PCTEST
18855 Adams Ct, Morgan Hill, CA 95037 USA
Tel. +1.410.290.6652 / Fax +1.410.290.6654
http://www.pctest.com



SAR EVALUATION REPORT

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

Date of Testing:
07/27/2020 – 08/18/2020
Test Site/Location:
PCTEST Lab, Morgan Hill, CA, USA
Document Serial No.:
1C2004270029-01-R2.BCG

FCC ID:	**BCGA2324**
APPLICANT:	**APPLE, INC.**

DUT Type:	Tablet Device
Application Type:	Certification
FCC Rule Part(s):	CFR §2.1093
Model:	A2324

Equipment Class	Band & Mode	Tx Frequency	SAR
			1g Body (W/kg)
PCB	GPRS/EDGE 850	824.20 - 848.80 MHz	1.14
PCB	GPRS/EDGE 1900	1850.20 - 1909.80 MHz	1.17
PCB	UMTS 850	826.40 - 846.60 MHz	1.14
PCB	UMTS 1750	1712.4 - 1752.6 MHz	1.19
PCB	UMTS 1900	1852.4 - 1907.6 MHz	1.16
PCB	LTE Band 71	665.5 - 695.5 MHz	1.19
PCB	LTE Band 12	699.7 - 715.3 MHz	1.11
PCB	LTE Band 17	706.5 - 713.5 MHz	N/A
PCB	LTE Band 13	779.5 - 784.5 MHz	1.13
PCB	LTE Band 14	790.5 - 795.5 MHz	1.08
PCB	LTE Band 26 (Cell)	814.7 - 848.3 MHz	1.19
PCB	LTE Band 5 (Cell)	824.7 - 848.3 MHz	1.19
PCB	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	1.15
PCB	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	1.13
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	1.19
PCB	LTE Band 7	2502.5 - 2567.5 MHz	1.18
PCB	LTE Band 41	2498.5 - 2687.5 MHz	1.18
CBE	LTE Band 48	3552.5 - 3697.5 MHz	1.15
DTS	2.4 GHz WLAN	2412 - 2472 MHz	1.14
NII	U-NII-1	5180 - 5240 MHz	1.11
NII	U-NII-2A	5260 - 5320 MHz	1.13
NII	U-NII-2C	5500 - 5720 MHz	1.14
NII	U-NII-3	5745 - 5825 MHz	1.06
DSS/DTS	Bluetooth	2402 - 2480 MHz	1.19
Simultaneous SAR per KDB 690783 D01v01r03:			1.59

Note: This revised Test Report (S/N: 1C2004270029-01-R2.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.

Additionally, this device uses an independent mechanism that limits WIFI powers to a time-averaged output power. For the purposes of this test report, all SAR measurements were performed with the algorithm disabled at the maximum time-averaged output power level. Appendix I includes verification data for this time-averaged SAR mechanism

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 4	Max allowed power	**31.20**	**28.20**	**27.50**	**26.50**
		Nominal	**30.45**	**27.45**	**26.75**	**25.75**
	Ant 3B	Max allowed power	**27.80**	**24.80**	**26.00**	**24.80**
		Nominal	**27.05**	**24.05**	**25.25**	**24.05**

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 4	Max allowed power	**26.00**	**23.00**	**26.00**	**23.00**
		Nominal	**25.25**	**22.25**	**25.25**	**22.25**
	Ant 2A	Max allowed power	**24.20**	**21.20**	**23.00**	**21.20**
		Nominal	**23.45**	**20.45**	**22.25**	**20.45**
	Ant 1A	Max allowed power	**25.00**	**22.00**	**24.00**	**22.00**
		Nominal	**24.25**	**21.25**	**23.25**	**21.25**
	Ant 3A	Max allowed power	**23.40**	**20.40**	**23.40**	**20.40**
		Nominal	**22.65**	**19.65**	**22.65**	**19.65**

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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)	Ant4	Max allowed power	**21.10**	**21.10**	**21.10**	**21.10**
		Nominal	**20.60**	**20.60**	**20.60**	**20.60**
	Ant 3B	Max allowed power	**18.10**	**18.10**	**18.10**	**18.10**
		Nominal	**17.60**	**17.60**	**17.60**	**17.60**

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 4	Max allowed power	**15.50**	**15.50**	**15.50**	**15.50**
		Nominal	**15.00**	**15.00**	**15.00**	**15.00**
	Ant 2A	Max allowed power	**14.90**	**14.90**	**14.90**	**14.90**
		Nominal	**13.90**	**13.90**	**13.90**	**13.90**
	Ant 1A	Max allowed power	**15.10**	**15.10**	**15.10**	**15.10**
		Nominal	**14.60**	**14.60**	**14.60**	**14.60**
	Ant 3A	Max allowed power	**14.00**	**14.00**	**14.00**	**14.00**
		Nominal	**13.00**	**13.00**	**13.00**	**13.00**

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 4	Max allowed power	**16.30**	**16.30**	**16.30**	**16.30**
		Nominal	**15.80**	**15.80**	**15.80**	**15.80**
	Ant 2A	Max allowed power	**14.80**	**14.80**	**14.80**	**14.80**
		Nominal	**13.80**	**13.80**	**13.80**	**13.80**
	Ant 1A	Max allowed power	**14.80**	**14.80**	**14.80**	**14.80**
		Nominal	**13.80**	**13.80**	**13.80**	**13.80**
	Ant 3A	Max allowed power	**14.20**	**14.20**	**14.20**	**14.20**
		Nominal	**13.20**	**13.20**	**13.20**	**13.20**

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Mode / Band		Modulated Average Output Power (in dBm)				
		Ant 4	Ant 3B	Ant 2A	Ant 1A	Ant 3A
LTE FDD Band 71	Max allowed power	22.50	20.10			
	Nominal	22.00	19.60			
LTE FDD Band 12	Max allowed power	20.90	18.90			
	Nominal	20.40	18.40			
LTE FDD Band 17	Max allowed power	20.90	18.90			
	Nominal	20.40	18.40			
LTE FDD Band 13	Max allowed power	21.10	19.20			
	Nominal	20.60	18.70			
LTE FDD Band 14	Max allowed power	21.10	19.20			
	Nominal	20.60	18.70			
LTE FDD Band 26	Max allowed power	21.10	17.90			
	Nominal	20.60	17.40			
LTE FDD Band 5	Max allowed power	21.10	17.90			
	Nominal	20.60	17.40			
LTE FDD Band 5 Intra-band ULCA	Max allowed power	21.10	17.90			
	Nominal	20.10	16.90			
LTE FDD Band 4	Max allowed power	14.40		15.30	14.80	14.10
	Nominal	13.40		14.80	13.80	13.10
LTE FDD Band 66	Max allowed power	14.40		15.30	14.80	14.10
	Nominal	13.40		14.80	13.80	13.10
LTE FDD Band 2	Max allowed power	16.00		14.40	14.60	14.60
	Nominal	15.50		13.40	13.60	13.60
LTE FDD Band 25	Max allowed power	16.00		14.40	14.60	14.60
	Nominal	15.50		13.40	13.60	13.60
LTE FDD Band 30	Max allowed power	13.70		13.50	14.50	13.70
	Nominal	12.70		12.50	13.50	12.70
LTE FDD Band 7	Max allowed power	13.70		14.60	13.90	12.00
	Nominal	12.70		13.60	12.90	11.00
LTE FDD Band 7 Intra-band ULCA	Max allowed power	13.70		14.60	13.90	12.00
	Nominal	12.70		13.60	12.90	11.00
LTE TDD Band 41 (PC3)	Max allowed power	15.60		16.60	15.00	14.20
	Nominal	15.10		16.10	14.50	13.20
LTE TDD Band 41 (PC3) Intra-band ULCA	Max allowed power	15.60		16.60	15.00	14.20
	Nominal	14.60		15.60	14.00	13.20
LTE TDD Band 41 (PC2)	Max allowed power	15.60		16.60	15.00	14.20
	Nominal	15.10		16.10	14.50	13.20
LTE TDD Band 41 (PC2) Intra-band ULCA	Max allowed power	15.60		16.60	15.00	14.20
	Nominal	14.60		15.60	14.00	13.20
LTE TDD Band 48	Max allowed power	16.50	16.20			
	Nominal	16.00	15.70			

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1.3.2 4G Output Power – Inter-band ULCA Active

Mode / Band		Modulated Average Output Power (in dBm)				
		Ant 4	Ant 3B	Ant 2A	Ant 1A	Ant 3A
LTE FDD Band 12	Max allowed power	17.90	15.90			
	Nominal	17.40	15.40			
LTE FDD Band 13	Max allowed power	18.10	16.20			
	Nominal	17.60	15.70			
LTE FDD Band 14	Max allowed power	18.10	16.20			
	Nominal	17.60	15.70			
LTE FDD Band 5	Max allowed power	18.10	14.90			
	Nominal	17.60	13.90			
LTE FDD Band 4	Max allowed power	11.40		12.30	11.80	11.10
	Nominal	10.40		11.30	10.80	10.10
LTE FDD Band 66	Max allowed power	11.40		12.30	11.80	11.10
	Nominal	10.40		11.30	10.80	10.10
LTE FDD Band 2	Max allowed power	13.00		11.40	11.60	11.60
	Nominal	12.00		10.40	10.60	10.60
LTE FDD Band 30	Max allowed power	10.70		10.50	11.50	10.70
	Nominal	9.70		9.50	10.50	9.70
LTE FDD Band 7	Max allowed power	10.70		11.60	10.90	9.00
	Nominal	9.70		10.60	9.90	8.00

1.3.3 Maximum Time-Averaged Output Power

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

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 3A	20 MHz Bandwidth	1	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		2	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		3	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		4	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		5	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		6	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		7	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		8	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		9	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		10	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		11	13.00	11.50	13.00	11.50	13.00	11.50	13.00	11.50
		12	13.00	11.50	11.50	10.00	11.50	10.00	11.00	9.50
		13	13.00	11.50	10.50	9.00	10.50	9.00	N/A	N/A

Mode/ Band			IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 3A	20 MHz Bandwidth	1	13.00	11.50	13.00	11.50	12.50	11.00
		2	13.00	11.50	13.00	11.50	13.00	11.50
		3	13.00	11.50	13.00	11.50	13.00	11.50
		4	13.00	11.50	13.00	11.50	13.00	11.50
		5	13.00	11.50	13.00	11.50	13.00	11.50
		6	13.00	11.50	13.00	11.50	13.00	11.50
		7	13.00	11.50	13.00	11.50	13.00	11.50
		8	13.00	11.50	13.00	11.50	13.00	11.50
		9	13.00	11.50	13.00	11.50	13.00	11.50
		10	13.00	11.50	13.00	11.50	13.00	11.50
		11	13.00	11.50	13.00	11.50	12.50	11.00
		12	11.00	9.50	11.00	9.50	10.50	9.00
		13	10.00	8.50	10.00	8.50	N/A	N/A

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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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 1A	20 MHz Bandwidth	1	13.75	12.25	13.75	12.25	13.75	12.25	13.00	11.50
		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	13.75	12.25
		11	13.75	12.25	13.75	12.25	13.75	12.25	13.50	12.00
		12	13.75	12.25	11.50	10.00	11.50	10.00	11.00	9.50
		13	13.75	12.25	10.50	9.00	10.50	9.00	N/A	N/A

Mode/ Band			IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 1A	20 MHz Bandwidth	1	13.50	12.00	13.50	12.00	12.50	11.00
		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	13.75	12.25
		11	13.50	12.00	13.50	12.00	12.50	11.00
		12	11.00	9.50	11.00	9.50	10.50	9.00
		13	10.00	8.50	10.00	8.50	N/A	N/A

