0
16QAM	25	0	10.30	0-1	0
	1	0	10.18		0
	1	12	10.22		0
	1	24	10.19	0-2	0
	12	0	10.21		0
	12	6	10.24		0
64QAM	12	13	10.16	0-2	0
	25	0	10.21		0
	1	0	10.29	0-3	0
	1	12	10.25		0
	1	24	10.21		0
	12	0	10.08		0
	12	6	10.18		0
	12	13	10.11		0
	25	0	10.02		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 8-249
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	12.22	0	0
	1	25	12.46		0
	1	49	12.16		0
	25	0	12.38	0-1	0
	25	12	12.46		0
	25	25	12.28		0
16QAM	50	0	12.44	0-1	0
	1	0	12.28		0
	1	25	12.41		0
	1	49	12.22	0-2	0
	25	0	12.11		0
	25	12	12.24		0
64QAM	25	25	12.10	0-2	0
	50	0	12.27		0
	1	0	12.41		0
	1	25	12.32	0-3	0
	1	49	12.16		0
	25	0	12.11		0
	25	12	12.18		0
	25	25	12.10		0
	50	0	12.26		0

Table 8-250
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	12.19	0	0
	1	12	12.43		0
	1	24	12.13		0
	12	0	12.35	0-1	0
	12	6	12.43		0
	12	13	12.25		0
16QAM	25	0	12.41	0-1	0
	1	0	12.24		0
	1	12	12.37		0
	1	24	12.18	0-2	0
	12	0	12.15		0
	12	6	12.20		0
64QAM	12	13	12.14	0-2	0
	25	0	12.23		0
	1	0	12.33	0-3	0
	1	12	12.24		0
	1	24	12.11		0
	12	0	12.22		0
	12	6	12.10		0
	12	13	12.11		0
	25	0	12.18		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 8-251
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	8.85	0	0
	1	25	9.06		0
	1	49	8.97		0
	25	0	9.03	0-1	0
	25	12	9.01		0
	25	25	9.05		0
	50	0	9.04		0
16QAM	1	0	8.91	0-1	0
	1	25	9.04		0
	1	49	8.92		0
	25	0	8.76	0-2	0
	25	12	8.74		0
	25	25	8.74		0
	50	0	8.80		0
64QAM	1	0	8.85	0-2	0
	1	25	8.91		0
	1	49	8.71		0
	25	0	8.72	0-3	0
	25	12	8.68		0
	25	25	8.69		0
	50	0	8.77		0

Table 8-252
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	8.84	0	0
	1	12	8.85		0
	1	24	8.74		0
	12	0	9.00	0-1	0
	12	6	8.92		0
	12	13	8.99		0
	25	0	9.00		0
16QAM	1	0	8.98	0-1	0
	1	12	8.94		0
	1	24	8.89		0
	12	0	9.00	0-2	0
	12	6	8.89		0
	12	13	8.98		0
	25	0	9.01		0
64QAM	1	0	8.79	0-2	0
	1	12	8.83		0
	1	24	8.85		0
	12	0	8.70	0-3	0
	12	6	8.66		0
	12	13	8.75		0
	25	0	8.69		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 8-253
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	13.49	0	0
	1	25	13.32		0
	1	49	13.34		0
	25	0	13.50	0-1	0
	25	12	13.48		0
	25	25	13.45		0
	50	0	13.43		0
16QAM	1	0	13.50	0-1	0
	1	25	13.47		0
	1	49	13.46		0
	25	0	13.39	0-2	0
	25	12	13.22		0
	25	25	13.17		0
	50	0	13.18		0
64QAM	1	0	12.92	0-2	0
	1	25	12.99		0
	1	49	12.85		0
	25	0	12.87	0-3	0
	25	12	12.90		0
	25	25	12.89		0
	50	0	12.81		0

Table 8-254
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	13.34	0	0
	1	12	13.35		0
	1	24	13.30		0
	12	0	13.30	0-1	0
	12	6	13.27		0
	12	13	13.15		0
	25	0	13.24		0
16QAM	1	0	13.44	0-1	0
	1	12	13.40		0
	1	24	13.37		0
	12	0	12.97	0-2	0
	12	6	13.03		0
	12	13	12.90		0
	25	0	12.94		0
64QAM	1	0	12.82	0-2	0
	1	12	12.81		0
	1	24	12.55		0
	12	0	12.59	0-3	0
	12	6	12.75		0
	12	13	12.81		0
	25	0	12.94		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 8-255
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	9.89	0	0
	1	25	9.96		0
	1	49	10.08		0
	25	0	10.17	0-1	0
	25	12	10.13		0
	25	25	10.18		0
	50	0	10.07		0
16QAM	1	0	10.26	0-1	0
	1	25	10.07		0
	1	49	10.11		0
	25	0	10.10	0-2	0
	25	12	10.00		0
	25	25	10.03		0
	50	0	9.97		0
64QAM	1	0	10.27	0-2	0
	1	25	10.00		0
	1	49	10.03		0
	25	0	10.20	0-3	0
	25	12	10.01		0
	25	25	9.97		0
	50	0	9.96		0

Table 8-256
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	10.04	0	0
	1	12	9.82		0
	1	24	9.90		0
	12	0	10.19	0-1	0
	12	6	10.06		0
	12	13	10.01		0
	25	0	10.03		0
16QAM	1	0	10.09	0-1	0
	1	12	10.05		0
	1	24	10.02		0
	12	0	10.18	0-2	0
	12	6	10.07		0
	12	13	10.00		0
	25	0	9.98		0
64QAM	1	0	10.27	0-2	0
	1	12	10.06		0
	1	24	10.32		0
	12	0	10.21	0-3	0
	12	6	10.05		0
	12	13	10.01		0
	25	0	9.96		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 8-257
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	13.02	0	0
	1	25	12.86		0
	1	49	12.72		0
	25	0	12.99	0-1	0
	25	12	12.91		0
	25	25	12.86		0
	50	0	12.93		0
16QAM	1	0	13.31	0-1	0
	1	25	13.21		0
	1	49	13.00		0
	25	0	13.00	0-2	0
	25	12	12.92		0
	25	25	12.86		0
	50	0	12.93		0
64QAM	1	0	13.18	0-2	0
	1	25	13.02		0
	1	49	12.88		0
	25	0	13.00	0-3	0
	25	12	12.91		0
	25	25	12.86		0
	50	0	12.95		0

Table 8-258
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	12.94	0	0
	1	12	12.90		0
	1	24	12.88		0
	12	0	13.17	0-1	0
	12	6	13.07		0
	12	13	13.18		0
	25	0	13.07		0
16QAM	1	0	13.25	0-1	0
	1	12	12.93		0
	1	24	13.19		0
	12	0	13.15	0-2	0
	12	6	13.08		0
	12	13	13.19		0
	25	0	13.07		0
64QAM	1	0	13.39	0-2	0
	1	12	13.19		0
	1	24	13.32		0
	12	0	13.16	0-3	0
	12	6	13.05		0
	12	13	13.16		0
	25	0	13.03		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 8-259
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	10.26	0	0
	1	25	10.36		0
	1	49	10.35		0
	25	0	10.45	0-1	0
	25	12	10.49		0
	25	25	10.50		0
	50	0	10.35		0
16QAM	1	0	10.40	0-1	0
	1	25	10.30		0
	1	49	10.22		0
	25	0	10.11	0-2	0
	25	12	10.12		0
	25	25	10.10		0
	50	0	10.06		0
64QAM	1	0	10.19	0-2	0
	1	25	10.09		0
	1	49	9.95		0
	25	0	10.05	0-3	0
	25	12	10.01		0
	25	25	9.92		0
	50	0	9.94		0

Table 8-260
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	9.96	0	0
	1	12	9.93		0
	1	24	9.95		0
	12	0	10.16	0-1	0
	12	6	10.16		0
	12	13	10.15		0
	25	0	10.09		0
16QAM	1	0	10.37	0-1	0
	1	12	10.27		0
	1	24	10.49		0
	12	0	10.16	0-2	0
	12	6	10.14		0
	12	13	10.13		0
	25	0	10.11		0
64QAM	1	0	10.18	0-2	0
	1	12	10.18		0
	1	24	10.02		0
	12	0	10.07	0-3	0
	12	6	9.99		0
	12	13	10.12		0
	25	0	10.01		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 8-261
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 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.10	14.09	13.98	0	0
	1	50	14.05	13.95	13.88		0
	1	99	13.92	13.83	13.96		0
	50	0	14.09	13.92	13.95	0-1	0
	50	25	14.07	13.86	13.85		0
	50	50	13.93	13.76	13.86		0
	100	0	14.08	13.87	13.86		0
16QAM	1	0	14.07	13.75	13.94	0-1	0
	1	50	13.86	13.69	13.78		0
	1	99	13.72	13.49	13.81		0
	50	0	13.71	13.48	13.44	0-2	0
	50	25	13.57	13.45	13.36		0
	50	50	13.40	13.35	13.33		0
	100	0	13.55	13.44	13.33		0
64QAM	1	0	14.00	13.84	13.61	0-2	0
	1	50	13.90	13.70	13.51		0
	1	99	13.70	13.58	13.70		0
	50	0	13.38	13.28	13.24	0-3	0
	50	25	13.34	13.18	13.16		0
	50	50	13.25	13.10	13.11		0
	100	0	13.30	13.13	13.13		0

Table 8-262
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	13.93	13.65	13.54	0	0
	1	36	13.77	13.58	13.52		0
	1	74	13.54	13.53	13.55		0
	36	0	13.87	13.62	13.52	0-1	0
	36	18	13.77	13.56	13.52		0
	36	37	13.55	13.52	13.56		0
	75	0	13.75	13.56	13.50		0
16QAM	1	0	14.10	14.01	13.84	0-1	0
	1	36	13.95	13.94	13.68		0
	1	74	13.81	13.64	13.57		0
	36	0	13.72	13.52	13.30	0-2	0
	36	18	13.64	13.44	13.26		0
	36	37	13.55	13.35	13.30		0
	75	0	13.61	13.41	13.22		0
64QAM	1	0	14.10	13.84	13.69	0-2	0
	1	36	14.03	13.98	13.63		0
	1	74	13.88	13.64	13.70		0
	36	0	13.73	13.58	13.30	0-3	0
	36	18	13.70	13.45	13.27		0
	36	37	13.56	13.37	13.35		0
	75	0	13.62	13.42	13.23		0

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Table 8-263
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	13.92	13.62	13.55	0	0
	1	25	13.91	13.62	13.45		0
	1	49	13.81	13.58	13.52		0
	25	0	13.93	13.56	13.43	0-1	0
	25	12	13.94	13.58	13.45		0
	25	25	13.91	13.54	13.48		0
	50	0	13.87	13.58	13.46		0
16QAM	1	0	14.00	13.73	13.56	0-1	0
	1	25	13.95	13.62	13.57		0
	1	49	13.93	13.41	13.63		0
	25	0	13.66	13.40	13.12	0-2	0
	25	12	13.59	13.32	13.19		0
	25	25	13.57	13.26	13.28		0
	50	0	13.57	13.33	13.20		0
64QAM	1	0	14.08	13.74	13.48	0-2	0
	1	25	14.09	13.65	13.60		0
	1	49	14.07	13.52	13.64		0
	25	0	13.72	13.42	13.10	0-3	0
	25	12	13.64	13.33	13.19		0
	25	25	13.59	13.26	13.29		0
	50	0	13.58	13.31	13.21		0

Table 8-264
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	13.83	13.60	13.52	0	0
	1	12	13.85	13.55	13.54		0
	1	24	13.90	13.51	13.68		0
	12	0	13.86	13.50	13.53	0-1	0
	12	6	13.84	13.51	13.53		0
	12	13	13.88	13.53	13.57		0
	25	0	13.84	13.52	13.53		0
16QAM	1	0	13.79	13.56	13.48	0-1	0
	1	12	13.76	13.66	13.49		0
	1	24	13.64	13.45	13.38		0
	12	0	13.69	13.42	13.24	0-2	0
	12	6	13.63	13.42	13.27		0
	12	13	13.64	13.41	13.27		0
	25	0	13.61	13.36	13.27		0
64QAM	1	0	13.98	13.84	13.62	0-2	0
	1	12	13.87	13.81	13.61		0
	1	24	14.00	13.77	13.55		0
	12	0	13.73	13.38	13.28	0-3	0
	12	6	13.60	13.43	13.24		0
	12	13	13.57	13.44	13.26		0
	25	0	13.53	13.40	13.24		0

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Table 8-265

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	10.84	10.75	10.57	0	0
	1	50	10.72	10.57	10.44		0
	1	99	10.58	10.58	10.65		0
	50	0	10.83	10.58	10.53	0-1	0
	50	25	10.79	10.54	10.42		0
	50	50	10.72	10.48	10.44		0
	100	0	10.77	10.51	10.40		0
16QAM	1	0	11.06	11.01	10.92	0-1	0
	1	50	11.06	10.87	10.81		0
	1	99	10.85	10.77	10.73		0
	50	0	11.01	10.81	10.72	0-2	0
	50	25	10.86	10.71	10.55		0
	50	50	10.69	10.70	10.62		0
	100	0	10.82	10.70	10.56		0
64QAM	1	0	11.02	10.93	10.61	0-2	0
	1	50	10.77	10.68	10.52		0
	1	99	10.72	10.77	10.55		0
	50	0	10.73	10.68	10.44	0-3	0
	50	25	10.61	10.52	10.28		0
	50	50	10.54	10.49	10.23		0
	100	0	10.58	10.49	10.27		0

Table 8-266

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	10.83	10.61	10.61	0	0
	1	36	10.84	10.60	10.48		0
	1	74	10.62	10.61	10.43		0
	36	0	10.97	10.70	10.55	0-1	0
	36	18	10.91	10.67	10.58		0
	36	37	10.75	10.65	10.52		0
	75	0	10.86	10.67	10.55		0
16QAM	1	0	11.02	10.82	10.63	0-1	0
	1	36	10.97	10.79	10.48		0
	1	74	10.76	10.62	10.67		0
	36	0	10.92	10.73	10.47	0-2	0
	36	18	10.93	10.67	10.58		0
	36	37	10.76	10.65	10.58		0
	75	0	10.83	10.66	10.52		0
64QAM	1	0	11.07	10.72	10.45	0-2	0
	1	36	10.97	10.77	10.51		0
	1	74	10.85	10.72	10.76		0
	36	0	10.85	10.60	10.39	0-3	0
	36	18	10.76	10.61	10.47		0
	36	37	10.62	10.52	10.50		0
	75	0	10.72	10.51	10.47		0

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Table 8-267

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	10.91	10.73	10.42	0	0
	1	25	10.87	10.66	10.44		0
	1	49	10.72	10.56	10.49		0
	25	0	11.02	10.79	10.56	0-1	0
	25	12	11.00	10.70	10.50		0
	25	25	10.93	10.66	10.57		0
	50	0	10.94	10.72	10.53		0
16QAM	1	0	10.87	10.63	10.50	0-1	0
	1	25	10.80	10.57	10.47		0
	1	49	10.77	10.65	10.65		0
	25	0	10.91	10.64	10.53	0-2	0
	25	12	10.88	10.55	10.48		0
	25	25	10.90	10.59	10.59		0
	50	0	10.86	10.56	10.49		0
64QAM	1	0	10.74	10.75	10.79	0-2	0
	1	25	10.64	10.74	10.77		0
	1	49	10.71	10.72	10.71		0
	25	0	10.55	10.60	10.56	0-3	0
	25	12	10.46	10.56	10.49		0
	25	25	10.47	10.53	10.53		0
	50	0	10.49	10.50	10.47		0

Table 8-268

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 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.77	10.57	10.34	0	0
	1	12	10.88	10.51	10.44		0
	1	24	10.86	10.44	10.51		0
	12	0	10.91	10.58	10.51	0-1	0
	12	6	10.95	10.62	10.49		0
	12	13	11.02	10.63	10.53		0
	25	0	10.98	10.61	10.50		0
16QAM	1	0	10.99	10.64	10.60	0-1	0
	1	12	10.96	10.65	10.61		0
	1	24	11.09	10.63	10.77		0
	12	0	10.88	10.62	10.55	0-2	0
	12	6	10.93	10.64	10.62		0
	12	13	11.00	10.58	10.58		0
	25	0	10.94	10.52	10.55		0
64QAM	1	0	11.10	10.83	10.63	0-2	0
	1	12	11.07	10.73	10.68		0
	1	24	11.03	10.66	10.67		0
	12	0	10.97	10.58	10.48	0-3	0
	12	6	10.80	10.49	10.44		0
	12	13	10.91	10.52	10.46		0
	25	0	10.87	10.49	10.49		0

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Table 8-269
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	11.80	11.56	11.31	0	0
	1	50	11.71	11.40	11.20		0
	1	99	11.51	11.26	11.38		0
	50	0	11.66	11.54	11.28	0-1	0
	50	25	11.70	11.47	11.20		0
	50	50	11.51	11.43	11.21		0
	100	0	11.69	11.48	11.21		0
16QAM	1	0	11.80	11.47	11.52	0-1	0
	1	50	11.71	11.33	11.35		0
	1	99	11.41	11.31	11.52		0
	50	0	11.49	11.24	11.11	0-2	0
	50	25	11.45	11.15	11.02		0
	50	50	11.28	11.14	11.04		0
	100	0	11.44	11.15	11.01		0
64QAM	1	0	11.80	11.35	11.35	0-2	0
	1	50	11.77	11.22	11.13		0
	1	99	11.53	11.20	11.24		0
	50	0	11.49	11.24	11.12	0-3	0
	50	25	11.44	11.16	11.01		0
	50	50	11.28	11.15	11.02		0
	100	0	11.44	11.15	11.01		0

Table 8-270
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	21100	21375		
			(2507.5 MHz)	(2535.0 MHz)	(2562.5 MHz)		
Conducted Power [dBm]							
QPSK	1	0	11.53	11.56	11.28	0	0
	1	36	11.35	11.36	11.24		0
	1	74	11.31	11.15	11.33		0
	36	0	11.37	11.38	11.16	0-1	0
	36	18	11.24	11.33	11.16		0
	36	37	11.20	11.13	11.12		0
	75	0	11.28	11.30	11.15		0
16QAM	1	0	11.43	11.58	11.20	0-1	0
	1	36	11.16	11.33	11.13		0
	1	74	11.18	11.23	11.18		0
	36	0	11.11	11.17	10.90	0-2	0
	36	18	10.97	11.05	10.84		0
	36	37	10.98	10.96	10.85		0
	75	0	11.01	11.05	10.90		0
64QAM	1	0	11.57	11.61	11.24	0-2	0
	1	36	11.30	11.26	11.09		0
	1	74	11.29	11.13	11.17		0
	36	0	11.17	11.18	10.92	0-3	0
	36	18	11.13	11.05	10.94		0
	36	37	10.97	10.91	10.87		0
	75	0	11.01	10.98	10.93		0

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Table 8-271
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	11.44	11.55	11.35	0	0
	1	25	11.55	11.42	11.32		0
	1	49	11.40	11.13	11.24		0
	25	0	11.48	11.44	11.20	0-1	0
	25	12	11.50	11.40	11.15		0
	25	25	11.46	11.23	11.10		0
	50	0	11.41	11.36	11.12		0
16QAM	1	0	11.35	11.55	11.39	0-1	0
	1	25	11.43	11.30	11.35		0
	1	49	11.28	11.28	11.43		0
	25	0	11.24	11.14	10.98	0-2	0
	25	12	11.26	11.08	10.94		0
	25	25	11.17	10.95	10.86		0
	50	0	11.24	11.01	10.96		0
64QAM	1	0	11.37	11.51	11.46	0-2	0
	1	25	11.39	11.57	11.43		0
	1	49	11.16	11.22	11.35		0
	25	0	11.26	11.13	10.97	0-3	0
	25	12	11.24	11.06	10.96		0
	25	25	11.17	10.96	10.87		0
	50	0	11.24	11.04	10.94		0

Table 8-272
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	11.54	11.58	11.39	0	0
	1	12	11.60	11.45	11.32		0
	1	24	11.63	11.24	11.41		0
	12	0	11.53	11.55	11.31	0-1	0
	12	6	11.59	11.42	11.28		0
	12	13	11.58	11.30	11.23		0
	25	0	11.59	11.42	11.26		0
16QAM	1	0	11.66	11.61	11.54	0-1	0
	1	12	11.51	11.39	11.46		0
	1	24	11.59	11.40	11.74		0
	12	0	11.20	11.06	11.05	0-2	0
	12	6	11.26	11.05	11.03		0
	12	13	11.20	10.97	11.06		0
	25	0	11.24	11.05	11.04		0
64QAM	1	0	11.63	11.48	11.41	0-2	0
	1	12	11.52	11.51	11.52		0
	1	24	11.66	11.32	11.62		0
	12	0	11.23	11.15	11.06	0-3	0
	12	6	11.23	11.02	11.05		0
	12	13	11.21	11.00	11.07		0
	25	0	11.25	11.07	11.07		0

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Table 8-273
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	8.79	8.69	8.77	0	0
	1	50	8.71	8.68	8.75		0
	1	99	8.80	8.78	8.70		0
	50	0	8.79	8.76	8.70	0-1	0
	50	25	8.71	8.76	8.65		0
	50	50	8.75	8.78	8.53		0
	100	0	8.77	8.76	8.51		0
16QAM	1	0	8.71	8.52	8.60	0-1	0
	1	50	8.63	8.56	8.27		0
	1	99	8.50	8.70	8.21		0
	50	0	8.35	8.16	8.02	0-2	0
	50	25	8.28	8.06	7.90		0
	50	50	8.23	8.09	7.90		0
	100	0	8.29	8.05	7.89		0
64QAM	1	0	8.61	8.42	8.25	0-2	0
	1	50	8.40	8.22	8.40		0
	1	99	8.21	8.38	8.48		0
	50	0	8.29	8.11	8.06	0-3	0
	50	25	8.20	8.05	8.03		0
	50	50	8.27	8.11	8.16		0
	100	0	8.32	8.07	8.02		0

Table 8-274
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	21100	21375		
			(2507.5 MHz)	(2535.0 MHz)	(2562.5 MHz)		
Conducted Power [dBm]							
QPSK	1	0	8.55	8.42	8.17	0	0
	1	36	8.57	8.39	8.22		0
	1	74	8.26	8.32	8.23		0
	36	0	8.54	8.37	8.15	0-1	0
	36	18	8.49	8.29	8.14		0
	36	37	8.34	8.24	8.16		0
	75	0	8.45	8.27	8.13		0
16QAM	1	0	8.69	8.49	8.26	0-1	0
	1	36	8.47	8.30	8.25		0
	1	74	8.37	8.33	8.28		0
	36	0	8.54	8.35	8.15	0-2	0
	36	18	8.46	8.31	8.16		0
	36	37	8.35	8.24	8.14		0
	75	0	8.42	8.27	8.12		0
64QAM	1	0	8.52	8.40	8.10	0-2	0
	1	36	8.44	8.43	8.06		0
	1	74	8.47	8.53	8.25		0
	36	0	8.32	8.21	7.90	0-3	0
	36	18	8.34	8.20	7.93		0
	36	37	8.29	8.27	8.02		0
	75	0	8.31	8.22	7.93		0

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Table 8-275
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	8.66	8.33	8.15	0	0
	1	25	8.57	8.19	8.08		0
	1	49	8.41	8.14	8.06		0
	25	0	8.68	8.48	8.15	0-1	0
	25	12	8.63	8.42	8.15		0
	25	25	8.56	8.42	8.19		0
	50	0	8.64	8.42	8.18		0
16QAM	1	0	8.78	8.51	8.27	0-1	0
	1	25	8.65	8.37	8.17		0
	1	49	8.39	8.49	8.13		0
	25	0	8.68	8.48	8.16	0-2	0
	25	12	8.60	8.46	8.15		0
	25	25	8.54	8.45	8.15		0
	50	0	8.60	8.42	8.18		0
64QAM	1	0	8.45	8.13	8.10	0-2	0
	1	25	8.56	8.00	8.04		0
	1	49	8.61	8.06	8.05		0
	25	0	8.31	7.97	7.88	0-3	0
	25	12	8.34	7.99	7.94		0
	25	25	8.37	8.10	7.98		0
	50	0	8.34	8.07	7.97		0

Table 8-276
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	8.52	8.48	7.94	0	0
	1	12	8.46	8.42	8.00		0
	1	24	8.41	8.44	8.05		0
	12	0	8.57	8.43	8.16	0-1	0
	12	6	8.57	8.43	8.18		0
	12	13	8.56	8.46	8.14		0
	25	0	8.59	8.45	8.18		0
16QAM	1	0	8.75	8.55	8.17	0-1	0
	1	12	8.66	8.48	8.24		0
	1	24	8.49	8.47	8.25		0
	12	0	8.58	8.48	8.15	0-2	0
	12	6	8.60	8.49	8.14		0
	12	13	8.60	8.46	8.15		0
	25	0	8.57	8.45	8.21		0
64QAM	1	0	8.57	8.32	8.23	0-2	0
	1	12	8.58	8.19	8.28		0
	1	24	8.54	8.25	8.32		0
	12	0	8.36	8.05	8.10	0-3	0
	12	6	8.36	8.06	8.13		0
	12	13	8.38	8.09	8.06		0
	25	0	8.36	8.06	8.11		0

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Table 8-277
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	14.45	14.30	14.57	0	0
	1	50	14.01	14.22	14.11		0
	1	99	14.19	14.39	14.35		0
	50	0	14.21	14.21	14.31	0-1	0
	50	25	13.94	14.25	14.02		0
	50	50	14.02	14.30	14.11		0
	100	0	13.96	14.29	14.04		0
16QAM	1	0	14.31	14.33	14.54	0-1	0
	1	50	14.36	14.27	14.10		0
	1	99	14.35	14.42	14.31		0
	50	0	14.08	14.00	14.03	0-2	0
	50	25	14.07	14.01	13.81		0
	50	50	14.17	14.12	13.84		0
	100	0	14.10	14.02	13.83		0
64QAM	1	0	14.28	13.87	14.26	0-2	0
	1	50	14.25	13.88	14.21		0
	1	99	14.17	14.05	14.00		0
	50	0	13.93	13.81	13.84	0-3	0
	50	25	14.04	13.90	13.80		0
	50	50	14.07	13.96	13.82		0
	100	0	14.01	13.89	13.78		0

Table 8-278
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	14.09	14.21	14.11	0	0
	1	36	14.14	14.14	13.86		0
	1	74	14.30	14.30	14.15		0
	36	0	14.08	14.19	13.90	0-1	0
	36	18	14.13	14.14	13.86		0
	36	37	14.19	14.27	14.03		0
	75	0	14.15	14.21	13.88		0
16QAM	1	0	14.28	14.39	14.18	0-1	0
	1	36	14.26	14.36	14.07		0
	1	74	14.46	14.45	14.30		0
	36	0	14.14	14.16	13.90	0-2	0
	36	18	14.19	14.13	13.87		0
	36	37	14.26	14.26	14.02		0
	75	0	14.21	14.20	13.86		0
64QAM	1	0	14.25	14.37	14.18	0-2	0
	1	36	14.31	14.33	13.97		0
	1	74	14.47	14.41	14.37		0
	36	0	14.14	14.15	13.89	0-3	0
	36	18	14.21	14.13	13.85		0
	36	37	14.27	14.26	14.02		0
	75	0	14.20	14.20	13.84		0

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Table 8-279
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	21100	21400		
			(2505.0 MHz)	(2535.0 MHz)	(2565.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	14.06	14.16	14.08	0	0
	1	25	14.09	14.17	13.96		0
	1	49	14.22	14.35	14.11		0
	25	0	14.11	14.10	13.81	0-1	0
	25	12	14.08	14.04	13.93		0
	25	25	14.12	14.20	14.07		0
	50	0	14.11	14.12	13.98		0
16QAM	1	0	14.25	14.21	14.06	0-1	0
	1	25	14.27	14.36	14.09		0
	1	49	14.39	14.43	14.34		0
	25	0	14.10	14.13	13.80	0-2	0
	25	12	14.09	14.19	13.92		0
	25	25	14.14	14.12	14.06		0
	50	0	14.10	14.12	13.98		0
64QAM	1	0	14.17	14.21	14.08	0-2	0
	1	25	14.24	14.24	14.13		0
	1	49	14.32	14.44	14.25		0
	25	0	14.11	14.09	13.79	0-3	0
	25	12	14.07	14.11	13.92		0
	25	25	14.11	14.19	14.04		0
	50	0	14.08	14.12	13.96		0

Table 8-280
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	13.97	14.01	14.14	0	0
	1	12	14.01	14.10	14.10		0
	1	24	14.05	14.16	14.11		0
	12	0	13.98	13.97	14.04	0-1	0
	12	6	14.00	13.98	14.06		0
	12	13	13.96	14.10	14.09		0
	25	0	14.02	14.08	14.08		0
16QAM	1	0	14.05	14.26	14.18	0-1	0
	1	12	14.15	14.25	14.29		0
	1	24	14.23	14.35	14.36		0
	12	0	13.92	13.99	14.06	0-2	0
	12	6	13.96	14.00	14.11		0
	12	13	13.95	14.10	14.09		0
	25	0	13.94	14.09	14.10		0
64QAM	1	0	14.01	14.16	14.08	0-2	0
	1	12	14.05	14.24	14.22		0
	1	24	14.08	14.21	14.29		0
	12	0	13.90	13.97	14.02	0-3	0
	12	6	13.93	14.01	14.07		0
	12	13	13.94	14.08	14.09		0
	25	0	13.92	14.06	14.07		0

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Table 8-281

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	10.94	11.22	11.21	0	0
	1	50	11.02	11.35	11.13		0
	1	99	11.21	11.52	11.13		0
	50	0	10.88	11.15	11.07	0-1	0
	50	25	10.97	11.28	11.02		0
	50	50	11.19	11.37	11.02		0
	100	0	11.16	11.31	11.03		0
16QAM	1	0	11.25	11.25	11.60	0-1	0
	1	50	11.35	11.22	11.44		0
	1	99	11.39	11.40	11.60		0
	50	0	11.16	11.18	11.28	0-2	0
	50	25	11.22	11.17	11.21		0
	50	50	11.37	11.23	11.26		0
	100	0	11.31	11.22	11.23		0
64QAM	1	0	11.27	11.52	11.60	0-2	0
	1	50	11.30	11.58	11.45		0
	1	99	11.40	11.60	11.40		0
	50	0	11.15	11.21	11.29	0-3	0
	50	25	11.24	11.11	11.22		0
	50	50	11.37	11.20	11.24		0
	100	0	11.24	11.18	11.23		0

Table 8-282

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	11.34	11.09	11.04	0	0
	1	36	11.33	11.31	11.11		0
	1	74	11.34	11.23	10.93		0
	36	0	11.06	11.17	11.04	0-1	0
	36	18	11.11	11.20	11.15		0
	36	37	11.17	11.24	11.07		0
	75	0	11.15	11.23	11.16		0
16QAM	1	0	11.33	11.21	11.15	0-1	0
	1	36	11.40	11.41	11.11		0
	1	74	11.46	11.40	11.00		0
	36	0	11.04	11.14	11.03	0-2	0
	36	18	11.07	11.22	11.13		0
	36	37	11.13	11.26	11.07		0
	75	0	11.11	11.22	11.14		0
64QAM	1	0	11.12	11.35	11.55	0-2	0
	1	36	11.34	11.31	11.58		0
	1	74	11.24	11.45	11.34		0
	36	0	11.14	11.19	11.09	0-3	0
	36	18	11.23	11.24	11.15		0
	36	37	11.24	11.26	11.08		0
	75	0	11.23	11.24	11.14		0

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Table 8-283

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	11.08	11.32	11.09	0	0
	1	25	10.98	11.33	11.17		0
	1	49	11.30	11.39	11.10		0
	25	0	11.26	11.38	11.22	0-1	0
	25	12	11.21	11.39	11.17		0
	25	25	11.30	11.41	11.19		0
	50	0	11.24	11.39	11.21		0
16QAM	1	0	11.34	11.47	11.33	0-1	0
	1	25	11.35	11.50	11.15		0
	1	49	11.42	11.44	11.25		0
	25	0	11.24	11.37	11.21	0-2	0
	25	12	11.20	11.37	11.18		0
	25	25	11.29	11.45	11.16		0
	50	0	11.23	11.42	11.19		0
64QAM	1	0	11.32	11.46	11.22	0-2	0
	1	25	11.42	11.51	11.60		0
	1	49	11.49	11.60	11.34		0
	25	0	11.27	11.37	11.21	0-3	0
	25	12	11.23	11.33	11.22		0
	25	25	11.27	11.38	11.15		0
	50	0	11.23	11.40	11.22		0

Table 8-284

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	11.20	11.52	11.06	0	0
	1	12	11.21	11.48	10.96		0
	1	24	11.19	11.57	11.14		0
	12	0	11.25	11.38	11.24	0-1	0
	12	6	11.20	11.34	11.19		0
	12	13	11.12	11.42	11.20		0
	25	0	11.22	11.40	11.22		0
16QAM	1	0	11.34	11.60	11.21	0-1	0
	1	12	11.36	11.55	11.22		0
	1	24	11.26	11.59	11.39		0
	12	0	11.28	11.44	11.23	0-2	0
	12	6	11.20	11.32	11.28		0
	12	13	11.13	11.45	11.19		0
	25	0	11.19	11.40	11.19		0
64QAM	1	0	11.39	11.57	11.44	0-2	0
	1	12	11.36	11.57	11.44		0
	1	24	11.14	11.59	11.34		0
	12	0	11.21	11.33	11.15	0-3	0
	12	6	11.12	11.36	11.13		0
	12	13	11.06	11.41	11.13		0
	25	0	11.15	11.39	11.10		0

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Table 8-285
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	12.33	12.25	12.05	0	0
	1	50	12.40	12.28	12.14		0
	1	99	12.43	12.21	12.28		0
	50	0	12.24	12.03	12.00	0-1	0
	50	25	12.32	12.21	12.10		0
	50	50	12.45	12.07	12.23		0
	100	0	12.32	12.13	12.09		0
16QAM	1	0	12.17	12.27	12.07	0-1	0
	1	50	12.37	12.32	12.13		0
	1	99	12.49	12.18	12.20		0
	50	0	12.07	12.22	11.86	0-2	0
	50	25	12.08	11.97	11.94		0
	50	50	12.15	11.98	11.97		0
	100	0	12.00	12.08	11.96		0
64QAM	1	0	11.97	11.99	11.95	0-2	0
	1	50	11.69	11.88	11.86		0
	1	99	11.81	12.12	11.98		0
	50	0	11.67	12.21	12.11	0-3	0
	50	25	11.88	11.95	12.05		0
	50	50	11.85	11.89	12.06		0
	100	0	11.83	11.97	12.11		0

Table 8-286
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	21100	21375		
			(2507.5 MHz)	(2535.0 MHz)	(2562.5 MHz)		
Conducted Power [dBm]							
QPSK	1	0	12.03	11.55	11.66	0	0
	1	36	11.91	11.80	11.83		0
	1	74	12.03	11.78	11.77		0
	36	0	11.89	11.69	11.71	0-1	0
	36	18	11.75	11.84	11.80		0
	36	37	11.77	11.88	11.78		0
	75	0	11.73	11.82	11.78		0
16QAM	1	0	12.23	11.78	11.82	0-1	0
	1	36	11.97	11.97	11.94		0
	1	74	11.93	11.94	11.97		0
	36	0	11.74	11.66	11.68	0-2	0
	36	18	11.65	11.85	11.78		0
	36	37	11.71	11.86	11.76		0
	75	0	11.58	11.83	11.78		0
64QAM	1	0	11.58	11.51	11.58	0-2	0
	1	36	11.61	11.54	11.61		0
	1	74	11.59	11.59	11.55		0
	36	0	11.63	11.57	11.68	0-3	0
	36	18	11.68	11.61	11.59		0
	36	37	11.72	11.62	11.67		0
	75	0	11.83	11.83	11.53		0

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Table 8-287
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	11.86	11.70	11.92	0	0
	1	25	11.90	11.93	11.99		0
	1	49	11.89	12.04	12.00		0
	25	0	11.93	11.90	11.97	0-1	0
	25	12	11.92	11.97	11.99		0
	25	25	11.87	12.02	12.04		0
	50	0	11.92	12.01	12.00		0
16QAM	1	0	12.18	11.99	12.17	0-1	0
	1	25	12.21	12.17	12.23		0
	1	49	12.16	12.26	12.19		0
	25	0	11.91	11.89	11.97	0-2	0
	25	12	11.90	11.96	11.99		0
	25	25	11.87	12.06	12.04		0
	50	0	11.91	11.99	12.00		0
64QAM	1	0	11.98	11.97	12.05	0-2	0
	1	25	11.91	11.92	11.98		0
	1	49	11.95	11.87	11.88		0
	25	0	11.96	11.83	12.06	0-3	0
	25	12	11.87	11.72	12.07		0
	25	25	11.89	12.10	11.95		0
	50	0	11.95	12.08	11.93		0

Table 8-288
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	11.88	11.95	11.73	0	0
	1	12	11.88	12.05	11.68		0
	1	24	11.87	12.11	11.76		0
	12	0	11.80	11.93	11.76	0-1	0
	12	6	11.80	11.92	11.80		0
	12	13	11.88	11.97	11.76		0
	25	0	11.81	11.96	11.80		0
16QAM	1	0	12.09	11.99	12.03	0-1	0
	1	12	12.17	12.08	11.93		0
	1	24	12.10	12.11	12.09		0
	12	0	11.83	11.90	11.82	0-2	0
	12	6	11.79	11.95	11.83		0
	12	13	11.84	11.98	11.80		0
	25	0	11.86	11.96	11.79		0
64QAM	1	0	11.92	11.93	12.01	0-2	0
	1	12	11.85	11.91	11.98		0
	1	24	12.00	11.89	11.89		0
	12	0	12.05	11.95	11.92	0-3	0
	12	6	11.95	11.85	11.95		0
	12	13	11.93	11.93	12.03		0
	25	0	11.87	12.00	12.01		0

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Table 8-289
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	9.16	8.77	9.21	0	0
	1	50	9.36	8.80	9.36		0
	1	99	9.25	9.03	9.30		0
	50	0	9.35	9.03	9.22	0-1	0
	50	25	9.36	9.00	9.26		0
	50	50	9.28	9.01	9.27		0
	100	0	9.31	9.04	9.25		0
16QAM	1	0	9.30	8.70	8.90	0-1	0
	1	50	9.12	9.00	9.23		0
	1	99	9.23	8.89	9.45		0
	50	0	9.25	8.96	8.77	0-2	0
	50	25	9.22	8.94	9.03		0
	50	50	9.29	8.83	9.15		0
	100	0	9.19	9.00	9.02		0
64QAM	1	0	9.40	9.03	9.28	0-2	0
	1	50	9.47	8.76	9.13		0
	1	99	9.30	8.95	9.50		0
	50	0	9.09	8.78	8.74	0-3	0
	50	25	9.13	8.76	9.00		0
	50	50	9.31	8.74	9.11		0
	100	0	9.09	8.87	9.01		0

Table 8-290
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	21100	21375		
			(2507.5 MHz)	(2535.0 MHz)	(2562.5 MHz)		
Conducted Power [dBm]							
QPSK	1	0	9.28	8.62	8.96	0	0
	1	36	9.16	8.87	9.12		0
	1	74	9.27	8.82	9.08		0
	36	0	9.09	8.99	9.10	0-1	0
	36	18	8.99	9.01	9.15		0
	36	37	9.03	8.97	9.15		0
	75	0	9.01	9.02	9.09		0
16QAM	1	0	9.31	9.01	9.16	0-1	0
	1	36	9.21	9.03	9.40		0
	1	74	9.26	9.05	9.06		0
	36	0	9.11	9.01	9.07	0-2	0
	36	18	8.96	9.03	9.15		0
	36	37	8.97	8.97	9.15		0
	75	0	8.96	9.00	9.12		0
64QAM	1	0	9.46	8.74	9.49	0-2	0
	1	36	9.32	8.93	9.46		0
	1	74	9.25	8.91	9.25		0
	36	0	9.31	8.80	9.12	0-3	0
	36	18	9.19	8.85	9.22		0
	36	37	9.12	8.85	9.20		0
	75	0	9.09	8.87	9.12		0

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Table 8-291
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	9.31	8.78	9.21	0	0
	1	25	9.22	8.74	9.18		0
	1	49	9.08	8.90	9.09		0
	25	0	9.29	8.88	9.19	0-1	0
	25	12	9.24	8.93	9.18		0
	25	25	9.10	8.94	9.24		0
	50	0	9.24	8.96	9.20		0
16QAM	1	0	9.50	9.19	9.50	0-1	0
	1	25	9.43	9.03	9.48		0
	1	49	9.35	9.18	9.14		0
	25	0	9.25	8.90	9.20	0-2	0
	25	12	9.22	8.95	9.24		0
	25	25	9.07	8.90	9.25		0
	50	0	9.22	8.98	9.19		0
64QAM	1	0	9.39	9.21	9.40	0-2	0
	1	25	9.44	9.17	9.24		0
	1	49	9.36	9.02	9.25		0
	25	0	9.08	8.90	9.21	0-3	0
	25	12	9.07	8.79	9.15		0
	25	25	8.95	8.76	9.15		0
	50	0	9.06	8.82	9.06		0

Table 8-292
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	9.23	8.60	9.02	0	0
	1	12	9.24	8.68	9.07		0
	1	24	9.24	8.82	9.10		0
	12	0	9.15	8.67	8.96	0-1	0
	12	6	9.17	8.72	9.14		0
	12	13	9.13	8.73	9.18		0
	25	0	9.17	8.73	9.13		0
16QAM	1	0	9.40	8.80	8.98	0-1	0
	1	12	9.49	8.88	9.11		0
	1	24	9.46	8.99	9.15		0
	12	0	9.17	8.68	8.99	0-2	0
	12	6	9.19	8.69	9.09		0
	12	13	9.19	8.73	9.12		0
	25	0	9.14	8.77	9.18		0
64QAM	1	0	9.25	8.90	9.43	0-2	0
	1	12	9.33	8.94	9.45		0
	1	24	9.31	9.14	9.42		0
	12	0	9.20	8.69	9.06	0-3	0
	12	6	9.27	8.66	9.17		0
	12	13	9.26	8.72	9.19		0
	25	0	9.17	8.71	9.12		0

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LTE Band 41

Table 8-293
LTE Band 41 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	16.17	16.15	15.81	16.23	15.87	0	0
	1	50	16.39	16.24	15.96	16.08	15.91		0
	1	99	16.31	16.12	16.11	16.02	15.79		0
	50	0	16.34	16.20	15.92	16.07	15.94	0-1	0
	50	25	16.38	16.26	15.95	16.01	15.91		0
	50	50	16.37	16.15	16.08	15.95	15.89		0
	100	0	16.32	16.23	15.99	15.99	15.93		0
16QAM	1	0	16.11	16.07	15.62	15.97	15.76	0-1	0
	1	50	16.29	16.19	15.73	15.79	15.83		0
	1	99	16.24	16.07	16.00	15.86	15.68		0
	50	0	16.11	15.96	15.68	15.87	15.65	0-2	0
	50	25	16.19	16.01	15.75	15.76	15.63		0
	50	50	16.12	15.95	15.82	15.66	15.63		0
	100	0	16.09	16.00	15.72	15.75	15.68		0
64QAM	1	0	16.01	16.18	15.52	15.86	15.70	0-2	0
	1	50	16.24	16.13	15.92	15.74	15.66		0
	1	99	16.17	15.90	15.87	15.57	15.48		0
	50	0	16.13	15.97	15.66	15.82	15.69	0-3	0
	50	25	16.16	16.06	15.72	15.77	15.63		0
	50	50	16.14	15.92	15.80	15.71	15.61		0
	100	0	16.12	16.03	15.69	15.75	15.65		0

Table 8-294
LTE Band 41 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	16.20	15.94	15.70	15.98	15.75	0	0
	1	36	16.19	16.07	15.87	15.94	15.83		0
	1	74	16.12	15.89	15.98	15.73	15.70		0
	36	0	16.11	15.88	15.72	15.88	15.75	0-1	0
	36	18	16.11	15.98	15.79	15.87	15.76		0
	36	37	16.05	15.87	15.83	15.68	15.70		0
	75	0	16.07	15.97	15.78	15.83	15.75		0
16QAM	1	0	16.37	16.14	15.81	16.12	15.98	0-1	0
	1	36	16.40	16.13	16.04	16.12	15.93		0
	1	74	16.16	16.06	16.14	15.92	15.80		0
	36	0	16.10	15.89	15.71	15.92	15.75	0-2	0
	36	18	16.10	15.99	15.78	15.89	15.75		0
	36	37	16.05	15.87	15.83	15.68	15.68		0
	75	0	16.08	15.96	15.77	15.85	15.76		0
64QAM	1	0	15.99	15.83	15.48	15.75	15.51	0-2	0
	1	36	16.06	16.00	15.64	15.86	15.82		0
	1	74	16.05	15.81	15.78	15.48	15.40		0
	36	0	16.12	15.87	15.68	15.88	15.74	0-3	0
	36	18	16.11	15.98	15.78	15.88	15.76		0
	36	37	16.05	15.85	15.83	15.69	15.68		0
	75	0	16.06	15.97	15.78	15.83	15.74		0

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Table 8-295
LTE Band 41 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	16.20	16.00	15.82	16.01	15.84	0	0	
	1	25	16.17	16.03	15.84	15.89	15.79		0-1	0
	1	49	16.21	15.96	16.00	15.81	15.77			0
	25	0	16.04	15.97	15.76	15.85	15.70	0		
	25	12	16.09	15.94	15.74	15.80	15.72	0		
	25	25	16.11	15.95	15.85	15.69	15.69		0	
	50	0	16.11	15.97	15.78	15.83	15.74		0	
16QAM	1	0	16.37	16.05	15.79	16.17	15.92	0-1	0	
	1	25	16.37	16.03	16.04	16.20	15.97		0-2	0
	1	49	16.34	16.06	16.17	16.00	16.07			0
	25	0	16.04	15.94	15.76	15.86	15.68	0		
	25	12	16.07	15.95	15.76	15.80	15.73			0
	25	25	16.06	15.93	15.83	15.70	15.68		0	
	50	0	16.05	15.94	15.76	15.82	15.74	0		
64QAM	1	0	16.06	15.87	15.70	15.62	15.75	0-2	0	
	1	25	15.92	15.93	15.64	15.43	15.70		0-3	0
	1	49	15.95	15.86	15.81	15.40	15.76			0
	25	0	16.03	16.00	15.78	15.88	15.74	0		
	25	12	16.07	15.98	15.75	15.81	15.74	0		
	25	25	16.07	15.96	15.86	15.71	15.67		0	
	50	0	16.06	15.94	15.80	15.85	15.70		0	

Table 8-296
LTE Band 41 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	16.04	15.82	15.93	15.78	0	0	
	1	12	16.16	16.03	15.80	15.88	15.81		0-1	0
	1	24	16.18	16.03	15.89	15.78	15.77			0
	12	0	16.02	15.93	15.73	15.81	15.71	0		
	12	6	16.05	15.92	15.70	15.79	15.70	0		0
	12	13	16.02	15.93	15.79	15.78	15.73		0	
	25	0	16.08	15.93	15.74	15.80	15.72		0	
16QAM	1	0	15.92	16.10	15.81	15.97	15.82	0-1	0	
	1	12	16.07	16.01	15.73	16.06	15.84		0-2	0
	1	24	16.05	16.06	15.85	15.94	15.67			0
	12	0	16.00	15.94	15.71	15.83	15.66	0		
	12	6	16.04	15.96	15.72	15.78	15.69	0		0
	12	13	16.04	15.95	15.76	15.79	15.71		0	
	25	0	16.09	15.93	15.74	15.80	15.71		0	
64QAM	1	0	16.09	15.86	15.73	15.90	15.87	0-2	0	
	1	12	16.15	15.90	15.79	15.77	15.88		0-3	0
	1	24	16.32	15.93	15.97	15.63	15.85			0
	12	0	16.01	15.94	15.71	15.79	15.69	0		
	12	6	16.02	15.96	15.73	15.82	15.69	0		0
	12	13	15.94	15.92	15.76	15.75	15.67		0	
	25	0	16.10	15.91	15.76	15.79	15.72		0	

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Table 8-297
LTE Band 41 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	13.07	12.90	12.86	12.91	12.93	0	0
	1	50	13.15	12.91	12.87	12.84	12.98		0
	1	99	13.16	12.90	12.89	12.80	12.91		0
	50	0	13.06	12.80	12.80	12.83	12.96	0-1	0
	50	25	13.15	12.80	12.84	12.81	12.95		0
	50	50	13.16	12.80	12.85	12.80	12.91		0
	100	0	13.12	12.80	12.80	12.81	12.91		0
16QAM	1	0	13.38	12.97	12.80	13.22	13.06	0-1	0
	1	50	13.32	12.98	12.89	13.10	13.14		0
	1	99	13.38	13.02	12.96	12.90	13.02		0
	50	0	13.17	12.85	12.80	12.88	13.07	0-2	0
	50	25	13.18	12.88	12.82	12.89	13.00		0
	50	50	13.21	12.84	12.90	12.81	13.01		0
	100	0	13.17	12.87	12.86	12.90	13.00		0
64QAM	1	0	13.15	12.91	12.87	13.13	13.06	0-2	0
	1	50	13.21	12.93	12.80	13.07	13.09		0
	1	99	13.22	12.91	12.90	12.90	12.99		0
	50	0	13.17	12.84	12.82	12.94	13.03	0-3	0
	50	25	13.18	12.86	12.82	12.99	13.05		0
	50	50	13.20	12.82	12.92	12.84	13.02		0
	100	0	13.20	12.86	12.88	12.88	13.00		0

Table 8-298
LTE Band 41 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	12.96	13.00	13.00	13.03	12.95	0	0
	1	36	13.24	13.10	13.14	12.97	13.07		0
	1	74	13.16	13.02	13.19	12.88	13.06		0
	36	0	13.03	12.94	12.97	12.93	12.98	0-1	0
	36	18	13.11	12.99	13.07	12.89	13.00		0
	36	37	13.06	12.96	13.16	12.80	13.00		0
	75	0	13.12	13.00	13.06	12.87	12.97		0
16QAM	1	0	13.01	13.09	13.19	13.16	13.08	0-1	0
	1	36	13.24	13.22	13.37	13.07	13.22		0
	1	74	13.29	13.24	13.40	12.94	13.28		0
	36	0	13.02	12.94	13.00	12.91	12.98	0-2	0
	36	18	13.09	13.01	13.09	12.91	12.96		0
	36	37	13.14	12.96	13.13	12.80	13.00		0
	75	0	13.10	13.00	13.07	12.89	12.97		0
64QAM	1	0	12.94	12.91	12.91	12.89	12.84	0-2	0
	1	36	13.10	12.93	13.16	12.80	12.97		0
	1	74	12.85	12.96	13.02	12.81	12.88		0
	36	0	12.99	12.91	13.01	12.90	12.96	0-3	0
	36	18	13.13	12.99	13.09	12.87	12.98		0
	36	37	13.06	12.96	13.13	12.81	13.00		0
	75	0	13.03	12.97	13.05	12.86	12.95		0

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Table 8-299
LTE Band 41 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	13.08	13.03	13.08	13.04	13.04	0	0
	1	25	13.17	13.05	13.12	12.93	13.00		0
	1	49	13.21	13.05	13.20	12.88	13.06		0
	25	0	13.04	12.99	12.99	12.91	12.90	0-1	0
	25	12	13.11	12.98	13.06	12.84	12.94		0
	25	25	13.13	12.96	13.05	12.81	12.97		0
	50	0	13.12	13.00	13.04	12.86	12.96		0
16QAM	1	0	13.29	13.22	13.18	13.17	13.16	0-1	0
	1	25	13.21	13.09	13.19	13.13	13.26		0
	1	49	13.31	13.19	13.37	12.94	13.21		0
	25	0	13.03	12.98	12.96	12.87	12.90	0-2	0
	25	12	13.08	12.95	13.05	12.86	12.95		0
	25	25	13.12	12.95	13.07	12.82	13.00		0
	50	0	13.12	12.98	13.06	12.87	12.97		0
64QAM	1	0	12.95	12.87	12.93	12.81	12.89	0-2	0
	1	25	13.10	12.97	12.89	12.86	12.90		0
	1	49	12.87	12.85	12.98	12.86	13.00		0
	25	0	13.09	12.97	12.99	12.93	12.96	0-3	0
	25	12	13.13	13.00	13.03	12.85	12.94		0
	25	25	13.15	12.99	13.08	12.82	12.94		0
	50	0	13.13	13.02	13.11	12.89	12.96		0

Table 8-300
LTE Band 41 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	13.10	13.05	13.02	12.96	13.00	0	0
	1	12	13.15	13.02	13.06	12.93	12.98		0
	1	24	13.20	13.03	13.08	12.86	13.07		0
	12	0	13.06	12.95	12.93	12.87	12.89	0-1	0
	12	6	13.06	12.95	12.98	12.81	12.92		0
	12	13	13.08	12.96	13.00	12.83	12.91		0
	25	0	13.07	12.94	13.00	12.85	12.94		0
16QAM	1	0	13.01	13.15	13.02	13.12	12.84	0-1	0
	1	12	13.06	12.99	13.03	12.91	13.00		0
	1	24	13.23	12.93	13.10	12.81	12.96		0
	12	0	13.08	12.94	12.88	12.90	12.89	0-2	0
	12	6	13.07	12.96	13.01	12.92	12.92		0
	12	13	13.08	12.95	12.99	12.80	12.92		0
	25	0	13.11	12.97	12.97	12.86	12.95		0
64QAM	1	0	13.22	12.92	12.87	12.89	13.11	0-2	0
	1	12	12.94	13.13	13.06	12.93	12.89		0
	1	24	13.22	12.92	12.90	12.94	13.20		0
	12	0	13.04	12.97	12.88	12.81	12.84	0-3	0
	12	6	13.14	12.91	12.98	12.83	12.95		0
	12	13	13.04	12.97	12.92	12.85	12.90		0
	25	0	13.07	12.99	12.98	12.89	12.93		0

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Table 8-301
LTE Band 41 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	16.90	16.86	16.60	16.77	16.31	0	0
	1	50	16.81	16.80	16.73	16.66	16.34		0
	1	99	16.89	16.77	16.89	16.55	16.41		0
	50	0	16.89	16.88	16.66	16.67	16.25	0-1	0
	50	25	16.77	16.77	16.68	16.62	16.32		0
	50	50	16.82	16.72	16.76	16.51	16.34		0
	100	0	16.78	16.76	16.74	16.58	16.34		0
16QAM	1	0	16.89	16.90	16.42	16.61	16.14	0-1	0
	1	50	16.68	16.71	16.54	16.55	16.21		0
	1	99	16.81	16.68	16.72	16.43	16.25		0
	50	0	16.58	16.63	16.35	16.40	15.98	0-2	0
	50	25	16.46	16.51	16.36	16.37	16.01		0
	50	50	16.54	16.49	16.44	16.25	16.03		0
	100	0	16.48	16.55	16.37	16.35	16.00		0
64QAM	1	0	16.44	16.58	16.26	16.41	16.04	0-2	0
	1	50	16.47	16.45	16.25	16.36	15.97		0
	1	99	16.49	16.42	16.27	16.18	16.02		0
	50	0	16.45	16.49	16.22	16.33	15.90	0-3	0
	50	25	16.41	16.42	16.18	16.29	15.93		0
	50	50	16.44	16.40	16.17	16.18	15.95		0
	100	0	16.43	16.43	16.20	16.31	15.94		0

Table 8-302
LTE Band 41 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	16.70	16.75	16.39	16.62	16.14	0	0	
	1	36	16.68	16.67	16.49	16.53	16.20		0-1	0
	1	74	16.70	16.54	16.64	16.39	16.28			0
	36	0	16.60	16.68	16.39	16.53	16.07	0		
	36	18	16.60	16.68	16.47	16.50	16.16	0-1		0
	36	37	16.61	16.54	16.51	16.35	16.20		0	
	75	0	16.61	16.61	16.47	16.47	16.16		0	
16QAM	1	0	16.88	16.88	16.50	16.73	16.27	0-1	0	
	1	36	16.67	16.81	16.73	16.77	16.36		0-2	0
	1	74	16.86	16.65	16.82	16.36	16.45			0
	36	0	16.62	16.70	16.39	16.56	16.03	0		
	36	18	16.55	16.66	16.47	16.45	16.20	0-2		0
	36	37	16.63	16.58	16.52	16.32	16.17		0	
	75	0	16.59	16.61	16.47	16.51	16.17		0	
64QAM	1	0	16.84	16.77	16.37	16.58	16.11	0-2	0	
	1	36	16.63	16.66	16.49	16.52	16.18		0-3	0
	1	74	16.76	16.63	16.67	16.40	16.22			0
	36	0	16.53	16.58	16.30	16.36	15.94	0		
	36	18	16.43	16.48	16.33	16.33	15.97	0-3		0
	36	37	16.51	16.46	16.41	16.21	15.99		0	
	75	0	16.45	16.52	16.34	16.31	15.96		0	

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Table 8-303
LTE Band 41 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	16.86	16.51	16.64	16.22	0	0	
	1	25	16.68	16.68	16.54	16.54	16.24		0-1	0
	1	49	16.73	16.68	16.65	16.49	16.32			0
	25	0	16.64	16.67	16.44	16.51	16.18	0		
	25	12	16.60	16.64	16.47	16.50	16.17	0-1		0
	25	25	16.62	16.61	16.49	16.44	16.20		0	
	50	0	16.59	16.64	16.49	16.51	16.19		0	
16QAM	1	0	16.88	16.87	16.75	16.74	16.32	0-1	0	
	1	25	16.75	16.88	16.68	16.75	16.36		0-2	0
	1	49	16.80	16.79	16.78	16.53	16.52			0
	25	0	16.54	16.67	16.38	16.47	16.18	0-2		0
	25	12	16.52	16.60	16.49	16.46	16.11			0
	25	25	16.61	16.62	16.48	16.36	16.18		0	
	50	0	16.55	16.59	16.48	16.48	16.16		0	
64QAM	1	0	16.83	16.76	16.58	16.30	16.52	0-2	0	
	1	25	16.62	16.65	16.46	16.31	16.40		0-3	0
	1	49	16.71	16.60	16.44	16.39	16.44			0
	25	0	16.84	16.48	16.50	16.32	16.35	0		
	25	12	16.61	16.46	16.46	16.27	16.38	0-3		0
	25	25	16.49	16.52	16.39	16.37	16.18		0	
	50	0	16.47	16.52	16.37	16.38	16.22		0	

Table 8-304
LTE Band 41 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	16.71	16.74	16.47	16.58	16.24	0	0	
	1	12	16.66	16.70	16.49	16.55	16.22		0-1	0
	1	24	16.73	16.71	16.55	16.52	16.29			0
	12	0	16.55	16.67	16.34	16.49	16.13	0		
	12	6	16.58	16.59	16.41	16.44	16.13	0		0
	12	13	16.61	16.60	16.39	16.44	16.14		0	
	25	0	16.62	16.62	16.39	16.48	16.14		0	
16QAM	1	0	16.65	16.83	16.40	16.44	16.16	0-1	0	
	1	12	16.74	16.63	16.53	16.48	16.08		0-2	0
	1	24	16.74	16.79	16.61	16.55	16.22			0
	12	0	16.61	16.67	16.35	16.49	16.13	0		
	12	6	16.54	16.61	16.46	16.45	16.14	0		0
	12	13	16.61	16.61	16.43	16.47	16.15		0	
	25	0	16.61	16.64	16.39	16.43	16.15		0	
64QAM	1	0	16.60	16.78	16.35	16.41	16.13	0-2	0	
	1	12	16.69	16.58	16.48	16.45	16.05		0-3	0
	1	24	16.69	16.74	16.56	16.52	16.19			0
	12	0	16.56	16.62	16.30	16.45	16.09	0		
	12	6	16.51	16.58	16.43	16.41	16.10	0		0
	12	13	16.58	16.58	16.40	16.43	16.11		0	
	25	0	16.58	16.61	16.36	16.39	16.11		0	

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Table 8-305
LTE Band 41 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	14.80	14.71	14.56	14.67	14.69	0	0	
	1	50	14.75	14.55	14.61	14.61	14.73		0-1	0
	1	99	14.79	14.53	14.78	14.58	14.72			0
	50	0	14.79	14.61	14.58	14.59	14.61	0		
	50	25	14.72	14.50	14.57	14.57	14.67	0		0
	50	50	14.73	14.51	14.64	14.47	14.68		0	
	100	0	14.70	14.51	14.62	14.58	14.69		0	
16QAM	1	0	14.78	14.57	14.57	14.62	14.67	0-1	0	
	1	50	14.62	14.45	14.61	14.57	14.66		0-2	0
	1	99	14.73	14.43	14.80	14.56	14.69			0
	50	0	14.53	14.37	14.47	14.43	14.47	0		
	50	25	14.45	14.28	14.49	14.40	14.50	0		0
	50	50	14.42	14.26	14.54	14.26	14.46		0	
	100	0	14.43	14.28	14.52	14.40	14.48		0	
64QAM	1	0	14.34	14.31	14.36	14.61	14.56	0-2	0	
	1	50	14.28	14.29	14.25	14.60	14.51		0-3	0
	1	99	14.35	14.22	14.44	14.58	14.49			0
	50	0	14.21	14.51	14.51	14.51	14.55	0		
	50	25	14.26	14.56	14.56	14.68	14.51	0		0
	50	50	14.19	14.58	14.49	14.52	14.41		0	
	100	0	14.28	14.51	14.47	14.41	14.39		0	

Table 8-306
LTE Band 41 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	14.35	14.30	14.20	14.23	14.36	0	0
	1	36	14.24	14.24	14.25	14.25	14.32		0
	1	74	14.28	14.17	14.33	14.20	14.32		0
	36	0	14.25	14.24	14.25	14.20	14.38	0-1	0
	36	18	14.24	14.19	14.24	14.23	14.37		0
	36	37	14.25	14.14	14.23	14.18	14.37		0
	75	0	14.25	14.15	14.26	14.24	14.40		0
16QAM	1	0	14.15	14.51	14.04	14.20	14.29	0-1	0
	1	36	14.03	14.39	14.10	14.30	14.36		0
	1	74	14.20	14.22	14.15	14.21	14.26		0
	36	0	14.26	14.22	14.28	14.20	14.41	0-2	0
	36	18	14.20	14.14	14.28	14.24	14.38		0
	36	37	14.23	14.15	14.22	14.19	14.33		0
	75	0	14.25	14.16	14.26	14.22	14.39		0
64QAM	1	0	14.19	14.49	14.09	14.19	14.22	0-2	0
	1	36	14.21	14.44	14.15	14.21	14.29		0
	1	74	14.25	14.38	14.17	14.29	14.31		0
	36	0	14.18	14.29	14.21	14.18	14.41	0-3	0
	36	18	14.26	14.27	14.19	14.26	14.29		0
	36	37	14.28	14.35	14.26	14.21	14.33		0
	75	0	14.21	14.31	14.25	14.25	14.35		0

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Table 8-307
LTE Band 41 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	14.46	14.33	14.37	14.29	14.47	0	0	
	1	25	14.39	14.26	14.36	14.27	14.51		0-1	0
	1	49	14.43	14.32	14.44	14.21	14.51			0
	25	0	14.28	14.19	14.24	14.23	14.40	0		
	25	12	14.24	14.20	14.30	14.22	14.37	0		0
	25	25	14.26	14.19	14.29	14.18	14.35		0	
	50	0	14.24	14.19	14.23	14.22	14.39		0	
16QAM	1	0	14.26	14.42	14.11	14.31	14.45	0-1	0	
	1	25	14.22	14.37	14.11	14.17	14.47		0-2	0
	1	49	14.20	14.38	14.17	14.14	14.32			0
	25	0	14.29	14.18	14.23	14.22	14.36	0		0
	25	12	14.24	14.14	14.27	14.21	14.32			0
	25	25	14.22	14.13	14.28	14.19	14.31		0	
	50	0	14.25	14.15	14.28	14.22	14.38	0		
64QAM	1	0	14.22	14.41	14.39	14.31	14.38	0-2	0	
	1	25	14.26	14.45	14.35	14.28	14.28		0-3	0
	1	49	14.25	14.39	14.29	14.36	14.16			0
	25	0	14.19	14.35	14.39	14.14	14.25	0		
	25	12	14.28	14.39	14.34	14.25	14.23	0		
	25	25	14.13	14.31	14.32	14.26	14.29	0		
	50	0	14.26	14.28	14.28	14.27	14.21	0		

Table 8-308
LTE Band 41 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	14.49	14.29	14.38	14.29	14.55	0	0	
	1	12	14.47	14.27	14.37	14.26	14.48		0-1	0
	1	24	14.47	14.28	14.41	14.21	14.47			0
	12	0	14.31	14.19	14.25	14.31	14.42	0		
	12	6	14.27	14.15	14.28	14.31	14.40	0		
	12	13	14.29	14.17	14.25	14.26	14.34	0		
	25	0	14.30	14.19	14.28	14.34	14.38	0		
16QAM	1	0	14.49	14.34	14.35	14.41	14.61	0-1	0	
	1	12	14.39	14.37	14.37	14.39	14.52		0-2	0
	1	24	14.39	14.36	14.37	14.27	14.48			0
	12	0	14.23	14.21	14.26	14.37	14.44	0		
	12	6	14.26	14.19	14.24	14.32	14.36	0		
	12	13	14.27	14.14	14.27	14.30	14.39	0		
	25	0	14.25	14.26	14.28	14.23	14.41	0		
64QAM	1	0	14.26	14.39	14.41	14.32	14.38	0-2	0	
	1	12	14.21	14.22	14.36	14.28	14.31		0-3	0
	1	24	14.19	14.26	14.29	14.21	14.44			0
	12	0	14.28	14.28	14.31	14.32	14.29	0		
	12	6	14.22	14.11	14.22	14.36	14.27	0		
	12	13	14.31	14.19	14.21	14.30	14.41	0		
	25	0	14.36	14.32	14.23	14.29	14.43	0		

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LTE Band 41 PC2

Table 8-309

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	16.18	16.35	15.77	16.13	16.07	0	0
	1	50	16.40	16.33	15.95	15.98	16.06		0
	1	99	16.32	16.32	16.09	15.93	15.98		0
	50	0	16.34	16.21	15.91	16.09	15.92	0-1	0
	50	25	16.39	16.29	15.93	16.02	15.90		0
	50	50	16.37	16.18	16.07	15.93	15.90		0
	100	0	16.33	16.26	15.94	15.98	15.88		0
16QAM	1	0	16.38	16.40	15.74	16.11	15.78	0-1	0
	1	50	16.40	16.38	15.95	16.06	15.88		0
	1	99	16.37	16.35	16.13	15.98	15.76		0
	50	0	15.77	15.61	15.42	15.60	15.41	0-2	0
	50	25	15.83	15.70	15.42	15.48	15.42		0
	50	50	15.81	15.60	15.57	15.44	15.43		0
	100	0	15.78	15.65	15.44	15.47	15.42		0
64QAM	1	0	16.40	16.21	15.76	16.27	15.86	0-2	0
	1	50	16.40	16.27	16.03	16.16	15.85		0
	1	99	16.39	16.23	16.16	15.97	15.79		0
	50	0	15.85	15.63	15.41	15.61	15.41	0-3	0
	50	25	15.85	15.70	15.43	15.51	15.43		0
	50	50	15.84	15.56	15.60	15.41	15.42		0
	100	0	15.78	15.66	15.44	15.53	15.40		0

Table 8-310

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	15.92	15.73	15.40	15.71	15.45	0	0
	1	36	15.93	15.82	15.60	15.67	15.57		0
	1	74	15.88	15.68	15.74	15.46	15.43		0
	36	0	15.82	15.64	15.41	15.60	15.47	0-1	0
	36	18	15.83	15.72	15.50	15.57	15.50		0
	36	37	15.80	15.61	15.55	15.42	15.45		0
	75	0	15.79	15.69	15.49	15.55	15.49		0
16QAM	1	0	16.16	16.18	15.97	16.06	15.74	0-1	0
	1	36	16.07	16.32	16.12	16.19	15.89		0
	1	74	16.13	16.18	16.15	15.95	15.75		0
	36	0	15.80	15.64	15.40	15.63	15.47	0-2	0
	36	18	15.83	15.72	15.50	15.59	15.52		0
	36	37	15.81	15.63	15.55	15.43	15.44		0
	75	0	15.81	15.69	15.50	15.55	15.46		0
64QAM	1	0	16.24	16.05	15.58	15.89	15.84	0-2	0
	1	36	16.30	15.89	15.93	15.99	15.88		0
	1	74	16.19	15.96	16.06	15.78	15.66		0
	36	0	15.80	15.64	15.41	15.62	15.43	0-3	0
	36	18	15.81	15.74	15.51	15.58	15.49		0
	36	37	15.76	15.62	15.54	15.44	15.44		0
	75	0	15.78	15.70	15.47	15.55	15.49		0

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Table 8-311
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	15.91	15.80	15.58	15.72	15.64	0	0
	1	25	15.89	15.80	15.64	15.62	15.61		0
	1	49	15.91	15.75	15.79	15.54	15.60		0
	25	0	15.80	15.72	15.55	15.62	15.47	0-1	0
	25	12	15.84	15.71	15.52	15.58	15.49		0
	25	25	15.85	15.71	15.62	15.48	15.46		0
	50	0	15.85	15.73	15.55	15.59	15.49		0
16QAM	1	0	16.23	16.37	15.93	16.14	15.97	0-1	0
	1	25	16.28	16.30	15.96	15.97	16.06		0
	1	49	16.32	16.23	16.23	15.90	15.98		0
	25	0	15.77	15.71	15.54	15.65	15.44	0-2	0
	25	12	15.82	15.70	15.54	15.58	15.44		0
	25	25	15.81	15.72	15.62	15.50	15.43		0
	50	0	15.80	15.73	15.55	15.58	15.46		0
64QAM	1	0	16.08	16.13	15.91	15.93	15.89	0-2	0
	1	25	16.18	16.20	15.95	15.95	15.78		0
	1	49	16.20	16.12	16.01	15.84	15.77		0
	25	0	15.76	15.75	15.57	15.62	15.43	0-3	0
	25	12	15.82	15.74	15.54	15.58	15.49		0
	25	25	15.82	15.76	15.60	15.47	15.45		0
	50	0	15.84	15.71	15.52	15.60	15.48		0

Table 8-312
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	15.88	15.75	15.62	15.63	15.52	0	0	
	1	12	15.89	15.71	15.58	15.57	15.57		0-1	0
	1	24	15.90	15.76	15.68	15.47	15.55			0
	12	0	15.78	15.68	15.55	15.54	15.49	0		
	12	6	15.82	15.68	15.54	15.50	15.48	0		0
	12	13	15.79	15.67	15.62	15.46	15.45		0	
	25	0	15.79	15.68	15.48	15.48	15.46		0	
16QAM	1	0	16.30	15.99	15.98	16.02	15.97	0-1	0	
	1	12	16.12	16.04	15.92	15.91	15.95		0-2	0
	1	24	16.26	16.20	16.03	15.84	15.82			0
	12	0	15.79	15.65	15.49	15.51	15.46	0		
	12	6	15.78	15.69	15.51	15.50	15.50	0		0
	12	13	15.73	15.68	15.56	15.48	15.48		0	
	25	0	15.77	15.70	15.43	15.46	15.42		0	
64QAM	1	0	16.28	16.15	15.88	16.05	15.84	0-2	0	
	1	12	16.31	16.14	16.09	15.92	15.91		0-3	0
	1	24	16.25	16.17	15.97	15.78	15.95			0
	12	0	15.69	15.69	15.58	15.49	15.50	0		
	12	6	15.83	15.67	15.48	15.44	15.51	0		0
	12	13	15.72	15.65	15.60	15.44	15.51		0	
	25	0	15.78	15.69	15.48	15.51	15.47		0	

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Table 8-313
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	13.02	12.83	12.80	12.93	12.92	0	0
	1	50	13.09	12.84	12.87	12.81	12.95		0
	1	99	13.13	12.83	12.97	12.83	12.84		0
	50	0	13.03	12.80	12.81	12.85	12.97	0-1	0
	50	25	13.13	12.81	12.82	12.82	12.94		0
	50	50	13.10	12.81	12.88	12.81	12.96		0
	100	0	13.08	12.80	12.80	12.80	12.93		0
16QAM	1	0	13.04	12.99	12.80	12.96	13.10	0-1	0
	1	50	13.18	13.06	12.87	12.80	13.20		0
	1	99	13.15	12.96	12.90	12.80	13.00		0
	50	0	13.01	12.80	12.80	12.84	12.95	0-2	0
	50	25	13.08	12.82	12.86	12.84	12.94		0
	50	50	13.06	12.81	12.84	12.80	12.91		0
	100	0	13.07	12.81	12.80	12.80	12.91		0
64QAM	1	0	13.03	12.80	12.82	12.96	12.87	0-2	0
	1	50	13.15	12.83	12.85	12.81	12.90		0
	1	99	13.10	12.80	12.96	12.89	13.00		0
	50	0	13.05	12.80	12.80	12.85	12.97	0-3	0
	50	25	13.12	12.83	12.85	12.82	12.96		0
	50	50	13.14	12.81	12.85	12.81	12.96		0
	100	0	13.11	12.82	12.86	12.80	12.94		0

Table 8-314
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	12.99	12.92	12.91	13.00	12.88	0	0	
	1	36	13.31	13.07	13.10	12.94	12.99		0-1	0
	1	74	13.24	12.97	13.17	12.81	12.99			0
	36	0	13.10	12.90	12.94	12.90	12.88	0		
	36	18	13.18	12.98	13.03	12.85	12.87	0		0
	36	37	13.17	12.92	13.06	12.82	12.87		0	
	75	0	13.15	12.95	13.00	12.84	12.86		0	
16QAM	1	0	13.21	13.32	13.18	13.38	13.33	0-1	0	
	1	36	13.37	13.49	13.28	13.27	13.50		0-2	0
	1	74	13.43	13.39	13.27	13.19	13.39			0
	36	0	13.03	12.88	12.96	12.89	12.89	0		
	36	18	13.17	12.96	13.01	12.86	12.89	0		0
	36	37	13.16	12.90	13.08	12.83	12.89		0	
	75	0	13.14	12.91	13.01	12.85	12.87		0	
64QAM	1	0	13.30	13.03	13.12	13.24	13.13	0-2	0	
	1	36	13.60	13.27	13.28	13.24	13.21		0-3	0
	1	74	13.49	13.18	13.38	12.91	13.11			0
	36	0	13.04	12.85	12.91	12.88	12.89	0		
	36	18	13.13	12.92	13.05	12.87	12.88	0		0
	36	37	13.11	12.88	13.03	12.81	12.89		0	
	75	0	13.13	12.89	13.01	12.83	12.88		0	

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Table 8-315
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	13.03	12.97	13.00	13.01	12.96	0	0	
	1	25	13.19	12.97	13.07	12.88	12.97		0-1	0
	1	49	13.25	13.00	13.13	12.82	13.03			0
	25	0	13.08	12.93	12.91	12.86	12.83	0		
	25	12	13.16	12.94	12.96	12.81	12.85	0		0
	25	25	13.18	12.93	12.96	12.81	12.88		0	
	50	0	13.17	12.92	12.99	12.83	12.87		0	
16QAM	1	0	13.46	13.41	13.19	13.40	13.38	0-1	0	
	1	25	13.59	13.49	13.19	13.23	13.40		0-2	0
	1	49	13.61	13.41	13.31	13.23	13.40			0
	25	0	13.10	12.94	12.93	12.88	12.87	0		0
	25	12	13.15	12.96	12.97	12.83	12.88			0
	25	25	13.13	12.93	13.00	12.83	12.88		0	
	50	0	13.20	12.97	12.97	12.85	12.90	0		
64QAM	1	0	13.51	13.19	13.20	13.27	13.35	0-2	0	
	1	25	13.61	13.28	13.30	13.21	12.93		0-3	0
	1	49	13.50	13.21	13.28	13.01	13.13			0
	25	0	13.11	12.94	12.90	12.90	12.87	0		
	25	12	13.14	12.96	12.99	12.82	12.87	0		0
	25	25	13.15	12.93	12.98	12.82	12.90		0	
	50	0	13.18	12.96	13.00	12.81	12.87		0	

Table 8-316
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	13.12	12.90	12.98	12.83	12.80	0	0
	1	12	13.17	12.85	13.04	12.83	12.80		0
	1	24	13.20	12.88	13.04	12.84	12.82		0
	12	0	13.12	12.89	12.95	12.82	12.82	0-1	0
	12	6	13.11	12.88	13.00	12.82	12.81		0
	12	13	13.14	12.88	13.00	12.83	12.85		0
	25	0	13.14	12.88	13.02	12.81	12.84		0
16QAM	1	0	13.45	13.41	13.25	13.34	13.28	0-1	0
	1	12	13.47	13.31	13.31	13.20	13.30		0
	1	24	13.45	13.37	13.28	13.19	13.32		0
	12	0	13.14	12.91	12.97	12.88	12.85	0-2	0
	12	6	13.15	12.91	13.00	12.83	12.84		0
	12	13	13.10	12.90	13.06	12.83	12.89		0
	25	0	13.10	12.90	12.98	12.82	12.85		0
64QAM	1	0	13.42	13.24	13.25	13.32	13.22	0-2	0
	1	12	13.49	13.11	13.23	13.21	13.21		0
	1	24	13.50	13.25	13.43	13.37	13.42		0
	12	0	13.11	12.89	12.92	12.81	12.82	0-3	0
	12	6	13.23	12.88	13.06	12.83	12.86		0
	12	13	13.15	12.91	12.98	12.80	12.84		0
	25	0	13.16	12.90	12.99	12.85	12.89		0