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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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 - Single Tx Chain (dBm) - Ant 2A	20 MHz Bandwidth	36	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		40	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		44	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		48	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		52	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		100	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		104	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		108	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		112	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		116	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		120	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		124	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		128	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		132	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		136	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		140	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		144	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		149	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		153	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		157	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		161	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		165	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	40 MHz Bandwidth	38	[redacted]		10.50	9.00	10.50	9.00	10.50	9.00
		46			10.50	9.00	10.50	9.00	10.50	9.00
		54			9.75	8.25	9.75	8.25	9.75	8.25
		62			9.75	8.25	9.75	8.25	9.75	8.25
		102			10.75	9.25	10.75	9.25	10.75	9.25
		110			10.75	9.25	10.75	9.25	10.75	9.25
		118			10.75	9.25	10.75	9.25	10.75	9.25
		126			10.75	9.25	10.75	9.25	10.75	9.25
		134			10.75	9.25	10.75	9.25	10.75	9.25
		142			10.75	9.25	10.75	9.25	10.75	9.25
		151			11.25	9.75	11.25	9.75	11.25	9.75
		159			11.25	9.75	11.25	9.75	11.25	9.75
	80 MHz Bandwidth	42	[redacted]				10.50	9.00	10.50	9.00
		58					9.75	8.25	9.75	8.25
		106					10.75	9.25	10.75	9.25
		122					10.75	9.25	10.75	9.25
		138					10.75	9.25	10.75	9.25
		155					11.25	9.75	11.25	9.75

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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 - Ant 2A	20 MHz Bandwidth	36	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		40	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		44	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		48	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		52	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		100	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		104	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		108	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		112	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		116	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		120	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		124	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		128	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		132	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		136	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		140	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		144	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
		149	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		153	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		157	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		161	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
		165	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	40 MHz Bandwidth	38	[redacted]		10.50	9.00	10.50	9.00	10.50	9.00
		46			10.50	9.00	10.50	9.00	10.50	9.00
		54			9.75	8.25	9.75	8.25	9.75	8.25
		62			9.75	8.25	9.75	8.25	9.75	8.25
		102			10.75	9.25	10.75	9.25	10.75	9.25
		110			10.75	9.25	10.75	9.25	10.75	9.25
		118			10.75	9.25	10.75	9.25	10.75	9.25
		126			10.75	9.25	10.75	9.25	10.75	9.25
		134			10.75	9.25	10.75	9.25	10.75	9.25
		142			10.75	9.25	10.75	9.25	10.75	9.25
		151			11.25	9.75	11.25	9.75	11.25	9.75
		159			11.25	9.75	11.25	9.75	11.25	9.75
	80 MHz Bandwidth	42	[redacted]				10.50	9.00	10.50	9.00
		58					9.75	8.25	9.75	8.25
		106					10.75	9.25	10.75	9.25
		122					10.75	9.25	10.75	9.25
		138					10.75	9.25	10.75	9.25
		155					11.25	9.75	11.25	9.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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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 - Ant 2A	20 MHz Bandwidth	36	10.50	9.00	10.50	9.00	10.50	9.00
		40	10.50	9.00	10.50	9.00	10.50	9.00
		44	10.50	9.00	10.50	9.00	10.50	9.00
		48	10.50	9.00	10.50	9.00	10.50	9.00
		52	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25
		100	10.75	9.25	10.75	9.25	10.75	9.25
		104	10.75	9.25	10.75	9.25	10.75	9.25
		108	10.75	9.25	10.75	9.25	10.75	9.25
		112	10.75	9.25	10.75	9.25	10.75	9.25
		116	10.75	9.25	10.75	9.25	10.75	9.25
		120	10.75	9.25	10.75	9.25	10.75	9.25
		124	10.75	9.25	10.75	9.25	10.75	9.25
		128	10.75	9.25	10.75	9.25	10.75	9.25
		132	10.75	9.25	10.75	9.25	10.75	9.25
		136	10.75	9.25	10.75	9.25	10.75	9.25
		140	10.75	9.25	10.75	9.25	10.75	9.25
		144	10.75	9.25	10.75	9.25	10.75	9.25
		149	11.25	9.75	11.25	9.75	11.25	9.75
		153	11.25	9.75	11.25	9.75	11.25	9.75
		157	11.25	9.75	11.25	9.75	11.25	9.75
		161	11.25	9.75	11.25	9.75	11.25	9.75
		165	11.25	9.75	11.25	9.75	11.25	9.75
	40 MHz Bandwidth	38	10.50	9.00	10.50	9.00	10.50	9.00
		46	10.50	9.00	10.50	9.00	10.50	9.00
		54	9.75	8.25	9.75	8.25	9.75	8.25
		62	9.75	8.25	9.75	8.25	9.75	8.25
		102	10.75	9.25	10.75	9.25	10.75	9.25
		110	10.75	9.25	10.75	9.25	10.75	9.25
		118	10.75	9.25	10.75	9.25	10.75	9.25
		126	10.75	9.25	10.75	9.25	10.75	9.25
		134	10.75	9.25	10.75	9.25	10.75	9.25
		142	10.75	9.25	10.75	9.25	10.75	9.25
		151	11.25	9.75	11.25	9.75	11.25	9.75
		159	11.25	9.75	11.25	9.75	11.25	9.75
	80 MHz Bandwidth	42	[redacted]		10.50	9.00	10.50	9.00
		58			9.75	8.25	9.75	8.25
		106			10.75	9.25	10.75	9.25
		122			10.75	9.25	10.75	9.25
		138			10.75	9.25	10.75	9.25
		155			11.25	9.75	11.25	9.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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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 - Single Tx Chain (dBm) - Ant 2B	20 MHz Bandwidth	36	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		40	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		44	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		48	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		52	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		56	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		60	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		64	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		100	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		140	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		144	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		149	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		153	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		157	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		161	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		165	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	40 MHz Bandwidth	38	[redacted]		10.50	9.00	10.50	9.00	10.50	9.00
		46			10.50	9.00	10.50	9.00	10.50	9.00
		54			11.50	10.00	11.50	10.00	11.50	10.00
		62			11.50	10.00	11.50	10.00	11.50	10.00
		102			10.25	8.75	10.25	8.75	10.25	8.75
		110			10.25	8.75	10.25	8.75	10.25	8.75
		118			10.25	8.75	10.25	8.75	10.25	8.75
		126			10.25	8.75	10.25	8.75	10.25	8.75
		134			10.25	8.75	10.25	8.75	10.25	8.75
		142			10.25	8.75	10.25	8.75	10.25	8.75
		151			9.75	8.25	9.75	8.25	9.75	8.25
		159			9.75	8.25	9.75	8.25	9.75	8.25
	80 MHz Bandwidth	42	[redacted]				10.50	9.00	10.50	9.00
		58					11.50	10.00	11.50	10.00
		106					10.25	8.75	10.25	8.75
		122					10.25	8.75	10.25	8.75
		138					10.25	8.75	10.25	8.75
		155					9.75	8.25	9.75	8.25

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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 - Ant 2B	20 MHz Bandwidth	36	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		40	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		44	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		48	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
		52	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		56	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		60	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		64	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		100	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		140	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		144	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		149	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		153	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		157	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		161	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		165	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	40 MHz Bandwidth	38	[redacted]		10.50	9.00	10.50	9.00	10.50	9.00
		46			10.50	9.00	10.50	9.00	10.50	9.00
		54			11.50	10.00	11.50	10.00	11.50	10.00
		62			11.50	10.00	11.50	10.00	11.50	10.00
		102			10.25	8.75	10.25	8.75	10.25	8.75
		110			10.25	8.75	10.25	8.75	10.25	8.75
		118			10.25	8.75	10.25	8.75	10.25	8.75
		126			10.25	8.75	10.25	8.75	10.25	8.75
		134			10.25	8.75	10.25	8.75	10.25	8.75
		142			10.25	8.75	10.25	8.75	10.25	8.75
		151			9.75	8.25	9.75	8.25	9.75	8.25
		159			9.75	8.25	9.75	8.25	9.75	8.25
	80 MHz Bandwidth	42	[redacted]				10.50	9.00	10.50	9.00
		58					11.50	10.00	11.50	10.00
		106					10.25	8.75	10.25	8.75
		122					10.25	8.75	10.25	8.75
		138					10.25	8.75	10.25	8.75
		155					9.75	8.25	9.75	8.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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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 - Ant 2B	20 MHz Bandwidth	36	10.50	9.00	10.50	9.00	10.50	9.00
		40	10.50	9.00	10.50	9.00	10.50	9.00
		44	10.50	9.00	10.50	9.00	10.50	9.00
		48	10.50	9.00	10.50	9.00	10.50	9.00
		52	11.50	10.00	11.50	10.00	11.50	10.00
		56	11.50	10.00	11.50	10.00	11.50	10.00
		60	11.50	10.00	11.50	10.00	11.50	10.00
		64	11.50	10.00	11.50	10.00	11.50	10.00
		100	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75
		140	10.25	8.75	10.25	8.75	10.25	8.75
		144	10.25	8.75	10.25	8.75	10.25	8.75
		149	9.75	8.25	9.75	8.25	9.75	8.25
		153	9.75	8.25	9.75	8.25	9.75	8.25
		157	9.75	8.25	9.75	8.25	9.75	8.25
		161	9.75	8.25	9.75	8.25	9.75	8.25
		165	9.75	8.25	9.75	8.25	9.75	8.25
	40 MHz Bandwidth	38	10.50	9.00	10.50	9.00	10.50	9.00
		46	10.50	9.00	10.50	9.00	10.50	9.00
		54	11.50	10.00	11.50	10.00	11.50	10.00
		62	11.50	10.00	11.50	10.00	11.50	10.00
		102	10.25	8.75	10.25	8.75	10.25	8.75
		110	10.25	8.75	10.25	8.75	10.25	8.75
		118	10.25	8.75	10.25	8.75	10.25	8.75
		126	10.25	8.75	10.25	8.75	10.25	8.75
		134	10.25	8.75	10.25	8.75	10.25	8.75
		142	10.25	8.75	10.25	8.75	10.25	8.75
		151	9.75	8.25	9.75	8.25	9.75	8.25
		159	9.75	8.25	9.75	8.25	9.75	8.25
	80 MHz Bandwidth	42	[redacted]		10.50	9.00	10.50	9.00
		58			11.50	10.00	11.50	10.00
		106			10.25	8.75	10.25	8.75
		122			10.25	8.75	10.25	8.75
		138			10.25	8.75	10.25	8.75
		155			9.75	8.25	9.75	8.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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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 - Single Tx Chain (dBm) -Ant 1B	20 MHz Bandwidth	36	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		40	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		44	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		48	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		52	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		100	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		140	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		144	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		149	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		153	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		157	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		161	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		165	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	40 MHz Bandwidth	38	[redacted]		11.50	10.00	11.50	10.00	11.50	10.00
		46			11.50	10.00	11.50	10.00	11.50	10.00
		54			9.75	8.25	9.75	8.25	9.75	8.25
		62			9.75	8.25	9.75	8.25	9.75	8.25
		102			10.25	8.75	10.25	8.75	10.25	8.75
		110			10.25	8.75	10.25	8.75	10.25	8.75
		118			10.25	8.75	10.25	8.75	10.25	8.75
		126			10.25	8.75	10.25	8.75	10.25	8.75
		134			10.25	8.75	10.25	8.75	10.25	8.75
		142			10.25	8.75	10.25	8.75	10.25	8.75
		151			10.25	8.75	10.25	8.75	10.25	8.75
		159			10.25	8.75	10.25	8.75	10.25	8.75
	80 MHz Bandwidth	42					11.50	10.00	11.50	10.00
		58					9.75	8.25	9.75	8.25
		106					10.25	8.75	10.25	8.75
		122					10.25	8.75	10.25	8.75
		138					10.25	8.75	10.25	8.75
		155					10.25	8.75	10.25	8.75