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Table 8-317
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	16.90	16.85	16.56	16.69	16.32	0	0
	1	50	16.76	16.75	16.70	16.57	16.39		0
	1	99	16.87	16.70	16.86	16.46	16.51		0
	50	0	16.87	16.86	16.67	16.67	16.34	0-1	0
	50	25	16.78	16.71	16.71	16.61	16.37		0
	50	50	16.83	16.69	16.78	16.47	16.40		0
	100	0	16.75	16.75	16.72	16.50	16.37		0
16QAM	1	0	16.90	16.90	16.49	16.72	16.17	0-1	0
	1	50	16.82	16.85	16.65	16.62	16.23		0
	1	99	16.88	16.78	16.82	16.54	16.28		0
	50	0	16.27	16.32	16.06	16.09	15.91	0-2	0
	50	25	16.17	16.17	16.09	16.05	15.94		0
	50	50	16.24	16.26	16.15	15.92	15.96		0
	100	0	16.16	16.27	16.11	16.05	15.90		0
64QAM	1	0	16.53	16.61	16.32	16.40	16.32	0-2	0
	1	50	16.49	16.58	16.26	16.39	16.17		0
	1	99	16.59	16.54	16.38	16.29	16.23		0
	50	0	16.22	16.24	15.93	16.03	15.90	0-3	0
	50	25	16.20	16.20	15.90	15.99	15.91		0
	50	50	16.21	16.12	15.91	15.93	15.90		0
	100	0	16.19	16.18	15.91	16.01	15.92		0

Table 8-318
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	16.56	16.61	16.24	16.43	15.94	0	0	
	1	36	16.48	16.50	16.34	16.36	16.02		0-1	0
	1	74	16.50	16.39	16.47	16.23	16.07			0
	36	0	16.41	16.52	16.18	16.32	15.91	0		
	36	18	16.37	16.47	16.26	16.33	15.96	0		0
	36	37	16.40	16.39	16.31	16.19	15.99		0	
	75	0	16.38	16.43	16.25	16.28	15.97		0	
16QAM	1	0	16.68	16.90	16.70	16.90	16.31	0-1	0	
	1	36	16.70	16.84	16.84	16.78	16.29		0-2	0
	1	74	16.64	16.80	16.88	16.69	16.34			0
	36	0	16.42	16.54	16.16	16.29	15.90	0		0
	36	18	16.41	16.47	16.24	16.31	15.95			0
	36	37	16.44	16.31	16.34	16.17	16.04		0	
	75	0	16.37	16.39	16.26	16.30	16.04	0		
64QAM	1	0	16.47	16.55	16.26	16.34	16.26	0-2	0	
	1	36	16.15	16.17	15.92	15.96	15.93		0-3	0
	1	74	16.22	16.21	15.94	16.04	15.95			0
	36	0	16.48	16.56	16.27	16.35	16.27	0		
	36	18	16.50	16.59	16.27	16.40	16.18	0		
	36	37	16.60	16.55	16.39	16.30	16.24		0	
	75	0	16.23	16.25	15.94	16.04	15.91		0	

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Table 8-319
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	16.58	16.61	16.20	16.40	15.97	0	0	
	1	25	16.43	16.46	16.26	16.31	16.00		0-1	0
	1	49	16.54	16.47	16.38	16.26	16.07			0
	25	0	16.41	16.42	16.17	16.27	15.92	0		
	25	12	16.36	16.37	16.19	16.25	15.90	0		0
	25	25	16.41	16.41	16.23	16.15	15.96		0	
	50	0	16.39	16.41	16.25	16.27	15.97		0	
16QAM	1	0	16.81	16.88	16.68	16.71	16.41	0-1	0	
	1	25	16.84	16.87	16.65	16.58	16.44		0-2	0
	1	49	16.83	16.89	16.69	16.63	16.42			0
	25	0	16.37	16.47	16.15	16.28	15.92	0		
	25	12	16.33	16.38	16.22	16.26	15.94	0		0
	25	25	16.42	16.43	16.26	16.20	15.95		0	
	50	0	16.34	16.41	16.24	16.28	15.98		0	
64QAM	1	0	16.48	16.56	16.27	16.37	16.29	0-2	0	
	1	25	16.44	16.53	16.21	16.36	16.14		0-3	0
	1	49	16.54	16.49	16.33	16.26	16.20			0
	25	0	16.17	16.19	15.98	15.99	15.94	0		
	25	12	16.17	16.17	15.97	15.95	15.97	0		0
	25	25	16.18	16.09	15.98	15.92	15.97		0	
	50	0	16.16	16.15	15.98	15.97	15.98		0	

Table 8-320
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	16.46	16.46	16.25	16.31	15.97	0	0
	1	12	16.36	16.39	16.28	16.26	15.93		0
	1	24	16.45	16.47	16.34	16.22	16.00		0
	12	0	16.31	16.43	16.16	16.20	15.90	0-1	0
	12	6	16.30	16.35	16.23	16.23	15.92		0
	12	13	16.34	16.39	16.23	16.20	15.92		0
	25	0	16.33	16.37	16.24	16.24	15.90		0
16QAM	1	0	16.81	16.84	16.63	16.63	16.32	0-1	0
	1	12	16.76	16.75	16.55	16.61	16.26		0
	1	24	16.87	16.88	16.77	16.52	16.43		0
	12	0	16.33	16.45	16.20	16.25	15.93	0-2	0
	12	6	16.35	16.42	16.28	16.25	15.91		0
	12	13	16.34	16.42	16.23	16.26	15.92		0
	25	0	16.34	16.42	16.30	16.22	15.92		0
64QAM	1	0	16.47	16.55	16.19	15.92	16.41	0-2	0
	1	12	16.43	16.52	16.15	15.93	16.40		0
	1	24	16.52	16.21	16.07	15.90	16.30		0
	12	0	16.62	16.17	16.13	15.98	16.04	0-3	0
	12	6	16.25	16.09	15.93	15.95	16.00		0
	12	13	16.23	16.15	15.93	16.03	16.14		0
	25	0	16.21	16.21	15.91	16.00	16.20		0

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Table 8-321
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	14.60	14.61	14.57	14.61	14.64	0	0
	1	50	14.62	14.45	14.63	14.51	14.63		0
	1	99	14.69	14.42	14.80	14.47	14.66		0
	50	0	14.72	14.55	14.54	14.52	14.50	0-1	0
	50	25	14.65	14.44	14.58	14.51	14.56		0
	50	50	14.64	14.45	14.64	14.39	14.60		0
	100	0	14.65	14.47	14.60	14.55	14.65		0
16QAM	1	0	14.80	14.57	14.41	14.66	14.44	0-1	0
	1	50	14.78	14.34	14.48	14.62	14.52		0
	1	99	14.79	14.33	14.61	14.53	14.62		0
	50	0	14.28	14.06	14.10	14.06	14.11	0-2	0
	50	25	14.16	13.99	14.14	14.02	14.16		0
	50	50	14.18	13.99	14.18	13.95	14.16		0
	100	0	14.18	14.00	14.16	14.01	14.20		0
64QAM	1	0	14.65	14.71	14.56	14.43	14.56	0-2	0
	1	50	14.51	14.55	14.57	14.39	14.51		0
	1	99	14.56	14.57	14.49	14.51	14.49		0
	50	0	14.35	14.43	14.56	14.49	14.38	0-3	0
	50	25	14.45	14.39	14.28	14.29	14.51		0
	50	50	14.41	14.46	14.61	14.34	14.52		0
	100	0	14.26	14.58	14.53	14.45	14.59		0

Table 8-322
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	14.64	14.41	14.36	14.38	14.48	0	0
	1	36	14.62	14.42	14.46	14.42	14.48		0
	1	74	14.64	14.39	14.57	14.44	14.50		0
	36	0	14.60	14.37	14.36	14.34	14.41	0-1	0
	36	18	14.55	14.35	14.41	14.35	14.41		0
	36	37	14.56	14.34	14.46	14.37	14.39		0
	75	0	14.54	14.34	14.40	14.36	14.41		0
16QAM	1	0	14.80	14.55	14.49	14.54	14.62	0-1	0
	1	36	14.76	14.56	14.59	14.56	14.62		0
	1	74	14.76	14.51	14.70	14.57	14.64		0
	36	0	14.61	14.37	14.38	14.34	14.42	0-2	0
	36	18	14.56	14.34	14.41	14.36	14.42		0
	36	37	14.56	14.34	14.47	14.37	14.40		0
	75	0	14.55	14.32	14.40	14.34	14.40		0
64QAM	1	0	14.71	14.65	14.61	14.67	14.74	0-2	0
	1	36	14.70	14.63	14.69	14.72	14.72		0
	1	74	14.72	14.64	14.71	14.72	14.75		0
	36	0	14.59	14.36	14.37	14.35	14.42	0-3	0
	36	18	14.55	14.35	14.40	14.36	14.41		0
	36	37	14.57	14.34	14.48	14.38	14.40		0
	75	0	14.51	14.33	14.39	14.36	14.40		0

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Table 8-323
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	14.65	14.42	14.41	14.38	14.48	0	0
	1	25	14.60	14.37	14.40	14.37	14.44		0
	1	49	14.63	14.37	14.50	14.41	14.49		0
	25	0	14.59	14.30	14.32	14.31	14.38	0-1	0
	25	12	14.51	14.30	14.35	14.31	14.37		0
	25	25	14.55	14.30	14.36	14.33	14.38		0
	50	0	14.53	14.31	14.37	14.32	14.39		0
16QAM	1	0	14.78	14.79	14.55	14.53	14.62	0-1	0
	1	25	14.75	14.67	14.54	14.52	14.58		0
	1	49	14.78	14.72	14.63	14.56	14.64		0
	25	0	14.60	14.30	14.34	14.33	14.39	0-2	0
	25	12	14.53	14.30	14.36	14.33	14.38		0
	25	25	14.54	14.31	14.35	14.35	14.38		0
	50	0	14.52	14.31	14.37	14.32	14.38		0
64QAM	1	0	14.74	14.64	14.65	14.70	14.71	0-2	0
	1	25	14.70	14.58	14.65	14.65	14.69		0
	1	49	14.74	14.62	14.73	14.70	14.76		0
	25	0	14.58	14.28	14.31	14.31	14.37	0-3	0
	25	12	14.51	14.29	14.33	14.32	14.36		0
	25	25	14.53	14.29	14.34	14.33	14.36		0
	50	0	14.53	14.30	14.35	14.33	14.38		0

Table 8-324
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	14.68	14.60	14.50	14.47	14.65	0	0
	1	12	14.62	14.59	14.48	14.51	14.65		0
	1	24	14.66	14.61	14.51	14.44	14.60		0
	12	0	14.56	14.52	14.41	14.45	14.59	0-1	0
	12	6	14.57	14.52	14.43	14.45	14.58		0
	12	13	14.57	14.53	14.46	14.45	14.57		0
	25	0	14.58	14.54	14.46	14.47	14.58		0
16QAM	1	0	14.70	14.73	14.70	14.66	14.80	0-1	0
	1	12	14.72	14.73	14.67	14.67	14.78		0
	1	24	14.73	14.71	14.67	14.59	14.75		0
	12	0	14.61	14.45	14.50	14.40	14.55	0-2	0
	12	6	14.62	14.44	14.46	14.39	14.54		0
	12	13	14.64	14.42	14.49	14.41	14.52		0
	25	0	14.58	14.41	14.48	14.38	14.51		0
64QAM	1	0	14.79	14.70	14.67	14.70	14.79	0-2	0
	1	12	14.74	14.71	14.66	14.73	14.79		0
	1	24	14.77	14.69	14.69	14.76	14.74		0
	12	0	14.60	14.56	14.49	14.50	14.63	0-3	0
	12	6	14.61	14.56	14.46	14.49	14.62		0
	12	13	14.63	14.56	14.50	14.50	14.62		0
	25	0	14.59	14.53	14.46	14.47	14.59		0

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LTE Band 48

Table 8-325
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	15.46	15.01	15.40	14.94	0	0
	1	50	15.04	14.78	15.27	14.68		0
	1	99	15.21	15.19	15.39	14.93		0
	50	0	15.18	14.96	15.29	14.66	0-1	0
	50	25	14.98	14.93	15.12	14.55		0
	50	50	15.02	15.01	15.17	14.61		0
	100	0	15.06	15.07	15.23	14.64		0
16QAM	1	0	15.40	14.90	15.43	14.73	0-1	0
	1	50	14.96	14.69	15.00	14.52		0
	1	99	15.13	15.07	15.22	14.78		0
	50	0	14.92	14.73	14.98	14.56	0-2	0
	50	25	14.77	14.73	14.87	14.50		0
	50	50	14.76	14.77	14.86	14.52		0
	100	0	14.90	14.88	14.99	14.51		0
64QAM	1	0	15.30	15.01	15.29	14.60	0-2	0
	1	50	14.95	14.77	14.96	14.50		0
	1	99	15.05	15.03	15.21	14.57		0
	50	0	14.60	14.76	14.98	14.54	0-3	0
	50	25	14.50	14.74	14.85	14.52		0
	50	50	14.51	14.79	14.86	14.59		0
	100	0	14.59	14.87	14.99	14.63		0

Table 8-326
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	14.96	14.94	14.95	14.91	0	0
	1	36	14.88	14.65	14.90	14.74		0
	1	74	15.03	14.77	15.01	14.80		0
	36	0	15.11	14.85	15.01	14.90	0-1	0
	36	18	15.14	14.78	15.03	14.93		0
	36	37	15.22	14.82	15.04	14.92		0
	75	0	15.21	14.87	15.08	14.97		0
16QAM	1	0	14.82	15.02	15.02	14.79	0-1	0
	1	36	14.85	14.92	14.81	14.67		0
	1	74	14.95	15.07	15.08	14.67		0
	36	0	15.02	14.73	14.93	14.79	0-2	0
	36	18	15.02	14.69	14.94	14.84		0
	36	37	15.13	14.74	14.96	14.82		0
	75	0	15.17	14.81	15.04	14.91		0
64QAM	1	0	14.80	15.08	14.96	14.88	0-2	0
	1	36	14.90	14.82	14.87	14.65		0
	1	74	14.85	15.03	15.09	14.71		0
	36	0	15.04	14.74	14.97	14.83	0-3	0
	36	18	15.03	14.69	14.90	14.83		0
	36	37	15.09	14.75	14.97	14.80		0
	75	0	15.16	14.80	15.03	14.91		0

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Table 8-327
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	15.14	14.89	15.02	15.00	0	0
	1	25	14.87	14.58	14.74	14.69		0
	1	49	15.28	14.73	15.04	15.01		0
	25	0	15.01	14.75	15.01	14.93	0-1	0
	25	12	15.03	14.70	14.96	14.85		0
	25	25	15.12	14.78	15.04	14.90		0
	50	0	15.11	14.82	15.06	14.96		0
16QAM	1	0	14.95	15.12	14.94	14.83	0-1	0
	1	25	14.74	14.84	14.70	14.56		0
	1	49	15.18	15.07	15.07	14.90		0
	25	0	14.83	14.68	14.88	14.78	0-2	0
	25	12	14.84	14.63	14.81	14.70		0
	25	25	14.95	14.70	14.89	14.77		0
	50	0	15.04	14.73	15.01	14.89		0
64QAM	1	0	14.90	15.05	14.93	14.83	0-2	0
	1	25	14.73	14.81	14.67	14.59		0
	1	49	15.14	14.95	14.90	14.87		0
	25	0	14.81	14.64	14.87	14.77	0-3	0
	25	12	14.82	14.59	14.82	14.68		0
	25	25	14.95	14.66	14.89	14.76		0
	50	0	15.05	14.76	15.02	14.88		0

Table 8-328
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	15.18	15.20	15.44	15.11	0	0
	1	12	15.02	14.92	15.21	14.88		0
	1	24	15.23	15.23	15.42	15.10		0
	12	0	15.24	14.91	15.19	15.08	0-1	0
	12	6	15.08	14.81	15.11	15.01		0
	12	13	15.25	14.93	15.15	15.10		0
	25	0	15.23	14.97	15.29	15.17		0
16QAM	1	0	15.23	15.09	15.21	15.35	0-1	0
	1	12	15.08	14.69	14.96	14.76		0
	1	24	15.37	14.99	15.06	14.84		0
	12	0	14.86	14.58	15.17	14.80	0-2	0
	12	6	14.77	14.51	14.85	14.65		0
	12	13	14.93	14.55	15.05	14.70		0
	25	0	15.06	14.80	15.15	15.01		0
64QAM	1	0	15.36	14.76	15.23	15.19	0-2	0
	1	12	15.18	14.54	14.88	14.89		0
	1	24	15.41	14.77	15.15	15.19		0
	12	0	14.80	14.58	14.96	14.75	0-3	0
	12	6	14.80	14.60	14.81	14.68		0
	12	13	14.98	14.64	15.09	14.73		0
	25	0	15.04	14.86	15.18	15.00		0

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Table 8-329
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	17.03	17.16	17.35	17.28	0	0
	1	50	16.85	17.05	17.18	17.06		0
	1	99	17.02	17.26	17.34	17.25		0
	50	0	17.00	17.11	17.21	17.11	0-1	0
	50	25	16.91	17.13	17.20	17.06		0
	50	50	16.93	17.14	17.22	17.10		0
	100	0	17.01	17.19	17.21	17.14		0
16QAM	1	0	17.20	17.32	17.42	17.40	0-1	0
	1	50	16.89	17.15	17.20	17.15		0
	1	99	17.16	17.38	17.32	17.28		0
	50	0	16.87	17.06	17.13	17.03	0-2	0
	50	25	16.82	17.07	17.10	17.00		0
	50	50	16.84	17.10	17.12	17.01		0
	100	0	16.95	17.18	17.21	17.10		0
64QAM	1	0	17.19	17.23	17.42	17.12	0-2	0
	1	50	16.91	17.06	17.21	17.08		0
	1	99	17.01	17.44	17.39	17.26		0
	50	0	16.78	17.01	17.15	16.85	0-3	0
	50	25	16.71	17.03	17.11	16.79		0
	50	50	16.74	17.06	17.13	16.83		0
	100	0	16.84	17.17	17.25	16.88		0

Table 8-330
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	16.94	16.95	16.91	0	0
	1	36	16.88	16.65	16.90	16.74		0
	1	74	17.03	16.77	17.01	16.80		0
	36	0	17.11	16.85	17.01	16.90	0-1	0
	36	18	17.14	16.78	17.03	16.93		0
	36	37	17.22	16.82	17.04	16.92		0
	75	0	17.21	16.87	17.08	16.97		0
16QAM	1	0	16.82	17.02	17.02	16.79	0-1	0
	1	36	16.85	16.92	16.81	16.67		0
	1	74	16.95	17.07	17.08	16.67		0
	36	0	17.02	16.73	16.93	16.79	0-2	0
	36	18	17.02	16.69	16.94	16.84		0
	36	37	17.13	16.74	16.96	16.82		0
	75	0	17.17	16.81	17.04	16.91		0
64QAM	1	0	16.80	17.08	16.96	16.88	0-2	0
	1	36	16.90	16.82	16.87	16.65		0
	1	74	16.85	17.03	17.09	16.71		0
	36	0	17.04	16.74	16.97	16.83	0-3	0
	36	18	17.03	16.69	16.90	16.83		0
	36	37	17.09	16.75	16.97	16.80		0
	75	0	17.16	16.80	17.03	16.91		0

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Table 8-331
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	17.14	16.89	17.02	17.00	0	0
	1	25	16.87	16.58	16.74	16.69		0
	1	49	17.28	16.73	17.04	17.01		0
	25	0	17.01	16.75	17.01	16.93	0-1	0
	25	12	17.03	16.70	16.96	16.85		0
	25	25	17.12	16.78	17.04	16.90		0
	50	0	17.11	16.82	17.06	16.96		0
16QAM	1	0	16.95	17.12	16.94	16.83	0-1	0
	1	25	16.74	16.84	16.70	16.56		0
	1	49	17.18	17.07	17.07	16.90		0
	25	0	16.83	16.68	16.88	16.78	0-2	0
	25	12	16.84	16.63	16.81	16.70		0
	25	25	16.95	16.70	16.89	16.77		0
	50	0	17.04	16.73	17.01	16.89		0
64QAM	1	0	16.90	17.05	16.93	16.83	0-2	0
	1	25	16.73	16.81	16.67	16.59		0
	1	49	17.14	16.95	16.90	16.87		0
	25	0	16.81	16.64	16.87	16.77	0-3	0
	25	12	16.82	16.59	16.82	16.68		0
	25	25	16.95	16.66	16.89	16.76		0
	50	0	17.05	16.76	17.02	16.88		0

Table 8-332
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	16.98	17.00	17.24	16.91	0	0
	1	12	16.82	16.72	17.01	16.68		0
	1	24	17.03	17.03	17.22	16.90		0
	12	0	17.04	16.71	16.99	16.88	0-1	0
	12	6	16.88	16.61	16.91	16.81		0
	12	13	17.05	16.73	16.95	16.90		0
	25	0	17.03	16.77	17.09	16.97		0
16QAM	1	0	17.03	16.89	17.01	17.15	0-1	0
	1	12	16.88	16.52	16.76	17.10		0
	1	24	17.17	16.79	16.86	16.64		0
	12	0	16.66	16.83	16.97	16.60	0-2	0
	12	6	16.57	16.61	16.65	17.00		0
	12	13	16.73	16.53	16.85	16.50		0
	25	0	16.86	16.60	16.95	16.81		0
64QAM	1	0	17.16	17.04	17.03	16.99	0-2	0
	1	12	16.98	16.76	16.68	16.69		0
	1	24	17.21	17.00	16.95	16.99		0
	12	0	16.60	16.82	16.76	16.98	0-3	0
	12	6	16.60	16.71	16.61	16.58		0
	12	13	16.78	16.83	16.89	16.53		0
	25	0	16.84	16.90	16.98	16.80		0

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Table 8-333
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	14.15	14.35	14.44	14.29	0	0
	1	50	14.14	14.20	14.41	14.24		0
	1	99	14.17	14.45	14.58	14.33		0
	50	0	14.41	14.26	14.46	14.17	0-1	0
	50	25	14.44	14.17	14.38	14.21		0
	50	50	14.35	14.24	14.39	14.18		0
	100	0	14.45	14.25	14.43	14.29		0
16QAM	1	0	14.60	14.80	14.74	14.44	0-1	0
	1	50	14.60	14.50	14.66	14.40		0
	1	99	14.58	14.78	14.80	14.40		0
	50	0	14.55	14.38	14.60	14.27	0-2	0
	50	25	14.55	14.30	14.54	14.34		0
	50	50	14.46	14.36	14.57	14.28		0
	100	0	14.68	14.39	14.65	14.42		0
64QAM	1	0	14.61	14.63	14.71	14.45	0-2	0
	1	50	14.60	14.35	14.68	14.35		0
	1	99	14.59	14.69	14.80	14.40		0
	50	0	14.55	14.39	14.58	14.27	0-3	0
	50	25	14.56	14.30	14.51	14.32		0
	50	50	14.49	14.35	14.58	14.29		0
	100	0	14.68	14.40	14.65	14.44		0

Table 8-334
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	14.30	14.27	14.53	14.39	0	0
	1	36	14.29	14.13	14.50	14.38		0
	1	74	14.35	14.20	14.39	14.21		0
	36	0	14.22	14.24	14.31	14.28	0-1	0
	36	18	14.31	14.25	14.33	14.31		0
	36	37	14.31	14.24	14.31	14.20		0
	75	0	14.38	14.29	14.39	14.38		0
16QAM	1	0	13.97	14.45	14.19	14.09	0-1	0
	1	36	14.10	14.36	14.23	14.05		0
	1	74	14.26	14.45	14.19	14.06		0
	36	0	13.97	13.96	13.99	14.01	0-2	0
	36	18	14.04	13.95	13.99	14.02		0
	36	37	14.03	13.95	13.97	13.91		0
	75	0	14.09	14.03	14.10	14.10		0
64QAM	1	0	14.72	14.64	14.65	14.78	0-2	0
	1	36	14.42	14.46	14.41	14.48		0
	1	74	14.34	14.54	14.64	14.63		0
	36	0	14.42	14.36	14.38	14.55	0-3	0
	36	18	14.42	14.29	14.30	14.45		0
	36	37	14.57	14.33	14.35	14.41		0
	75	0	14.60	14.48	14.51	14.63		0

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Table 8-335
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	14.00	14.23	14.25	14.02	0	0
	1	25	14.22	14.50	14.47	14.12		0
	1	49	14.14	14.22	14.31	14.26		0
	25	0	14.08	14.16	14.19	14.10	0-1	0
	25	12	14.24	14.21	14.29	14.13		0
	25	25	14.25	14.32	14.41	14.28		0
	50	0	14.02	14.14	14.30	14.05		0
16QAM	1	0	14.35	14.53	14.36	13.86	0-1	0
	1	25	14.30	14.31	14.56	13.94		0
	1	49	14.21	14.48	14.60	13.82		0
	25	0	13.84	13.94	14.01	14.21	0-2	0
	25	12	13.84	13.93	14.16	14.23		0
	25	25	14.02	14.15	14.34	14.05		0
	50	0	14.14	14.40	14.37	14.08		0
64QAM	1	0	14.72	14.64	14.65	14.78	0-2	0
	1	25	14.42	14.46	14.41	14.48		0
	1	49	14.34	14.54	14.64	14.63		0
	25	0	14.42	14.36	14.38	14.55	0-3	0
	25	12	14.42	14.29	14.30	14.45		0
	25	25	14.57	14.33	14.35	14.41		0
	50	0	14.60	14.48	14.51	14.63		0

Table 8-336
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	14.55	14.37	14.43	14.37	0	0
	1	12	14.33	14.20	14.23	14.35		0
	1	24	14.65	14.46	14.48	14.48		0
	12	0	14.20	14.33	14.40	14.42	0-1	0
	12	6	14.18	14.23	14.29	14.23		0
	12	13	14.33	14.31	14.40	14.17		0
	25	0	14.32	14.32	14.42	14.32		0
16QAM	1	0	14.09	14.52	14.41	14.16	0-1	0
	1	12	13.97	14.29	14.19	14.11		0
	1	24	14.29	14.48	14.34	14.08		0
	12	0	13.91	13.97	13.97	14.05	0-2	0
	12	6	13.89	13.91	13.92	13.88		0
	12	13	14.04	13.97	13.98	13.91		0
	25	0	14.07	14.05	14.15	14.05		0
64QAM	1	0	14.40	14.44	14.50	14.58	0-2	0
	1	12	14.26	14.25	14.18	14.37		0
	1	24	14.54	14.44	14.43	14.46		0
	12	0	14.30	14.19	14.25	14.26	0-3	0
	12	6	14.21	14.16	14.17	14.20		0
	12	13	14.31	14.20	14.25	14.24		0
	25	0	14.44	14.32	14.37	14.43		0

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Table 8-337
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	16.22	16.20	16.27	16.20	0	0
	1	50	16.38	16.08	16.14	15.99		0
	1	99	16.28	16.35	16.36	16.30		0
	50	0	16.33	16.07	16.21	16.02	0-1	0
	50	25	16.31	16.01	16.15	15.97		0
	50	50	16.23	16.06	16.20	16.07		0
	100	0	16.32	16.10	16.20	16.04		0
16QAM	1	0	16.16	15.91	15.87	15.85	0-1	0
	1	50	16.16	15.78	15.71	15.74		0
	1	99	16.22	16.06	15.87	15.93		0
	50	0	15.78	15.51	15.61	15.46	0-2	0
	50	25	15.77	15.45	15.62	15.40		0
	50	50	15.64	15.55	15.61	15.48		0
	100	0	15.86	15.54	15.70	15.47		0
64QAM	1	0	16.32	16.25	16.21	16.02	0-2	0
	1	50	16.36	15.97	16.03	15.76		0
	1	99	16.23	16.22	16.17	16.15		0
	50	0	16.03	15.78	15.86	15.71	0-3	0
	50	25	16.05	15.70	15.81	15.70		0
	50	50	15.93	15.73	15.86	15.75		0
	100	0	16.15	15.82	15.93	15.78		0

Table 8-338
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	16.16	16.14	16.22	16.15	0	0
	1	36	16.32	16.02	16.09	15.94		0
	1	74	16.22	16.29	16.31	16.25		0
	36	0	16.27	16.01	16.17	15.98	0-1	0
	36	18	16.25	15.95	16.11	15.93		0
	36	37	16.17	16.00	16.16	16.03		0
	75	0	16.26	16.04	16.16	16.00		0
16QAM	1	0	16.10	15.85	15.83	15.81	0-1	0
	1	36	16.12	15.74	15.67	15.70		0
	1	74	16.17	16.01	15.82	15.88		0
	36	0	15.73	15.46	15.56	15.41	0-2	0
	36	18	15.70	15.48	15.55	15.48		0
	36	37	15.57	15.48	15.54	15.41		0
	75	0	15.79	15.47	15.63	15.40		0
64QAM	1	0	16.25	16.18	16.14	15.95	0-2	0
	1	36	16.29	15.90	15.96	15.69		0
	1	74	16.16	16.15	16.10	16.08		0
	36	0	15.96	15.71	15.79	15.64	0-3	0
	36	18	15.98	15.63	15.74	15.63		0
	36	37	15.86	15.66	15.79	15.68		0
	75	0	16.08	15.75	15.86	15.71		0

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Table 8-339
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	16.24	16.10	16.15	16.07	0	0
	1	25	16.00	16.03	15.91	15.94		0
	1	49	15.97	16.19	16.18	16.22		0
	25	0	15.92	16.03	16.12	16.01	0-1	0
	25	12	15.88	15.98	16.05	15.95		0
	25	25	16.00	16.07	16.13	16.01		0
	50	0	15.97	16.08	16.13	16.06		0
16QAM	1	0	15.57	16.19	16.18	15.76	0-1	0
	1	25	15.55	15.93	15.97	15.45		0
	1	49	15.81	16.29	16.06	15.87		0
	25	0	15.49	15.68	15.71	15.61	0-2	0
	25	12	15.50	15.62	15.63	15.54		0
	25	25	15.62	15.71	15.67	15.59		0
	50	0	15.69	15.82	15.85	15.72		0
64QAM	1	0	16.05	16.09	15.95	15.82	0-2	0
	1	25	15.95	16.05	15.96	15.64		0
	1	49	16.28	16.33	16.03	15.93		0
	25	0	15.68	15.68	15.68	15.66	0-3	0
	25	12	15.67	15.62	15.59	15.55		0
	25	25	15.80	15.69	15.65	15.60		0
	50	0	15.87	15.79	15.79	15.69		0

Table 8-340
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	15.78	16.05	16.10	16.01	0	0
	1	12	15.70	15.97	15.99	15.68		0
	1	24	15.93	16.27	16.15	15.90		0
	12	0	15.99	15.93	16.04	15.95	0-1	0
	12	6	15.98	15.86	15.93	15.83		0
	12	13	16.04	15.95	16.01	15.92		0
	25	0	16.16	16.04	16.09	16.00		0
16QAM	1	0	15.91	15.67	15.77	15.60	0-1	0
	1	12	15.71	15.71	15.91	15.55		0
	1	24	15.98	15.83	15.89	15.41		0
	12	0	15.70	15.51	15.52	15.67	0-2	0
	12	6	15.63	15.41	15.55	15.46		0
	12	13	15.72	15.46	15.72	15.61		0
	25	0	15.89	15.74	15.80	15.63		0
64QAM	1	0	16.03	16.11	15.67	15.72	0-2	0
	1	12	15.82	15.49	15.85	15.56		0
	1	24	16.10	15.80	15.96	15.61		0
	12	0	15.81	15.49	15.73	15.41	0-3	0
	12	6	15.75	15.42	15.65	15.51		0
	12	13	15.83	15.41	15.69	15.81		0
	25	0	15.97	15.70	15.78	15.60		0

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8.3.2 LTE Uplink Carrier Aggregation Conducted Powers

Table 8-341
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 1

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	Power	
																			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	20.67	20.64

Table 8-342
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 3

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	Power	
																			LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	1	49	LTE B5	5	20597	843.7	2597	888.7	QPSK	1	0	20.65	20.71

Table 8-343
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 2A

LTE Single Carrier Aggregation Conducted Powers - Antenna 2A																		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 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	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	13.54	13.98
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	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	16.02		16.15			
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	1	0	LTE B41 PC2	20	39987	2529.7	QPSK	1	99	16.21		16.35			

Table 8-344
LTE Uplink Carrier Aggregation Conducted Powers – Antenna 2B

LTE Single Carrier Aggregation Conducted Powers - Antenna 22																		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	1	0	LTE B7	20	20902	2515.2	2902	2635.2	QPSK	1	99	11.49	11.56
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	12.51		12.80			
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	12.80		12.80			

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Table 8-345
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 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	20850	2510.0	2850	2630.0	QPSK	50	50	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	50	0	13.95	14.02	
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	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	16.51	16.86					
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	1	0	LTE B41 PC2	20	39987	2529.7	QPSK	1	99	16.53	16.85					

Table 8-346
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	0	LTE B7	20	20902	2515.2	2902	2635.2	QPSK	50	50	11.75	12.03
	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)		LTE Single Carrier Tx Power (dBm)			
CA_41C	LTE B41	20	39750	2506.0	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	14.42		14.79			
	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	39750	2506.0	QPSK	1	99	LTE B41 PC2	20	39948	2525.8	QPSK	1	0	14.62		14.69			

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.

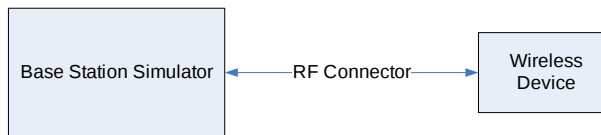


Figure 8-3
Power Measurement Setup

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8.4 WLAN Maximum Conducted Powers

8.4.1 Variant 1

Table 8-347
2.4 GHz WLAN 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	13.25	13.99	13.72
2437	6	13.10	13.84	14.00
2462	11	13.26	14.00	13.70
2467	12	13.10	10.50	10.47
2472	13	11.08	0.00	0.00

Table 8-348
2.4 GHz WLAN 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	12.81	13.60	13.56
2437	6	12.94	13.75	13.75
2462	11	12.85	13.63	13.64
2467	12	12.77	10.83	10.71
2472	13	11.11	0.50	0.44

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Table 8-349
5 GHz WLAN Maximum Average RF Power – 5 GHz ANTlower

5GHz (40MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11n	802.11ac
		Average	Average
5190	38	12.64	12.67
5230	46	16.06	16.04
5270	54	15.82	15.76
5310	62	13.66	13.53

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5530	106	11.06
5610	122	14.50
5690	138	14.65
5775	155	15.00

Table 8-350
5 GHz WLAN Maximum Average RF Power – 5 GHz ANTupper

5GHz (40MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11n	802.11ac
		Average	Average
5190	38	12.62	12.59
5230	46	15.95	15.97
5270	54	15.75	15.72
5310	62	13.63	13.55

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5530	106	11.10
5610	122	14.66
5690	138	14.54
5775	155	15.20

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8.4.1

Variant 2

Table 8-351
2.4 GHz WLAN 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	13.13	13.10	13.12
2437	6	13.11	13.05	13.14
2462	11	13.03	13.01	13.03
2467	12	13.00	10.11	10.13
2472	13	11.20	0.25	0.30

Table 8-352
2.4 GHz WLAN 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	12.73	12.77
2437	6	12.93	12.96	12.87
2462	11	12.76	12.75	12.74
2467	12	12.75	10.11	10.07
2472	13	11.00	0.33	0.31

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Table 8-353
5 GHz WLAN Average RF Power – 5 GHz ANTlower

5GHz (40MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11n	802.11ac
		Average	Average
5190	38	12.63	12.57
5230	46	16.24	16.21
5270	54	15.81	15.71
5310	62	13.62	13.60
5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	
		Average	
5530	106	11.20	
5610	122	14.60	
5690	138	14.59	
5775	155	14.67	

Table 8-354
5 GHz WLAN Average RF Power – 5 GHz ANTupper

5GHz (40MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11n	802.11ac
		Average	Average
5190	38	12.60	12.49
5230	46	15.90	15.83
5270	54	15.75	15.73
5310	62	13.55	13.61
5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	
		Average	
5530	106	11.12	
5610	122	14.69	
5690	138	14.61	
5775	155	14.76	

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8.5 WLAN Reduced Conducted Powers

8.5.1

Variant 1

Table 8-355
2.4 GHz WLAN 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	6.20	6.16	6.22
2437	6	6.06	6.04	6.03
2462	11	6.08	6.09	6.06

Table 8-356
2.4 GHz WLAN 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	5.82	5.80	5.78
2437	6	5.81	5.85	5.82
2462	11	5.94	5.93	5.87

Table 8-357
5 GHz WLAN Average RF Power – 5 GHz ANTlower

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	12.12
5290	58	11.78
5530	106	10.52
5610	122	10.59
5690	138	10.62
5775	155	10.63

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Table 8-358
5 GHz WLAN Average RF Power – 5 GHz ANTupper

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	11.07
5290	58	10.88
5530	106	9.63
5610	122	9.53
5690	138	9.59
5775	155	9.93

8.5.2 Variant 2

Table 8-359
2.4 GHz WLAN 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	6.12	6.08	6.13
2437	6	6.18	6.16	6.12
2462	11	6.15	6.11	6.15

Table 8-360
2.4 GHz WLAN 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	5.87	5.86	5.81
2437	6	5.78	5.72	5.74
2462	11	5.85	5.86	5.85

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Table 8-361
5 GHz WLAN Average RF Power – 5 GHz ANTlower

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	12.19
5290	58	11.81
5530	106	10.56
5610	122	10.59
5690	138	10.55
5775	155	10.55

Table 8-362
5 GHz WLAN Average RF Power – 5 GHz ANTupper

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	11.02
5290	58	10.86
5530	106	9.59
5610	122	9.52
5690	138	9.58
5775	155	9.96

8.5.3 WLAN Power Reduction Verification Summary

Table 8-363
WLAN Power Reduction Verification

Antenna	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]	
ANT2a	2.4 GHz WLAN	Main Band 2a/2b ON	14	7	12.50 (± 1.5)	5.50 (± 1.5)	11.60	5.62	PASS
		Interband ULCA ON	14	7	12.50 (± 1.5)	5.50 (± 1.5)	11.60	5.51	PASS
Main Band 4a/4b ON		13.75	6.75	12.25 (± 1.5)	5.25 (± 1.5)	13.18	6.44	PASS	
Interband ULCA ON		13.75	6.75	12.25 (± 1.5)	5.25 (± 1.5)	13.18	6.12	PASS	
5 GHz ANTlower	5 GHz WLAN	Main Band 2a ON	17	13	15.50 (± 1.5)	11.50 (± 1.5)	14.42	12.11	PASS
		Interband ULCA ON	17	13	15.50 (± 1.5)	11.50 (± 1.5)	14.45	11.63	PASS
Main Band 3 ON		17	12	15.50 (± 1.5)	10.50 (± 1.5)	15.01	10.17	PASS	
Interband ULCA ON		17	12	15.50 (± 1.5)	10.50 (± 1.5)	14.71	10.52	PASS	
5 GHz ANTupper									

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 worst case configurations were evaluated for both variant 1 and variant 2. The variant with highest report SAR value was selected for remaining test configurations.

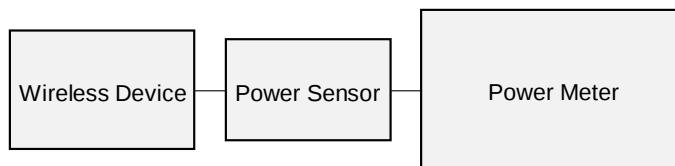


Figure 8-4
Power Measurement Setup

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8.6 Bluetooth Conducted Powers

Table 8-364
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	14.31	26.977
2441	GFSK	1.0	39	14.32	27.040
2480	GFSK	1.0	78	14.25	26.607

Table 8-365
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	14.57	28.642
2441	GFSK	1.0	39	13.85	24.266
2480	GFSK	1.0	78	14.77	29.992

Table 8-366
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	14.24	26.546
2441	GFSK	1.0	39	14.19	26.242
2480	GFSK	1.0	78	14.05	25.410

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Table 8-367
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	14.69	29.444
2441	GFSK	1.0	39	14.70	29.512
2480	GFSK	1.0	78	14.66	29.242

Table 8-368
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	11.15	13.032
2441	GFSK	1.0	39	11.09	12.853
2480	GFSK	1.0	78	10.60	11.482

Table 8-369
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	7.32	5.395
2441	GFSK	1.0	39	7.21	5.260
2480	GFSK	1.0	78	7.42	5.521

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Table 8-370
Reduced 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	7.74	5.943
2441	GFSK	1.0	39	7.75	5.957
2480	GFSK	1.0	78	7.96	6.252

Table 8-371
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	10.85	12.162
2441	GFSK	1.0	39	11.32	13.552
2480	GFSK	1.0	78	11.30	13.490

Table 8-372
Reduced Power Level 2 Bluetooth Average RF Power – Ant 2a – Variant 2

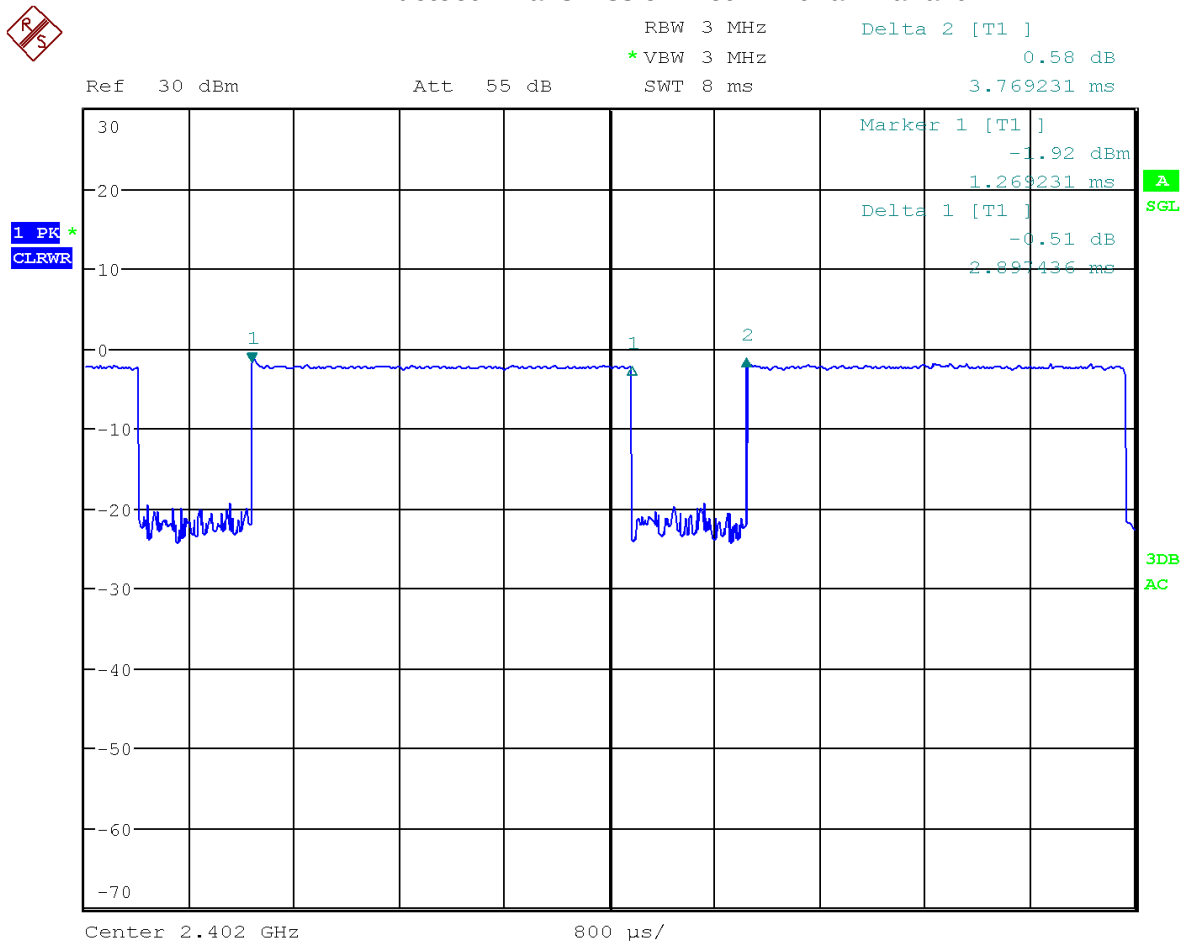
Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.25	5.309
2441	GFSK	1.0	39	7.20	5.248
2480	GFSK	1.0	78	7.24	5.297

Table 8-373
Reduced 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	7.81	6.039
2441	GFSK	1.0	39	7.79	6.012
2480	GFSK	1.0	78	8.00	6.310

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Figure 8-5
Bluetooth Transmission Plot – Ant 4a – Variant 1



Date: 6.JAN.2020 14:12:55

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

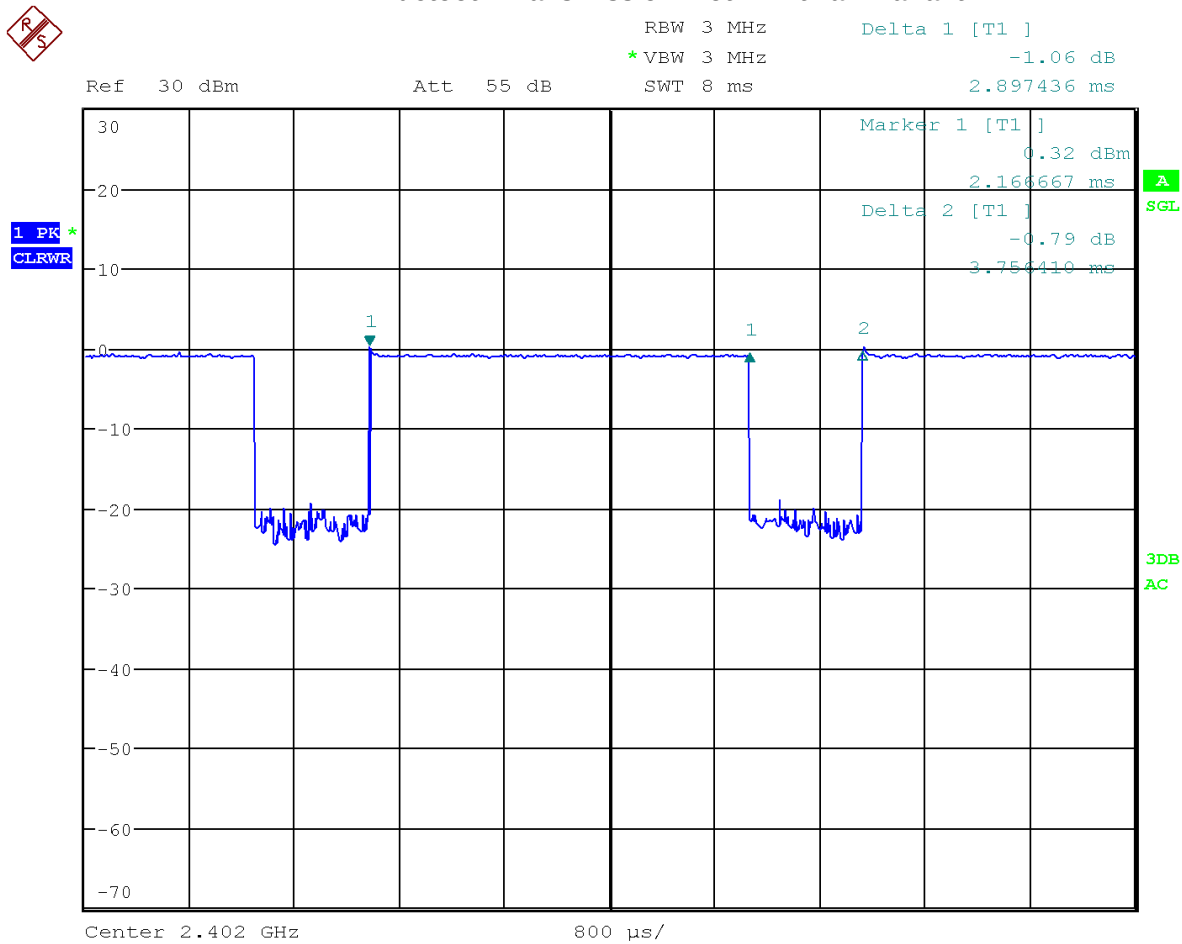
$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8974\text{ms}}{3.7692\text{ms}} * 100\% = 76.9\%$$

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

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Figure 8-7
Bluetooth Transmission Plot – Ant 4a – Variant 2



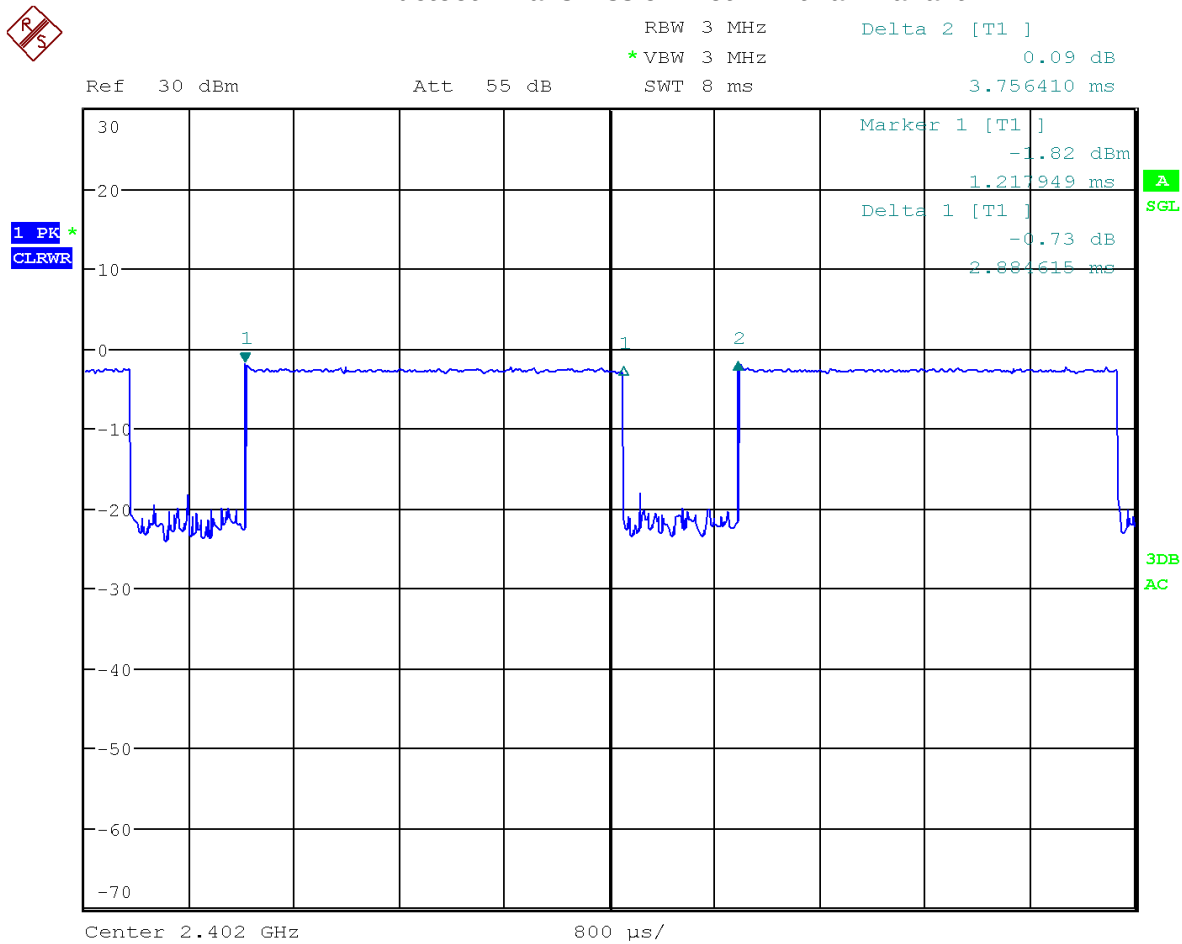
Date: 6.JAN.2020 14:20:41

Equation 8-3
Bluetooth Duty Cycle Calculation – Ant 4a – Variant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.8974\text{ms}}{3.7564\text{ms}} * 100\% = 77.1\%$$

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



Date: 6.JAN.2020 14:18:18

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

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

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8.6.1 Bluetooth Power Reduction Verification Summary

Table 8-374
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 [dBm]	Reduced Measured Power [dBm]	Verdict
					(Tolerance [dB])	(Tolerance [dB])			
ANT4a	2.4 GHz Bluetooth	Main Band ANT3/4a/4b ON	15	8	13.50 (+1.5/-2)	6.50 (+1.5/-2)	14.52	7.68	PASS
	2.4 GHz Bluetooth	Interband ULCA ON	15	8	13.50 (+1.5/-2)	6.50 (+1.5/-2)	14.52	7.8	PASS
ANT2a	2.4 GHz Bluetooth	5 GHz WLAN ON	14.5	11.5	13.00 (+1.5/-2)	10.00 (+1.5/-2)	11.92	8.88	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)	11.88	5.52	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)	11.93	5.47	PASS
	2.4 GHz Bluetooth	Interband ULCA ON	14.5	7.5	13.00 (+1.5/-2)	6.00 (+1.5/-2)	11.95	5.58	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)	11.95	5.64	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 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.

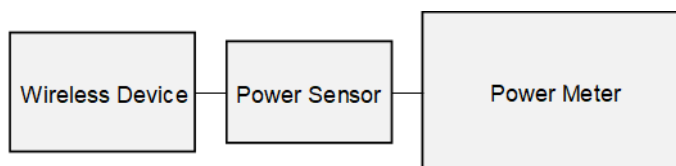


Figure 8-9
Power Measurement Setup

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9.1 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
1/16/2020	750B	20.7	680	0.911	54.416	0.958	55.604	-4.91%	-2.49%
			695	0.925	54.581	0.959	55.745	-3.55%	-2.09%
			700	0.927	54.617	0.959	55.726	-3.34%	-1.99%
			710	0.929	54.633	0.960	55.687	-3.23%	-1.89%
			720	0.929	54.528	0.961	55.648	-3.33%	-2.05%
			725	0.930	54.426	0.961	55.629	-3.23%	-2.20%
			740	0.941	53.973	0.963	55.570	-2.28%	-2.87%
			755	0.964	53.593	0.964	55.512	0.00%	-3.46%
			770	0.991	53.420	0.965	55.453	2.69%	-3.67%
			785	1.012	53.411	0.966	55.395	4.76%	-3.58%
			800	1.015	53.440	0.967	55.336	4.86%	-3.43%
			815	0.955	54.950	0.959	55.278	-1.34%	-0.76%
1/16/2020	835B	18.8	820	0.961	54.784	0.969	55.258	-0.83%	-0.86%
			835	0.978	54.548	0.970	55.200	0.82%	-1.18%
			850	0.996	54.348	0.988	55.154	0.81%	-1.46%
			1710	1.481	51.367	1.463	53.537	1.23%	-4.05%
			1750	1.514	51.328	1.488	53.432	1.75%	-3.94%
1/26/2020	1750B	21.0	1790	1.565	51.104	1.514	53.326	3.97%	-4.17%
			1710	1.465	51.444	1.463	53.537	0.14%	-3.91%
			1750	1.509	51.325	1.488	53.432	1.41%	-3.94%
1/28/2020	1750B	19.0	1790	1.541	51.303	1.514	53.326	1.78%	-3.79%
			1850	1.551	52.272	1.520	53.300	2.04%	-1.93%
			1880	1.567	52.249	1.520	53.300	3.09%	-1.97%
1/18/2020	1900B	21.5	1910	1.587	52.219	1.520	53.300	4.41%	-2.03%
			1850	1.547	52.305	1.520	53.300	1.78%	-1.87%
			1880	1.565	52.289	1.520	53.300	2.96%	-1.90%
1/20/2020	1900B	19.7	1910	1.585	52.264	1.520	53.300	4.28%	-1.94%
			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%	-3.22%
			2300	1.829	52.614	1.809	52.900	1.11%	-0.54%
			2310	1.843	52.593	1.816	52.887	1.49%	-0.56%
1/26/2020	2300B	22.1	2320	1.855	52.570	1.826	52.873	1.59%	-0.57%
			2400	1.965	50.838	1.902	52.767	3.31%	-3.66%
			2450	2.022	50.678	1.950	52.700	3.69%	-3.84%
12/18/2019	2450B	21.6	2500	2.102	50.430	2.021	52.636	4.01%	-4.19%
			2400	1.886	50.952	1.902	52.767	-0.84%	-3.44%
			2450	1.948	50.877	1.950	52.700	-0.10%	-3.46%
1/14/2020	2450B	23.0	2500	2.022	50.597	2.021	52.636	0.05%	-3.87%
			2400	1.960	52.050	1.902	52.767	3.05%	-1.36%
			2450	2.032	51.895	1.950	52.700	4.21%	-1.53%
1/24/2020	2450B	21.4	2500	2.099	51.640	2.021	52.636	3.86%	-1.89%
			2550	2.171	51.501	2.092	52.573	3.78%	-2.04%
			2600	2.245	51.234	2.163	52.509	3.79%	-2.43%
1/27/2020	2450B	22.3	2650	2.310	51.103	2.234	52.445	3.40%	-2.56%
			2700	2.388	50.625	2.305	52.382	3.80%	-2.97%
			2450	1.961	53.107	1.902	52.767	3.10%	0.80%
1/2									

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	01/16/2020	20.7	20.7	0.200	1034	7421	1.800	8.570	9.000	5.02%
AM6	835	BODY	01/16/2020	20.4	18.8	0.200	4d040	7427	1.770	9.530	8.850	-7.14%
AM6	1750	BODY	01/26/2020	19.8	19.9	0.100	1083	7427	3.690	37.100	36.900	-0.54%
AM6	1750	BODY	01/28/2020	21.9	19.0	0.100	1083	7427	3.700	37.100	37.000	-0.27%
AM2	1900	BODY	01/18/2020	19.9	20.5	0.100	5d026	7420	4.190	39.900	41.900	5.01%
AM2	1900	BODY	01/20/2020	22.3	20.0	0.100	5d026	7420	4.020	39.900	40.200	0.75%
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	01/26/2020	23.1	21.1	0.100	1038	7532	4.410	46.700	44.100	-5.57%
AM4	2450	BODY	12/18/2019	20.6	21.6	0.100	921	7532	5.320	50.800	53.200	4.72%
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	01/24/2020	22.5	20.9	0.100	945	7532	5.220	49.400	52.200	5.67%
AM3	2450	BODY	01/27/2020	21.9	20.4	0.100	945	3949	5.290	49.400	52.900	7.09%
AM4	2600	BODY	01/24/2020	22.5	20.9	0.100	1009	7532	5.700	55.500	57.000	2.70%
AM3	2600	BODY	01/27/2020	21.9	20.4	0.100	1009	3949	5.340	55.500	53.400	-3.78%
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	12/23/2019	21.1	19.5	0.050	1123	7491	3.750	74.000	75.000	1.35%
AM5	5600	BODY	12/23/2019	21.1	19.5	0.050	1123	7491	4.020	77.600	80.400	3.61%
AM5	5750	BODY	12/23/2019	21.1	19.5	0.050	1123	7491	3.580	74.700	71.600	-4.15%

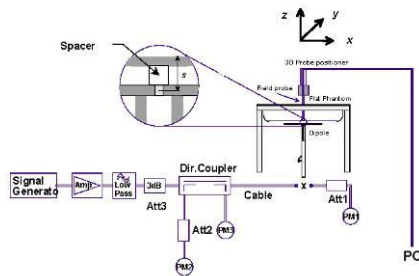


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 Standalone Body 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	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot
Mhz	Ch.													(W/kg)		(W/kg)	(W/kg)		
824.20	128	GSM 850	GPRS	26.70	26.70	-0.03	Body	0 mm	Ant 1	DLX2V01BPQLD	2	1:4:15	back	0.913	1.000	0.913	0.341	0.341	
836.60	190	GSM 850	GPRS	26.70	26.61	-0.02	Body	0 mm	Ant 1	DLX2V01BPQLD	2	1:4:15	back	0.853	1.021	0.871	0.323	0.330	
848.80	251	GSM 850	GPRS	26.70	26.70	0.07	Body	0 mm	Ant 1	DLX2V01BPQLD	2	1:4:15	back	0.844	1.000	0.844	0.319	0.319	
836.60	190	GSM 850	GPRS	26.70	26.61	0.06	Body	0 mm	Ant 1	DLX2V01BPQLD	2	1:4:15	top	0.051	1.021	0.052	0.023	0.023	
836.60	190	GSM 850	GPRS	26.70	26.61	0.02	Body	0 mm	Ant 1	DLX2V01BPQLD	2	1:4:15	bottom	0.332	1.021	0.339	0.115	0.117	
836.60	190	GSM 850	GPRS	26.70	26.61	0.01	Body	0 mm	Ant 1	DLX2V01BPQLD	2	1:4:15	right	0.006	1.021	0.006	0.003	0.003	
824.20	128	GSM 850	GPRS	26.70	26.70	0.04	Body	0 mm	Ant 1	DLX2V01BPQLD	2	1:4:15	left	1.080	1.000	1.080	0.360	0.360	A1
836.60	190	GSM 850	GPRS	26.70	26.61	-0.11	Body	0 mm	Ant 1	DLX2V01BPQLD	2	1:4:15	left	1.000	1.021	1.021	0.340	0.347	
848.80	251	GSM 850	GPRS	26.70	26.70	-0.18	Body	0 mm	Ant 1	DLX2V01BPQLD	2	1:4:15	left	0.956	1.000	0.956	0.322	0.322	
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 10-2
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	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
Mhz	Ch.													(W/kg)		(W/kg)	(W/kg)		
824.20	128	GSM 850	GPRS	28.00	26.88	-0.05	Body	0 mm	Ant 3	DLX2V011PQLD	2	1:4:15	back	0.788	1.294	1.020	0.406	0.525	
836.60	190	GSM 850	GPRS	28.00	26.73	-0.02	Body	0 mm	Ant 3	DLX2V011PQLD	2	1:4:15	back	0.737	1.340	0.988	0.391	0.524	
848.80	251	GSM 850	GPRS	28.00	26.67	0.00	Body	0 mm	Ant 3	DLX2V011PQLD	2	1:4:15	back	0.674	1.358	0.915	0.363	0.493	
836.60	190	GSM 850	GPRS	28.00	26.73	-0.03	Body	0 mm	Ant 3	DLX2V011PQLD	2	1:4:15	top	0.412	1.340	0.552	0.138	0.185	
836.60	190	GSM 850	GPRS	28.00	26.73	-0.09	Body	0 mm	Ant 3	DLX2V011PQLD	2	1:4:15	bottom	0.014	1.340	0.019	0.007	0.009	
824.20	128	GSM 850	GPRS	28.00	26.88	0.09	Body	0 mm	Ant 3	DLX2V011PQLD	2	1:4:15	right	0.833	1.294	1.078	0.310	0.401	
836.60	190	GSM 850	GPRS	28.00	26.73	0.05	Body	0 mm	Ant 3	DLX2V011PQLD	2	1:4:15	right	0.743	1.340	0.996	0.290	0.375	
848.80	251	GSM 850	GPRS	28.00	26.67	-0.11	Body	0 mm	Ant 3	DLX2V011PQLD	2	1:4:15	right	0.715	1.358	0.971	0.265	0.360	
836.60	190	GSM 850	GPRS	28.00	26.73	0.14	Body	0 mm	Ant 3	DLX2V011PQLD	2	1:4:15	left	0.006	1.340	0.008	0.003	0.004	
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 10-3
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) (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	21.00	20.85	-0.03	Body	0 mm	Ant 2a	DLX2VG0PQLD	2	1:4:15	back	0.968	1.035	1.002	0.457	0.473	
1880.00	661	GSM 1900	GPRS	21.00	20.90	0.01	Body	0 mm	Ant 2a	DLX2VG0PQLD	2	1:4:15	back	0.923	1.023	0.944	0.458	0.469	
1909.80	810	GSM 1900	GPRS	21.00	20.90	0.09	Body	0 mm	Ant 2a	DLX2VG0PQLD	2	1:4:15	back	0.930	1.023	0.951	0.395	0.404	
1880.00	661	GSM 1900	GPRS	21.00	20.90	0.02	Body	0 mm	Ant 2a	DLX2VG0PQLD	2	1:4:15	top	0.012	1.023	0.012	0.005	0.005	
1880.00	661	GSM 1900	GPRS	21.00	20.90	-0.07	Body	0 mm	Ant 2a	DLX2VG0PQLD	2	1:4:15	bottom	0.329	1.023	0.337	0.115	0.118	
1850.20	512	GSM 1900	GPRS	21.00	20.85	-0.09	Body	0 mm	Ant 2a	DLX2VG0PQLD	2	1:4:15	right	0.784	1.035	0.811	0.323	0.334	
1880.00	661	GSM 1900	GPRS	21.00	20.90	0.04	Body	0 mm	Ant 2a	DLX2VG0PQLD	2	1:4:15	right	0.843	1.023	0.862	0.343	0.351	
1909.80	810	GSM 1900	GPRS	21.00	20.90	0.11	Body	0 mm	Ant 2a	DLX2VG0PQLD	2	1:4:15	right	0.701	1.023	0.717	0.294	0.301	
1880.00	661	GSM 1900	GPRS	21.00	20.90	0.02	Body	0 mm	Ant 2a	DLX2VG0PQLD	2	1:4:15	left	0.000	1.023	0.000	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					

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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)	Pilot #
MHz	Ch.																		
1850.20	512	GSM 1900	GPRS	20.00	19.87	-0.10	Body	0 mm	Ant 2b	DLX2V00JPQLD	2	1:4:15	back	0.839	1.030	0.864	0.337	0.347	
1880.00	661	GSM 1900	GPRS	20.00	19.87	-0.09	Body	0 mm	Ant 2b	DLX2V00JPQLD	2	1:4:15	back	0.846	1.030	0.871	0.338	0.348	
1909.80	810	GSM 1900	GPRS	20.00	19.88	-0.11	Body	0 mm	Ant 2b	DLX2V00JPQLD	2	1:4:15	back	0.902	1.028	0.927	0.360	0.370	
1880.00	661	GSM 1900	GPRS	20.00	19.87	0.09	Body	0 mm	Ant 2b	DLX2V00JPQLD	2	1:4:15	top	0.000	1.030	0.000	0.000	0.000	
1880.00	661	GSM 1900	GPRS	20.00	19.87	-0.06	Body	0 mm	Ant 2b	DLX2V00JPQLD	2	1:4:15	bottom	0.541	1.030	0.557	0.215	0.221	
1880.00	661	GSM 1900	GPRS	20.00	19.87	-0.08	Body	0 mm	Ant 2b	DLX2V00JPQLD	2	1:4:15	right	0.022	1.030	0.023	0.010	0.010	
1880.00	661	GSM 1900	GPRS	20.00	19.87	0.09	Body	0 mm	Ant 2b	DLX2V00JPQLD	2	1:4:15	left	0.005	1.030	0.005	0.002	0.002	
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)	Pilot #
MHz	Ch.																		
1850.20	512	GSM 1900	GPRS	20.30	20.26	-0.13	Body	0 mm	Ant 4a	DLX2V0GPQLD	2	1:4:15	back	0.920	1.009	0.928	0.443	0.447	
1880.00	661	GSM 1900	GPRS	20.30	20.29	-0.02	Body	0 mm	Ant 4a	DLX2V0GPQLD	2	1:4:15	back	0.906	1.002	0.908	0.447	0.448	
1909.80	810	GSM 1900	GPRS	20.30	20.28	-0.03	Body	0 mm	Ant 4a	DLX2V0GPQLD	2	1:4:15	back	0.930	1.005	0.935	0.449	0.451	
1880.00	661	GSM 1900	GPRS	20.30	20.29	-0.06	Body	0 mm	Ant 4a	DLX2V0GPQLD	2	1:4:15	top	0.271	1.002	0.272	0.099	0.099	
1880.00	661	GSM 1900	GPRS	20.30	20.29	0.10	Body	0 mm	Ant 4a	DLX2V0GPQLD	2	1:4:15	bottom	0.012	1.002	0.012	0.004	0.004	
1880.00	661	GSM 1900	GPRS	20.30	20.29	0.00	Body	0 mm	Ant 4a	DLX2V0GPQLD	2	1:4:15	right	0.000	1.002	0.000	0.000	0.000	
1880.00	661	GSM 1900	GPRS	20.30	20.29	0.03	Body	0 mm	Ant 4a	DLX2V0GPQLD	2	1:4:15	left	0.792	1.002	0.794	0.316	0.317	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak										1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																			

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)	Pilot #
MHz	Ch.																		
1850.20	512	GSM 1900	GPRS	19.50	19.32	-0.03	Body	0 mm	Ant 4b	DLX2V0BPQLD	2	1:4:15	back	0.966	1.042	1.007	0.384	0.400	
1880.00	661	GSM 1900	GPRS	19.50	19.30	-0.06	Body	0 mm	Ant 4b	DLX2V0BPQLD	2	1:4:15	back	0.966	1.047	1.011	0.361	0.399	
1909.80	810	GSM 1900	GPRS	19.50	19.29	-0.07	Body	0 mm	Ant 4b	DLX2V0BPQLD	2	1:4:15	back	0.983	1.050	1.032	0.385	0.404	A2
1880.00	661	GSM 1900	GPRS	19.50	19.30	-0.04	Body	0 mm	Ant 4b	DLX2V0BPQLD	2	1:4:15	top	0.529	1.047	0.554	0.206	0.218	
1880.00	661	GSM 1900	GPRS	19.50	19.30	-0.04	Body	0 mm	Ant 4b	DLX2V0BPQLD	2	1:4:15	bottom	0.000	1.047	0.000	0.000	0.000	
1880.00	661	GSM 1900	GPRS	19.50	19.30	0.03	Body	0 mm	Ant 4b	DLX2V0BPQLD	2	1:4:15	right	0.004	1.047	0.004	0.001	0.001	
1880.00	661	GSM 1900	GPRS	19.50	19.30	0.08	Body	0 mm	Ant 4b	DLX2V0BPQLD	2	1:4:15	left	0.016	1.047	0.017	0.006	0.006	
ANSI / IEEE C95.1 1982 - 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) (W/kg)	Scaling Factor	Reported SAR (lg) (W/kg)	SAR (2lg) (W/kg)	Reported SAR (2lg) (W/kg)	Pilot #
MHz	Ch.																	
836.60	4183	UMTS 850	RMC	20.70	20.45	-0.03	Body	0 mm	Ant 1	DLX2V01BPQLD	1:1	back	0.595	1.059	0.630	0.238	0.252	
836.60	4183	UMTS 850	RMC	20.70	20.45	-0.06	Body	0 mm	Ant 1	DLX2V01BPQLD	1:1	top	0.038	1.059	0.040	0.018	0.019	
836.60	4183	UMTS 850	RMC	20.70	20.45	-0.11	Body	0 mm	Ant 1	DLX2V01BPQLD	1:1	bottom	0.354	1.059	0.375	0.120	0.127	
836.60	4183	UMTS 850	RMC	20.70	20.45	0.04	Body	0 mm	Ant 1	DLX2V01BPQLD	1:1	right	0.005	1.059	0.005	0.003	0.003	
826.40	4132	UMTS 850	RMC	20.70	20.42	-0.02	Body	0 mm	Ant 1	DLX2V01BPQLD	1:1	left	1.090	1.067	1.163	0.365	0.389	
836.60	4183	UMTS 850	RMC	20.70	20.45	0.02	Body	0 mm	Ant 1	DLX2V01BPQLD	1:1	left	1.100	1.059	1.165	0.376	0.398	A3
846.60	4233	UMTS 850	RMC	20.70	20.31	0.01	Body	0 mm	Ant 1	DLX2V01BPQLD	1:1	left	1.000	1.094	1.094	0.343	0.375	
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 10-8
UMTS 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	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Pilot #	
MHz	Ch.											(W/kg)		(W/kg)	(W/kg)	(W/kg)		
826.40	4132	UMTS 850	RMC	21.80	20.82	0.12	Body	0 mm	Ant 3	DLXZV01PQLD	1:1	back	0.856	1.253	1.073	0.461	0.578	
836.60	4183	UMTS 850	RMC	21.80	20.80	-0.03	Body	0 mm	Ant 3	DLXZV01PQLD	1:1	back	0.754	1.259	0.949	0.396	0.499	
846.60	4233	UMTS 850	RMC	21.80	20.81	0.03	Body	0 mm	Ant 3	DLXZV01PQLD	1:1	back	0.755	1.256	0.948	0.396	0.497	
836.60	4183	UMTS 850	RMC	21.80	20.80	-0.11	Body	0 mm	Ant 3	DLXZV01PQLD	1:1	top	0.463	1.259	0.583	0.154	0.194	
836.60	4183	UMTS 850	RMC	21.80	20.80	0.13	Body	0 mm	Ant 3	DLXZV01PQLD	1:1	bottom	0.034	1.259	0.043	0.016	0.020	
826.40	4132	UMTS 850	RMC	21.80	20.82	-0.08	Body	0 mm	Ant 3	DLXZV01PQLD	1:1	right	0.928	1.253	1.163	0.344	0.431	
836.60	4183	UMTS 850	RMC	21.80	20.80	-0.07	Body	0 mm	Ant 3	DLXZV01PQLD	1:1	right	0.847	1.259	1.066	0.317	0.399	
846.60	4233	UMTS 850	RMC	21.80	20.81	-0.07	Body	0 mm	Ant 3	DLXZV01PQLD	1:1	right	0.819	1.256	1.029	0.306	0.384	
836.60	4183	UMTS 850	RMC	21.80	20.80	0.16	Body	0 mm	Ant 3	DLXZV01PQLD	1:1	left	0.009	1.259	0.011	0.005	0.006	
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 Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Slide	SAR (1g)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Pilot #
MHz	Ch.												(W/kg)					
1712.40	1312	UMTS 1750	RMC	15.90	15.84	-0.03	Body	0 mm	Ant 2a	DLXZV01PQLD	1:1	back	1.160	1.014	1.176	0.554	0.562	
1732.40	1412	UMTS 1750	RMC	15.90	15.80	0.12	Body	0 mm	Ant 2a	DLXZV01PQLD	1:1	back	1.160	1.023	1.187	0.555	0.568	A4
1752.60	1513	UMTS 1750	RMC	15.90	15.70	0.11	Body	0 mm	Ant 2a	DLXZV01PQLD	1:1	back	1.130	1.047	1.183	0.525	0.550	
1732.40	1412	UMTS 1750	RMC	15.90	15.80	0.03	Body	0 mm	Ant 2a	DLXZV01PQLD	1:1	top	0.011	1.023	0.011	0.004	0.004	
1732.40	1412	UMTS 1750	RMC	15.90	15.80	-0.12	Body	0 mm	Ant 2a	DLXZV01PQLD	1:1	bottom	0.259	1.023	0.265	0.095	0.097	
1712.40	1312	UMTS 1750	RMC	15.90	15.84	0.06	Body	0 mm	Ant 2a	DLXZV01PQLD	1:1	right	0.987	1.014	1.011	0.401	0.407	
1732.40	1412	UMTS 1750	RMC	15.90	15.80	0.04	Body	0 mm	Ant 2a	DLXZV01PQLD	1:1	right	0.993	1.023	1.016	0.398	0.407	
1752.60	1513	UMTS 1750	RMC	15.90	15.70	0.06	Body	0 mm	Ant 2a	DLXZV01PQLD	1:1	right	0.994	1.047	1.041	0.396	0.415	
1732.40	1412	UMTS 1750	RMC	15.90	15.80	-0.01	Body	0 mm	Ant 2a	DLXZV01PQLD	1:1	left	0.000	1.023	0.000	0.000	0.000	
1732.40	1412	UMTS 1750	RMC	15.90	15.80	0.11	Body	0 mm	Ant 2a	DLXZV01PQLD	1:1	back	1.090	1.023	1.115	0.508	0.520	
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 10-10
UMTS 1750 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	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Pilot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)		
1712.40	1312	UMTS 1750	RMC	15.10	15.06	0.01	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	back	0.953	1.009	0.962	0.378	0.381	
1732.40	1412	UMTS 1750	RMC	15.10	14.70	0.01	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	back	0.922	1.096	1.011	0.362	0.397	
1752.60	1513	UMTS 1750	RMC	15.10	14.68	0.01	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	back	0.865	1.102	0.953	0.338	0.372	
1732.40	1412	UMTS 1750	RMC	15.10	14.70	-0.02	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	top	0.002	1.096	0.002	0.000	0.000	
1732.40	1412	UMTS 1750	RMC	15.10	14.70	-0.01	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	bottom	0.605	1.096	0.663	0.236	0.259	
1732.40	1412	UMTS 1750	RMC	15.10	14.70	0.02	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	right	0.053	1.096	0.058	0.021	0.023	
1732.40	1412	UMTS 1750	RMC	15.10	14.70	-0.06	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	left	0.007	1.096	0.008	0.002	0.002	
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 Drift (dB)	Position	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Pilot
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)		
1712.40	1312	UMTS 1750	RMC	14.80	14.71	-0.05	Body	0 mm	Ant 4a	DLXZV01PQLD	1:1	back	0.927	1.021	0.946	0.445	0.454	
1732.40	1412	UMTS 1750	RMC	14.80	14.77	-0.07	Body	0 mm	Ant 4a	DLXZV01PQLD	1:1	back	1.100	1.007	1.108	0.514	0.518	
1752.60	1513	UMTS 1750	RMC	14.80	14.56	-0.09	Body	0 mm	Ant 4a	DLXZV01PQLD	1:1	back	1.010	1.057	1.068	0.479	0.506	
1732.40	1412	UMTS 1750	RMC	14.80	14.77	-0.09	Body	0 mm	Ant 4a	DLXZV01PQLD	1:1	top	0.262	1.007	0.264	0.099	0.100	
1732.40	1412	UMTS 1750	RMC	14.80	14.77	-0.19	Body	0 mm	Ant 4a	DLXZV01PQLD	1:1	bottom	0.013	1.007	0.013	0.006	0.006	
1732.40	1412	UMTS 1750	RMC	14.80	14.77	-0.17	Body	0 mm	Ant 4a	DLXZV01PQLD	1:1	right	0.000	1.007	0.000	0.000	0.000	
1712.40	1312	UMTS 1750	RMC	14.80	14.71	-0.07	Body	0 mm	Ant 4a	DLXZV01PQLD	1:1	left	0.894	1.021	0.913	0.350	0.357	
1732.40	1412	UMTS 1750	RMC	14.80	14.77	-0.07	Body	0 mm	Ant 4a	DLXZV01PQLD	1:1	left	0.964	1.007	0.971	0.378	0.381	
1752.60	1513	UMTS 1750	RMC	14.80	14.56	-0.05	Body	0 mm	Ant 4a	DLXZV01PQLD	1:1	left	0.954	1.057	1.008	0.372	0.393	
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 10-12
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 (2g)	Scaling Factor	Reported SAR (2g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1712.40	1312	UMTS 1750	RMC	13.50	13.48	-0.02	Body	0 mm	Ant 4b	DLXZV010PQLD	1:1	back	0.906	1.005	0.911	0.362	0.364	
1732.40	1412	UMTS 1750	RMC	13.50	13.30	0.00	Body	0 mm	Ant 4b	DLXZV010PQLD	1:1	back	0.909	1.047	0.952	0.361	0.378	
1752.60	1513	UMTS 1750	RMC	13.50	13.20	-0.02	Body	0 mm	Ant 4b	DLXZV010PQLD	1:1	back	0.939	1.072	1.007	0.372	0.399	
1732.40	1412	UMTS 1750	RMC	13.50	13.30	-0.04	Body	0 mm	Ant 4b	DLXZV010PQLD	1:1	top	0.647	1.047	0.677	0.252	0.264	
1732.40	1412	UMTS 1750	RMC	13.50	13.30	0.01	Body	0 mm	Ant 4b	DLXZV010PQLD	1:1	bottom	0.001	1.047	0.001	0.000	0.000	
1732.40	1412	UMTS 1750	RMC	13.50	13.30	0.08	Body	0 mm	Ant 4b	DLXZV010PQLD	1:1	right	0.001	1.047	0.001	0.000	0.000	
1732.40	1412	UMTS 1750	RMC	13.50	13.30	-0.02	Body	0 mm	Ant 4b	DLXZV010PQLD	1:1	left	0.033	1.047	0.035	0.013	0.014	
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 10-13
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 (lg)	Scaling Factor	Reported SAR (lg)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	15.00	14.65	-0.11	Body	0 mm	Ant 2a	DLXZV01JPQLD	1:1	back	1.050	1.084	1.138	0.530	0.575	
1880.00	9400	UMTS 1900	RMC	15.00	14.82	0.01	Body	0 mm	Ant 2a	DLXZV01JPQLD	1:1	back	1.000	1.042	1.042	0.509	0.530	
1907.60	9538	UMTS 1900	RMC	15.00	14.89	-0.14	Body	0 mm	Ant 2a	DLXZV01JPQLD	1:1	back	1.120	1.026	1.149	0.569	0.584	
1880.00	9400	UMTS 1900	RMC	15.00	14.82	0.09	Body	0 mm	Ant 2a	DLXZV01JPQLD	1:1	top	0.013	1.042	0.014	0.006	0.006	
1880.00	9400	UMTS 1900	RMC	15.00	14.82	-0.04	Body	0 mm	Ant 2a	DLXZV01JPQLD	1:1	bottom	0.359	1.042	0.374	0.128	0.133	
1852.40	9262	UMTS 1900	RMC	15.00	14.65	0.00	Body	0 mm	Ant 2a	DLXZV01JPQLD	1:1	right	0.878	1.084	0.952	0.351	0.380	
1880.00	9400	UMTS 1900	RMC	15.00	14.82	-0.01	Body	0 mm	Ant 2a	DLXZV01JPQLD	1:1	right	0.931	1.042	0.970	0.370	0.386	
1907.60	9538	UMTS 1900	RMC	15.00	14.89	0.01	Body	0 mm	Ant 2a	DLXZV01JPQLD	1:1	right	0.983	1.026	1.009	0.388	0.398	
1880.00	9400	UMTS 1900	RMC	15.00	14.82	0.09	Body	0 mm	Ant 2a	DLXZV01JPQLD	1:1	left	0.000	1.042	0.000	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 10-14
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	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.												(W/kg)					
1852.40	9262	UMTS 1900	RMC	14.00	13.45	-0.01	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	back	0.979	1.135	1.111	0.396	0.449	
1880.00	9400	UMTS 1900	RMC	14.00	13.54	-0.01	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	back	1.050	1.112	1.168	0.422	0.469	
1907.60	9538	UMTS 1900	RMC	14.00	13.90	0.01	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	back	1.080	1.023	1.105	0.432	0.442	
1880.00	9400	UMTS 1900	RMC	14.00	13.54	0.05	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	top	0.000	1.112	0.000	0.000	0.000	
1880.00	9400	UMTS 1900	RMC	14.00	13.54	-0.01	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	bottom	0.641	1.112	0.713	0.254	0.282	
1880.00	9400	UMTS 1900	RMC	14.00	13.54	0.13	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	right	0.024	1.112	0.027	0.007	0.008	
1880.00	9400	UMTS 1900	RMC	14.00	13.54	0.06	Body	0 mm	Ant 2b	DLXZV01BPQLD	1:1	left	0.006	1.112	0.007	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									