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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 - Ant 1B	20 MHz Bandwidth	36	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		40	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		44	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		48	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
		52	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
		100	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		140	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		144	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		149	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		153	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		157	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		161	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
		165	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	40 MHz Bandwidth	38	[redacted]		11.50	10.00	11.50	10.00	11.50	10.00
		46			11.50	10.00	11.50	10.00	11.50	10.00
		54			9.75	8.25	9.75	8.25	9.75	8.25
		62			9.75	8.25	9.75	8.25	9.75	8.25
		102			10.25	8.75	10.25	8.75	10.25	8.75
		110			10.25	8.75	10.25	8.75	10.25	8.75
		118			10.25	8.75	10.25	8.75	10.25	8.75
		126			10.25	8.75	10.25	8.75	10.25	8.75
		134			10.25	8.75	10.25	8.75	10.25	8.75
		142			10.25	8.75	10.25	8.75	10.25	8.75
		151			10.25	8.75	10.25	8.75	10.25	8.75
		159			10.25	8.75	10.25	8.75	10.25	8.75
	80 MHz Bandwidth	42					11.50	10.00	11.50	10.00
		58					9.75	8.25	9.75	8.25
		106					10.25	8.75	10.25	8.75
		122					10.25	8.75	10.25	8.75
		138					10.25	8.75	10.25	8.75
		155					10.25	8.75	10.25	8.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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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 - Ant 1B	20 MHz Bandwidth	36	11.50	10.00	11.50	10.00	11.50	10.00
		40	11.50	10.00	11.50	10.00	11.50	10.00
		44	11.50	10.00	11.50	10.00	11.50	10.00
		48	11.50	10.00	11.50	10.00	11.50	10.00
		52	9.75	8.25	9.75	8.25	9.75	8.25
		56	9.75	8.25	9.75	8.25	9.75	8.25
		60	9.75	8.25	9.75	8.25	9.75	8.25
		64	9.75	8.25	9.75	8.25	9.75	8.25
		100	10.25	8.75	10.25	8.75	10.25	8.75
		104	10.25	8.75	10.25	8.75	10.25	8.75
		108	10.25	8.75	10.25	8.75	10.25	8.75
		112	10.25	8.75	10.25	8.75	10.25	8.75
		116	10.25	8.75	10.25	8.75	10.25	8.75
		120	10.25	8.75	10.25	8.75	10.25	8.75
		124	10.25	8.75	10.25	8.75	10.25	8.75
		128	10.25	8.75	10.25	8.75	10.25	8.75
		132	10.25	8.75	10.25	8.75	10.25	8.75
		136	10.25	8.75	10.25	8.75	10.25	8.75
		140	10.25	8.75	10.25	8.75	10.25	8.75
		144	10.25	8.75	10.25	8.75	10.25	8.75
		149	10.25	8.75	10.25	8.75	10.25	8.75
		153	10.25	8.75	10.25	8.75	10.25	8.75
		157	10.25	8.75	10.25	8.75	10.25	8.75
		161	10.25	8.75	10.25	8.75	10.25	8.75
		165	10.25	8.75	10.25	8.75	10.25	8.75
	40 MHz Bandwidth	38	11.50	10.00	11.50	10.00	11.50	10.00
		46	11.50	10.00	11.50	10.00	11.50	10.00
		54	9.75	8.25	9.75	8.25	9.75	8.25
		62	9.75	8.25	9.75	8.25	9.75	8.25
		102	10.25	8.75	10.25	8.75	10.25	8.75
		110	10.25	8.75	10.25	8.75	10.25	8.75
		118	10.25	8.75	10.25	8.75	10.25	8.75
		126	10.25	8.75	10.25	8.75	10.25	8.75
		134	10.25	8.75	10.25	8.75	10.25	8.75
		142	10.25	8.75	10.25	8.75	10.25	8.75
		151	10.25	8.75	10.25	8.75	10.25	8.75
		159	10.25	8.75	10.25	8.75	10.25	8.75
	80 MHz Bandwidth	42	[redacted]		11.50	10.00	11.50	10.00
		58			9.75	8.25	9.75	8.25
		106			10.25	8.75	10.25	8.75
		122			10.25	8.75	10.25	8.75
		138			10.25	8.75	10.25	8.75
		155			10.25	8.75	10.25	8.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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1.3.4 Reduced Time-Averaged Output Power

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

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3A/3B active
-Simultaneous conditions with LTE Inter-band ULCA active

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 3A	20 MHz Bandwidth	1	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		2	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		3	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		4	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		5	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		6	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		7	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		8	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		9	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		10	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		11	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		12	6.00	4.50	6.00	4.50	6.00	4.50	6.00	4.50
		13	6.00	4.50	6.00	4.50	6.00	4.50	N/A	N/A

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3A/3B active
-Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band			IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 3A	20 MHz Bandwidth	1	6.00	4.50	6.00	4.50	6.00	4.50
		2	6.00	4.50	6.00	4.50	6.00	4.50
		3	6.00	4.50	6.00	4.50	6.00	4.50
		4	6.00	4.50	6.00	4.50	6.00	4.50
		5	6.00	4.50	6.00	4.50	6.00	4.50
		6	6.00	4.50	6.00	4.50	6.00	4.50
		7	6.00	4.50	6.00	4.50	6.00	4.50
		8	6.00	4.50	6.00	4.50	6.00	4.50
		9	6.00	4.50	6.00	4.50	6.00	4.50
		10	6.00	4.50	6.00	4.50	6.00	4.50
		11	6.00	4.50	6.00	4.50	6.00	4.50
		12	6.00	4.50	6.00	4.50	6.00	4.50
		13	6.00	4.50	6.00	4.50	N/A	N/A

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1A active
-Simultaneous conditions with LTE Inter-band ULCA active

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 1A	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	6.75	5.25	6.75	5.25	N/A	N/A

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Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1A active
-Simultaneous conditions with LTE Inter-band ULCA active

Mode/ Band			IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)		IEEE 802.11ax SU (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - 2 Tx Chain (dBm) - Antenna 1A	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	6.75	5.25	6.75	5.25	N/A	N/A

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2A active
-Simultaneous conditions with LTE Inter-band ULCA active

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) - Ant 2A	20 MHz Bandwidth	36	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		40	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		44	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		48	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		52	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		56	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		60	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		64	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		100	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		104	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		108	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		112	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		116	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		120	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		124	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		128	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		132	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		136	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		140	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		144	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		149	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		153	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		157	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		161	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		165	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
	40 MHz Bandwidth	38	[redacted]		3.50	2.00	3.50	2.00	3.50	2.00
		46			3.50	2.00	3.50	2.00	3.50	2.00
		54			2.75	1.25	2.75	1.25	2.75	1.25
		62			2.75	1.25	2.75	1.25	2.75	1.25
		102			3.75	2.25	3.75	2.25	3.75	2.25
		110			3.75	2.25	3.75	2.25	3.75	2.25
		118			3.75	2.25	3.75	2.25	3.75	2.25
		126			3.75	2.25	3.75	2.25	3.75	2.25
		134			3.75	2.25	3.75	2.25	3.75	2.25
		142			3.75	2.25	3.75	2.25	3.75	2.25
		151			4.25	2.75	4.25	2.75	4.25	2.75
		159			4.25	2.75	4.25	2.75	4.25	2.75
	80 MHz Bandwidth	42					3.50	2.00	3.50	2.00
		58					2.75	1.25	2.75	1.25
		106					3.75	2.25	3.75	2.25
		122					3.75	2.25	3.75	2.25
		138					3.75	2.25	3.75	2.25
		155					4.25	2.75	4.25	2.75

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Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2A active
-Simultaneous conditions with LTE Inter-band ULCA active

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 - Ant 2A	20 MHz Bandwidth	36	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		40	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		44	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		48	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		52	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		56	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		60	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		64	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		100	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		104	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		108	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		112	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		116	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		120	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		124	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		128	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		132	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		136	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		140	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		144	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
		149	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		153	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		157	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		161	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
		165	4.25	2.75	4.25	2.75	4.25	2.75	4.25	2.75
	40 MHz Bandwidth	38			3.50	2.00	3.50	2.00	3.50	2.00
		46			3.50	2.00	3.50	2.00	3.50	2.00
		54			2.75	1.25	2.75	1.25	2.75	1.25
		62			2.75	1.25	2.75	1.25	2.75	1.25
		102			3.75	2.25	3.75	2.25	3.75	2.25
		110			3.75	2.25	3.75	2.25	3.75	2.25
		118			3.75	2.25	3.75	2.25	3.75	2.25
		126			3.75	2.25	3.75	2.25	3.75	2.25
		134			3.75	2.25	3.75	2.25	3.75	2.25
		142			3.75	2.25	3.75	2.25	3.75	2.25
		151			4.25	2.75	4.25	2.75	4.25	2.75
		159			4.25	2.75	4.25	2.75	4.25	2.75
	80 MHz Bandwidth	42					3.50	2.00	3.50	2.00
		58					2.75	1.25	2.75	1.25
		106					3.75	2.25	3.75	2.25
		122					3.75	2.25	3.75	2.25
		138					3.75	2.25	3.75	2.25
		155					4.25	2.75	4.25	2.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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

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 - Ant 2A	20 MHz Bandwidth	36	3.50	2.00	3.50	2.00	3.50	2.00
		40	3.50	2.00	3.50	2.00	3.50	2.00
		44	3.50	2.00	3.50	2.00	3.50	2.00
		48	3.50	2.00	3.50	2.00	3.50	2.00
		52	2.75	1.25	2.75	1.25	2.75	1.25
		56	2.75	1.25	2.75	1.25	2.75	1.25
		60	2.75	1.25	2.75	1.25	2.75	1.25
		64	2.75	1.25	2.75	1.25	2.75	1.25
		100	3.75	2.25	3.75	2.25	3.75	2.25
		104	3.75	2.25	3.75	2.25	3.75	2.25
		108	3.75	2.25	3.75	2.25	3.75	2.25
		112	3.75	2.25	3.75	2.25	3.75	2.25
		116	3.75	2.25	3.75	2.25	3.75	2.25
		120	3.75	2.25	3.75	2.25	3.75	2.25
		124	3.75	2.25	3.75	2.25	3.75	2.25
		128	3.75	2.25	3.75	2.25	3.75	2.25
		132	3.75	2.25	3.75	2.25	3.75	2.25
		136	3.75	2.25	3.75	2.25	3.75	2.25
		140	3.75	2.25	3.75	2.25	3.75	2.25
		144	3.75	2.25	3.75	2.25	3.75	2.25
		149	4.25	2.75	4.25	2.75	4.25	2.75
		153	4.25	2.75	4.25	2.75	4.25	2.75
		157	4.25	2.75	4.25	2.75	4.25	2.75
		161	4.25	2.75	4.25	2.75	4.25	2.75
		165	4.25	2.75	4.25	2.75	4.25	2.75
	40 MHz Bandwidth	38	3.50	2.00	3.50	2.00	3.50	2.00
		46	3.50	2.00	3.50	2.00	3.50	2.00
		54	2.75	1.25	2.75	1.25	2.75	1.25
		62	2.75	1.25	2.75	1.25	2.75	1.25
		102	3.75	2.25	3.75	2.25	3.75	2.25
		110	3.75	2.25	3.75	2.25	3.75	2.25
		118	3.75	2.25	3.75	2.25	3.75	2.25
		126	3.75	2.25	3.75	2.25	3.75	2.25
		134	3.75	2.25	3.75	2.25	3.75	2.25
		142	3.75	2.25	3.75	2.25	3.75	2.25
		151	4.25	2.75	4.25	2.75	4.25	2.75
		159	4.25	2.75	4.25	2.75	4.25	2.75
	80 MHz Bandwidth	42	[redacted]		3.50	2.00	3.50	2.00
		58			2.75	1.25	2.75	1.25
		106			3.75	2.25	3.75	2.25
		122			3.75	2.25	3.75	2.25
		138			3.75	2.25	3.75	2.25
		155			4.25	2.75	4.25	2.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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-Simultaneous conditions with LTE Inter-band ULCA active