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 (lg)	Scaling Factor	Reported SAR (lg) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.												(W/kg)					
1852.40	9262	UMTS 1900	RMC	14.80	14.73	-0.01	Body	0 mm	Ant 4a	DLXZV01JPQLD	1:1	back	1.170	1.016	1.189	0.572	0.581	AS
1880.00	9400	UMTS 1900	RMC	14.80	14.70	0.01	Body	0 mm	Ant 4a	DLXZV01JPQLD	1:1	back	1.160	1.023	1.187	0.562	0.575	
1907.60	9538	UMTS 1900	RMC	14.80	14.75	0.01	Body	0 mm	Ant 4a	DLXZV01JPQLD	1:1	back	1.150	1.012	1.164	0.552	0.559	
1880.00	9400	UMTS 1900	RMC	14.80	14.70	0.01	Body	0 mm	Ant 4a	DLXZV01JPQLD	1:1	top	0.314	1.023	0.321	0.114	0.117	
1880.00	9400	UMTS 1900	RMC	14.80	14.70	-0.10	Body	0 mm	Ant 4a	DLXZV01JPQLD	1:1	bottom	0.015	1.023	0.015	0.006	0.006	
1880.00	9400	UMTS 1900	RMC	14.80	14.70	0.03	Body	0 mm	Ant 4a	DLXZV01JPQLD	1:1	right	0.000	1.023	0.000	0.000	0.000	
1852.40	9262	UMTS 1900	RMC	14.80	14.73	0.01	Body	0 mm	Ant 4a	DLXZV01JPQLD	1:1	left	0.862	1.016	0.876	0.359	0.365	
1880.00	9400	UMTS 1900	RMC	14.80	14.70	-0.02	Body	0 mm	Ant 4a	DLXZV01JPQLD	1:1	left	0.896	1.023	0.917	0.370	0.379	
1907.60	9538	UMTS 1900	RMC	14.80	14.75	0.01	Body	0 mm	Ant 4a	DLXZV01JPQLD	1:1	left	0.924	1.012	0.935	0.379	0.384	
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 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	13.50	13.30	0.08	Body	0 mm	Ant 4b	DLX2V01BPQLD	1:1	back	1.020	1.047	1.068	0.427	0.447	
1880.00	9400	UMTS 1900	RMC	13.50	13.25	0.07	Body	0 mm	Ant 4b	DLX2V01BPQLD	1:1	back	1.020	1.059	1.080	0.421	0.446	
1907.60	9538	UMTS 1900	RMC	13.50	13.32	0.07	Body	0 mm	Ant 4b	DLX2V01BPQLD	1:1	back	1.070	1.042	1.115	0.435	0.453	
1880.00	9400	UMTS 1900	RMC	13.50	13.25	-0.03	Body	0 mm	Ant 4b	DLX2V01BPQLD	1:1	top	0.637	1.059	0.675	0.247	0.262	
1880.00	9400	UMTS 1900	RMC	13.50	13.25	0.00	Body	0 mm	Ant 4b	DLX2V01BPQLD	1:1	bottom	0.000	1.059	0.000	0.000	0.000	
1880.00	9400	UMTS 1900	RMC	13.50	13.25	0.04	Body	0 mm	Ant 4b	DLX2V01BPQLD	1:1	right	0.008	1.059	0.008	0.003	0.003	
1880.00	9400	UMTS 1900	RMC	13.50	13.25	0.03	Body	0 mm	Ant 4b	DLX2V01BPQLD	1:1	left	0.024	1.059	0.025	0.011	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 10-17
LTE Band 71 Ant 1 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	MPE (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (W/kg)	Reported SAR (W/kg)	SAR (dBm)	Reported SAR (dBm)	Plot #	
MHz	Ch.															(W/kg)	(W/kg)	(W/kg)			
680.50	13297	Md	LTE Band 71	20	22.40	22.33	-0.14	0	Ant 1	DLX2V00QPQLD	QPSK	1	0	0 mm	back	1:1	0.676	1.016	0.687	0.305	0.310
680.50	13297	Md	LTE Band 71	20	22.40	22.26	-0.14	0	Ant 1	DLX2V00QPQLD	QPSK	50	50	0 mm	back	1:1	0.646	1.033	0.667	0.294	0.304
680.50	13297	Md	LTE Band 71	20	22.40	22.33	0.30	0	Ant 1	DLX2V00QPQLD	QPSK	1	0	0 mm	top	1:1	0.027	1.016	0.027	0.013	0.013
680.50	13297	Md	LTE Band 71	20	22.40	22.26	-0.01	0	Ant 1	DLX2V00QPQLD	QPSK	50	50	0 mm	top	1:1	0.025	1.033	0.026	0.011	0.011
680.50	13297	Md	LTE Band 71	20	22.40	22.33	0.00	0	Ant 1	DLX2V00QPQLD	QPSK	1	0	0 mm	bottom	1:1	0.736	1.016	0.748	0.253	0.257
680.50	13297	Md	LTE Band 71	20	22.40	22.26	0.07	0	Ant 1	DLX2V00QPQLD	QPSK	50	50	0 mm	bottom	1:1	0.746	1.033	0.771	0.309	0.319
680.50	13297	Md	LTE Band 71	20	22.40	22.33	-0.03	0	Ant 1	DLX2V00QPQLD	QPSK	1	0	0 mm	right	1:1	0.035	1.016	0.035	0.007	0.007
680.50	13297	Md	LTE Band 71	20	22.40	22.26	0.19	0	Ant 1	DLX2V00QPQLD	QPSK	50	50	0 mm	right	1:1	0.007	1.033	0.007	0.003	0.003
680.50	13297	Md	LTE Band 71	20	22.40	22.33	0.02	0	Ant 1	DLX2V00QPQLD	QPSK	1	0	0 mm	left	1:1	1.120	1.016	1.138	0.297	0.302
680.50	13297	Md	LTE Band 71	20	22.40	22.26	0.01	0	Ant 1	DLX2V00QPQLD	QPSK	50	50	0 mm	left	1:1	0.715	1.033	0.739	0.236	0.238
680.50	13297	Md	LTE Band 71	20	22.40	22.25	-0.01	0	Ant 1	DLX2V00QPQLD	QPSK	100	0	0 mm	left	1:1	0.763	1.035	0.790	0.243	0.252
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 10-18
LTE Band 71 Ant 3 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Drift (dB)	MPE (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (tag)	Scaling Factor	Reported SAR (tag)	SAR (tag)	Reported SAR (tag)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)		
680.50	13297	Md	LTE Band 71	20	23.00	23.00	-0.02	0	Ant 3	DLX2V03QPQLD	QPSK	1	0	0 mm	back	1:1	1.040	1.000	1.040	0.533	0.533
680.50	13297	Md	LTE Band 71	20	23.00	23.00	-0.05	0	Ant 3	DLX2V03QPQLD	QPSK	50	50	0 mm	back	1:1	0.939	1.000	0.939	0.476	0.476
680.50	13297	Md	LTE Band 71	20	23.00	22.99	-0.02	0	Ant 3	DLX2V03QPQLD	QPSK	100	0	0 mm	back	1:1	0.969	1.002	0.971	0.481	0.482
680.50	13297	Md	LTE Band 71	20	23.00	23.00	-0.02	0	Ant 3	DLX2V03QPQLD	QPSK	1	0	0 mm	top	1:1	0.741	1.000	0.741	0.279	0.279
680.50	13297	Md	LTE Band 71	20	23.00	23.00	-0.17	0	Ant 3	DLX2V03QPQLD	QPSK	50	50	0 mm	top	1:1	0.757	1.000	0.757	0.278	0.278
680.50	13297	Md	LTE Band 71	20	23.00	23.00	-0.08	0	Ant 3	DLX2V03QPQLD	QPSK	1	0	0 mm	bottom	1:1	0.021	1.000	0.021	0.011	0.011
680.50	13297	Md	LTE Band 71	20	23.00	23.00	0.02	0	Ant 3	DLX2V03QPQLD	QPSK	50	50	0 mm	bottom	1:1	0.016	1.000	0.016	0.009	0.009
680.50	13297	Md	LTE Band 71	20	23.00	23.00	-0.15	0	Ant 3	DLX2V03QPQLD	QPSK	1	0	0 mm	right	1:1	0.786	1.000	0.786	0.267	0.267
680.50	13297	Md	LTE Band 71	20	23.00	23.00	-0.14	0	Ant 3	DLX2V03QPQLD	QPSK	50	50	0 mm	right	1:1	0.683	1.000	0.683	0.225	0.225
680.50	13297	Md	LTE Band 71	20	23.00	23.00	0.09	0	Ant 3	DLX2V03QPQLD	QPSK	1	0	0 mm	left	1:1	0.007	1.000	0.007	0.003	0.003
680.50	13297	Md	LTE Band 71	20	23.00	23.00	0.09	0	Ant 3	DLX2V03QPQLD	QPSK	50	50	0 mm	left	1:1	0.006	1.000	0.006	0.003	0.003
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 10-19
LTE Band 12 Ant 1 Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Out [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR (lg)	SAR (lg)	Reported SAR (lg)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
707.50	23095	Mtd	LTE Band 12	10	21.30	21.16	0.00	0	Ant 1	DLXZV008PQLD	QPSK	1	0	0 mm	back	1:1	0.675	1.033	0.697	0.363	0.365	
707.50	23095	Mtd	LTE Band 12	10	21.30	20.89	-0.01	0	Ant 1	DLXZV008PQLD	QPSK	25	0	0 mm	back	1:1	0.626	1.099	0.698	0.327	0.359	
707.50	23095	Mtd	LTE Band 12	10	21.30	21.16	0.06	0	Ant 1	DLXZV008PQLD	QPSK	1	0	0 mm	top	1:1	0.026	1.033	0.027	0.013	0.013	
707.50	23095	Mtd	LTE Band 12	10	21.30	20.89	0.14	0	Ant 1	DLXZV008PQLD	QPSK	25	0	0 mm	top	1:1	0.027	1.099	0.030	0.013	0.014	
707.50	23095	Mtd	LTE Band 12	10	21.30	21.16	0.00	0	Ant 1	DLXZV008PQLD	QPSK	1	0	0 mm	bottom	1:1	0.498	1.033	0.514	0.205	0.212	
707.50	23095	Mtd	LTE Band 12	10	21.30	20.89	0.00	0	Ant 1	DLXZV008PQLD	QPSK	25	0	0 mm	bottom	1:1	0.480	1.099	0.528	0.197	0.217	
707.50	23095	Mtd	LTE Band 12	10	21.30	21.16	0.04	0	Ant 1	DLXZV008PQLD	QPSK	1	0	0 mm	right	1:1	0.008	1.033	0.008	0.004	0.004	
707.50	23095	Mtd	LTE Band 12	10	21.30	20.89	0.02	0	Ant 1	DLXZV008PQLD	QPSK	25	0	0 mm	right	1:1	0.006	1.099	0.007	0.003	0.003	
707.50	23095	Mtd	LTE Band 12	10	21.30	21.16	-0.10	0	Ant 1	DLXZV008PQLD	QPSK	1	0	0 mm	left	1:1	1.150	1.033	1.188	0.362	0.364	A7
707.50	23095	Mtd	LTE Band 12	10	21.30	20.89	-0.11	0	Ant 1	DLXZV008PQLD	QPSK	25	0	0 mm	left	1:1	1.080	1.099	1.187	0.331	0.364	
707.50	23095	Mtd	LTE Band 12	10	21.30	20.84	-0.09	0	Ant 1	DLXZV008PQLD	QPSK	50	0	0 mm	left	1:1	1.020	1.112	1.134	0.308	0.364	
707.50	23095	Mtd	LTE Band 12	10	18.30	18.25	-0.02	0	Ant 1	DLXZV008PQLD	QPSK	1	49	0 mm	left	1:1	0.634	1.012	0.642	0.181	0.183	
707.50	23095	Mtd	LTE Band 12	10	18.30	18.18	0.02	0	Ant 1	DLXZV008PQLD	QPSK	25	0	0 mm	left	1:1	0.670	1.028	0.689	0.189	0.194	
707.50	23095	Mtd	LTE Band 12	10	21.30	21.16	-0.07	0	Ant 1	DLXZV008PQLD	QPSK	1	0	0 mm	left	1:1	1.040	1.033	1.074	0.334	0.346	
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 10-20
LTE Band 12 Ant 3 Body SAR

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Table 10-25
LTE Band 26 Ant 1 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Spectral Density [dBm]	MPD [dB]	Antenna Config	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (H) (W/kg)	Scaling Factor	Reported SAR (H) (W/kg)	SAR (H) (W/kg)	Reported SAR (H) (W/kg)	Plot #
MHz	Ch																				
844.00	26990	High	LTE Band 26 (Cell)	10	20.70	20.44	-0.01	0	Ant 1	DLX2V057PQLD	QPSK	1	0	0 mm	back	1:1	0.707	1.062	0.751	0.305	0.324
819.00	26740	Low	LTE Band 26 (Cell)	10	20.70	20.44	-0.01	0	Ant 1	DLX2V057PQLD	QPSK	25	25	0 mm	back	1:1	0.708	1.062	0.752	0.303	0.322
844.00	26990	High	LTE Band 26 (Cell)	10	20.70	20.44	-0.13	0	Ant 1	DLX2V057PQLD	QPSK	1	0	0 mm	top	1:1	0.042	1.062	0.045	0.020	0.021
819.00	26740	Low	LTE Band 26 (Cell)	10	20.70	20.44	-0.10	0	Ant 1	DLX2V057PQLD	QPSK	25	25	0 mm	top	1:1	0.042	1.062	0.045	0.022	0.023
844.00	26990	High	LTE Band 26 (Cell)	10	20.70	20.44	-0.05	0	Ant 1	DLX2V057PQLD	QPSK	1	0	0 mm	bottom	1:1	0.391	1.062	0.415	0.130	0.138
819.00	26740	Low	LTE Band 26 (Cell)	10	20.70	20.44	-0.06	0	Ant 1	DLX2V057PQLD	QPSK	25	25	0 mm	bottom	1:1	0.399	1.062	0.381	0.121	0.129
844.00	26990	High	LTE Band 26 (Cell)	10	20.70	20.44	-0.02	0	Ant 1	DLX2V057PQLD	QPSK	1	0	0 mm	right	1:1	0.011	1.062	0.012	0.005	0.005
819.00	26740	Low	LTE Band 26 (Cell)	10	20.70	20.44	0.02	0	Ant 1	DLX2V057PQLD	QPSK	25	25	0 mm	right	1:1	0.006	1.062	0.006	0.003	0.003
819.00	26740	Low	LTE Band 26 (Cell)	10	20.70	20.35	-0.11	0	Ant 1	DLX2V057PQLD	QPSK	1	49	0 mm	left	1:1	1.090	1.084	1.182	0.398	0.431
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.70	20.34	-0.08	0	Ant 1	DLX2V057PQLD	QPSK	1	49	0 mm	left	1:1	1.020	1.086	1.108	0.378	0.411
844.00	26990	High	LTE Band 26 (Cell)	10	20.70	20.44	-0.16	0	Ant 1	DLX2V057PQLD	QPSK	1	0	0 mm	left	1:1	1.030	1.062	1.094	0.376	0.399
819.00	26740	Low	LTE Band 26 (Cell)	10	20.70	20.44	-0.12	0	Ant 1	DLX2V057PQLD	QPSK	25	25	0 mm	left	1:1	1.120	1.062	1.189	0.410	0.435
831.50	26865	Mid	LTE Band 26 (Cell)	10	20.70	20.26	-0.10	0	Ant 1	DLX2V057PQLD	QPSK	25	25	0 mm	left	1:1	1.010	1.107	1.118	0.370	0.410
844.00	26990	High	LTE Band 26 (Cell)	10	20.70	20.30	-0.11	0	Ant 1	DLX2V057PQLD	QPSK	25	25	0 mm	left	1:1	0.976	1.096	1.070	0.357	0.391
819.00	26740	Low	LTE Band 26 (Cell)	10	20.70	20.41	-0.09	0	Ant 1	DLX2V057PQLD	QPSK	50	0	0 mm	left	1:1	1.110	1.069	1.287	0.404	0.432
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 10-26
LTE Band 26 Ant 3 Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (H) (W/kg)	Scaling Factor	Reported SAR (H) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																				
819.00	26740	Low	LTE Band 26 (Cell)	10	21.5	21.43	-0.07	0	Ant 3	DLX2V03BPQLD	QPSK	1	0	0 mm	back	1:1	1.040	1.016	1.057	0.536	0.545
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.5	21.46	-0.09	0	Ant 3	DLX2V03BPQLD	QPSK	1	0	0 mm	back	1:1	1.020	1.009	1.029	0.527	0.532
844.00	26990	High	LTE Band 26 (Cell)	10	21.5	21.47	-0.12	0	Ant 3	DLX2V03BPQLD	QPSK	1	25	0 mm	back	1:1	1.060	1.007	1.067	0.560	0.564
819.00	26740	Low	LTE Band 26 (Cell)	10	21.5	21.35	-0.08	0	Ant 3	DLX2V03BPQLD	QPSK	25	0	0 mm	back	1:1	1.000	1.035	1.035	0.513	0.531
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.5	21.48	-0.10	0	Ant 3	DLX2V03BPQLD	QPSK	25	0	0 mm	back	1:1	1.030	1.005	1.035	0.533	0.536
844.00	26990	High	LTE Band 26 (Cell)	10	21.5	21.50	-0.13	0	Ant 3	DLX2V03BPQLD	QPSK	25	12	0 mm	back	1:1	1.070	1.000	1.070	0.563	0.563
844.00	26990	High	LTE Band 26 (Cell)	10	21.5	21.36	-0.11	0	Ant 3	DLX2V03BPQLD	QPSK	50	0	0 mm	back	1:1	1.080	1.033	1.116	0.568	0.576
844.00	26990	High	LTE Band 26 (Cell)	10	21.5	21.47	-0.01	0	Ant 3	DLX2V03BPQLD	QPSK	1	25	0 mm	top	1:1	0.995	1.007	0.999	0.196	0.197
844.00	26990	High	LTE Band 26 (Cell)	10	21.5	21.50	-0.02	0	Ant 3	DLX2V03BPQLD	QPSK	25	12	0 mm	top	1:1	0.600	1.000	0.600	0.197	0.197
844.00	26990	High	LTE Band 26 (Cell)	10	21.5	21.47	-0.10	0	Ant 3	DLX2V03BPQLD	QPSK	1	25	0 mm	bottom	1:1	0.031	1.007	0.031	0.016	0.016
844.00	26990	High	LTE Band 26 (Cell)	10	21.5	21.50	-0.15	0	Ant 3	DLX2V03BPQLD	QPSK	25	12	0 mm	bottom	1:1	0.031	1.000	0.031	0.016	0.016
819.00	26740	Low	LTE Band 26 (Cell)	10	21.5	21.43	0.00	0	Ant 3	DLX2V03BPQLD	QPSK	1	0	0 mm	right	1:1	1.060	1.016	1.077	0.406	0.412
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.5	21.46	0.00	0	Ant 3	DLX2V03BPQLD	QPSK	1	0	0 mm	right	1:1	1.030	1.009	1.039	0.407	0.411
844.00	26990	High	LTE Band 26 (Cell)	10	21.5	21.47	0.01	0	Ant 3	DLX2V03BPQLD	QPSK	1	25	0 mm	right	1:1	0.949	1.007	0.956	0.372	0.375
819.00	26740	Low	LTE Band 26 (Cell)	10	21.5	21.35	0.00	0	Ant 3	DLX2V03BPQLD	QPSK	25	0	0 mm	right	1:1	1.020	1.035	1.066	0.396	0.410
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.5	21.46	0.00	0	Ant 3	DLX2V03BPQLD	QPSK	25	0	0 mm	right	1:1	1.050	1.005	1.065	0.412	0.414
844.00	26990	High	LTE Band 26 (Cell)	10	21.5	21.50	0.01	0	Ant 3	DLX2V03BPQLD	QPSK	25	12	0 mm	right	1:1	0.972	1.000	0.972	0.379	0.379
844.00	26990	High	LTE Band 26 (Cell)	10	21.5	21.36	0.02	0	Ant 3	DLX2V03BPQLD	QPSK	50	0	0 mm	right	1:1	0.980	1.033	1.012	0.382	0.396
844.00	26990	High	LTE Band 26 (Cell)	10	21.5	21.47	0.02	0	Ant 3	DLX2V03BPQLD	QPSK	1	25	0 mm	left	1:1	0.009	1.007	0.009	0.004	0.004
844.00	26990	High	LTE Band 26 (Cell)	10	21.5	21.50	-0.10	0	Ant 3	DLX2V03BPQLD	QPSK	25	12	0 mm	left	1:1	0.008	1.000	0.008	0.004	0.004
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: BCGA2069		 SAR EVALUATION REPORT		Approved by: Quality Manager	
Document S/N: 1C1912170054-01-R1.BCG		Test Dates: 12/18/2019 – 01/28/2020		DUT Type: Tablet Device	
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Table 10-27
LTE Band 5 Ant 1 Body SAR

MEASUREMENT RESULTS																								
# CC Uplink	Component Carrier	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 (dB) (mW/kg)	Scaling Factor	Reported SAR (dB) (mW/kg)	SAR (dB) (mW/kg)	Reported SAR (dB) (mW/kg)	Plot #	
		MHz	Ch.																					
1 CC Uplink	NA	836.50	25525	MM	LTE Band 5 (Cat)	10	20.70	20.65	-0.02	0	Ant 1	DLX2G09PQLD	QPSK	1	25	0 mm	back	1:1	0.026	1.012	0.836	0.327	0.331	
1 CC Uplink	NA	836.50	25525	MM	LTE Band 5 (Cat)	10	20.70	20.70	0.04	0	Ant 1	DLX2G09PQLD	QPSK	25	25	0 mm	back	1:1	0.863	1.000	0.963	0.339	0.339	
1 CC Uplink	NA	836.50	25525	MM	LTE Band 5 (Cat)	10	20.70	20.64	-0.06	0	Ant 1	DLX2G09PQLD	QPSK	50	0	0 mm	back	1:1	0.842	1.014	0.855	0.331	0.338	
1 CC Uplink	NA	836.50	25525	MM	LTE Band 5 (Cat)	10	17.70	17.61	-0.02	0	Ant 1	DLX2G09PQLD	QPSK	1	25	0 mm	back	1:1	0.365	1.021	0.362	0.166	0.169	
1 CC Uplink	NA	836.50	25525	MM	LTE Band 5 (Cat)	10	17.70	17.70	-0.02	0	Ant 1	DLX2G09PQLD	QPSK	25	25	0 mm	back	1:1	0.366	1.000	0.366	0.171	0.171	
1 CC Uplink	NA	836.50	25525	MM	LTE Band 5 (Cat)	10	20.70	20.65	-0.10	0	Ant 1	DLX2G09PQLD	QPSK	1	25	0 mm	top	1:1	0.039	1.012	0.039	0.021	0.021	
1 CC Uplink	NA	836.50	25525	MM	LTE Band 5 (Cat)	10	20.70	20.70	-0.06	0	Ant 1	DLX2G09PQLD	QPSK	25	25	0 mm	top	1:1	0.038	1.000	0.038	0.021	0.021	
1 CC Uplink	NA	836.50	25525	MM	LTE Band 5 (Cat)	10	20.70	20.65	-0.11	0	Ant 1	DLX2G09PQLD	QPSK	1	25	0 mm	bottom	1:1	0.403	1.012	0.408	0.154	0.156	
1 CC Uplink	NA	836.50	25525	MM	LTE Band 5 (Cat)	10	20.70	20.70	-0.08	0	Ant 1	DLX2G09PQLD	QPSK	25	25	0 mm	bottom	1:1	0.426	1.000	0.426	0.163	0.163	
1 CC Uplink	NA	836.50	25525	MM	LTE Band 5 (Cat)	10	20.70	20.65	-0.05	0	Ant 1	DLX2G09PQLD	QPSK	1	25	0 mm	right	1:1	0.005	1.012	0.005	0.002	0.002	
1 CC Uplink	NA	836.50	25525	MM	LTE Band 5 (Cat)	10	20.70	20.70	-0.05	0	Ant 1	DLX2G09PQLD	QPSK	25	25	0 mm	right	1:1	0.007	1.000	0.007	0.003	0.003	
1 CC Uplink	NA	836.50	25525	MM	LTE Band 5 (Cat)	10	20.70	20.65	-0.02	0	Ant 1	DLX2G09PQLD	QPSK	1	25	0 mm	left	1:1	1.000	1.012	1.103	0.438	0.413	
1 CC Uplink	NA	836.50	25525	MM	LTE Band 5 (Cat)	10	20.70	20.70	-0.09	0	Ant 1	DLX2G09PQLD	QPSK	25	25	0 mm	left	1:1	1.130	1.000	1.130	0.420	0.420	

Table 10-30
LTE Band 4 Ant 2b Body SAR

MEASUREMENT RESULTS																	
FREQUENCY	Mode	Bandwidth	Maximum Allowed Power	Conducted Power	Power Out	MPE (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (2g)	Reported SAR (2g)	
MHz	Ch.	[MHz]	[dBm]	[dBm]	[dBm]										(W/kg)	(W/kg)	
1732.50	20175	Md	LTE Band 4 (AWS)	20	15.10	15.05	-0.03	0	Ant 2b	DLX2V03PQLD	QPSK	1	99	0 mm	back	1:1	0.922
1732.50	20175	Md	LTE Band 4 (AWS)	20	15.10	15.03	-0.02	0	Ant 2b	DLX2V03PQLD	QPSK	50	50	0 mm	back	1:1	0.938
1732.50	20175	Md	LTE Band 4 (AWS)	20	15.10	14.85	-0.09	0	Ant 2b	DLX2V03PQLD	QPSK	100	0	0 mm	back	1:1	0.933
1732.50	20175	Md	LTE Band 4 (AWS)	20	12.10	12.08	0.06	0	Ant 2b	DLX2V03PQLD	QPSK	1	99	0 mm	back	1:1	0.944
1732.50	20175	Md	LTE Band 4 (AWS)	20	12.10	11.92	0.08	0	Ant 2b	DLX2V03PQLD	QPSK	50	50	0 mm	back	1:1	0.945
1732.50	20175	Md	LTE Band 4 (AWS)	20	15.10	15.05	0.03	0	Ant 2b	DLX2V03PQLD	QPSK	1	99	0 mm	top	1:1	0.000
1732.50	20175	Md	LTE Band 4 (AWS)	20	15.10	15.03	-0.09	0	Ant 2b	DLX2V03PQLD	QPSK	50	50	0 mm	top	1:1	0.000
1732.50	20175	Md	LTE Band 4 (AWS)	20	15.10	15.05	-0.05	0	Ant 2b	DLX2V03PQLD	QPSK	1	99	0 mm	bottom	1:1	0.685
1732.50	20175	Md	LTE Band 4 (AWS)	20	15.10	15.03	-0.04	0	Ant 2b	DLX2V03PQLD	QPSK	50	50	0 mm	bottom	1:1	0.644
1732.50	20175	Md	LTE Band 4 (AWS)	20	15.10	15.05	-0.01	0	Ant 2b	DLX2V03PQLD	QPSK	1	99	0 mm	right	1:1	0.066
1732.50	20175	Md	LTE Band 4 (AWS)	20	15.10	15.03	-0.04	0	Ant 2b	DLX2V03PQLD	QPSK	50	50	0 mm	right	1:1	0.071
1732.50	20175	Md	LTE Band 4 (AWS)	20	15.10	15.05	-0.02	0	Ant 2b	DLX2V03PQLD	QPSK	1	99	0 mm	left	1:1	0.014
1732.50	20175	Md	LTE Band 4 (AWS)	20	15.10	15.03	-0.09	0	Ant 2b	DLX2V03PQLD	QPSK	50	50	0 mm	left	1:1	0.014
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 10-31
LTE Band 4 Ant 4a Body SAR

MEASUREMENT RESULTS																	
FREQUENCY	Mode	Bandwidth	Maximum Allowed Power	Conducted Power	Power Out	MPE (dB)	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (2g)	Reported SAR (2g)	
MHz	Ch.	[MHz]	[dBm]	[dBm]	[dBm]										(W/kg)	(W/kg)	
1732.50	20175	Md	LTE Band 4 (AWS)	20	14.80	14.74	-0.06	0	Ant 4a	DLX2V03PQLD	QPSK	1	50	0 mm	back	1:1	0.977
1732.50	20175</																

Table 10-33
LTE Band 66 Ant 2a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Spectral Density (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.															(W/kg)		(W/kg)	(W/kg)		
1720.00	12072	Low	LTE Band 66 (BW5)	20	14.90	14.94	-0.09	0	Ant 2a	DLX2V613PQLD	QPSK	1	0	0 mm	back	1:1	0.958	1.014	0.971	0.476	
1745.00	13232	Mid	LTE Band 66 (BW5)	20	14.90	14.78	-0.07	0	Ant 2a	DLX2V613PQLD	QPSK	1	50	0 mm	back	1:1	0.987	1.028	1.015	0.483	0.487
1770.00	13252	High	LTE Band 66 (BW5)	20	14.90	14.54	-0.10	0	Ant 2a	DLX2V613PQLD	QPSK	1	99	0 mm	back	1:1	1.000	1.086	1.086	0.488	0.530
1720.00	12072	Low	LTE Band 66 (BW5)	20	14.90	14.69	-0.05	0	Ant 2a	DLX2V613PQLD	QPSK	50	0	0 mm	back	1:1	0.946	1.052	0.995	0.466	0.490
1745.00	13232	Mid	LTE Band 66 (BW5)	20	14.90	14.82	-0.09	0	Ant 2a	DLX2V613PQLD	QPSK	50	0	0 mm	back	1:1	1.000	1.019	1.019	0.491	0.500
1770.00	13252	High	LTE Band 66 (BW5)	20	14.90	14.67	-0.09	0	Ant 2a	DLX2V613PQLD	QPSK	50	50	0 mm	back	1:1	1.000	1.054	1.054	0.487	0.513
1745.00	13232	Mid	LTE Band 66 (BW5)	20	14.90	14.80	-0.07	0	Ant 2a	DLX2V613PQLD	QPSK	100	0	0 mm	back	1:1	1.010	1.023	1.033	0.497	0.508
1720.00	12072	Low	LTE Band 66 (BW5)	20	11.90	11.84	-0.02	0	Ant 2a	DLX2V613PQLD	QPSK	1	0	0 mm	back	1:1	0.368	1.014	0.363	0.177	0.179
1745.00	13232	Mid	LTE Band 66 (BW5)	20	11.90	11.79	-0.03	0	Ant 2a	DLX2V613PQLD	QPSK	50	25	0 mm	back	1:1	0.363	1.026	0.372	0.179	0.184
1720.00	12072	Low	LTE Band 66 (BW5)	20	14.90	14.94	-0.09	0	Ant 2a	DLX2V613PQLD	QPSK	1	0	0 mm	top	1:1	0.007	1.014	0.007	0.002	0.002
1745.00	13232	Mid	LTE Band 66 (BW5)	20	14.90	14.82	0.18	0	Ant 2a	DLX2V613PQLD	QPSK	50	0	0 mm	top	1:1	0.009	1.019	0.009	0.003	0.003
1720.00	12072	Low	LTE Band 66 (BW5)	20	14.90	14.84	-0.02	0	Ant 2a	DLX2V613PQLD	QPSK	1	0	0 mm	bottom	1:1	0.191	1.014	0.194	0.071	0.072
1745.00	13232	Mid	LTE Band 66 (BW5)	20	14.90	14.82	-0.08	0	Ant 2a	DLX2V613PQLD	QPSK	90	0	0 mm	bottom	1:1	0.210	1.019	0.214	0.077	0.078
1720.00	12072	Low	LTE Band 66 (BW5)	20	14.90	14.94	-0.02	0	Ant 2a	DLX2V613PQLD	QPSK	1	0	0 mm	right	1:1	0.831	1.014	0.843	0.329	0.333
1745.00	13232	Mid	LTE Band 66 (BW5)	20	14.90	14.78	-0.01	0	Ant 2a	DLX2V613PQLD	QPSK	1	90	0 mm	right	1:1	0.806	1.028	0.829	0.315	0.324
1770.00	13252	High	LTE Band 66 (BW5)	20	14.90	14.54	0.00	0	Ant 2a	DLX2V613PQLD	QPSK	1	99	0 mm	right	1:1	0.797	1.086	0.866	0.309	0.336
1720.00	12072	Low	LTE Band 66 (BW5)	20	14.90	14.69	-0.01	0	Ant 2a	DLX2V613PQLD	QPSK	50	0	0 mm	right	1:1	0.811	1.052	0.853	0.318	0.335
1745.00	13232	Mid	LTE Band 66 (BW5)	20	14.90	14.82	0.00	0	Ant 2a	DLX2V613PQLD	QPSK	50	0	0 mm	right	1:1	0.79				