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) - Ant 2B	20 MHz Bandwidth	36	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		40	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		44	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		48	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		52	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		56	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		60	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		64	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		100	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		104	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		108	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		112	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		116	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		120	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		124	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		128	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		132	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		136	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		140	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		144	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		149	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		153	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		157	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		161	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		165	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	40 MHz Bandwidth	38	[redacted]		3.50	2.00	3.50	2.00	3.50	2.00
		46			3.50	2.00	3.50	2.00	3.50	2.00
		54			4.50	3.00	4.50	3.00	4.50	3.00
		62			4.50	3.00	4.50	3.00	4.50	3.00
		102			3.25	1.75	3.25	1.75	3.25	1.75
		110			3.25	1.75	3.25	1.75	3.25	1.75
		118			3.25	1.75	3.25	1.75	3.25	1.75
		126			3.25	1.75	3.25	1.75	3.25	1.75
		134			3.25	1.75	3.25	1.75	3.25	1.75
		142			3.25	1.75	3.25	1.75	3.25	1.75
		151			2.75	1.25	2.75	1.25	2.75	1.25
		159			2.75	1.25	2.75	1.25	2.75	1.25
	80 MHz Bandwidth	42			[redacted]		3.50	2.00	3.50	2.00
		58					4.50	3.00	4.50	3.00
		106					3.25	1.75	3.25	1.75
		122					3.25	1.75	3.25	1.75
		138					3.25	1.75	3.25	1.75
		155					2.75	1.25	2.75	1.25

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-Simultaneous conditions with LTE Inter-band ULCA active

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 - Ant 2B	20 MHz Bandwidth	36	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		40	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		44	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		48	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
		52	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		56	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		60	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		64	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		100	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		104	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		108	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		112	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		116	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		120	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		124	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		128	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		132	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		136	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		140	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		144	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		149	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		153	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		157	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		161	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		165	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	40 MHz Bandwidth	38			3.50	2.00	3.50	2.00	3.50	2.00
		46			3.50	2.00	3.50	2.00	3.50	2.00
		54			4.50	3.00	4.50	3.00	4.50	3.00
		62			4.50	3.00	4.50	3.00	4.50	3.00
		102			3.25	1.75	3.25	1.75	3.25	1.75
		110			3.25	1.75	3.25	1.75	3.25	1.75
		118			3.25	1.75	3.25	1.75	3.25	1.75
		126			3.25	1.75	3.25	1.75	3.25	1.75
		134			3.25	1.75	3.25	1.75	3.25	1.75
		142			3.25	1.75	3.25	1.75	3.25	1.75
		151			2.75	1.25	2.75	1.25	2.75	1.25
		159			2.75	1.25	2.75	1.25	2.75	1.25
	80 MHz Bandwidth	42					3.50	2.00	3.50	2.00
		58					4.50	3.00	4.50	3.00
		106					3.25	1.75	3.25	1.75
		122					3.25	1.75	3.25	1.75
		138					3.25	1.75	3.25	1.75
		155					2.75	1.25	2.75	1.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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-Simultaneous conditions with LTE Inter-band ULCA active

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 - Ant 2B	20 MHz Bandwidth	36	3.50	2.00	3.50	2.00	3.50	2.00
		40	3.50	2.00	3.50	2.00	3.50	2.00
		44	3.50	2.00	3.50	2.00	3.50	2.00
		48	3.50	2.00	3.50	2.00	3.50	2.00
		52	4.50	3.00	4.50	3.00	4.50	3.00
		56	4.50	3.00	4.50	3.00	4.50	3.00
		60	4.50	3.00	4.50	3.00	4.50	3.00
		64	4.50	3.00	4.50	3.00	4.50	3.00
		100	3.25	1.75	3.25	1.75	3.25	1.75
		104	3.25	1.75	3.25	1.75	3.25	1.75
		108	3.25	1.75	3.25	1.75	3.25	1.75
		112	3.25	1.75	3.25	1.75	3.25	1.75
		116	3.25	1.75	3.25	1.75	3.25	1.75
		120	3.25	1.75	3.25	1.75	3.25	1.75
		124	3.25	1.75	3.25	1.75	3.25	1.75
		128	3.25	1.75	3.25	1.75	3.25	1.75
		132	3.25	1.75	3.25	1.75	3.25	1.75
		136	3.25	1.75	3.25	1.75	3.25	1.75
		140	3.25	1.75	3.25	1.75	3.25	1.75
		144	3.25	1.75	3.25	1.75	3.25	1.75
		149	2.75	1.25	2.75	1.25	2.75	1.25
		153	2.75	1.25	2.75	1.25	2.75	1.25
		157	2.75	1.25	2.75	1.25	2.75	1.25
		161	2.75	1.25	2.75	1.25	2.75	1.25
		165	2.75	1.25	2.75	1.25	2.75	1.25
	40 MHz Bandwidth	38	3.50	2.00	3.50	2.00	3.50	2.00
		46	3.50	2.00	3.50	2.00	3.50	2.00
		54	4.50	3.00	4.50	3.00	4.50	3.00
		62	4.50	3.00	4.50	3.00	4.50	3.00
		102	3.25	1.75	3.25	1.75	3.25	1.75
		110	3.25	1.75	3.25	1.75	3.25	1.75
		118	3.25	1.75	3.25	1.75	3.25	1.75
		126	3.25	1.75	3.25	1.75	3.25	1.75
		134	3.25	1.75	3.25	1.75	3.25	1.75
		142	3.25	1.75	3.25	1.75	3.25	1.75
		151	2.75	1.25	2.75	1.25	2.75	1.25
		159	2.75	1.25	2.75	1.25	2.75	1.25
	80 MHz Bandwidth	42			3.50	2.00	3.50	2.00
		58			4.50	3.00	4.50	3.00
		106			3.25	1.75	3.25	1.75
		122			3.25	1.75	3.25	1.75
		138			3.25	1.75	3.25	1.75
		155			2.75	1.25	2.75	1.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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-Simultaneous conditions with LTE Inter-band ULCA active

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) - Ant 1B	20 MHz Bandwidth	36	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		40	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		44	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		48	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		52	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		56	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		60	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		64	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		100	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		104	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		108	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		112	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		116	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		120	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		124	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		128	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		132	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		136	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		140	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		144	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		149	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		153	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		157	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		161	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		165	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
	40 MHz Bandwidth	38	[redacted]		4.50	3.00	4.50	3.00	4.50	3.00
		46			4.50	3.00	4.50	3.00	4.50	3.00
		54			2.75	1.25	2.75	1.25	2.75	1.25
		62			2.75	1.25	2.75	1.25	2.75	1.25
		102			3.25	1.75	3.25	1.75	3.25	1.75
		110			3.25	1.75	3.25	1.75	3.25	1.75
		118			3.25	1.75	3.25	1.75	3.25	1.75
		126			3.25	1.75	3.25	1.75	3.25	1.75
		134			3.25	1.75	3.25	1.75	3.25	1.75
		142			3.25	1.75	3.25	1.75	3.25	1.75
		151			3.25	1.75	3.25	1.75	3.25	1.75
		159			3.25	1.75	3.25	1.75	3.25	1.75
	80 MHz Bandwidth	42					4.50	3.00	4.50	3.00
		58					2.75	1.25	2.75	1.25
		106					3.25	1.75	3.25	1.75
		122					3.25	1.75	3.25	1.75
		138					3.25	1.75	3.25	1.75
		155					3.25	1.75	3.25	1.75

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-Simultaneous conditions with LTE Inter-band ULCA active

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 - Ant 1B	20 MHz Bandwidth	36	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		40	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		44	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		48	4.50	3.00	4.50	3.00	4.50	3.00	4.50	3.00
		52	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		56	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		60	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		64	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
		100	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		104	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		108	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		112	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		116	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		120	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		124	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		128	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		132	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		136	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		140	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		144	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		149	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		153	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		157	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		161	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
		165	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
	40 MHz Bandwidth	38			4.50	3.00	4.50	3.00	4.50	3.00
		46			4.50	3.00	4.50	3.00	4.50	3.00
		54			2.75	1.25	2.75	1.25	2.75	1.25
		62			2.75	1.25	2.75	1.25	2.75	1.25
		102			3.25	1.75	3.25	1.75	3.25	1.75
		110			3.25	1.75	3.25	1.75	3.25	1.75
		118			3.25	1.75	3.25	1.75	3.25	1.75
		126			3.25	1.75	3.25	1.75	3.25	1.75
		134			3.25	1.75	3.25	1.75	3.25	1.75
		142			3.25	1.75	3.25	1.75	3.25	1.75
		151			3.25	1.75	3.25	1.75	3.25	1.75
		159			3.25	1.75	3.25	1.75	3.25	1.75
	80 MHz Bandwidth	42					4.50	3.00	4.50	3.00
		58					2.75	1.25	2.75	1.25
		106					3.25	1.75	3.25	1.75
		122					3.25	1.75	3.25	1.75
		138					3.25	1.75	3.25	1.75
		155					3.25	1.75	3.25	1.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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-Simultaneous conditions with LTE Inter-band ULCA active

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 - Ant 1B	20 MHz Bandwidth	36	4.50	3.00	4.50	3.00	4.50	3.00
		40	4.50	3.00	4.50	3.00	4.50	3.00
		44	4.50	3.00	4.50	3.00	4.50	3.00
		48	4.50	3.00	4.50	3.00	4.50	3.00
		52	2.75	1.25	2.75	1.25	2.75	1.25
		56	2.75	1.25	2.75	1.25	2.75	1.25
		60	2.75	1.25	2.75	1.25	2.75	1.25
		64	2.75	1.25	2.75	1.25	2.75	1.25
		100	3.25	1.75	3.25	1.75	3.25	1.75
		104	3.25	1.75	3.25	1.75	3.25	1.75
		108	3.25	1.75	3.25	1.75	3.25	1.75
		112	3.25	1.75	3.25	1.75	3.25	1.75
		116	3.25	1.75	3.25	1.75	3.25	1.75
		120	3.25	1.75	3.25	1.75	3.25	1.75
		124	3.25	1.75	3.25	1.75	3.25	1.75
		128	3.25	1.75	3.25	1.75	3.25	1.75
		132	3.25	1.75	3.25	1.75	3.25	1.75
		136	3.25	1.75	3.25	1.75	3.25	1.75
		140	3.25	1.75	3.25	1.75	3.25	1.75
		144	3.25	1.75	3.25	1.75	3.25	1.75
		149	3.25	1.75	3.25	1.75	3.25	1.75
		153	3.25	1.75	3.25	1.75	3.25	1.75
		157	3.25	1.75	3.25	1.75	3.25	1.75
		161	3.25	1.75	3.25	1.75	3.25	1.75
		165	3.25	1.75	3.25	1.75	3.25	1.75
	40 MHz Bandwidth	38	4.50	3.00	4.50	3.00	4.50	3.00
		46	4.50	3.00	4.50	3.00	4.50	3.00
		54	2.75	1.25	2.75	1.25	2.75	1.25
		62	2.75	1.25	2.75	1.25	2.75	1.25
		102	3.25	1.75	3.25	1.75	3.25	1.75
		110	3.25	1.75	3.25	1.75	3.25	1.75
		118	3.25	1.75	3.25	1.75	3.25	1.75
		126	3.25	1.75	3.25	1.75	3.25	1.75
		134	3.25	1.75	3.25	1.75	3.25	1.75
		142	3.25	1.75	3.25	1.75	3.25	1.75
		151	3.25	1.75	3.25	1.75	3.25	1.75
		159	3.25	1.75	3.25	1.75	3.25	1.75
	80 MHz Bandwidth	42			4.50	3.00	4.50	3.00
		58			2.75	1.25	2.75	1.25
		106			3.25	1.75	3.25	1.75
		122			3.25	1.75	3.25	1.75
		138			3.25	1.75	3.25	1.75
		155			3.25	1.75	3.25	1.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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1.3.5 Bluetooth Maximum Output Power

Mode / Band		Modulated Average - Single Tx Chain (dBm) - Ant 3A
Bluetooth BDR/LE	Maximum	**13.75**
	Nominal	**12.25**
Bluetooth EDR	Maximum	**13.00**
	Nominal	**11.50**
Bluetooth HDR	Maximum	**11.00**
	Nominal	**9.50**

Mode / Band		Modulated Average - MIMO (dBm) - Ant 3A
Bluetooth BDR/LE	Maximum	**13.75**
	Nominal	**12.25**
Bluetooth EDR	Maximum	**13.00**
	Nominal	**11.50**
Bluetooth HDR	Maximum	**11.00**
	Nominal	**9.50**

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Mode / Band		Modulated Average - Single Tx Chain (dBm) - Ant 1A
Bluetooth BDR/LE	Maximum	**13.75**
	Nominal	**12.25**
Bluetooth EDR	Maximum	**13.00**
	Nominal	**11.50**
Bluetooth HDR	Maximum	**11.00**
	Nominal	**9.50**

Mode / Band		Modulated Average - MIMO (dBm) - Ant 1A
Bluetooth BDR/LE	Maximum	**13.75**
	Nominal	**12.25**
Bluetooth EDR	Maximum	**13.00**
	Nominal	**11.50**
Bluetooth HDR	Maximum	**11.00**
	Nominal	**9.50**

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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1.3.1 Bluetooth Reduced Output Power

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3A/3B Active
-Simultaneous conditions with LTE Inter-band ULCA

Mode / Band		Modulated Average - Single Tx Chain (dBm) - Ant 3A
Bluetooth BDR/LE Reduced	Maximum	**6.75**
	Nominal	**5.25**
Bluetooth EDR Reduced	Maximum	**6.75**
	Nominal	**5.25**
Bluetooth HDR Reduced	Maximum	**6.75**
	Nominal	**5.25**

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 3A/3B active
-Simultaneous conditions with LTE Inter-band ULCA active

Mode / Band		Modulated Average - MIMO (dBm) - Ant 3A
Bluetooth BDR/LE Reduced	Maximum	**6.75**
	Nominal	**5.25**
Bluetooth EDR Reduced	Maximum	**6.75**
	Nominal	**5.25**
Bluetooth HDR Reduced	Maximum	**6.75**
	Nominal	**5.25**

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1A active
-Simultaneous conditions with Licensed Bands Antenna 1A active and/or 5 GHz WLAN
-Simultaneous conditions with LTE Inter-band ULCA active
-Simultaneous conditions with LTE Inter-band ULCA active and/or 5 GHz WLAN

Mode / Band		Modulated Average - Single Tx Chain (dBm) - Ant 1A
Bluetooth BDR/LE Reduced	Maximum	**6.75**
	Nominal	**5.25**
Bluetooth EDR Reduced	Maximum	**6.75**
	Nominal	**5.25**
Bluetooth HDR Reduced	Maximum	**6.75**
	Nominal	**5.25**

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Below table is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1A active
-Simultaneous conditions with Licensed Bands Antenna 1A active and/or 5 GHz WLAN
-Simultaneous conditions with LTE Inter-band ULCA active
-Simultaneous conditions with LTE Inter-band ULCA active and/or 5 GHz WLAN

Mode / Band		Modulated Average - MIMO (dBm) - Ant 1A
Bluetooth BDR/LE Reduced	Maximum	**6.75**
	Nominal	**5.25**
Bluetooth EDR Reduced	Maximum	**6.75**
	Nominal	**5.25**
Bluetooth HDR Reduced	Maximum	**6.75**
	Nominal	**5.25**

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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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 4	Yes	No	Yes	No	No	Yes
GPRS 1900 Ant 4	Yes	No	Yes	No	No	Yes
UMTS 850 Ant 4	Yes	No	Yes	No	No	Yes
UMTS 1750 Ant 4	Yes	No	Yes	No	No	Yes
UMTS 1900 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 71 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 12 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 13 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 14 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 26 (Cell) Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 5 (Cell) Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 4 (AWS) Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 66 (AWS) Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 2 (PCS) Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 25 (PCS) Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 30 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 7 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 41 Ant 4	Yes	No	Yes	No	No	Yes
LTE Band 48 Ant 4	Yes	No	Yes	No	No	Yes
GPRS 850 Ant 3B	Yes	No	Yes	No	Yes	No
UMTS 850 Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 71 Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 12 Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 13 Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 14 Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 26 (Cell) Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 5 (Cell) Ant 3B	Yes	No	Yes	No	Yes	No
LTE Band 48 Ant 3B	Yes	No	Yes	No	Yes	No
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 1A	Yes	No	No	Yes	No	Yes
UMTS 1750 Ant 1A	Yes	No	No	Yes	No	Yes
UMTS 1900 Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 4 (AWS) Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 66 (AWS) Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 2 (PCS) Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 25 (PCS) Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 30 Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 7 Ant 1A	Yes	No	No	Yes	No	Yes
LTE Band 41 Ant 1A	Yes	No	No	Yes	No	Yes
GPRS 1900 Ant 3A	Yes	No	Yes	No	Yes	No
UMTS 1750 Ant 3A	Yes	No	Yes	No	Yes	No
UMTS 1900 Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 4 (AWS) Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 66 (AWS) Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 2 (PCS) Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 25 (PCS) Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 30 Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 7 Ant 3A	Yes	No	Yes	No	Yes	No
LTE Band 41 Ant 3A	Yes	No	Yes	No	Yes	No
2.4 GHz WLAN Ant 1A	Yes	No	No	Yes	No	Yes
2.4 GHz WLAN Ant 3A	Yes	No	Yes	No	Yes	No
WLAN 5GHz Ant 1B	Yes	No	No	Yes	No	Yes
WLAN 5GHz Ant 2A	Yes	No	No	Yes	Yes	No
WLAN 5GHz Ant 2B	Yes	No	No	Yes	Yes	No
Bluetooth Ant 1A	Yes	No	No	Yes	No	Yes
Bluetooth Ant 3A	Yes	No	Yes	No	Yes	No

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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.

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.	Capable Transmit Configuration	Body	Notes
1	Cellular Ant 4 + Cellular Ant 3B	Yes	LTE Bands transmitting from Ant 4: LTE B2/4/7/30/66 LTE Bands transmitting from Ant 3B: LTE B5/12/13/14
2	Cellular Ant 4 + Cellular Ant 2A	Yes	LTE Bands transmitting from Ant 4: LTE B5/12/13/14 LTE Bands transmitting from Ant 2A: LTE B2/4/7/30/66
3	Cellular Ant 4 + Cellular Ant 1A	Yes	LTE Bands transmitting from Ant 4: LTE B5/12/13/14 LTE Bands transmitting from Ant 1A: LTE B2/4/7/30/66
4	Cellular Ant 4 + Cellular Ant 3A	Yes	LTE Bands transmitting from Ant 4: LTE B5/12/13/14 LTE Bands transmitting from Ant 3A: LTE B2/4/7/30/66
5	Cellular Ant 3B + Cellular Ant 1A	Yes	LTE Bands transmitting from Ant 3B: LTE B5/12/13/14 LTE Bands transmitting from Ant 1A: LTE B2/4/7/30/66
6	Cellular Ant 3B + Cellular Ant 3A	Yes	LTE Bands transmitting from Ant 3B: LTE B5/12/13/14 LTE Bands transmitting from Ant 3A: LTE B2/4/7/30/66

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

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Table 1-4
Simultaneous Transmission Scenarios of 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. 5 GHz WLAN Ant 1B and Ant 2A cannot transmit simultaneously.
4. 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.
5. While 5 GHz MIMO is active, 5 GHz Ant 2B and Ant 2A or 5 GHz Ant 2B and Ant 1B can be transmitting together.
6. This device supports VOWIFI.

1.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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) 1 2 Tx antenna output
d) 256 QAM is supported
e) TDWR and Band gap channels are supported

This device supports IEEE 802.11ax with the following features:
a) Up to 80 MHz Bandwidth only for 5 GHz
b) Up to 20 MHz Bandwidth only for 2.4 GHz

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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 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 $\leq$ 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 condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 13.1).

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

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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, Proximity Sensor)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 2/3)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- 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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2 LTE INFORMATION

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 (23060)		707.5 (23095)	711 (23130)	
LTE Band 17: 5 MHz	706.5 (23755)		710 (23790)	713.5 (23825)	
LTE Band 17: 10 MHz	709 (23780)		710 (23790)	711 (23800)	
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	N/A		782 (23230)	N/A	
LTE Band 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 (26683)	
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)		1882.5 (26365)	1913.5 (26675)	
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)		1882.5 (26365)	1912.5 (26665)	
LTE Band 25 (PCS): 10 MHz	1855 (26090)		1882.5 (26365)	1910 (26640)	
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)		1882.5 (26365)	1907.5 (26615)	
LTE Band 25 (PCS): 20 MHz	1860 (26140)		1882.5 (26365)	1905 (26590)	
LTE Band 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)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	N/A	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)	3695 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)	3690 (56640)
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/m^3)
E = Total RMS electric field strength (V/m)

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

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

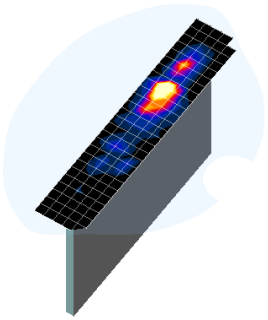


Figure 4-1
Sample SAR Area Scan

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.

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

Frequency	Maximum Area Scan Resolution (mm) (Δx_{area}, Δy_{area})	Maximum Zoom Scan Resolution (mm) (Δx_{zoom}, Δy_{zoom})	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
			$\Delta z_{zoom}(n)$	$\Delta z_{zoom}(1)$*	$\Delta z_{zoom}(n>1)$*	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	≤ 1.5*$\Delta z_{zoom}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	≤ 1.5*$\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	≤ 1.5*$\Delta z_{zoom}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	≤ 1.5*$\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	≤ 1.5*$\Delta z_{zoom}(n-1)$	≥ 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 ε = 3 and loss tangent δ = 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.

5.3 Proximity Sensor Considerations

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

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

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

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6 RF EXPOSURE LIMITS

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

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
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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7 FCC MEASUREMENT PROCEDURES

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 tablet device 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 ½ 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

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

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:

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1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.