Table 10-34
LTE Band 66 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 (2g)	Scaling Factor	Reported SAR (2g)	Reported SAR (2g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)		
1720.00	12072	Low	LTE Band 66 (BW5)	20	15.10	14.60	0.06	0	Ant 2b	DLX2V613PQLD	QPSK	1	0	0 mm	back	1:1	0.897	1.122	1.006	0.363	0.407
1745.00	13232	Mid	LTE Band 66 (BW5)	20	15.10	14.57	0.06	0	Ant 2b	DLX2V613PQLD	QPSK	1	0	0 mm	back	1:1	0.791	1.130	0.894	0.314	0.355
1770.00	13252	High	LTE Band 66 (BW5)	20	15.10	14.59	0.02	0	Ant 2b	DLX2V613PQLD	QPSK	1	99	0 mm	back	1:1	0.775	1.125	0.872	0.305	0.343
1720.00	12072	Low	LTE Band 66 (BW5)	20	15.10	14.78	0.05	0	Ant 2b	DLX2V613PQLD	QPSK	50	0	0 mm	back	1:1	0.825	1.076	0.888	0.330	0.365
1745.00	13232	Mid	LTE Band 66 (BW5)	20	15.10	14.95	0.05	0	Ant 2b	DLX2V613PQLD	QPSK	50	0	0 mm	back	1:1	0.801	1.035	0.829	0.318	0.329
1770.00	13252	High	LTE Band 66 (BW5)	20	15.10	14.77	0.03	0	Ant 2b	DLX2V613PQLD	QPSK	50	50	0 mm	back	1:1	0.780	1.079	0.842	0.305	0.330
1745.00	13232	Mid	LTE Band 66 (BW5)	20	15.10	14.59	0.04	0	Ant 2b	DLX2V613PQLD	QPSK	100	0	0 mm	back	1:1	0.806	1.125	0.907	0.320	0.360
1720.00	12072	Low	LTE Band 66 (BW5)	20	12.10	12.05	-0.07	0	Ant 2b	DLX2V613PQLD	QPSK	1	0	0 mm	back	1:1	0.356	1.012	0.360	0.152	0.154
1745.00	13232	Mid	LTE Band 66 (BW5)	20	12.10	11.86	-0.02	0	Ant 2b	DLX2V613PQLD	QPSK	50	0	0 mm	back	1:1	0.341	1.057	0.360	0.144	0.152
1720.00	12072	Low	LTE Band 66 (BW5)	20	15.10	14.60	-0.16	0	Ant 2b	DLX2V613PQLD	QPSK	1	0	0 mm	top	1:1	0.001	1.122	0.001	0.000	0.000
1745.00	13232	Mid	LTE Band 66 (BW5)	20	15.10	14.95	0.03	0	Ant 2b	DLX2V613PQLD	QPSK	50	0	0 mm	top	1:1	0.000	1.035	0.000	0.000	0.000
1720.00	12072	Low	LTE Band 66 (BW5)	20	15.10	14.60	0.02	0	Ant 2b	DLX2V613PQLD	QPSK	1	0	0 mm	bottom	1:1	0.551	1.122	0.618	0.214	0.240
1745.00	13232	Mid	LTE Band 66 (BW5)	20	15.10	14.95	0.00	0	Ant 2b	DLX2V613PQLD	QPSK	90	0	0 mm	bottom	1:1	0.582	1.035	0.602	0.225	0.233
1720.00	12072	Low	LTE Band 66 (BW5)	20	15.10	14.60	0.16	0	Ant 2b	DLX2V613PQLD	QPSK	1	0	0 mm	right	1:1	0.955	1.122	0.973	0.324	0.327
1745.00	13232	Mid	LTE Band 66 (BW5)	20	15.10	14.95	0.10	0	Ant 2b	DLX2V613PQLD	QPSK	50	0	0 mm	right	1:1	0.049	1.035	0.051	0.017	0.018
1720.00	12072	Low	LTE Band 66 (BW5)	20	15.10	14.60	0.05	0	Ant 2b	DLX2V613PQLD	QPSK	1	0	0 mm	left	1:1	0.008	1.122	0.009	0.003	0.003
1745.00	13232	Mid	LTE Band 66 (BW5)	20	15.10	14.95	0.03	0	Ant 2b	DLX2V613PQLD	QPSK	50	0	0 mm	left	1:1	0.007	1.035	0.007	0.027	0.028
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: BCGA2069		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C1912170054-01-R1.BCG	Test Dates: 12/18/2019 – 01/28/2020	DUT Type: Tablet Device	Page 247 of 297

Table 10-35
LTE Band 66 Ant 4a Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Dens (dB)	MPE (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)			
1720.00	13072	Low	LTE Band 66 (AW3)	20	14.80	14.73	-0.13	0	Ant 4a	DLX2V011PQLD	QPSK	1	99	0 mm	back	1:1	1.100	1.016	1.118	0.524	0.522	
1745.00	13232	Mid	LTE Band 66 (AW3)	20	14.80	14.75	-0.14	0	Ant 4a	DLX2V011PQLD	QPSK	1	0	0 mm	back	1:1	1.100	1.012	1.113	0.519	0.525	
1770.00	132572	High	LTE Band 66 (AW3)	20	14.80	14.50	-0.14	0	Ant 4a	DLX2V011PQLD	QPSK	1	0	0 mm	back	1:1	1.100	1.072	1.179	0.517	0.554	
1720.00	13072	Low	LTE Band 66 (AW3)	20	14.80	14.64	-0.16	0	Ant 4a	DLX2V011PQLD	QPSK	50	50	0 mm	back	1:1	1.060	1.038	1.100	0.503	0.522	
1745.00	13232	Mid	LTE Band 66 (AW3)	20	14.80	14.60	-0.13	0	Ant 4a	DLX2V011PQLD	QPSK	50	0	0 mm	back	1:1	1.070	1.047	1.120	0.507	0.531	
1770.00	132572	High	LTE Band 66 (AW3)	20	14.80	14.67	-0.14	0	Ant 4a	DLX2V011PQLD	QPSK	50	0	0 mm	back	1:1	1.110	1.030	1.143	0.518	0.534	A13
1745.00	13232	Mid	LTE Band 66 (AW3)	20	14.80	14.56	-0.10	0	Ant 4a	DLX2V011PQLD	QPSK	100	0	0 mm	back	1:1	1.050	1.057	1.110	0.496	0.523	
1720.00	13072	Low	LTE Band 66 (AW3)	20	11.80	11.71	-0.09	0	Ant 4a	DLX2V011PQLD	QPSK	1	99	0 mm	back	1:1	0.452	1.021	0.463	0.224	0.229	
1720.00	13072	Low	LTE Band 66 (AW3)	20	11.80	11.44	-0.07	0	Ant 4a	DLX2V011PQLD	QPSK	50	50	0 mm	back	1:1	0.410	1.086	0.448	0.204	0.222	
1745.00	13232	Mid	LTE Band 66 (AW3)	20	14.80	14.75	-0.04	0	Ant 4a	DLX2V011PQLD	QPSK	1	0	0 mm	top	1:1	0.276	1.012	0.279	0.104	0.105	
1770.00	132572	High	LTE Band 66 (AW3)	20	14.80	14.67	-0.06	0	Ant 4a	DLX2V011PQLD	QPSK	50	0	0 mm	top	1:1	0.269	1.030	0.277	0.101	0.104	
1745.00	13232	Mid	LTE Band 66 (AW3)	20	14.80	14.75	0.08	0	Ant 4a	DLX2V011PQLD	QPSK	1	0	0 mm	bottom	1:1	0.009	1.012	0.009	0.003	0.003	
1770.00	132572	High	LTE Band 66 (AW3)	20	14.80	14.67	0.16	0	Ant 4a	DLX2V011PQLD	QPSK	50	0	0 mm	bottom	1:1	0.010	1.030	0.010	0.003	0.003	
1745.00	13232	Mid	LTE Band 66 (AW3)	20	14.80	14.75	-0.05	0	Ant 4a	DLX2V011PQLD	QPSK	1	0	0 mm	right	1:1	0.000	1.012	0.000	0.000	0.000	
1770.00																						

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

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth (MHz)	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power Out (dB)	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 (2g) (W/kg)	Reported SAR (2g) (W/kg)	Port #	
MHz	Ch.																					
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.00	14.96	-0.04	0	Ant 2a	DLXQVGPQLD	QPSK	1	99	0 mm	back	1:1	1.000	1.000	1.000	0.538	0.543	
1860.00	18900	Mid	LTE Band 2 (PCS)	20	15.00	14.67	-0.33	0	Ant 2a	DLXQVGPQLD	QPSK	1	99	0 mm	back	1:1	1.070	1.070	1.155	0.539	0.560	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.00	14.90	-0.10	0	Ant 2a	DLXQVGPQLD	QPSK	1	99	0 mm	back	1:1	1.100	1.023	1.146	0.546	0.559	
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.00	14.67	-0.34	0	Ant 2a	DLXQVGPQLD	QPSK	50	50	0 mm	back	1:1	1.070	1.030	1.102	0.527	0.543	
1860.00	18900	Mid	LTE Band 2 (PCS)	20	15.00	14.65	-0.35	0	Ant 2a	DLXQVGPQLD	QPSK	50	50	0 mm	back	1:1	1.030	1.084	1.117	0.496	0.538	
1900.00	19100	High	LTE Band 2 (PCS)	20	15.00	14.70	-0.30	0	Ant 2a	DLXQVGPQLD	QPSK	50	50	0 mm	back	1:1	1.070	1.072	1.147	0.524	0.562	
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.00	14.74	-0.26	0	Ant 2a	DLXQVGPQLD	QPSK	100	0	0 mm	back	1:1	1.060	1.062	1.126	0.525	0.568	
1860.00	18900	Mid	LTE Band 2 (PCS)	20	12.00	11.71	-0.29	0	Ant 2a	DLXQVGPQLD	QPSK	1	99	0 mm	back	1:1	0.445	1.069	0.475	0.213	0.228	
1860.00	18900	Mid	LTE Band 2 (PCS)	20	12.00	11.55	-0.45	0	Ant 2a	DLXQVGPQLD	QPSK	50	50	0 mm	back	1:1	0.427	1.109	0.474	0.204	0.226	
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.00	14.96	0.19	0	Ant 2a	DLXQVGPQLD	QPSK	1	99	0 mm	top	1:1	0.014	1.009	0.014	0.006	0.006	
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.00	14.87	0.06	0	Ant 2a	DLXQVGPQLD	QPSK	50	50	0 mm	top	1:1	0.014	1.030	0.014	0.006	0.006	
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.00	14.96	-0.01	0	Ant 2a	DLXQVGPQLD	QPSK	1	99	0 mm	bottom	1:1	0.307	1.009	0.310	0.114	0.115	
1860.00	18700	Low	LTE Band 2 (PCS)	20	15.00	14.87	0.0															

Table 10-40
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 (2g)	Scaling Factor	Reported SAR (2g)	SAR (2g)	Reported SAR (2g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)			
1890.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.14	-0.12	0	Ant 4b	DLX2V08BPQLD	QPSK	1	50	0 mm	back	1:1	0.867	1.086	0.942	0.345	0.375	
1880.00	18800	Mid	LTE Band 2 (PCS)	20	13.50	13.11	-0.09	0	Ant 4b	DLX2V08BPQLD	QPSK	1	50	0 mm	back	1:1	0.902	1.094	0.987	0.356	0.392	
1900.00	19100	High	LTE Band 2 (PCS)	20	13.50	12.91	-0.03	0	Ant 4b	DLX2V08BPQLD	QPSK	1	0	0 mm	back	1:1	0.885	1.148	1.014	0.350	0.401	
1890.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.14	-0.01	0	Ant 4b	DLX2V08BPQLD	QPSK	50	0	0 mm	back	1:1	0.851	1.086	0.924	0.339	0.367	
1890.00	18800	Mid	LTE Band 2 (PCS)	20	13.50	13.13	-0.05	0	Ant 4b	DLX2V08BPQLD	QPSK	50	25	0 mm	back	1:1	0.918	1.089	1.000	0.363	0.396	
1900.00	19100	High	LTE Band 2 (PCS)	20	13.50	13.03	-0.10	0	Ant 4b	DLX2V08BPQLD	QPSK	50	50	0 mm	back	1:1	0.884	1.114	0.985	0.345	0.384	
1890.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.12	-0.12	0	Ant 4b	DLX2V08BPQLD	QPSK	100	0	0 mm	back	1:1	0.861	1.091	0.939	0.342	0.373	
1890.00	18700	Low	LTE Band 2 (PCS)	20	10.50	10.16	-0.04	0	Ant 4b	DLX2V08BPQLD	QPSK	1	50	0 mm	back	1:1	0.451	1.081	0.488	0.182	0.197	
1890.00	18700	Low	LTE Band 2 (PCS)	20	10.50	10.14	-0.05	0	Ant 4b	DLX2V08BPQLD	QPSK	50	25	0 mm	back	1:1	0.450	1.086	0.489	0.181	0.197	
1890.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.14	0.00	0	Ant 4b	DLX2V08BPQLD	QPSK	1	50	0 mm	top	1:1	0.518	1.086	0.563	0.205	0.223	
1890.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.14	-0.01	0	Ant 4b	DLX2V08BPQLD	QPSK	50	0	0 mm	top	1:1	0.506	1.086	0.550	0.201	0.218	
1890.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.14	0.08	0	Ant 4b	DLX2V08BPQLD	QPSK	1	50	0 mm	bottom	1:1	0.000	1.086	0.000	0.000	0.000	
1890.00	18700	Low	LTE Band 2 (PCS)	20	13.50	13.14	-0.03	0	Ant 4b	DLX2V08BPQLD	QPS											

Table 10-43
LTE Band 25 Ant 4a 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 (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (2g) (W/kg)	Reported SAR (2g) (W/kg)	Plot #	
MHz	Ch.																	Reported SAR (1g) (W/kg)				
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.80	14.43	-0.01	0	Ant 4a	DLX2VGGPQLD	QPSK	1	0	0 mm	back	1:1	1.090	1.089	1.187	0.530	0.577	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.80	14.48	-0.09	0	Ant 4a	DLX2VGGPQLD	QPSK	1	99	0 mm	back	1:1	0.916	1.076	0.986	0.472	0.508	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.80	14.62	0.05	0	Ant 4a	DLX2VGGPQLD	QPSK	1	99	0 mm	back	1:1	1.140	1.042	1.188	0.529	0.561	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.80	14.33	-0.04	0	Ant 4a	DLX2VGGPQLD	QPSK	50	50	0 mm	back	1:1	1.060	1.114	1.181	0.510	0.568	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.80	14.51	-0.12	0	Ant 4a	DLX2VGGPQLD	QPSK	50	50	0 mm	back	1:1	0.900	1.069	0.962	0.464	0.496	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.80	14.77	-0.04	0	Ant 4a	DLX2VGGPQLD	QPSK	50	0	0 mm	back	1:1	1.180	1.007	1.188	0.563	0.567	A15
1905.00	26590	High	LTE Band 25 (PCS)	20	14.80	14.56	0.05	0	Ant 4a	DLX2VGGPQLD	QPSK	100	0	0 mm	back	1:1	0.966	1.057	1.021	0.494	0.522	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.80	14.62	-0.02	0	Ant 4a	DLX2VGGPQLD	QPSK	1	99	0 mm	top	1:1	0.322	1.042	0.336	0.117	0.122	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.80	14.77	-0.04	0	Ant 4a	DLX2VGGPQLD	QPSK	50	0	0 mm	top	1:1	0.298	1.007	0.300	0.108	0.109	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.80	14.62	-0.08	0	Ant 4a	DLX2VGGPQLD	QPSK	1	99	0 mm	bottom	1:1	0.015	1.042	0.016	0.006	0.006	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.80	14.77	0.03	0	Ant 4a	DLX2VGGPQLD	QPSK	50	0	0 mm	bottom	1:1	0.017	1.007	0.017	0.007	0.007	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.80	14.62	0.00	0	Ant 4a	DLX2VGGPQLD	QPSK	1	99	0 mm	right	1:1	0.000	1.042	0.000	0.000	0.000	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.80	14.77	0.19	0	Ant 4a	DLX2VGGPQLD	QPSK	50	0	0 mm	right	1:1	0.000	1.007	0.000	0.000	0.000	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.80	14.43	-0.18	0	Ant 4a	DLX2VGGPQLD	QPSK	1	0	0 mm	left	1:1	0.870	1.089	0.947	0.345	0.376	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.80	14.48	-0.09	0	Ant 4a	DLX2VGGPQLD	QPSK	1	99	0 mm	left	1:1	0.904	1.076	0.973	0.350	0.377	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.80	14.62	-0.15	0	Ant 4a	DLX2VGGPQLD	QPSK	1	99	0 mm	left	1:1	0.944	1.042	0.984	0.366	0.381	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.80	14.33	-0.04	0	Ant 4a	DLX2VGGPQLD	QPSK	50	50	0 mm	left	1:1	0.850	1.114	0.947	0.336	0.374	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.80	14.51	-0.04	0	Ant 4a	DLX2VGG												

Note: Blue entry represents variability measurement.

Table 10-44
LTE Band 25 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 (tg) (W/kg)	Scaling Factor	Reported SAR (tg) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																				
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.50	13.13	-0.03	0	Ant 4b	DLX2V08BPQLD	QPSK	1	50	0 mm	back	1:1	0.786	1.089	0.856	0.317	0.345
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.50	12.97	-0.02	0	Ant 4b	DLX2V08BPQLD	QPSK	1	50	0 mm	back	1:1	0.820	1.130	0.927	0.324	0.366
1905.00	26590	High	LTE Band 25 (PCS)	20	13.50	12.98	-0.03	0	Ant 4b	DLX2V08BPQLD	QPSK	1	99	0 mm	back	1:1	0.914	1.127	1.030	0.353	0.398
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.50	13.18	-0.03	0	Ant 4b	DLX2V08BPQLD	QPSK	50	0	0 mm	back	1:1	0.778	1.076	0.838	0.314	0.338
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.50	13.12	-0.04	0	Ant 4b	DLX2V08BPQLD	QPSK	50	0	0 mm	back	1:1	0.864	1.091	0.943	0.337	0.368
1905.00	26590	High	LTE Band 25 (PCS)	20	13.50	13.05	-0.02	0	Ant 4b	DLX2V08BPQLD	QPSK	50	25	0 mm	back	1:1	0.853	1.109	0.946	0.335	0.372
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.50	13.12	-0.03	0	Ant 4b	DLX2V08BPQLD	QPSK	100	0	0 mm	back	1:1	0.799	1.091	0.872	0.319	0.348
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.50	13.13	-0.03	0	Ant 4b	DLX2V08BPQLD	QPSK	1	50	0 mm	top	1:1	0.562	1.089	0.612	0.214	0.253
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.50	13.18	0.16	0	Ant 4b	DLX2V08BPQLD	QPSK	50	0	0 mm	top	1:1	0.578	1.076	0.622	0.220	0.237
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.50	13.13	-0.17	0	Ant 4b	DLX2V08BPQLD	QPSK	1	50	0 mm	bottom	1:1	0.000	1.089	0.000	0.000	0.000
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.50	13.18	0.03	0	Ant 4b	DLX2V08BPQLD	QPSK	50	0	0 mm	bottom	1:1	0.000	1.076	0.000	0.000	0.000
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.50	13.13	0.07	0	Ant 4b	DLX2V08BPQLD	QPSK	1	50	0 mm	right	1:1	0.006	1.089	0.007	0.002	0.002
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.50	13.18	0.13	0	Ant 4b	DLX2V08BPQLD	QPSK	50	0	0 mm	right	1:1	0.005	1.076	0.005	0.001	0.001
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.50	13.13	-0.03	0	Ant 4b	DLX2V08BPQLD	QPSK	1	50	0 mm	left	1:1	0.016	1.089	0.017	0.007	0.006
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.50	13.18	0.01	0	Ant 4b	DLX2V08BPQLD	QPSK	50	0	0 mm	left	1:1	0.017	1.076	0.018	0.007	0.008
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 10-45
LTE Band 30 Ant 2a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dens. [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [g]	Scaling Factor	Reported SAR [g]	SAR [10g]	Reported SAR [10g]	Pilot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)		
2310.00	27710	Md	LTE Band 30	10	14.00	13.26	-0.02	0	Ant 2a	DLX2VGGPQLD	QPSK	1	25	0 mm	back	1:1	0.679	1.186	0.805	0.303	0.309
2310.00	27710	Md	LTE Band 30	10	14.00	13.40	0.01	0	Ant 2a	DLX2VGGPQLD	QPSK	25	12	0 mm	back	1:1	0.753	1.148	0.864	0.339	0.389
2310.00	27710	Md	LTE Band 30	10	14.00	13.25	0.00	0	Ant 2a	DLX2VGGPQLD	QPSK	50	0	0 mm	back	1:1	0.683	1.189	0.812	0.307	0.365
2310.00	27710	Md	LTE Band 30	10	11.00	10.25	-0.03	0	Ant 2a	DLX2VGGPQLD	QPSK	1	25	0 mm	back	1:1	0.366	1.189	0.435	0.168	0.200
2310.00	27710	Md	LTE Band 30	10	11.00	10.37	0.00	0	Ant 2a	DLX2VGGPQLD	QPSK	25	12	0 mm	back	1:1	0.364	1.156	0.421	0.166	0.192
2310.00	27710	Md	LTE Band 30	10	14.00	13.26	0.04	0	Ant 2a	DLX2VGGPQLD	QPSK	1	25	0 mm	top	1:1	0.024	1.186	0.028	0.011	0.013
2310.00	27710	Md	LTE Band 30	10	14.00	13.40	0.16	0	Ant 2a	DLX2VGGPQLD	QPSK	25	12	0 mm	top	1:1	0.021	1.148	0.024	0.010	0.011
2310.00	27710	Md	LTE Band 30	10	14.00	13.26	-0.03	0	Ant 2a	DLX2VGGPQLD	QPSK	1	25	0 mm	bottom	1:1	0.393	1.186	0.464	0.126	0.149
2310.00	27710	Md	LTE Band 30	10	14.00	13.40	-0.03	0	Ant 2a	DLX2VGGPQLD	QPSK	25	12	0 mm	bottom	1:1	0.382	1.148	0.439	0.123	0.141
2310.00	27710	Md	LTE Band 30	10	14.00	13.26	0.04	0	Ant 2a	DLX2VGGPQLD	QPSK	1	25	0 mm	right	1:1	0.451	1.186	0.535	0.164	0.195
2310.00	27710	Md	LTE Band 30	10	14.00	13.40	0.03	0	Ant 2a	DLX2VGGPQLD	QPSK	25	12	0 mm	right	1:1	0.435	1.148	0.499	0.160	0.184
2310.00	27710	Md	LTE Band 30	10	14.00	13.26	0.17	0	Ant 2a	DLX2VGGPQLD	QPSK	1	25	0 mm	left	1:1	0.005	1.186	0.006	0.002	0.002
2310.00	27710	Md	LTE Band 30	10	14.00	13.40	0.04	0	Ant 2a	DLX2VGGPQLD	QPSK	25									

Table 10-48
LTE Band 30 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 (Sig) [W/kg]	Scaling Factor	Reported SAR (Sig) [W/kg]	SAR (Sig) [W/kg]	Reported SAR (Sig) [W/kg]	Plot #
MHz	Ch.																				
2310.00	27710	Mtd	LTE Band 30	10	13.50	13.02	-0.02	0	Ant 4b	DLX2VGGPQLD	QPSK	1	0	0 mm	back	1:1	0.952	1.117	1.053	0.356	0.400
2310.00	27710	Mtd	LTE Band 30	10	13.50	12.99	-0.08	0	Ant 4b	DLX2VGGPQLD	QPSK	25	0	0 mm	back	1:1	0.974	1.125	1.096	0.362	0.407
2310.00	27710	Mtd	LTE Band 30	10	13.50	12.93	-0.01	0	Ant 4b	DLX2VGGPQLD	QPSK	50	0	0 mm	back	1:1	0.971	1.140	1.107	0.362	0.413
2310.00	27710	Mtd	LTE Band 30	10	10.50	10.36	-0.19	0	Ant 4b	DLX2VGGPQLD	QPSK	1	25	0 mm	back	1:1	0.473	1.033	0.489	0.179	0.185
2310.00	27710	Mtd	LTE Band 30	10	10.50	10.50	-0.11	0	Ant 4b	DLX2VGGPQLD	QPSK	25	25	0 mm	back	1:1	0.463	1.000	0.463	0.179	0.179
2310.00	27710	Mtd	LTE Band 30	10	13.50	13.02	-0.01	0	Ant 4b	DLX2VGGPQLD	QPSK	1	0	0 mm	top	1:1	0.562	1.117	0.628	0.205	0.229
2310.00	27710	Mtd	LTE Band 30	10	13.50	12.99	-0.01	0	Ant 4b	DLX2VGGPQLD	QPSK	25	0	0 mm	top	1:1	0.571	1.125	0.642	0.207	0.233
2310.00	27710	Mtd	LTE Band 30	10	13.50	13.02	-0.03	0	Ant 4b	DLX2VGGPQLD	QPSK	1	0	0 mm	bottom	1:1	0.004	1.117	0.004	0.002	0.002
2310.00	27710	Mtd	LTE Band 30	10	13.50	12.99	-0.01	0	Ant 4b	DLX2VGGPQLD	QPSK	25	0	0 mm	bottom	1:1	0.004	1.125	0.005	0.002	0.002
2310.00	27710	Mtd	LTE Band 30	10	13.50	13.02	0.14	0	Ant 4b	DLX2VGGPQLD	QPSK	1	0	0 mm	right	1:1	0.024	1.117	0.027	0.011	0.012
2310.00	27710	Mtd	LTE Band 30	10	13.50	12.99	0.08	0	Ant 4b	DLX2VGGPQLD	QPSK	25	0	0 mm	right	1:1	0.025	1.125	0.028	0.012	0.014
2310.00	27710	Mtd	LTE Band 30	10	13.50	13.02	0.12														

Table 10-61
2.4 GHz WLAN Ant 2a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dn [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate [Mbps]	Side	Duty Cycle [%]	SAR [W/kg]	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR [W/kg]	SAR [W/kg]	Reported SAR [W/kg]	Plot #
MHz	Ch.																				
2412	1	802.11b	DSSS	22	14.00	13.25	-0.02	0 mm	Ant 2A	V1	DLXN00P57T	1	back	99.9	0.953	1.109	1.011	1.102	0.429	0.516	A20
2412	1	802.11b	DSSS	22	14.00	13.13	-0.03	0 mm	Ant 2A	V2	DLXN00P57T	1	back	99.1	0.914	1.222	1.009	1.127	0.400	0.493	
2437	6	802.11b	DSSS	22	14.00	13.10	0.01	0 mm	Ant 2A	V1	DLXN00P57T	1	back	99.9	0.935	1.230	1.011	1.163	0.412	0.512	
2462	11	802.11b	DSSS	22	14.00	13.26	0.00	0 mm	Ant 2A	V1	DLXN00P57T	1	back	99.9	0.942	1.186	1.011	1.130	0.404	0.484	
2462	11	802.11b	DSSS	22	14.00	13.26	-0.01	0 mm	Ant 2A	V1	DLXN00P57T	1	top	99.9	0.022	1.186	1.011	0.026	0.009	0.011	
2462	11	802.11b	DSSS	22	14.00	13.26	-0.05	0 mm	Ant 2A	V1	DLXN00P57T	1	bottom	99.9	0.498	1.186	1.011	0.597	0.152	0.182	
2462	11	802.11b	DSSS	22	14.00	13.26	0.00	0 mm	Ant 2A	V1	DLXN00P57T	1	right	99.9	0.534	1.186	1.011	0.640	0.186	0.223	
2462	11	802.11b	DSSS	22	14.00	13.26	0.00	0 mm	Ant 2A	V1	DLXN00P57T	1	left	99.9	0.000	1.186	1.011	0.000	0.000	0.000	
2412	1	802.11b	DSSS	22	7.00	6.20	0.06	0 mm	Ant 2A	V1	DLXN00P57T	1	back	99.9	0.227	1.202	1.011	0.276	0.099	0.120	
2412	1	802.11b	DSSS	22	7.00	6.20	-0.03	0 mm	Ant 2A	V1	DLXN00P57T	1	bottom	99.9	0.105	1.202	1.011	0.128	0.021	0.038	
2412	1	802.11b	DSSS	22	7.00	6.20	0.01	0 mm	Ant 2A	V1	DLXN00P57T	1	right	99.9	0.134	1.202	1.011	0.163	0.047	0.057	
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 10-62
2.4 GHz WLAN Ant 4a Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Dn [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate [Mbps]	Side	Duty Cycle (%)	SAR [W/kg]	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR [W/kg]	SAR [W/kg]	Reported SAR [W/kg]	Plot #
MHz	Ch.																				
2412	1	802.11b	DSSS	22	13.75	12.81	-0.04	0 mm	Ant 4A	V1	DLXN00LP57T	1	back	99.9	0.875	1.242	1.011	1.099	0.389	0.488	
2437	6	802.11b	DSSS	22	13.75	12.94	0.00	0 mm	Ant 4A	V1	DLXN00LP57T	1	back	99.9	0.894	1.205	1.011	1.138	0.408	0.497	
2462	11	802.11b	DSSS	22	13.75	12.85	0.06	0 mm	Ant 4A	V1	DLXN00LP57T	1	back	99.9	0.926	1.230	1.011	1.152	0.395	0.491	
2462	11	802.11b	DSSS	22	13.75	12.76	-0.02	0 mm	Ant 4A	V2	DLXN01BP57R	1	back	99.1	0.880	1.256	1.009	1.115	0.378	0.479	
2437	6	802.11b	DSSS	22	13.75	12.94	-0.04	0 mm	Ant 4A	V1	DLXN00LP57T	1	top	99.9	0.442	1.205	1.011	0.538	0.136	0.164	
2437	6	802.11b	DSSS	22	13.75	12.94	0.14	0 mm	Ant 4A	V1	DLXN00LP57T	1	bottom	99.9	0.018	1.205	1.011	0.022	0.007	0.009	
2437	6	802.11b	DSSS	22	13.75	12.94	0.06	0 mm	Ant 4A	V1	DLXN00LP57T	1	right	99.9	0.000	1.205	1.011	0.000	0.000	0.000	
2437	6	802.11b	DSSS	22	13.75	12.94	0.00	0 mm	Ant 4A	V1	DLXN00LP57T	1	left	99.9	0.605	1.205	1.011	0.798	0.233	0.284	
2462	11	802.11b	DSSS	22	6.75	5.94	0.07	0 mm	Ant 4A	V1	DLXN00LP57T	1	back	99.9	0.184	1.205	1.011	0.224	0.078	0.095	
2462	11	802.11b	DSSS	22	6.75	5.94	-0.06	0 mm	Ant 4A	V1	DLXN00LP57T	1	top	99.9	0.086	1.205	1.011	0.105	0.025	0.030	
2462	11	802.11b	DSSS	22	6.75	5.94	0.04	0 mm	Ant 4A	V1	DLXN00LP57T	1	left	99.9	0.112	1.205	1.011	0.136	0.038	0.046	
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 10-65
Bluetooth Ant 2a Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Maximum Allowed Power (dBm)	Conducted Power (dBm)	Power DBr (dB)	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (Sg) (W/kg)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (Sg) (W/kg)	SAR (Sg) (W/kg)	Reported SAR (Sg) (W/kg)	Plot
MHz	Ch.																			
2402	0	Bluetooth	FHSS	14.5	14.24	0.01	0 mm	Ant 2a	V2	DLX2V011PQLD	1	back	76.8	0.869	1.062	1.009	0.923	0.384	0.408	
2441	39	Bluetooth	FHSS	14.5	14.19	0.02	0 mm	Ant 2a	V2	DLX2V011PQLD	1	back	76.8	0.843	1.074	1.009	0.905	0.358	0.384	
2480	78	Bluetooth	FHSS	14.5	14.05	0.02	0 mm	Ant 2a	V2	DLX2V011PQLD	1	back	76.8	0.906	1.109	1.009	1.005	0.382	0.424	A22
2480	78	Bluetooth	FHSS	14.5	14.25	0.01	0 mm	Ant 2a	V1	DLX2N00LP57T	1	back	76.8	0.778	1.059	1.009	0.824	0.337	0.357	
2402	0	Bluetooth	FHSS	14.5	14.24	0.03	0 mm	Ant 2a	V2	DLX2V011PQLD	1	top	76.8	0.018	1.062	1.009	0.019	0.009	0.010	
2402	0	Bluetooth	FHSS	14.5	14.24	0.02	0 mm	Ant 2a	V2	DLX2V011PQLD	1	bottom	76.8	0.449	1.062	1.009	0.477	0.141	0.150	
2402	0	Bluetooth	FHSS	14.5	14.24	0.12	0 mm	Ant 2a	V2	DLX2V011PQLD	1	right	76.8	0.553	1.062	1.009	0.587	0.197	0.209	
2402	0	Bluetooth	FHSS	14.5	14.24	0.09	0 mm	Ant 2a	V2	DLX2V011PQLD	1	left	76.8	0.004	1.062	1.009	0.004	0.002	0.002	
2441	39	Bluetooth	FHSS	11.5	11.32	0.01	0 mm	Ant 2a	V2	DLX2V011PQLD	1	back	76.8	0.469	1.042	1.009	0.489	0.197	0.205	
2441	39	Bluetooth	FHSS	11.5	11.32	-0.09	0 mm	Ant 2a	V2	DLX2V011PQLD	1	bottom	76.8	0.290	1.042	1.009	0.271	0.076	0.079	
2441	39	Bluetooth	FHSS	11.5	11.32	0.01	0 mm	Ant 2a	V2	DLX2V011PQLD	1	right	76.8	0.254	1.042	1.009	0.265	0.087	0.091	
2402	0	Bluetooth	FHSS	7.5	7.25	-0.01	0 mm	Ant 2a	V2	DLX2V011PQLD	1	back	76.8	0.171	1.059	1.009	0.181	0.074	0.078	
2402	0	Bluetooth	FHSS	7.5	7.25	-0.02	0 mm	Ant 2a	V2	DLX2V011PQLD	1	bottom	76.8	0.085	1.059	1.009	0.090	0.027	0.029	
2402	0	Bluetooth	FHSS	7.5	7.25	0.14	0 mm	Ant 2a	V2	DLX2V011PQLD	1	right	76.8	0.098	1.059	1.009	0.104	0.035	0.037	
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: 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.

Table 10-66
Bluetooth Ant 4a 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 (W/kg)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot
MHz	Ch.																			
2402	0	Bluetooth	FHSS	15.0	14.57	0.01	0 mm	Ant 4a	V1	DLX2N00LP57T	1	back	76.9	0.770	1.104	1.008	0.850	0.339	0.374	
2441	39	Bluetooth	FHSS	15.0	13.85	0.07	0 mm	Ant 4a	V1	DLX2N00LP57T	1	back	76.9	0.834	1.303	1.008	1.087	0.360	0.469	
2441	39	Bluetooth	FHSS	15.0	14.70	0.09	0 mm	Ant 4a	V2	DLX2V011PQLD	1	back	77.1	0.833	1.072	1.005	0.893	0.354	0.379	
2480	78	Bluetooth	FHSS	15.0	14.77	-0.08	0 mm	Ant 4a	V1	DLX2N00LP57T	1	back	76.9	0.883	1.054	1.008	0.931	0.376	0.396	
2480	78	Bluetooth	FHSS	15.0	14.77	0.05	0 mm	Ant 4a	V1	DLX2N00LP57T	1	top	76.9	0.432	1.054	1.008	0.455	0.132	0.139	
2480	78	Bluetooth	FHSS	15.0	14.77	0.07	0 mm	Ant 4a	V1	DLX2N00LP57T	1	bottom	76.9	0.024	1.054	1.008	0.025	0.011	0.012	
2480	78	Bluetooth	FHSS	15.0	14.77	0.05	0 mm	Ant 4a	V1	DLX2N00LP57T	1	right	76.9	0.002	1.054	1.008	0.002	0.001	0.001	
2480	78	Bluetooth	FHSS	15.0	14.77	0.00	0 mm	Ant 4a	V1	DLX2N00LP57T	1	left	76.9	0.568	1.054	1.008	0.599	0.196	0.207	
2480	78	Bluetooth	FHSS	8.0	7.96	0.03	0 mm	Ant 4a	V1	DLX2N00LP57T	1	back	76.9	0.227	1.009	1.008	0.229	0.093	0.094	
2480	78	Bluetooth	FHSS	8.0	7.96	0.04	0 mm	Ant 4a	V1	DLX2N00LP57T	1	top	76.9	0.105	1.009	1.008	0.106	0.031	0.031	
2480	78	Bluetooth	FHSS	8.0	7.96	0.07	0 mm	Ant 4a	V1	DLX2N00LP57T	1	left	76.9	0.131	1.009	1.008	0.132	0.045	0.045	
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.

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.

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- 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.

UMTS Notes:

- 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.
- 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:

- 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.
- 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.
- 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).
- Per FCC KDB Publication 447498 D01v06, when the reported LTE Band 41 and 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.
- 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.
- 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.
- 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.

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8. For intra-band ULCA 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.