2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

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

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

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 4

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	31.10	**28.18**	27.26	26.50
	190	31.05	**28.18**	27.24	26.28
	251	31.04	**28.15**	27.20	26.28
GSM 1900	512	25.98	**22.81**	25.77	22.83
	661	25.94	**22.84**	25.78	22.87
	810	25.82	**22.84**	25.83	22.90
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	21.90	**21.99**	18.06	20.31
	190	21.85	**21.99**	18.04	20.09
	251	21.84	**21.96**	18.00	20.09
GSM 1900	512	16.78	**16.62**	16.57	16.64
	661	16.74	**16.65**	16.58	16.68
	810	16.62	**16.65**	16.63	16.71
GSM 850	**Frame Avg.Targets:**	21.25	**21.26**	17.55	19.56
GSM 1900		16.05	**16.06**	16.05	16.06

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Table 8-2
Conducted Power Ant 3B

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	27.74	**24.74**	25.98	24.75
	190	27.66	**24.69**	25.90	24.68
	251	27.64	**24.72**	25.93	24.73
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	18.54	**18.55**	16.78	18.56
	190	18.46	**18.50**	16.70	18.49
	251	18.44	**18.53**	16.73	18.54
GSM 850	**Frame Avg.Targets:**	17.85	**17.86**	16.05	17.86

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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	24.05	**20.98**	22.83	21.12
	661	23.88	**20.86**	22.71	21.00
	810	23.51	**20.70**	22.59	20.86
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	14.85	**14.79**	13.63	14.93
	661	14.68	**14.67**	13.51	14.81
	810	14.31	**14.51**	13.39	14.67
GSM 1900	**Frame Avg.Targets:**	14.25	**14.26**	13.05	14.26

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Table 8-4
Conducted Power Ant 1A

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	24.91	**21.78**	23.67	21.91
	661	24.86	**21.70**	23.66	21.89
	810	24.96	**21.76**	23.79	21.99
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	15.71	**15.59**	14.47	15.72
	661	15.66	**15.51**	14.46	15.70
	810	15.76	**15.57**	14.59	15.80
GSM 1900	**Frame Avg.Targets:**	15.05	**15.06**	14.05	15.06

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Table 8-5
Conducted Power Ant 3A

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	22.66	**20.26**	22.68	20.39
	661	22.67	**20.24**	22.64	20.36
	810	22.67	**20.29**	22.61	20.28
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	13.46	**14.07**	13.48	14.20
	661	13.47	**14.05**	13.44	14.17
	810	13.47	**14.10**	13.41	14.09
GSM 1900	**Frame Avg.Targets:**	13.45	**13.46**	13.45	13.46

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Note:

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

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



Figure 8-1
Power Measurement Setup

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8.2 UMTS Conducted Powers

Table 8-6
Conducted Power Ant 4

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	20.95	20.98	20.84	15.49	15.32	15.43	16.27	16.27	16.28	-
6	HSDPA	Subtest 1	20.91	20.93	20.83	15.45	15.42	15.21	16.27	16.29	16.30	0
6		Subtest 2	20.87	20.90	20.80	15.32	15.38	15.31	16.25	16.29	16.27	0
6		Subtest 3	20.85	20.88	20.74	15.38	15.39	15.30	16.25	16.30	16.24	0
6		Subtest 4	20.84	20.86	20.73	15.39	15.44	15.29	16.26	16.29	16.25	0
6	HSUPA	Subtest 1	20.75	20.71	20.60	15.33	15.35	15.24	16.27	16.29	16.28	0
6		Subtest 2	20.80	20.85	20.71	15.32	15.40	15.23	16.28	16.30	16.26	0
6		Subtest 3	20.73	20.70	20.60	15.31	15.33	15.22	16.27	16.29	16.27	0
6		Subtest 4	20.78	20.79	20.64	15.29	15.32	15.26	16.28	16.29	16.27	0
6		Subtest 5	20.93	20.89	20.76	15.29	15.31	15.26	16.29	16.28	16.28	0
8	DC-HSDPA	Subtest 1	20.96	20.90	20.78	15.40	15.38	15.26	16.28	16.29	16.30	0
8		Subtest 2	20.92	20.89	20.78	15.39	15.37	15.31	16.30	16.28	16.28	0
8		Subtest 3	20.91	20.88	20.76	15.35	15.36	15.24	16.26	16.30	16.29	0
8		Subtest 4	20.92	20.86	20.75	15.33	15.34	15.25	16.25	16.29	16.28	0

Table 8-7
Conducted Power Ant 3B

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	18.09	18.00	18.10	-
6	HSDPA	Subtest 1	18.08	17.98	18.10	0
6		Subtest 2	18.01	17.93	18.05	0
6		Subtest 3	18.00	17.89	18.00	0
6		Subtest 4	17.98	17.88	17.98	0
6	HSUPA	Subtest 1	18.05	17.93	18.05	0
6		Subtest 2	17.96	17.88	17.95	0
6		Subtest 3	17.99	17.90	17.97	0
6		Subtest 4	17.95	17.89	17.94	0
6		Subtest 5	18.04	17.92	18.05	0
8	DC-HSDPA	Subtest 1	18.10	17.94	18.06	0
8		Subtest 2	18.05	17.96	18.05	0
8		Subtest 3	18.04	17.93	18.00	0
8		Subtest 4	18.02	17.90	17.95	0

Table 8-8
Conducted Power Ant 2A

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	14.61	14.80	14.65	14.66	14.58	14.51	-
6	HSDPA	Subtest 1	14.90	14.80	14.81	14.69	14.65	14.76	0
6		Subtest 2	14.90	14.84	14.90	14.78	14.72	14.77	0
6		Subtest 3	14.90	14.83	14.90	14.75	14.79	14.68	0
6		Subtest 4	14.90	14.84	14.90	14.66	14.77	14.72	0
6	HSUPA	Subtest 1	14.74	14.69	14.78	14.65	14.53	14.54	0
6		Subtest 2	14.90	14.78	14.84	14.80	14.77	14.68	0
6		Subtest 3	14.75	14.67	14.72	14.67	14.61	14.58	0
6		Subtest 4	14.84	14.57	14.61	14.77	14.48	14.39	0
6		Subtest 5	14.87	14.79	14.88	14.80	14.75	14.73	0
8	DC-HSDPA	Subtest 1	14.88	14.78	14.86	14.69	14.48	14.72	0
8		Subtest 2	14.70	14.45	14.57	14.30	14.75	14.55	0
8		Subtest 3	14.19	14.18	14.08	14.11	14.20	14.24	0
8		Subtest 4	14.15	14.34	14.40	14.08	14.23	14.22	0

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Table 8-9
Conducted Power Ant 1A

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	14.64	14.73	14.43	14.59	14.48	14.61	-
6	HSDPA	Subtest 1	14.76	14.84	14.52	14.60	14.66	14.78	0
6		Subtest 2	14.75	14.71	14.49	14.59	14.57	14.71	0
6		Subtest 3	14.71	14.74	14.48	14.63	14.58	14.69	0
6		Subtest 4	14.70	14.75	14.45	14.66	14.55	14.70	0
6	HSUPA	Subtest 1	14.73	14.78	14.50	14.59	14.51	14.70	0
6		Subtest 2	14.77	14.71	14.44	14.65	14.62	14.71	0
6		Subtest 3	14.74	14.69	14.45	14.61	14.59	14.68	0
6		Subtest 4	14.72	14.73	14.43	14.58	14.54	14.57	0
6		Subtest 5	14.79	14.81	14.53	14.60	14.51	14.68	0
8	DC-HSDPA	Subtest 1	14.82	14.83	14.49	14.58	14.47	14.60	0
8		Subtest 2	14.75	14.77	14.49	14.68	14.57	14.63	0
8		Subtest 3	14.70	14.73	14.51	14.58	14.49	14.64	0
8		Subtest 4	14.71	14.76	14.45	14.58	14.52	14.62	0

Table 8-10
Conducted Power Ant 3A

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	13.82	13.99	13.73	14.20	13.99	14.07	-
6	HSDPA	Subtest 1	13.85	13.94	13.76	13.70	13.62	13.75	0
6		Subtest 2	13.82	13.91	13.75	13.74	13.68	13.79	0
6		Subtest 3	13.82	13.92	13.75	13.77	13.61	13.69	0
6		Subtest 4	13.81	13.91	13.76	13.73	13.66	13.71	0
6	HSUPA	Subtest 1	13.83	13.92	13.70	13.68	13.65	13.78	0
6		Subtest 2	13.77	13.93	13.70	13.78	13.67	13.80	0
6		Subtest 3	13.82	13.91	13.66	13.76	13.65	13.71	0
6		Subtest 4	13.80	13.92	13.67	13.50	13.62	13.69	0
6		Subtest 5	13.87	13.90	13.71	13.77	13.61	13.75	0
8	DC-HSDPA	Subtest 1	13.86	13.99	13.76	13.69	13.59	13.71	0
8		Subtest 2	13.85	13.96	13.75	13.79	13.67	13.78	0
8		Subtest 3	13.86	13.99	13.76	13.77	13.68	13.76	0
8		Subtest 4	13.85	13.98	13.75	13.73	13.69	13.73	0

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 8-11
LTE Band 71 Conducted Powers Ant 4 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**22.45**	0	0
	1	50	22.30		0
	1	99	22.43		0
	50	0	22.18	0-1	0
	50	25	**22.27**		0
	50	50	22.26		0
	100	0	22.25		0
16QAM	1	0	22.41	0-1	0
	1	50	22.14		0
	1	99	22.30		0
	50	0	21.68	0-2	0
	50	25	21.76		0
	50	50	21.75		0
	100	0	21.77		0
64QAM	1	0	22.15	0-2	0
	1	50	21.98		0
	1	99	22.07		0
	50	0	21.75	0-3	0
	50	25	21.76		0
	50	50	21.74		0
	100	0	21.78		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 8-12
LTE Band 71 Conducted Powers Ant 4 - 15 MHz Bandwidth

LTE Band 71 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	22.45	0	0
	1	36	22.35		0
	1	74	22.16		0
	36	0	22.30	0-1	0
	36	18	22.37		0
	36	37	22.28		0
	75	0	22.38		0
16QAM	1	0	22.50	0-1	0
	1	36	22.50		0
	1	74	22.30		0
	36	0	22.06	0-2	0
	36	18	22.16		0
	36	37	22.10		0
	75	0	22.16		0
64QAM	1	0	22.43	0-2	0
	1	36	22.42		0
	1	74	22.23		0
	36	0	22.12	0-3	0
	36	18	22.22		0
	36	37	22.13		0
	75	0	22.16		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 8-13
LTE Band 71 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 71 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 133172 (668.0 MHz)	Mid Channel 133297 (680.5 MHz)	High Channel 133422 (693.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	22.48	22.30	22.32	0	0
	1	25	22.48	22.24	22.24		0
	1	49	22.23	22.33	22.37		0
	25	0	22.36	22.30	22.33	0-1	0
	25	12	22.31	22.32	22.32		0
	25	25	22.33	22.38	22.35		0
	50	0	22.34	22.35	22.35		0
16QAM	1	0	22.46	22.49	22.36	0-1	0
	1	25	22.32	22.40	22.46		0
	1	49	22.24	22.49	22.50		0
	25	0	22.18	22.11	22.13	0-2	0
	25	12	22.07	22.08	22.12		0
	25	25	22.12	22.14	22.17		0
	50	0	22.11	22.12	22.17		0
64QAM	1	0	22.48	22.35	22.35	0-2	0
	1	25	22.22	22.46	22.34		0
	1	49	22.18	22.47	22.50		0
	25	0	22.17	22.06	22.11	0-3	0
	25	12	22.17	22.09	22.13		0
	25	25	22.13	22.14	22.19		0
	50	0	22.14	22.14	22.16		0

Table 8-14
LTE Band 71 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 71 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 133147 (665.5 MHz)	Mid Channel 133297 (680.5 MHz)	High Channel 133447 (695.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	22.18	22.13	22.23	0	0
	1	12	22.02	22.14	22.28		0
	1	24	21.96	22.21	22.42		0
	12	0	22.19	22.06	22.02	0-1	0
	12	6	22.12	22.05	22.08		0
	12	13	22.08	22.10	22.16		0
	25	0	22.13	22.08	22.11		0
16QAM	1	0	22.50	22.13	22.19	0-1	0
	1	12	22.28	22.12	22.48		0
	1	24	22.27	22.20	22.38		0
	12	0	21.98	21.80	21.77	0-2	0
	12	6	21.83	21.83	21.79		0
	12	13	21.91	21.81	21.92		0
	25	0	21.82	21.77	21.85		0
64QAM	1	0	22.31	22.10	22.35	0-2	0
	1	12	22.08	22.16	22.25		0
	1	24	22.02	22.31	22.27		0
	12	0	21.91	21.77	21.75	0-3	0
	12	6	21.84	21.76	21.82		0
	12	13	21.82	21.83	21.87		0
	25	0	21.82	21.77	21.78		0

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Table 8-15
LTE Band 71 Conducted Powers Ant 3B - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.83	0	0
	1	50	19.97		0
	1	99	**20.00**		0
	50	0	19.99	0-1	0
	50	25	19.84		0
	50	50	**20.03**		0
	100	0	19.93		0
16QAM	1	0	19.90	0-1	0
	1	50	19.70		0
	1	99	19.98		0
	50	0	19.42	0-2	0
	50	25	19.32		0
	50	50	19.35		0
	100	0	19.36		0
64QAM	1	0	19.98	0-2	0
	1	50	19.74		0
	1	99	20.00		0
	50	0	19.67	0-3	0
	50	25	19.59		0
	50	50	19.61		0
	100	0	19.60		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 8-16
LTE Band 71 Conducted Powers Ant 3B - 15 MHz Bandwidth

LTE Band 71 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.49	0	0
	1	36	19.74		0
	1	74	19.32		0
	36	0	19.68	0-1	0
	36	18	19.78		0
	36	37	19.60		0
	75	0	19.74		0
16QAM	1	0	19.32	0-1	0
	1	36	19.66		0
	1	74	19.23		0
	36	0	19.32	0-2	0
	36	18	19.45		0
	36	37	19.29		0
	75	0	19.39		0
64QAM	1	0	19.43	0-2	0
	1	36	19.76		0
	1	74	19.35		0
	36	0	19.31	0-3	0
	36	18	19.45		0
	36	37	19.29		0
	75	0	19.37		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 8-17
LTE Band 71 Conducted Powers Ant 3B - 10 MHz Bandwidth

LTE Band 71 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 133172 (668.0 MHz)	Mid Channel 133297 (680.5 MHz)	High Channel 133422 (693.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.51	19.52	19.39	0	0
	1	25	19.71	19.71	19.58		0
	1	49	19.61	19.55	19.66		0
	25	0	19.62	19.76	19.63	0-1	0
	25	12	19.76	19.77	19.64		0
	25	25	19.89	19.71	19.73		0
	50	0	19.78	19.76	19.65		0
16QAM	1	0	19.39	19.43	19.21	0-1	0
	1	25	19.57	19.64	19.49		0
	1	49	19.50	19.44	19.66		0
	25	0	19.26	19.43	19.32	0-2	0
	25	12	19.39	19.41	19.34		0
	25	25	19.53	19.34	19.44		0
	50	0	19.41	19.41	19.35		0
64QAM	1	0	19.40	19.44	19.49	0-2	0
	1	25	19.46	19.54	19.68		0
	1	49	19.35	19.36	19.70		0
	25	0	19.23	19.32	19.25	0-3	0
	25	12	19.34	19.35	19.28		0
	25	25	19.45	19.30	19.36		0
	50	0	19.38	19.35	19.26		0

Table 8-18
LTE Band 71 Conducted Powers Ant 3B - 5 MHz Bandwidth

LTE Band 71 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 133147 (665.5 MHz)	Mid Channel 133297 (680.5 MHz)	High Channel 133447 (695.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	19.65	19.96	19.70	0	0
	1	12	19.59	19.90	19.70		0
	1	24	19.81	19.85	19.69		0
	12	0	19.44	19.75	19.77	0-1	0
	12	6	19.47	19.68	19.74		0
	12	13	19.59	19.63	19.68		0
	25	0	19.51	19.70	19.74		0
16QAM	1	0	19.42	19.63	19.38	0-1	0
	1	12	19.32	19.65	19.46		0
	1	24	19.57	19.59	19.56		0
	12	0	19.11	19.31	19.29	0-2	0
	12	6	19.12	19.29	19.29		0
	12	13	19.21	19.20	19.24		0
	25	0	19.15	19.27	19.28		0
64QAM	1	0	19.34	19.60	19.62	0-2	0
	1	12	19.27	19.55	19.60		0
	1	24	19.50	19.47	19.65		0
	12	0	19.15	19.19	19.34	0-3	0
	12	6	19.13	19.16	19.35		0
	12	13	19.14	19.13	19.31		0
	25	0	19.11	19.20	19.24		0

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8.3.2 LTE Band 12

Table 8-19
LTE Band 12 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23095 (707.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**20.50**	0	0
	1	25	20.39		0
	1	49	20.49		0
	25	0	20.31	0-1	0
	25	12	20.37		0
	25	25	**20.45**		0
	50	0	20.39		0
16QAM	1	0	20.84	0-1	0
	1	25	20.45		0
	1	49	20.63		0
	25	0	20.10	0-2	0
	25	12	20.15		0
	25	25	20.23		0
	50	0	20.16		0
64QAM	1	0	20.87	0-2	0
	1	25	20.66		0
	1	49	20.84		0
	25	0	20.38	0-3	0
	25	12	20.44		0
	25	25	20.50		0
	50	0	20.45		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 8-20
LTE Band 12 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23035 (701.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23155 (713.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.68	20.17	20.62	0	0
	1	12	20.72	20.18	20.61		0
	1	24	20.55	20.29	20.65		0
	12	0	20.50	20.23	20.50	0-1	0
	12	6	20.52	20.29	20.48		0
	12	13	20.52	20.37	20.52		0
	25	0	20.55	20.30	20.49		0
16QAM	1	0	20.78	20.76	20.90	0-1	0
	1	12	20.90	20.75	20.79		0
	1	24	20.67	20.90	20.89		0
	12	0	20.47	20.29	20.53	0-2	0
	12	6	20.53	20.35	20.52		0
	12	13	20.55	20.43	20.45		0
	25	0	20.57	20.32	20.45		0
64QAM	1	0	20.77	20.64	20.90	0-2	0
	1	12	20.90	20.40	20.90		0
	1	24	20.51	20.81	20.75		0
	12	0	20.53	20.25	20.45	0-3	0
	12	6	20.56	20.32	20.45		0
	12	13	20.53	20.39	20.51		0
	25	0	20.56	20.30	20.48		0

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Table 8-21
LTE Band 12 Conducted Powers Ant 4 - 3 MHz Bandwidth

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23025 (700.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23165 (714.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.49	20.35	20.45	0	0
	1	7	20.54	20.45	20.52		0
	1	14	20.54	20.47	20.39		0
	8	0	20.56	20.26	20.52	0-1	0
	8	4	20.53	20.31	20.56		0
	8	7	20.59	20.35	20.52		0
	15	0	20.55	20.34	20.59		0
16QAM	1	0	20.68	20.71	20.82	0-1	0
	1	7	20.90	20.81	20.90		0
	1	14	20.81	20.83	20.90		0
	8	0	20.53	20.25	20.52	0-2	0
	8	4	20.46	20.23	20.57		0
	8	7	20.56	20.36	20.47		0
	15	0	20.50	20.23	20.54		0
64QAM	1	0	20.65	20.69	20.90	0-2	0
	1	7	20.90	20.79	20.90		0
	1	14	20.90	20.68	20.85		0
	8	0	20.46	20.28	20.51	0-3	0
	8	4	20.44	20.32	20.53		0
	8	7	20.55	20.35	20.53		0
	15	0	20.49	20.35	20.48		0

Table 8-22
LTE Band 12 Conducted Powers Ant 4 - 1.4 MHz Bandwidth

LTE Band 12 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23017 (699.7 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23173 (715.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.55	20.46	20.78	0	0
	1	2	20.53	20.43	20.74		0
	1	5	20.55	20.46	20.75		0
	3	0	20.57	20.42	20.56		0
	3	2	20.59	20.39	20.55		0
	3	3	20.58	20.36	20.52		0
	6	0	20.52	20.31	20.49	0-1	0
16QAM	1	0	20.81	20.90	20.90	0-1	0
	1	2	20.79	20.57	20.83		0
	1	5	20.90	20.79	20.90		0
	3	0	20.72	20.55	20.63		0
	3	2	20.62	20.51	20.61		0
	3	3	20.66	20.42	20.41		0
	6	0	20.61	20.38	20.49	0-2	0
64QAM	1	0	20.90	20.71	20.66	0-2	0
	1	2	20.53	20.65	20.90		0
	1	5	20.90	20.66	20.90		0
	3	0	20.68	20.46	20.80		0
	3	2	20.64	20.44	20.80		0
	3	3	20.54	20.34	20.77		0
	6	0	20.56	20.26	20.49	0-3	0

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Table 8-23
LTE Band 12 Conducted Powers Ant 4 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23095 (707.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**17.75**	0	0
	1	25	17.39		0
	1	49	17.63		0
	25	0	17.43	0-1	0
	25	12	17.41		0
	25	25	**17.47**		0
	50	0	17.46		0
16QAM	1	0	17.75	0-1	0
	1	25	17.35		0
	1	49	17.60		0
	25	0	17.19	0-2	0
	25	12	17.12		0
	25	25	17.23		0
	50	0	17.16		0
64QAM	1	0	17.74	0-2	0
	1	25	17.22		0
	1	49	17.61		0
	25	0	17.21	0-3	0
	25	12	17.12		0
	25	25	17.20		0
	50	0	17.17		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 8-24
LTE Band 12 Conducted Powers Ant 4 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23035 (701.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23155 (713.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.81	17.50	17.67	0	0
	1	12	17.75	17.44	17.72		0
	1	24	17.61	17.52	17.70		0
	12	0	17.66	17.36	17.53	0-1	0
	12	6	17.66	17.35	17.62		0
	12	13	17.61	17.40	17.64		0
	25	0	17.66	17.40	17.62		0
16QAM	1	0	17.74	17.41	17.62	0-1	0
	1	12	17.62	17.66	17.74		0
	1	24	17.54	17.41	17.65		0
	12	0	17.35	17.08	17.27	0-2	0
	12	6	17.33	17.09	17.32		0
	12	13	17.35	17.16	17.30		0
	25	0	17.34	17.10	17.31		0
64QAM	1	0	17.76	17.35	17.66	0-2	0
	1	12	17.67	17.32	17.73		0
	1	24	17.50	17.37	17.62		0
	12	0	17.40	17.04	17.29	0-3	0
	12	6	17.38	17.03	17.31		0
	12	13	17.33	17.12	17.32		0
	25	0	17.36	17.05	17.30		0

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Table 8-25
LTE Band 12 Conducted Powers Ant 4 - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23025 (700.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23165 (714.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.75	17.59	17.66	0	0
	1	7	17.85	17.73	17.80		0
	1	14	17.76	17.68	17.69		0
	8	0	17.79	17.50	17.73	0-1	0
	8	4	17.82	17.56	17.82		0
	8	7	17.84	17.59	17.89		0
	15	0	17.89	17.61	17.88		0
16QAM	1	0	17.76	17.36	17.72	0-1	0
	1	7	17.81	17.39	17.70		0
	1	14	17.71	17.34	17.82		0
	8	0	17.20	16.91	17.22	0-2	0
	8	4	17.28	16.97	17.27		0
	8	7	17.25	16.93	17.36		0
	15	0	17.29	16.96	17.26		0
64QAM	1	0	17.72	17.43	17.78	0-2	0
	1	7	17.71	17.42	17.82		0
	1	14	17.62	17.51	17.79		0
	8	0	17.22	17.33	17.16	0-3	0
	8	4	17.27	17.26	17.26		0
	8	7	17.30	17.40	17.33		0
	15	0	17.29	17.15	17.24		0