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	1.001	1.182	1.152	1.182*	1.182*	1.182*
	Top	0.052	0.026	0.538	0.078	0.590	0.616
	Bottom	0.771	0.597	0.022	1.368	0.793	1.390
	Right	0.015	0.640	0.000	0.655	0.015	0.655
	Left	1.189	0.000	0.798	1.189	1.189*	1.189*

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	1.187	0.276	1.152	1.463	1.187*	1.463*
	Top	0.028	0.026	0.538	0.054	0.566	0.592
	Bottom	0.533	0.128	0.022	0.661	0.555	0.683
	Right	1.041	0.163	0.000	1.204	1.041	1.204
	Left	0.006	0.000	0.798	0.006	0.804	0.804

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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	1.168	0.276	1.152	1.444	1.168*	1.444*
	Top	0.006	0.026	0.538	0.032	0.544	0.570
	Bottom	0.713	0.128	0.022	0.841	0.735	0.863
	Right	0.073	0.163	0.000	0.236	0.073	0.236
	Left	0.028	0.000	0.798	0.028	0.826	0.826

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	1.188	1.182	1.152	1.188*	1.188*	1.188*
	Top	0.937	0.026	0.538	0.963	1.475	1.501
	Bottom	0.043	0.597	0.022	0.640	0.065	0.662
	Right	1.189	0.640	0.000	1.189*	1.189	1.189*
	Left	0.011	0.000	0.798	0.011	0.809	0.809

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	1.189	1.182	0.224	1.189*	1.413	1.413*
	Top	0.465	0.026	0.105	0.491	0.570	0.596
	Bottom	0.023	0.597	0.022	0.620	0.045	0.642
	Right	0.003	0.640	0.000	0.643	0.003	0.643
	Left	1.021	0.000	0.136	1.021	1.157	1.157

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	1.187	1.182	0.224	1.187*	1.411	1.411*
	Top	0.682	0.026	0.105	0.708	0.787	0.813
	Bottom	0.005	0.597	0.022	0.602	0.027	0.624
	Right	0.028	0.640	0.000	0.668	0.028	0.668
	Left	0.049	0.000	0.136	0.049	0.185	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)	5 GHz WLAN Ant 5 GHz ANTlower SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.001	0.130	0.102	1.131	1.103	1.233
	Top	0.052	0.006	0.004	0.058	0.056	0.062
	Bottom	0.771	0.009	0.005	0.780	0.776	0.785
	Right	0.015	1.078	1.183	1.093	1.198	1.198*
	Left	1.189	0.010	0.017	1.199	1.206	1.216

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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)	5 GHz WLAN Ant 5 GHz ANTlower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.187	0.090	0.102	1.277	1.289	1.379
	Top	0.028	0.006	0.004	0.034	0.032	0.038
	Bottom	0.533	0.009	0.005	0.542	0.538	0.547
	Right	1.041	0.352	1.183	1.393	1.183*	1.393*
	Left	0.006	0.010	0.017	0.016	0.023	0.033

Table 11-9
Cellular Band Ant 2b Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 2b SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTlower SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.168	0.130	0.102	1.298	1.270	1.400
	Top	0.006	0.006	0.004	0.012	0.010	0.016
	Bottom	0.713	0.009	0.005	0.722	0.718	0.727
	Right	0.073	1.078	1.183	1.151	1.256	1.256*
	Left	0.028	0.010	0.017	0.038	0.045	0.055

Table 11-10
Cellular Band Ant 3 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 3 SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTlower SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	0.130	0.102	1.318	1.290	1.420
	Top	0.937	0.006	0.004	0.943	0.941	0.947
	Bottom	0.043	0.009	0.005	0.052	0.048	0.057
	Right	1.189	1.078	0.331	1.189*	1.520	1.520*
	Left	0.011	0.010	0.017	0.021	0.028	0.038

Table 11-11
Cellular Band Ant 4a Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 4a SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTlower SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.189	0.130	0.102	1.319	1.291	1.421
	Top	0.465	0.006	0.004	0.471	0.469	0.475
	Bottom	0.023	0.009	0.005	0.032	0.028	0.037
	Right	0.003	1.078	1.183	1.081	1.186	1.186*
	Left	1.021	0.010	0.017	1.031	1.038	1.048

Table 11-12
Cellular Band Ant 4b Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Antenna 4b SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTlower SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.187	0.130	0.102	1.317	1.289	1.419
	Top	0.682	0.006	0.004	0.688	0.686	0.692
	Bottom	0.005	0.009	0.005	0.014	0.010	0.019
	Right	0.028	1.078	1.183	1.106	1.211	1.211*
	Left	0.049	0.010	0.017	0.059	0.066	0.076

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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	1.001	0.181	1.087	1.182	1.087*	1.087*
	Top	0.052	0.019	0.455	0.071	0.507	0.526
	Bottom	0.771	0.090	0.025	0.861	0.796	0.886
	Right	0.015	0.104	0.002	0.119	0.017	0.121
	Left	1.189	0.004	0.599	1.193	1.189*	1.193*

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	1.187	0.181	1.087	1.368	1.187*	1.368*
	Top	0.028	0.019	0.455	0.047	0.483	0.502
	Bottom	0.533	0.090	0.025	0.623	0.558	0.648
	Right	1.041	0.104	0.002	1.145	1.043	1.147
	Left	0.006	0.004	0.599	0.010	0.605	0.609

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	1.168	0.181	1.087	1.349	1.168*	1.349*
	Top	0.006	0.019	0.455	0.025	0.461	0.480
	Bottom	0.713	0.090	0.025	0.803	0.738	0.828
	Right	0.073	0.104	0.002	0.177	0.075	0.179
	Left	0.028	0.004	0.599	0.032	0.627	0.631

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	1.188	1.005	0.229	1.188*	1.417	1.188*
	Top	0.937	0.019	0.106	0.956	1.043	1.062
	Bottom	0.043	0.477	0.025	0.520	0.068	0.545
	Right	1.189	0.587	0.002	1.189*	1.191	1.191*
	Left	0.011	0.004	0.132	0.015	0.143	0.147

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	1.189	1.005	0.229	1.189*	1.418	1.418*
	Top	0.465	0.019	0.106	0.484	0.571	0.590
	Bottom	0.023	0.477	0.025	0.500	0.048	0.525
	Right	0.003	0.587	0.002	0.590	0.005	0.592
	Left	1.021	0.004	0.132	1.025	1.153	1.157

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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	1.187	1.005	0.229	1.187*	1.416	1.416*
	Top	0.682	0.019	0.106	0.701	0.788	0.807
	Bottom	0.005	0.477	0.025	0.482	0.030	0.507
	Right	0.028	0.587	0.002	0.615	0.030	0.617
	Left	0.049	0.004	0.132	0.053	0.181	0.185

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)	5 GHz WLAN Ant 5 GHz ANTlower SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.001	0.181	1.087	0.130	0.102	1.233*
	Top	0.052	0.019	0.455	0.006	0.004	0.536
	Bottom	0.771	0.090	0.025	0.009	0.005	0.900
	Right	0.015	0.104	0.002	1.078	1.183	1.200*
	Left	1.189	0.004	0.599	0.010	0.017	1.220*

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)	5 GHz WLAN Ant 5 GHz ANTlower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.187	0.181	1.087	0.090	0.102	1.560*
	Top	0.028	0.019	0.455	0.006	0.004	0.512
	Bottom	0.533	0.090	0.025	0.009	0.005	0.662
	Right	1.041	0.104	0.002	0.352	1.183	1.499*
	Left	0.006	0.004	0.599	0.010	0.017	0.636

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)	5 GHz WLAN Ant 5 GHz ANTlower SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.168	0.181	1.087	0.130	0.102	1.581*
	Top	0.006	0.019	0.455	0.006	0.004	0.490
	Bottom	0.713	0.090	0.025	0.009	0.005	0.842
	Right	0.073	0.104	0.002	1.078	1.183	1.258*
	Left	0.028	0.004	0.599	0.010	0.017	0.658

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)	5 GHz WLAN Ant 5 GHz ANTlower SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTupper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.188	0.489	0.229	0.130	0.102	1.420*
	Top	0.937	0.019	0.106	0.006	0.004	1.072
	Bottom	0.043	0.271	0.025	0.009	0.005	0.353
	Right	1.189	0.265	0.002	1.078	0.331	1.522*
	Left	0.011	0.004	0.132	0.010	0.017	0.174

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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)	5 GHz WLAN Ant 5 GHz ANTlower SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.189	0.489	0.229	0.130	0.102	1.520*
	Top	0.465	0.019	0.106	0.006	0.004	0.600
	Bottom	0.023	0.271	0.025	0.009	0.005	0.333
	Right	0.003	0.265	0.002	1.078	1.183	1.348*
	Left	1.021	0.004	0.132	0.010	0.017	1.184

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)	5 GHz WLAN Ant 5 GHz ANTlower SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTupper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	1.187	0.489	0.229	0.130	0.102	1.518*
	Top	0.682	0.019	0.106	0.006	0.004	0.817
	Bottom	0.005	0.271	0.025	0.009	0.005	0.315
	Right	0.028	0.265	0.002	1.078	1.183	1.373*
	Left	0.049	0.004	0.132	0.010	0.017	0.212

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	0.720	0.476	0.276	0.224	1.472	1.420	0.752*
	Top	0.044	0.028	0.026	0.105	0.098	0.177	0.203
	Bottom	0.600	0.533	0.128	0.022	1.261	1.155	1.283
	Right	0.011	0.784	0.163	0.000	0.958	0.795	0.958
	Left	0.741	0.006	0.000	0.136	0.747	0.883	0.883

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	0.720	0.571	0.276	0.224	1.567	1.515	0.795*
	Top	0.044	0.465	0.026	0.105	0.535	0.614	0.640
	Bottom	0.600	0.023	0.128	0.022	0.751	0.645	0.773
	Right	0.011	0.003	0.163	0.000	0.177	0.014	0.177
	Left	0.741	0.492	0.000	0.136	1.233	1.369	1.369

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	0.720	0.609	0.276	0.224	0.720*	1.553	0.833*
	Top	0.044	0.682	0.026	0.105	0.752	0.831	0.857
	Bottom	0.600	0.005	0.128	0.022	0.733	0.627	0.755
	Right	0.011	0.028	0.163	0.000	0.202	0.039	0.202
	Left	0.741	0.049	0.000	0.136	0.790	0.926	0.926

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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	0.476	0.515	0.276	0.224	1.267	1.215	1.491
	Top	0.028	0.738	0.026	0.105	0.792	0.871	0.897
	Bottom	0.533	0.040	0.128	0.022	0.701	0.595	0.723
	Right	0.784	0.798	0.163	0.000	0.947*	1.582	0.947*
	Left	0.006	0.006	0.000	0.136	0.012	0.148	0.148

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	0.551	0.515	0.276	0.224	1.342	1.290	1.566
	Top	0.006	0.738	0.026	0.105	0.770	0.849	0.875
	Bottom	0.663	0.040	0.128	0.022	0.831	0.725	0.853
	Right	0.073	0.798	0.163	0.000	1.034	0.871	1.034
	Left	0.028	0.006	0.000	0.136	0.034	0.170	0.170

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	0.515	0.571	0.276	0.224	1.362	1.310	1.586
	Top	0.738	0.465	0.026	0.105	1.229	1.308	1.334
	Bottom	0.040	0.023	0.128	0.022	0.191	0.085	0.213
	Right	0.798	0.003	0.163	0.000	0.964	0.801	0.964
	Left	0.006	0.492	0.000	0.136	0.498	0.634	0.634

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)	5 GHz WLAN Ant 5 GHz ANTLower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz 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	0.720	0.476	0.090	0.102	1.286	1.298	1.388
	Top	0.044	0.028	0.006	0.004	0.078	0.076	0.082
	Bottom	0.600	0.533	0.009	0.005	1.142	1.138	1.147
	Right	0.011	0.784	0.352	0.331	1.147	1.126	1.478
	Left	0.741	0.006	0.010	0.017	0.757	0.764	0.774

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)	5 GHz WLAN Ant 5 GHz ANTLower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz 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	0.720	0.571	0.090	0.102	1.381	1.393	1.483
	Top	0.044	0.465	0.006	0.004	0.515	0.513	0.519
	Bottom	0.600	0.023	0.009	0.005	0.632	0.628	0.637
	Right	0.011	0.003	0.352	0.331	0.366	0.345	0.697
	Left	0.741	0.492	0.010	0.017	1.243	1.250	1.260

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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)	5 GHz WLAN Ant 5 GHz ANTower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz 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	0.720	0.609	0.090	0.102	1.419	1.431	1.521
	Top	0.044	0.682	0.006	0.004	0.732	0.730	0.736
	Bottom	0.600	0.005	0.009	0.005	0.614	0.610	0.619
	Right	0.011	0.028	0.352	0.331	0.391	0.370	0.722
	Left	0.741	0.049	0.010	0.017	0.800	0.807	0.817

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)	5 GHz WLAN Ant 5 GHz ANTower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz 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	0.476	0.515	0.090	0.102	1.081	1.093	1.183
	Top	0.028	0.738	0.006	0.004	0.772	0.770	0.776
	Bottom	0.533	0.040	0.009	0.005	0.582	0.578	0.587
	Right	0.784	0.798	0.352	0.331	1.136*	1.129*	1.136*
	Left	0.006	0.006	0.010	0.017	0.022	0.029	0.039

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)	5 GHz WLAN Ant 5 GHz ANTower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz 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	0.551	0.515	0.090	0.102	1.156	1.168	1.258
	Top	0.006	0.738	0.006	0.004	0.750	0.748	0.754
	Bottom	0.663	0.040	0.009	0.005	0.712	0.708	0.717
	Right	0.073	0.798	0.352	0.331	1.223	1.202	1.554
	Left	0.028	0.006	0.010	0.017	0.044	0.051	0.061

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)	5 GHz WLAN Ant 5 GHz ANTower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz 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	0.515	0.571	0.090	0.102	1.176	1.188	1.278
	Top	0.738	0.465	0.006	0.004	1.209	1.207	1.213
	Bottom	0.040	0.023	0.009	0.005	0.072	0.068	0.077
	Right	0.798	0.003	0.352	0.331	1.153	1.132	1.484
	Left	0.006	0.492	0.010	0.017	0.508	0.515	0.525

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	0.720	0.476	0.181	0.229	1.377	1.425	0.720*
	Top	0.044	0.028	0.019	0.106	0.091	0.178	0.197
	Bottom	0.600	0.533	0.090	0.025	1.223	1.158	1.248
	Right	0.011	0.784	0.104	0.002	0.899	0.797	0.901
	Left	0.741	0.006	0.004	0.132	0.751	0.879	0.883

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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	0.720	0.571	0.181	0.229	1.472	1.520	0.800*
	Top	0.044	0.465	0.019	0.106	0.528	0.615	0.634
	Bottom	0.600	0.023	0.090	0.025	0.713	0.648	0.738
	Right	0.011	0.003	0.104	0.002	0.118	0.016	0.120
	Left	0.741	0.492	0.004	0.132	1.237	1.365	1.369

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	0.720	0.609	0.181	0.229	1.510	1.558	0.838*
	Top	0.044	0.682	0.019	0.106	0.745	0.832	0.851
	Bottom	0.600	0.005	0.090	0.025	0.695	0.630	0.720
	Right	0.011	0.028	0.104	0.002	0.143	0.041	0.145
	Left	0.741	0.049	0.004	0.132	0.794	0.922	0.926

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	0.476	0.515	0.181	0.229	1.172	1.220	1.401
	Top	0.028	0.738	0.019	0.106	0.785	0.872	0.891
	Bottom	0.533	0.040	0.090	0.025	0.663	0.598	0.688
	Right	0.784	0.798	0.104	0.002	0.888*	1.584	0.890*
	Left	0.006	0.006	0.004	0.132	0.016	0.144	0.148

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	0.551	0.515	0.181	0.229	1.247	1.295	1.476
	Top	0.006	0.738	0.019	0.106	0.763	0.850	0.869
	Bottom	0.663	0.040	0.090	0.025	0.793	0.728	0.818
	Right	0.073	0.798	0.104	0.002	0.975	0.873	0.977
	Left	0.028	0.006	0.004	0.132	0.038	0.166	0.170

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	0.515	0.571	0.181	0.229	1.267	1.315	1.496
	Top	0.738	0.465	0.019	0.106	1.222	1.309	1.328
	Bottom	0.040	0.023	0.090	0.025	0.153	0.088	0.178
	Right	0.798	0.003	0.104	0.002	0.905	0.803	0.907
	Left	0.006	0.492	0.004	0.132	0.502	0.630	0.634

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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)	5 GHz WLAN Ant 5 GHz ANTLower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTUpper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.720	0.476	0.181	0.229	0.090	0.102	0.912*
	Top	0.044	0.028	0.019	0.106	0.006	0.004	0.207
	Bottom	0.600	0.533	0.090	0.025	0.009	0.005	1.262
	Right	0.011	0.784	0.104	0.002	0.352	0.331	1.584
	Left	0.741	0.006	0.004	0.132	0.010	0.017	0.910

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)	5 GHz WLAN Ant 5 GHz ANTLower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTUpper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.720	0.571	0.181	0.229	0.090	0.102	0.912*
	Top	0.044	0.465	0.019	0.106	0.006	0.004	0.644
	Bottom	0.600	0.023	0.090	0.025	0.009	0.005	0.752
	Right	0.011	0.003	0.104	0.002	0.352	0.331	0.803
	Left	0.741	0.492	0.004	0.132	0.010	0.017	1.396

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)	5 GHz WLAN Ant 5 GHz ANTLower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTUpper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.720	0.609	0.181	0.229	0.090	0.102	0.940*
	Top	0.044	0.682	0.019	0.106	0.006	0.004	0.861
	Bottom	0.600	0.005	0.090	0.025	0.009	0.005	0.734
	Right	0.011	0.028	0.104	0.002	0.352	0.331	0.828
	Left	0.741	0.049	0.004	0.132	0.010	0.017	0.953

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)	5 GHz WLAN Ant 5 GHz ANTLower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTUpper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.476	0.515	0.181	0.229	0.090	0.102	1.593
	Top	0.028	0.738	0.019	0.106	0.006	0.004	0.901
	Bottom	0.533	0.040	0.090	0.025	0.009	0.005	0.702
	Right	0.784	0.798	0.104	0.002	0.352	0.331	1.242*
	Left	0.006	0.006	0.004	0.132	0.010	0.017	0.175

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 Backoff SAR (W/kg)	Cellular Band Antenna 3 Backoff SAR (W/kg)	Bluetooth Ant 2a at 7.5 dBm SAR (W/kg)	Bluetooth Ant 4a at 8 dBm SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTLower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTUpper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.551	0.515	0.181	0.229	0.090	0.102	1.258*
	Top	0.006	0.738	0.019	0.106	0.006	0.004	0.879
	Bottom	0.663	0.040	0.090	0.025	0.009	0.005	0.832
	Right	0.073	0.798	0.104	0.002	0.352	0.331	1.204*
	Left	0.028	0.006	0.004	0.132	0.010	0.017	0.197

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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)	5 GHz WLAN Ant 5 GHz ANTLower Reduced SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTUpper Reduced SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.515	0.571	0.181	0.229	0.090	0.102	0.902*
	Top	0.738	0.465	0.019	0.106	0.006	0.004	1.338
	Bottom	0.040	0.023	0.090	0.025	0.009	0.005	0.192
	Right	0.798	0.003	0.104	0.002	0.352	0.331	1.590
	Left	0.006	0.492	0.004	0.132	0.010	0.017	0.661

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)	5 GHz WLAN Ant 5 GHz ANTLower SAR (W/kg)	5 GHz WLAN Ant 5 GHz ANTUpper SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.489	1.087	0.130	0.102	1.189*
	Top	0.019	0.455	0.006	0.004	0.484
	Bottom	0.271	0.025	0.009	0.005	0.310
	Right	0.265	0.002	1.078	1.183	1.345*
	Left	0.004	0.599	0.010	0.017	0.630

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	1.005	1.087	1.087*
	Top	0.019	0.455	0.474
	Bottom	0.477	0.025	0.502
	Right	0.587	0.002	0.589
	Left	0.004	0.599	0.603

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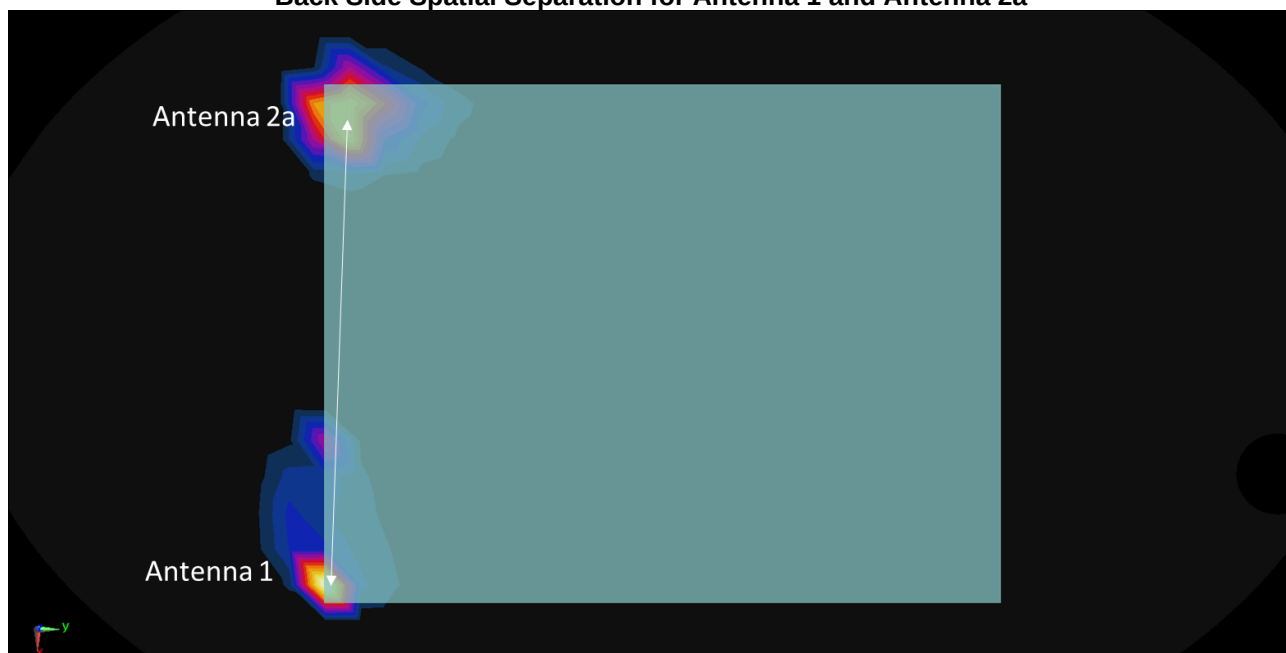
11.4 Spatial Separation Analysis

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



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Figure 11-2
Back Side Spatial Separation for Antenna 1 and Antenna 4a

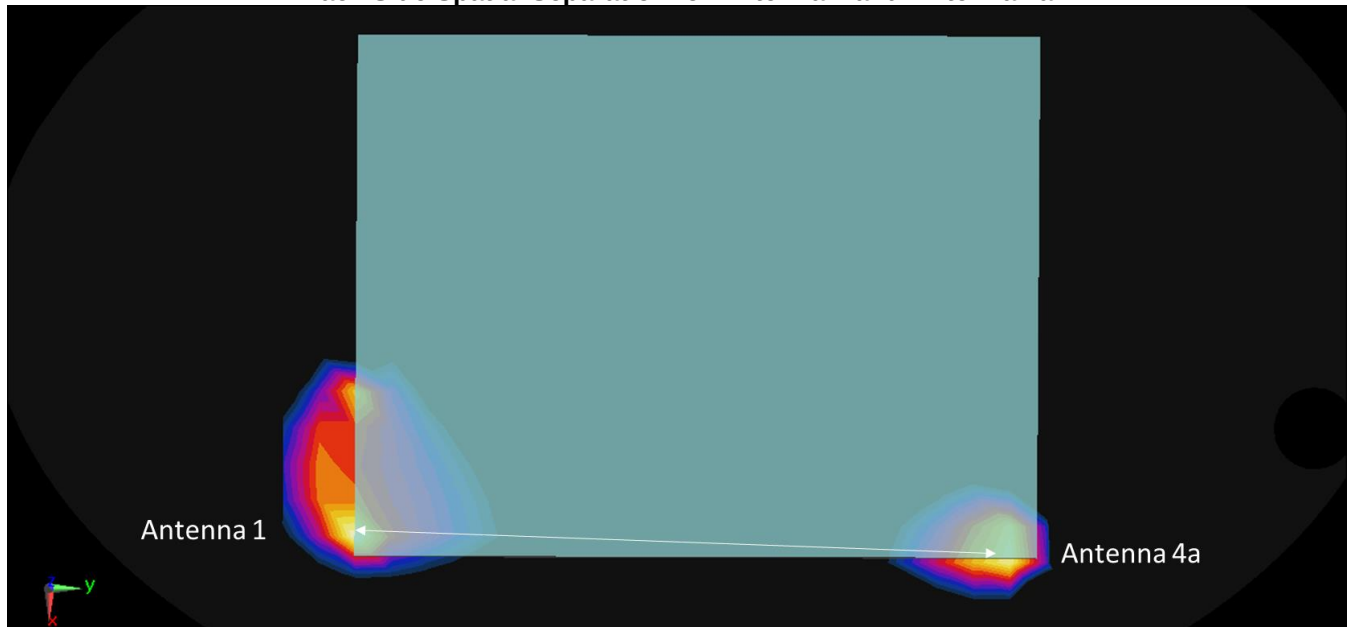
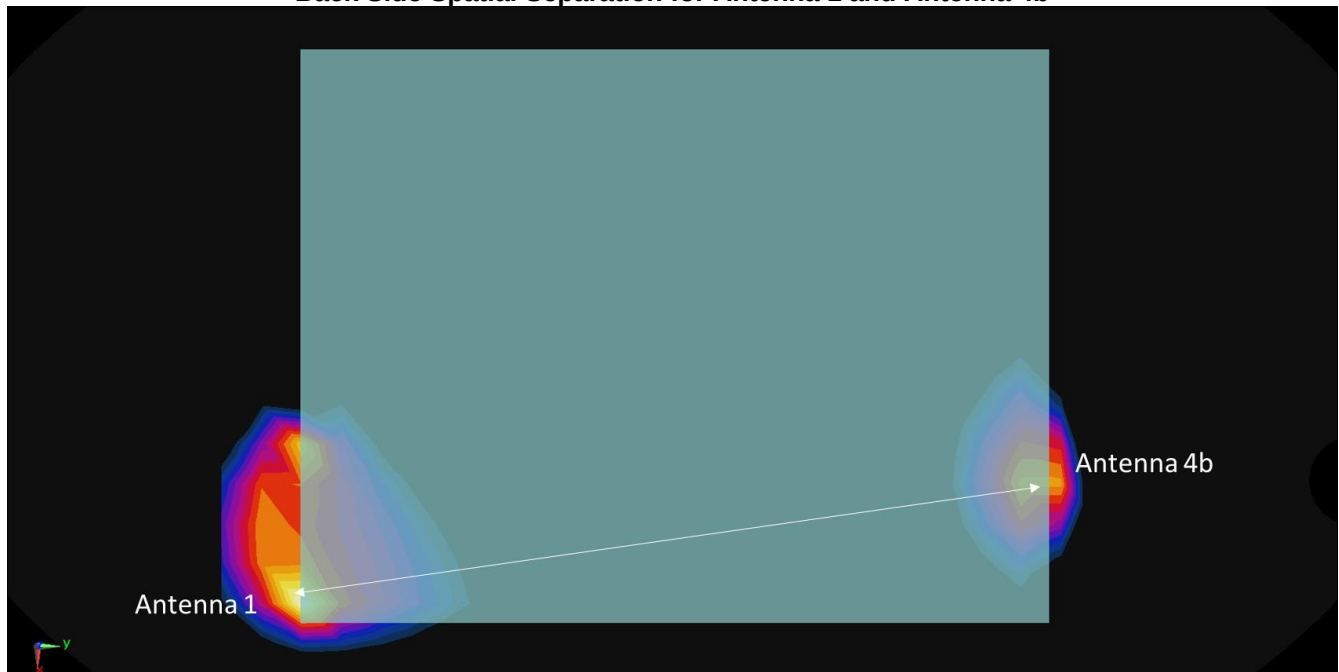


Figure 11-3
Back Side Spatial Separation for Antenna 1 and Antenna 4b



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Figure 11-4
Back Side Spatial Separation for Antenna 2a and Antenna 4a

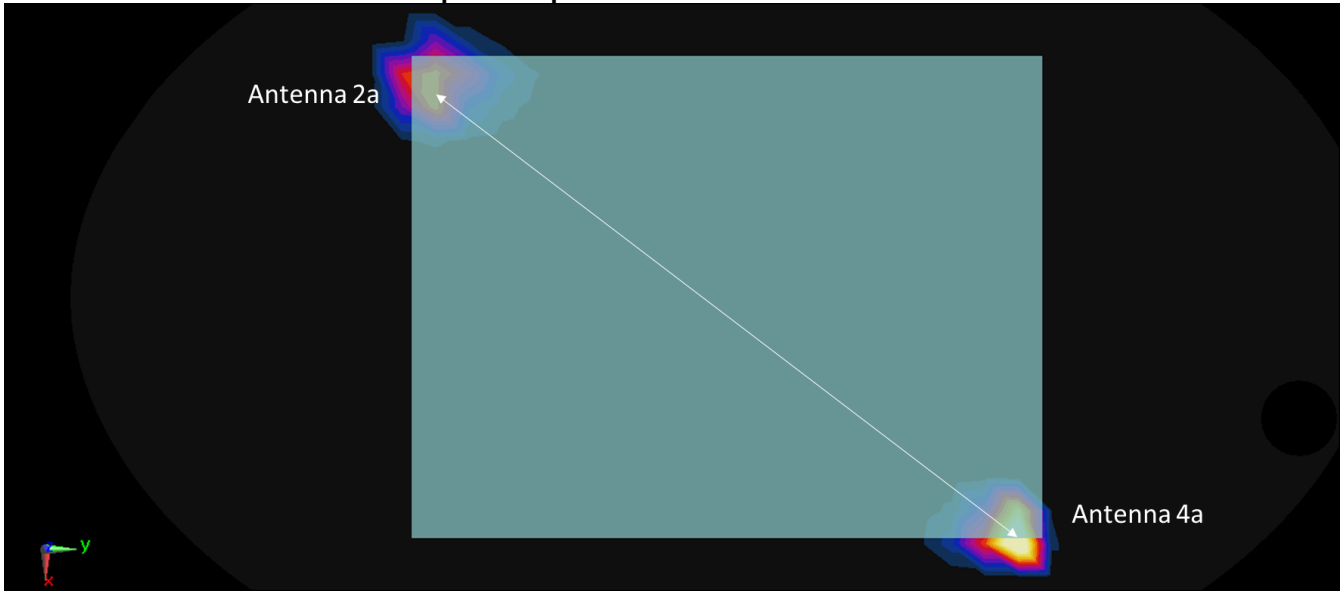
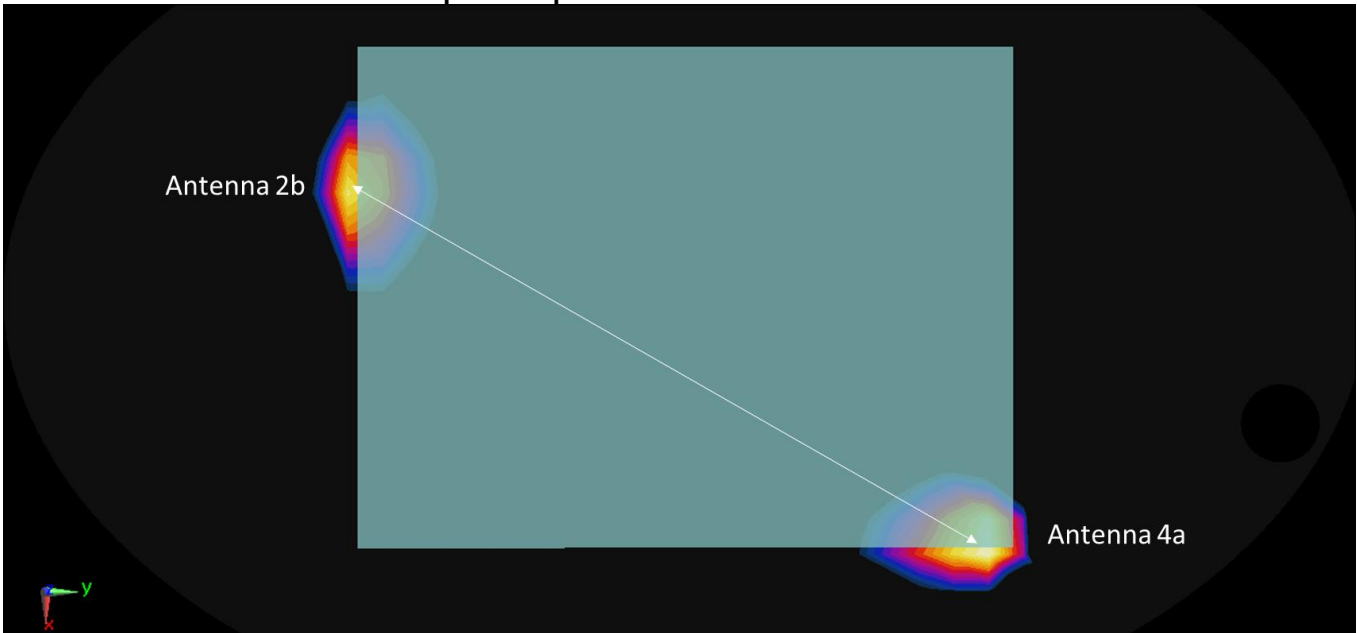


Figure 11-5
Back Side Spatial Separation for Antenna 2b and Antenna 4a



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Figure 11-6
Back Side Spatial Separation for Antenna 2a and Antenna 3

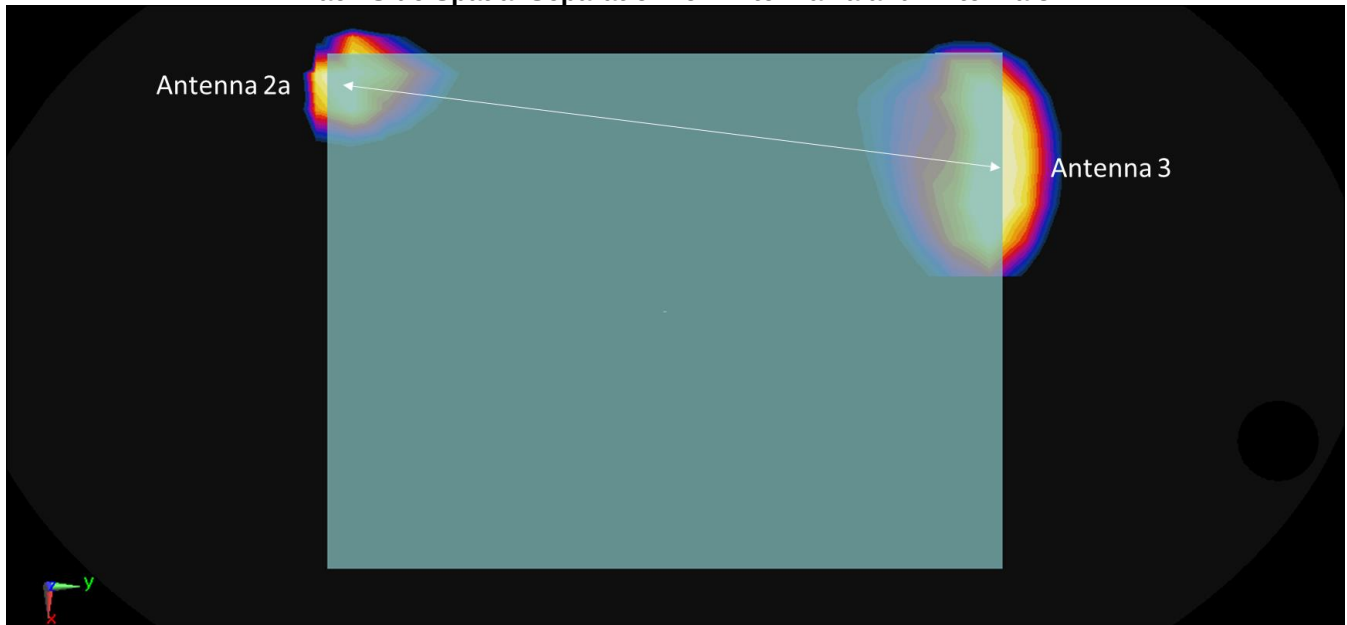
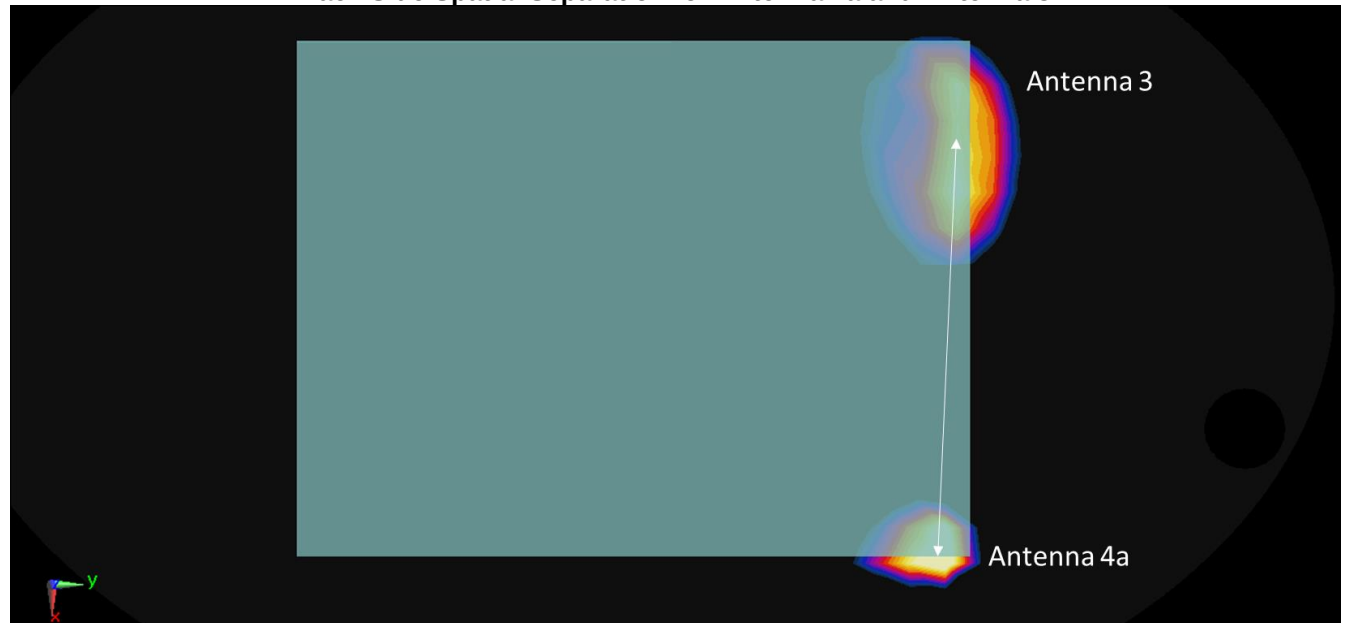


Figure 11-7
Back Side Spatial Separation for Antenna 4a and Antenna 3



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Figure 11-8
Back Side Spatial Separation for Antenna 4b and Antenna 2a

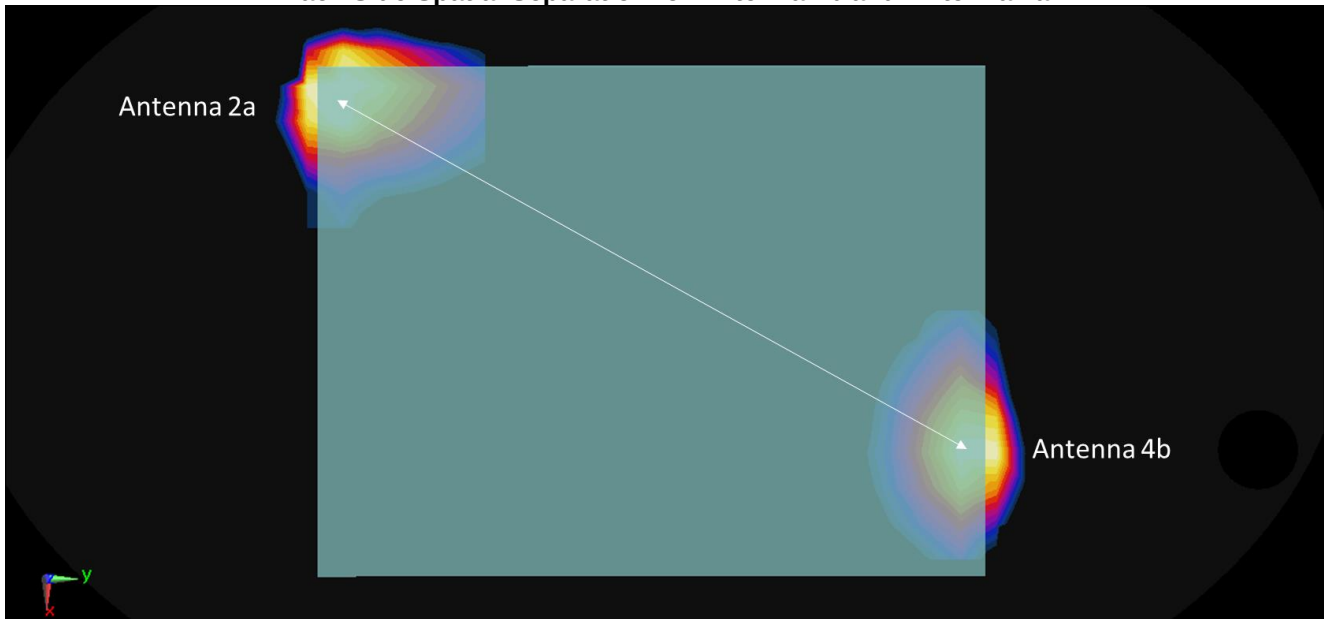
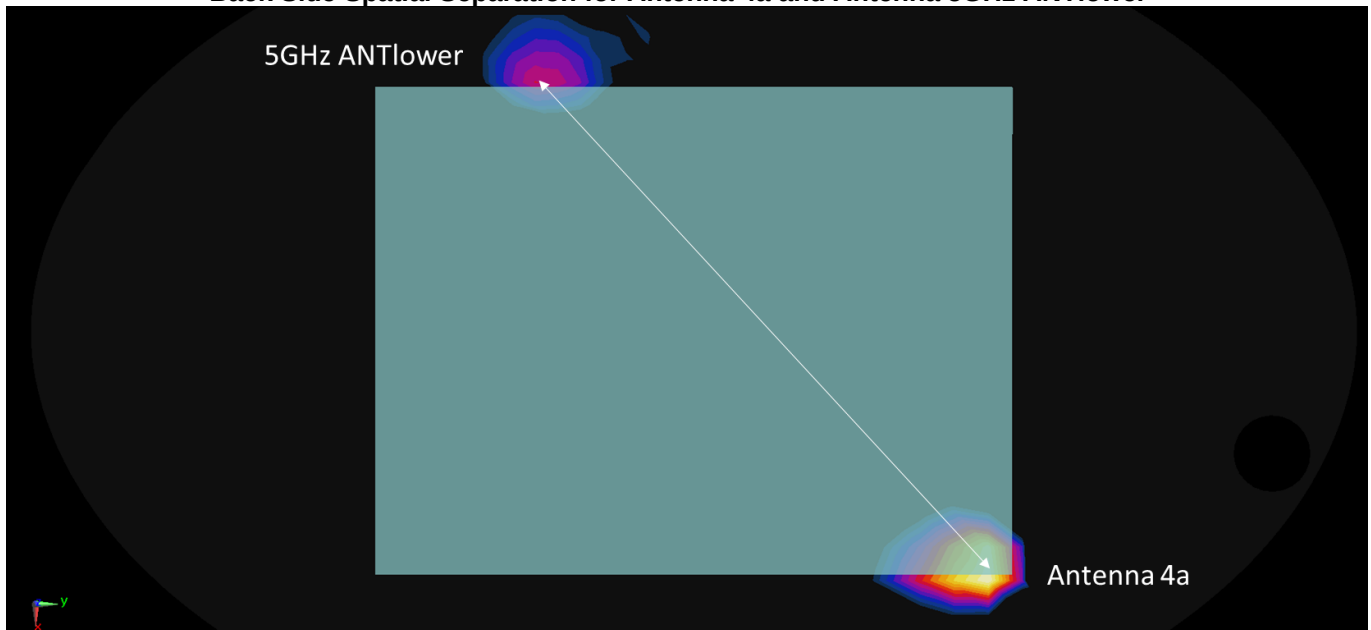
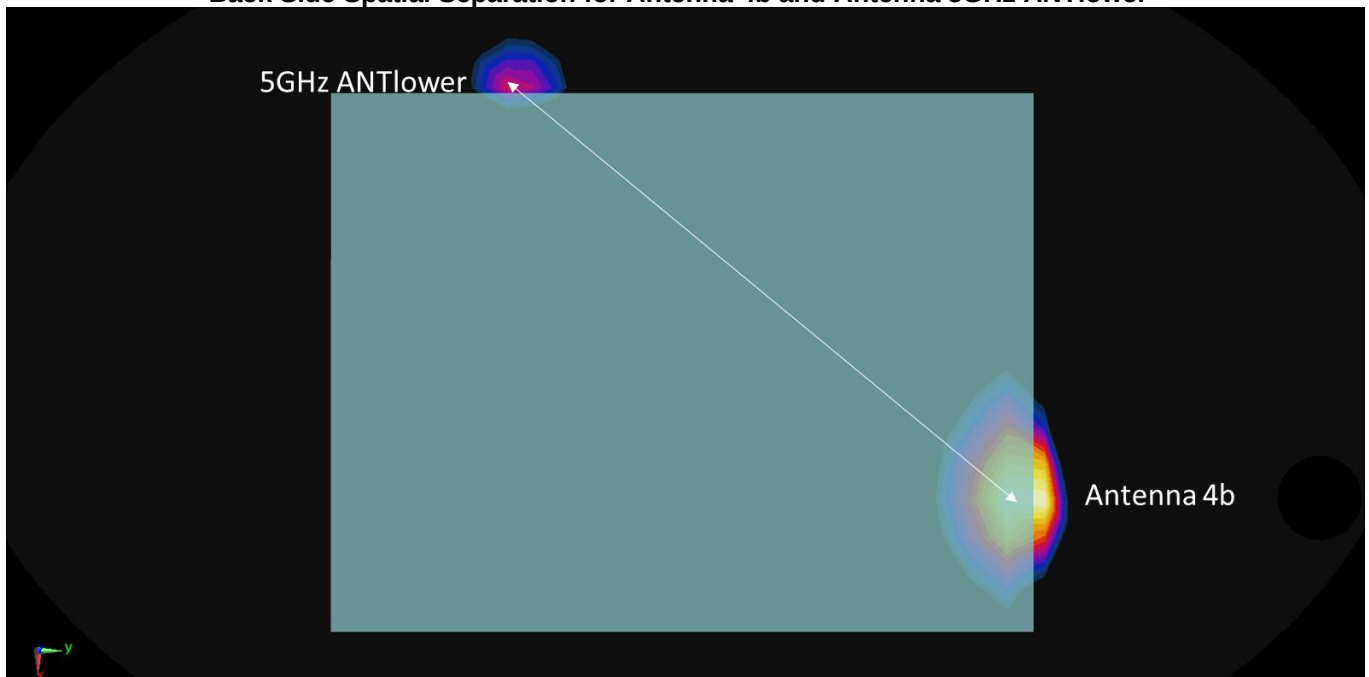


Figure 11-9
Back Side Spatial Separation for Antenna 4a and Antenna 5GHz ANTlower



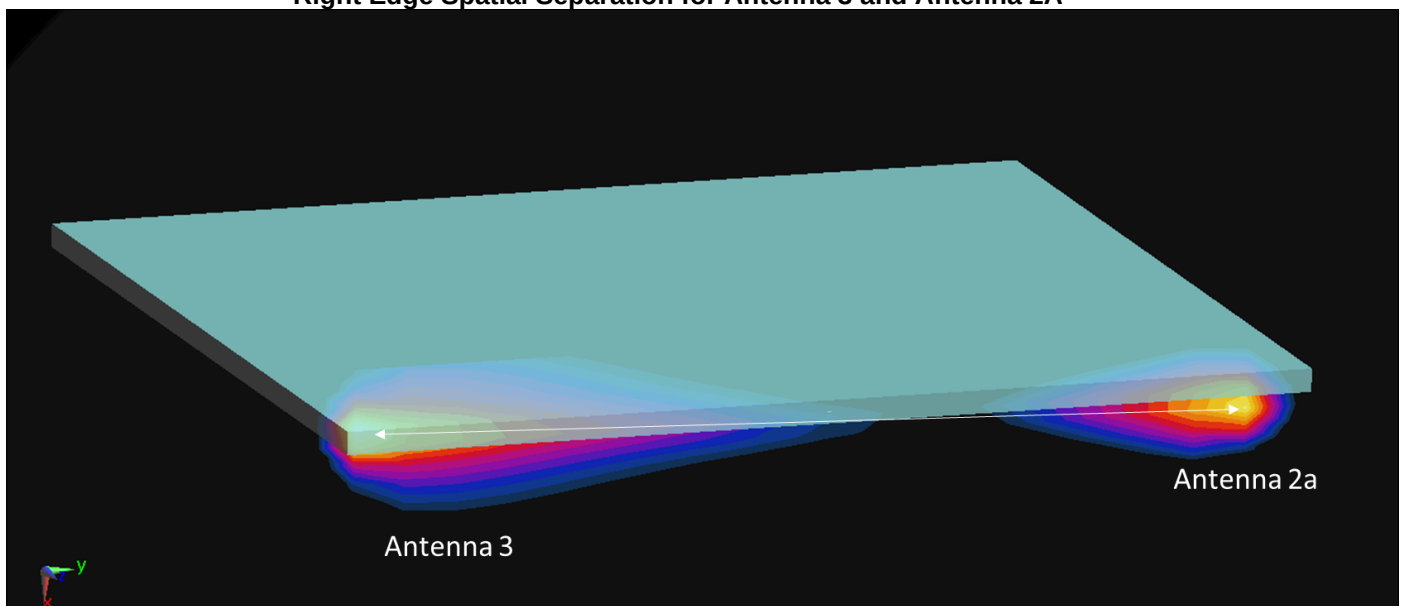
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Figure 11-10
Back Side Spatial Separation for Antenna 4b and Antenna 5GHz ANTlower



11.4.1 Right Edge Spatial Separation Analysis

Figure 11-11
Right Edge Spatial Separation for Antenna 3 and Antenna 2A



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Figure 11-12
Right Edge Spatial Separation for Antenna 5GHz ANTlower and Antenna 5GHz ANTupper

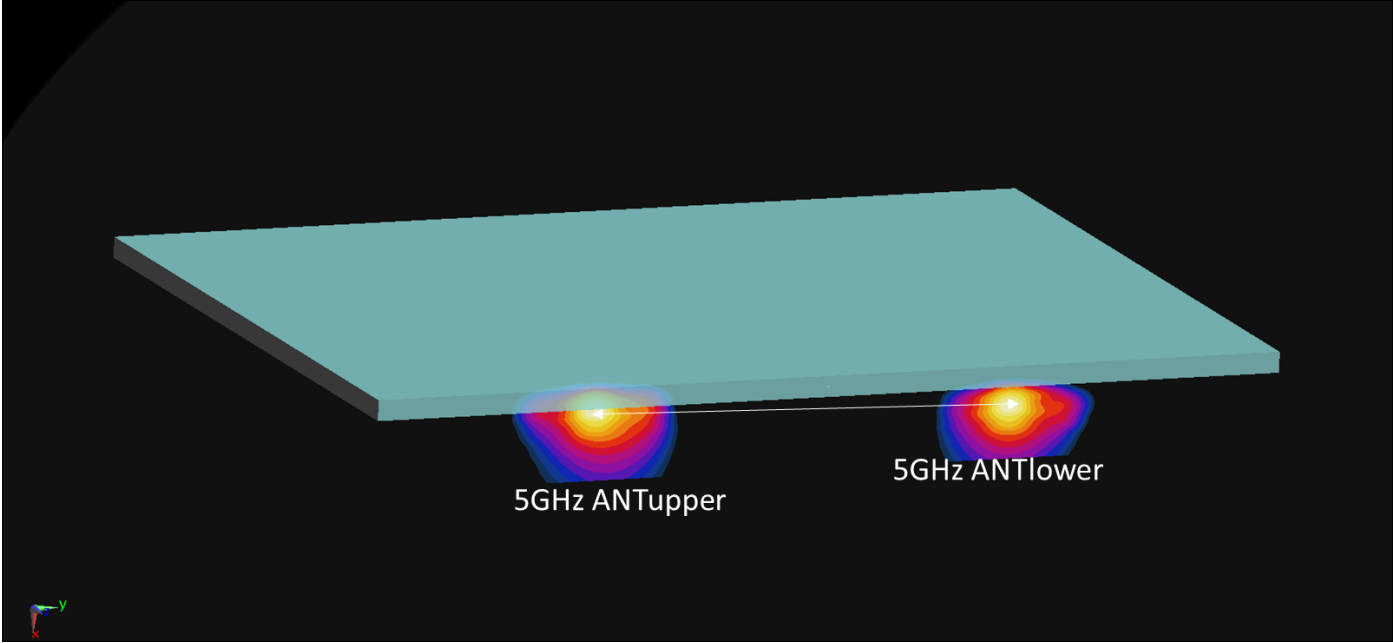
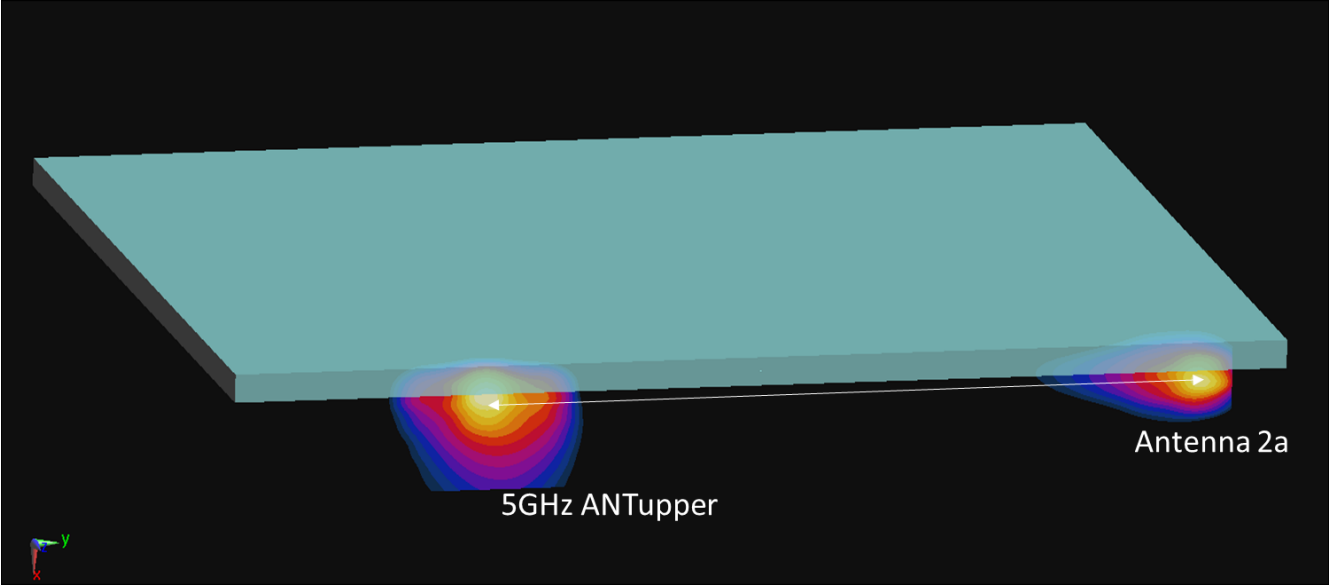
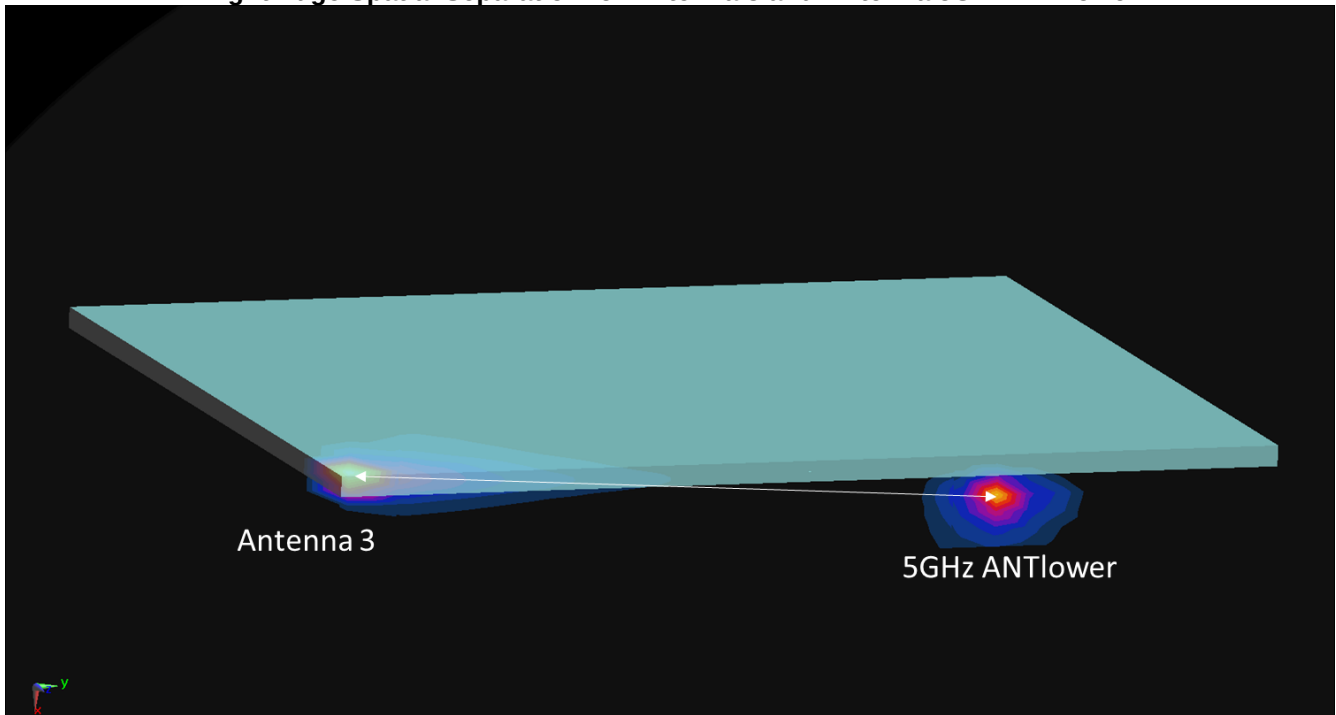


Figure 11-13
Right Edge Spatial Separation for Antenna 2a and Antenna 5GHz ANTupper



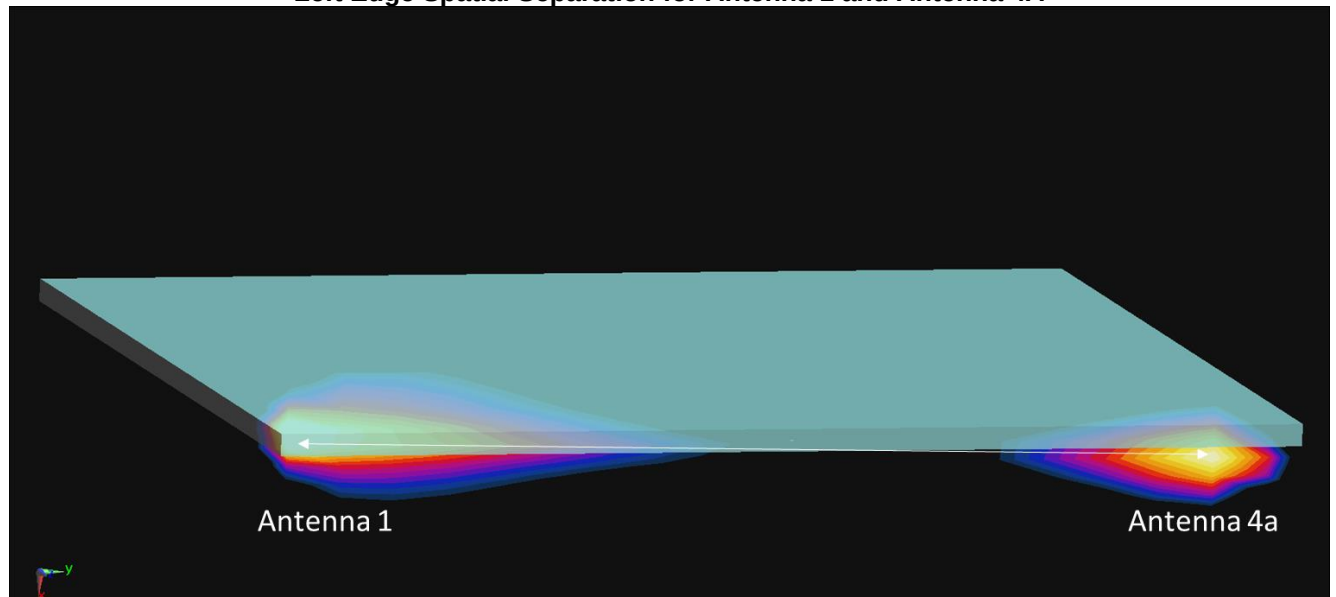
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Figure 11-14
Right Edge Spatial Separation for Antenna 3 and Antenna 5GHz ANTlower



11.4.2 Left Edge Spatial Separation Analysis

Figure 11-15
Left Edge Spatial Separation for Antenna 1 and Antenna 4A



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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 ($\sim 10\%$ from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Antenna	Service	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)			
750	707.50	23095	LTE Band 12, 10 MHz Bandwidth	Ant 1	QPSK, 1 RB, 0 RB Offset	N/A	left	0 mm	1.150	1.040	1.11	N/A	N/A	N/A	N/A
835	836.50	20525	LTE Band 5 (Cell), 10 MHz Bandwidth	Ant 1	QPSK, 50 RB, 0 RB Offset	N/A	left	0 mm	1.140	1.130	1.01	N/A	N/A	N/A	N/A
1750	1732.40	1412	UMTS 1750	Ant 2a	RMC	N/A	back	0 mm	1.160	1.090	1.06	N/A	N/A	N/A	N/A
1900	1905.00	26590	LTE Band 25 (PCS), 20 MHz Bandwidth	Ant 4a	QPSK, 50 RB, 0 RB Offset	N/A	back	0 mm	1.180	1.120	1.05	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	Ant 4a	QPSK, 25 RB, 0 RB Offset	N/A	back	0 mm	1.080	0.900	1.20	N/A	N/A	N/A	N/A
2450	2506.00	39750	LTE Band 41, 20 MHz Bandwidth	Ant 4b	QPSK, 1 RB, 0 RB Offset	N/A	back	0 mm	1.120	1.030	1.09	N/A	N/A	N/A	N/A
2600	2535.00	21100	LTE Band 7, 20 MHz Bandwidth	Ant 4b	QPSK, 1 RB, 50 RB Offset	N/A	back	0 mm	1.120	1.120	1.00	N/A	N/A	N/A	N/A
3500	3560.00	55340	LTE Band 48, 20 MHz Bandwidth	Ant 3	QPSK, 50 RB, 0 RB Offset	N/A	right	0 mm	1.060	0.902	1.18	N/A	N/A	N/A	N/A
3700	3603.30	55773	LTE Band 48, 20 MHz Bandwidth	Ant 3	QPSK, 1 RB, 99 RB Offset	N/A	right	0 mm	1.120	0.997	1.12	N/A	N/A	N/A	N/A
5250	5230.00	46	802.11n, 40 MHz Bandwidth	5 GHz ANTlower	OFDM	13.5	right	0 mm	0.821	0.720	1.14	N/A	N/A	N/A	N/A
5600	5610.00	122	802.11ac, 80 MHz Bandwidth	5 GHz ANTupper	OFDM	29.3	right	0 mm	0.834	0.740	1.13	N/A	N/A	N/A	N/A
5750	5775.00	155	802.11ac, 80 MHz Bandwidth	5 GHz ANTupper	OFDM	29.3	right	0 mm	1.000	0.870	1.15	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body						
Spatial Peak									1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population									averaged over 1 gram						

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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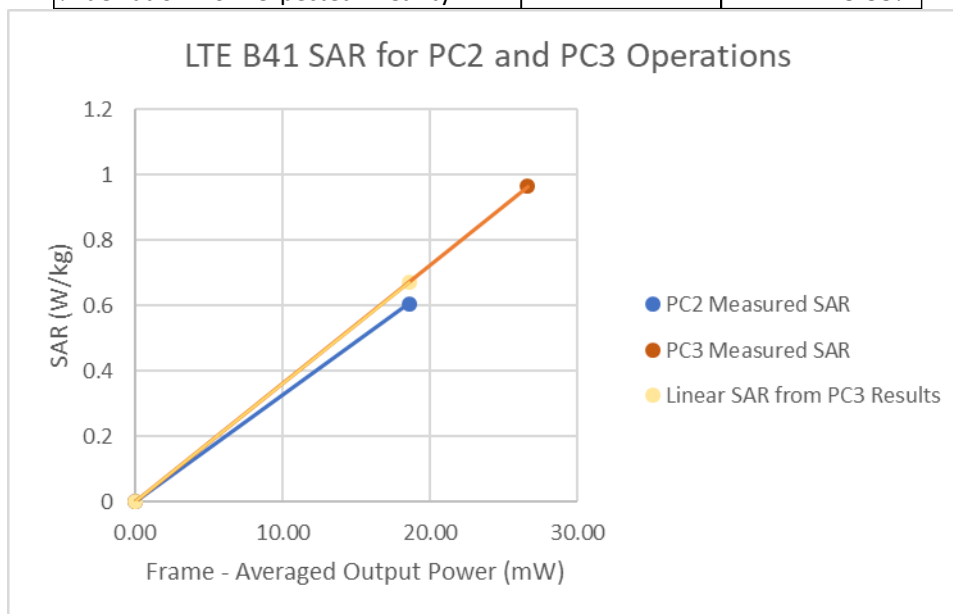
13 ADDITIONAL TESTING PER FCC GUIDANCE

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)	16.24	16.33
Measured SAR (W/kg)	0.964	0.606
Measured Power (mW)	42.07	42.95
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	26.63	18.60
% deviation from expected linearity		-9.99%

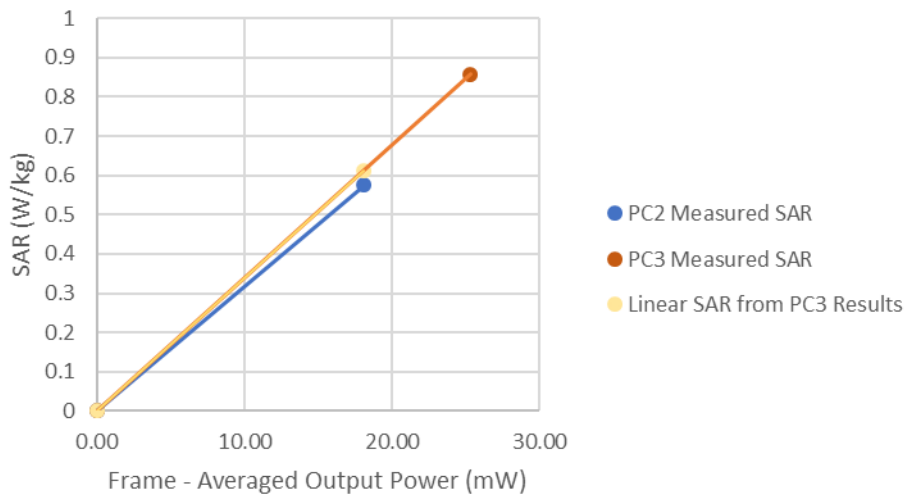


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Table 13-2
LTE Band 41 ULCA Body Linearity Data – Ant 2a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.4	16.4
Measured Output Power (dBm)	16.02	16.21
Measured SAR (W/kg)	0.858	0.575
Measured Power (mW)	39.99	41.78
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	25.32	18.09
% deviation from expected linearity		-6.22%

LTE B41 SAR for PC2 and PC3 Operations

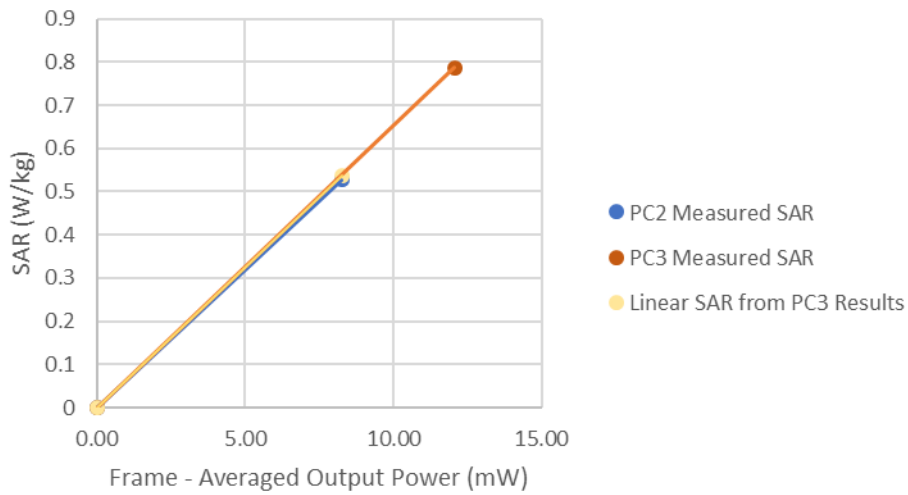


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Table 13-3
LTE Band 41 Body Linearity Data – Ant 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.8	13.8
Measured Output Power (dBm)	12.8	12.8
Measured SAR (W/kg)	0.787	0.528
Measured Power (mW)	19.05	19.05
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	12.06	8.25
% deviation from expected linearity		-1.92%

LTE B41 SAR for PC2 and PC3 Operations

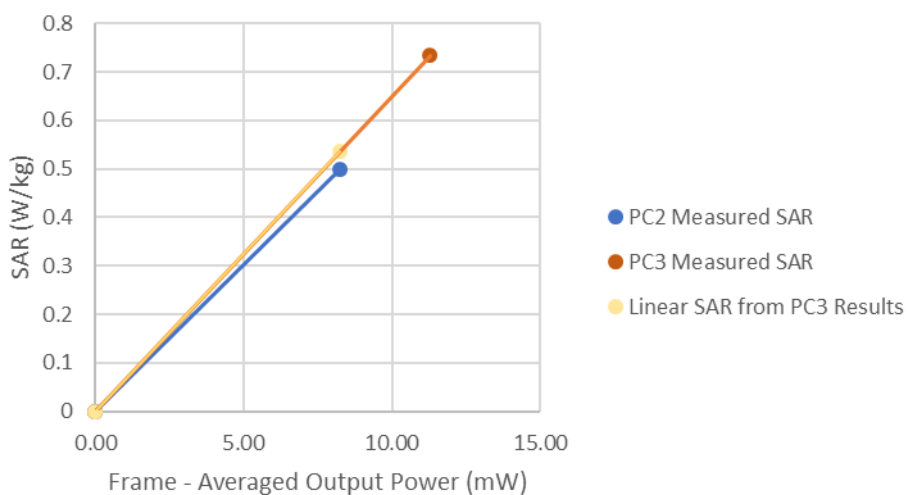


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Table 13-4
LTE Band 41 ULCA Body Linearity Data – Ant 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.8	13.8
Measured Output Power (dBm)	12.51	12.8
Measured SAR (W/kg)	0.734	0.5
Measured Power (mW)	17.82	19.05
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	11.28	8.25
% deviation from expected linearity		-6.85%

LTE B41 SAR for PC2 and PC3 Operations

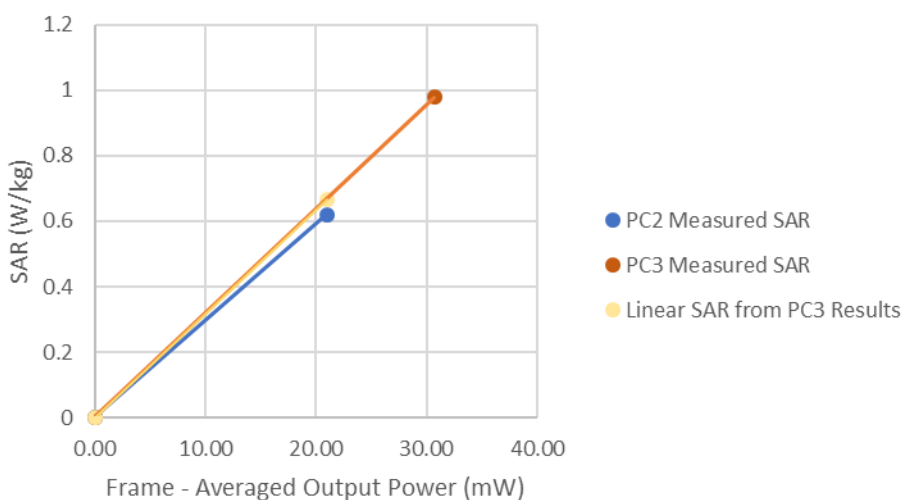


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Table 13-5
LTE Band 41 Body Linearity Data – Ant 4a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.9	16.9
Measured Output Power (dBm)	16.86	16.85
Measured SAR (W/kg)	0.978	0.621
Measured Power (mW)	48.53	48.42
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	30.72	20.96
% deviation from expected linearity		-6.96%

LTE B41 SAR for PC2 and PC3 Operations

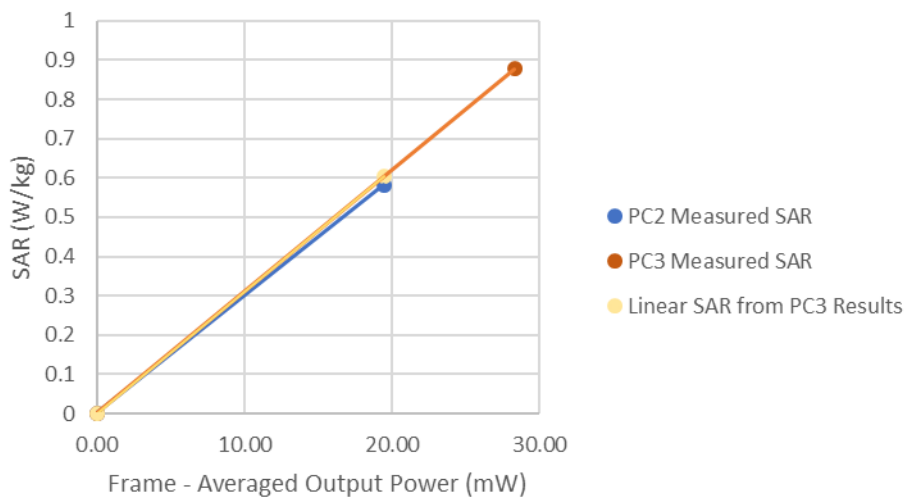


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Table 13-6
LTE Band 41 ULCA Body Linearity Data – Ant 4a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.9	16.9
Measured Output Power (dBm)	16.51	16.53
Measured SAR (W/kg)	0.878	0.582
Measured Power (mW)	44.77	44.98
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	28.34	19.48
% deviation from expected linearity		-3.54%

LTE B41 SAR for PC2 and PC3 Operations

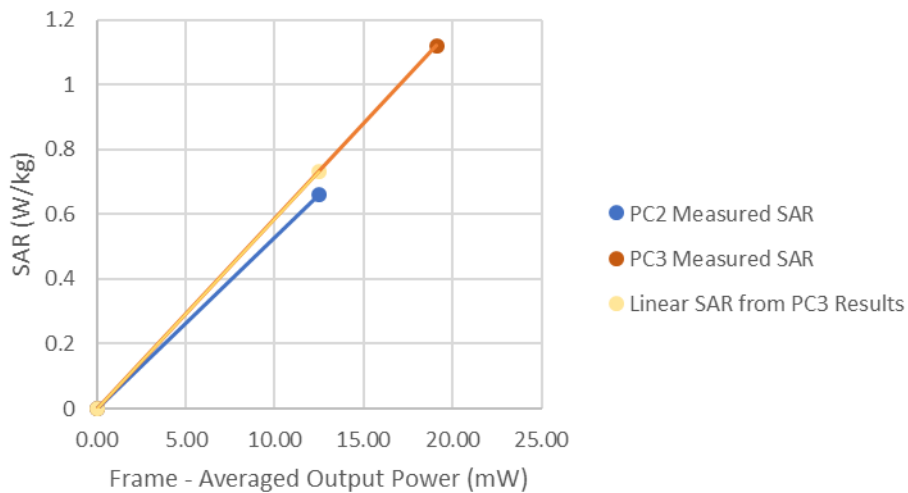


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Table 13-7
LTE Band 41 Body Linearity Data – Ant 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.8	14.8
Measured Output Power (dBm)	14.8	14.6
Measured SAR (W/kg)	1.12	0.659
Measured Power (mW)	30.20	28.84
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	19.12	12.49
% deviation from expected linearity		-9.93%

LTE B41 SAR for PC2 and PC3 Operations

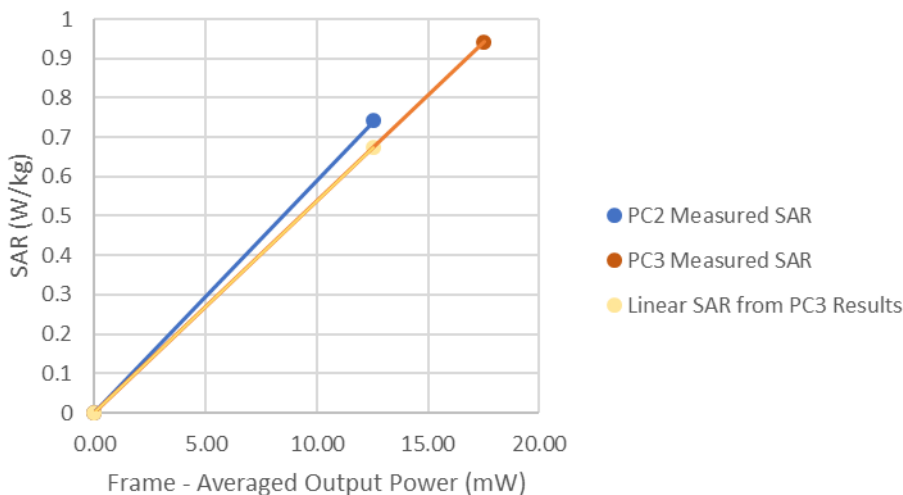


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Table 13-8
LTE Band 41 ULCA Body Linearity Data – Ant 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.8	14.8
Measured Output Power (dBm)	14.42	14.62
Measured SAR (W/kg)	0.942	0.741
Measured Power (mW)	27.67	28.97
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	17.51	12.55
% deviation from expected linearity		9.82%

LTE B41 SAR for PC2 and PC3 Operations



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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	15S1G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	15S1G6	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	150761911
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
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
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Mitutoyo	CD-6°CSX	Digital Caliper	4/18/2018	Biennial	4/18/2020	13264165
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	5/18/2018	Biennial	5/18/2020	1034
SPEAG	D835V2	835 MHz SAR Dipole	6/20/2019	Annual	6/20/2020	404040
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	50026
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	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	3/13/2018	Biennial	3/13/2020	1123
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/12/2019	Annual	8/12/2020	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/13/2019	Annual	2/13/2020	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/10/2019	Annual	7/10/2020	1402
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	3/13/2019	Annual	3/13/2020	604
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	EX3DV4	SAR Probe	8/29/2019	Annual	8/29/2020	3949
SPEAG	EX3DV4	SAR Probe	11/21/2019	Annual	11/21/2020	7420
SPEAG	EX3DV4	SAR Probe	7/16/2019	Annual	7/16/2020	7491
SPEAG	EX3DV4	SAR Probe	2/19/2019	Annual	2/19/2020	7427
SPEAG	EX3DV4	SAR Probe	3/18/2019	Annual	3/18/2020	7421
SPEAG	EX3DV4	SAR Probe	4/12/2019	Annual	4/12/2020	7532

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

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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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