Table 8-26
LTE Band 12 Conducted Powers Ant 4 - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23017 (699.7 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23173 (715.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.54	17.38	17.74	0	0
	1	2	17.53	17.36	17.79		0
	1	5	17.63	17.42	17.75		0
	3	0	17.57	17.29	17.62		0
	3	2	17.56	17.32	17.60		0
	3	3	17.59	17.32	17.64		0
	6	0	17.52	17.25	17.56	0-1	0
16QAM	1	0	17.57	17.40	17.78	0-1	0
	1	2	17.60	17.53	17.66		0
	1	5	17.81	17.67	17.60		0
	3	0	17.49	17.19	17.38		0
	3	2	17.60	17.25	17.48		0
	3	3	17.57	17.24	17.50		0
	6	0	17.41	17.02	17.35	0-2	0
64QAM	1	0	17.80	17.65	17.78	0-2	0
	1	2	17.75	17.61	17.86		0
	1	5	17.82	17.66	17.81		0
	3	0	17.38	17.19	17.34		0
	3	2	17.30	17.17	17.28		0
	3	3	17.26	17.13	17.23		0
	6	0	17.24	17.07	17.06	0-3	0

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Table 8-27
LTE Band 12 Conducted Powers Ant 3B - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23095 (707.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	18.12	0	0
	1	25	18.07		0
	1	49	**18.31**		0
	25	0	18.04	0-1	0
	25	12	18.10		0
	25	25	**18.20**		0
	50	0	18.12		0
16QAM	1	0	18.29	0-1	0
	1	25	18.40		0
	1	49	18.39		0
	25	0	18.09	0-2	0
	25	12	18.14		0
	25	25	18.18		0
	50	0	18.14		0
64QAM	1	0	18.38	0-2	0
	1	25	18.34		0
	1	49	18.40		0
	25	0	18.05	0-3	0
	25	12	18.13		0
	25	25	18.25		0
	50	0	18.13		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 8-28
LTE Band 12 Conducted Powers Ant 3B - 5 MHz Bandwidth

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23035 (701.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23155 (713.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	18.40	17.95	18.40	0	0
	1	12	18.40	18.02	18.28		0
	1	24	18.37	18.14	18.40		0
	12	0	18.20	17.98	18.15	0-1	0
	12	6	18.19	18.05	18.12		0
	12	13	18.17	18.10	18.16		0
	25	0	18.22	18.09	18.15		0
16QAM	1	0	18.50	18.26	18.40	0-1	0
	1	12	18.40	18.40	18.42		0
	1	24	18.43	18.50	18.30		0
	12	0	18.05	17.93	18.00	0-2	0
	12	6	18.05	18.02	17.96		0
	12	13	18.06	18.05	17.97		0
	25	0	18.04	18.01	17.95		0
64QAM	1	0	18.45	18.27	18.30	0-2	0
	1	12	18.29	18.34	18.29		0
	1	24	18.50	18.43	18.23		0
	12	0	18.04	17.97	17.99	0-3	0
	12	6	18.08	18.03	17.95		0
	12	13	17.94	18.01	17.98		0
	25	0	17.97	18.02	17.93		0

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Table 8-29
LTE Band 12 Conducted Powers Ant 3B - 3 MHz Bandwidth

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23025 (700.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23165 (714.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	18.21	18.12	18.04	0	0
	1	7	18.21	18.26	18.10		0
	1	14	18.15	18.26	17.99		0
	8	0	18.24	18.02	18.10	0-1	0
	8	4	18.16	18.10	18.14		0
	8	7	18.15	18.15	18.18		0
	15	0	18.19	18.16	18.23		0
16QAM	1	0	18.43	18.52	18.31	0-1	0
	1	7	18.55	18.38	18.54		0
	1	14	18.28	18.54	18.48		0
	8	0	18.19	17.92	17.97	0-2	0
	8	4	18.07	17.95	17.95		0
	8	7	18.08	17.98	17.96		0
	15	0	18.05	17.97	18.03		0
64QAM	1	0	18.78	18.41	18.25	0-2	0
	1	7	18.47	18.55	18.55		0
	1	14	18.47	18.55	18.42		0
	8	0	18.12	17.92	17.95	0-3	0
	8	4	18.18	18.04	18.01		0
	8	7	18.01	18.05	18.06		0
	15	0	18.07	18.00	18.04		0

Table 8-30
LTE Band 12 Conducted Powers Ant 3B - 1.4 MHz Bandwidth

LTE Band 12 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23017 (699.7 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23173 (715.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	18.40	18.22	18.33	0	0
	1	2	18.40	18.21	18.36		0
	1	5	18.40	18.21	18.35		0
	3	0	18.32	18.19	18.27		0
	3	2	18.31	18.18	18.25		0
	3	3	18.32	18.18	18.25		0
	6	0	18.27	18.11	18.20	0-1	0
16QAM	1	0	18.40	18.40	18.35	0-1	0
	1	2	18.38	18.32	18.40		0
	1	5	18.33	18.40	18.38		0
	3	0	18.11	18.17	18.07		0
	3	2	18.17	18.10	18.04		0
	3	3	18.19	18.08	18.03		0
	6	0	18.05	17.98	17.97	0-2	0
64QAM	1	0	18.40	18.40	18.35	0-2	0
	1	2	18.38	18.38	18.40		0
	1	5	18.40	18.36	18.36		0
	3	0	18.19	18.06	18.14		0
	3	2	18.19	18.03	18.14		0
	3	3	18.20	18.07	18.13		0
	6	0	18.03	17.92	17.92	0-3	0

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Table 8-31
LTE Band 12 Conducted Powers Ant 3B - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23095 (707.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	15.88	0	0
	1	25	15.85		0
	1	49	**15.90**		0
	25	0	15.83	0-1	0
	25	12	15.88		0
	25	25	**15.90**		0
	50	0	15.89		0
16QAM	1	0	15.80	0-1	0
	1	25	15.74		0
	1	49	15.88		0
	25	0	15.36	0-2	0
	25	12	15.40		0
	25	25	15.57		0
	50	0	15.42		0
64QAM	1	0	15.63	0-2	0
	1	25	15.57		0
	1	49	15.77		0
	25	0	15.40	0-3	0
	25	12	15.43		0
	25	25	15.57		0
	50	0	15.42		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 8-32
LTE Band 12 Conducted Powers Ant 3B - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23035 (701.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23155 (713.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.90	15.64	15.69	0	0
	1	12	15.88	15.76	15.54		0
	1	24	15.86	15.86	15.57		0
	12	0	15.71	15.51	15.72	0-1	0
	12	6	15.67	15.63	15.62		0
	12	13	15.67	15.68	15.65		0
	25	0	15.71	15.66	15.67		0
16QAM	1	0	15.90	15.81	15.75	0-1	0
	1	12	15.71	15.76	15.69		0
	1	24	15.90	15.86	15.81		0
	12	0	15.47	15.44	15.42	0-2	0
	12	6	15.39	15.52	15.30		0
	12	13	15.38	15.48	15.32		0
	25	0	15.41	15.49	15.31		0
64QAM	1	0	15.58	15.65	15.89	0-2	0
	1	12	15.67	15.60	15.74		0
	1	24	15.77	15.90	15.76		0
	12	0	15.41	15.38	15.40	0-3	0
	12	6	15.37	15.47	15.27		0
	12	13	15.38	15.43	15.30		0
	25	0	15.36	15.45	15.28		0

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Table 8-33
LTE Band 12 Conducted Powers Ant 3B - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23025 (700.5 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23165 (714.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.82	15.46	15.57	0	0
	1	7	15.80	15.63	15.58		0
	1	14	15.71	15.63	15.48		0
	8	0	15.71	15.49	15.62	0-1	0
	8	4	15.63	15.57	15.63		0
	8	7	15.59	15.59	15.61		0
	15	0	15.66	15.63	15.71		0
16QAM	1	0	15.89	15.53	15.79	0-1	0
	1	7	15.84	15.71	15.79		0
	1	14	15.61	15.67	15.78		0
	8	0	15.39	15.29	15.34	0-2	0
	8	4	15.26	15.40	15.32		0
	8	7	15.32	15.41	15.45		0
	15	0	15.31	15.43	15.37		0
64QAM	1	0	15.78	15.42	15.61	0-2	0
	1	7	15.70	15.90	15.66		0
	1	14	15.67	15.60	15.58		0
	8	0	15.40	15.27	15.31	0-3	0
	8	4	15.28	15.39	15.39		0
	8	7	15.26	15.34	15.41		0
	15	0	15.26	15.38	15.36		0

Table 8-34
LTE Band 12 Conducted Powers Ant 3B - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 12 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 23017 (699.7 MHz)	Mid Channel 23095 (707.5 MHz)	High Channel 23173 (715.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.89	15.77	15.72	0	0
	1	2	15.90	15.76	15.73		0
	1	5	15.84	15.81	15.73		0
	3	0	15.79	15.65	15.74		0
	3	2	15.77	15.66	15.74		0
	3	3	15.79	15.68	15.74		0
	6	0	15.73	15.60	15.66	0-1	0
16QAM	1	0	15.90	15.32	15.65	0-1	0
	1	2	15.87	15.65	15.64		0
	1	5	15.89	15.81	15.58		0
	3	0	15.70	15.52	15.47		0
	3	2	15.68	15.46	15.54		0
	3	3	15.70	15.52	15.38		0
	6	0	15.48	15.29	15.42	0-2	0
64QAM	1	0	15.90	15.75	15.84	0-2	0
	1	2	15.89	15.82	15.71		0
	1	5	15.78	15.82	15.90		0
	3	0	15.71	15.47	15.51		0
	3	2	15.65	15.44	15.46		0
	3	3	15.64	15.45	15.45		0
	6	0	15.50	15.29	15.40	0-3	0

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8.3.3 LTE Band 13

Table 8-35
LTE Band 13 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**20.88**	0	0
	1	25	20.74		0
	1	49	20.74		0
	25	0	20.55	0-1	0
	25	12	20.58		0
	25	25	**20.70**		0
	50	0	20.69		0
16QAM	1	0	21.04	0-1	0
	1	25	20.95		0
	1	49	21.02		0
	25	0	20.38	0-2	0
	25	12	20.33		0
	25	25	20.36		0
	50	0	20.44		0
64QAM	1	0	20.95	0-2	0
	1	25	20.80		0
	1	49	20.86		0
	25	0	20.39	0-3	0
	25	12	20.33		0
	25	25	20.38		0
	50	0	20.39		0

Table 8-36
LTE Band 13 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 13 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	20.97	0	0
	1	12	21.10		0
	1	24	21.10		0
	12	0	20.80	0-1	0
	12	6	21.00		0
	12	13	20.99		0
	25	0	21.09		0
16QAM	1	0	21.02	0-1	0
	1	12	21.10		0
	1	24	21.10		0
	12	0	20.61	0-2	0
	12	6	20.78		0
	12	13	20.82		0
	25	0	20.70		0
64QAM	1	0	20.73	0-2	0
	1	12	21.10		0
	1	24	21.10		0
	12	0	20.60	0-3	0
	12	6	20.78		0
	12	13	20.75		0
	25	0	20.70		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 8-37
LTE Band 13 Conducted Powers Ant 4 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	17.97	0	0
	1	25	18.01		0
	1	49	**18.05**		0
	25	0	17.81	0-1	0
	25	12	17.99		0
	25	25	**18.10**		0
	50	0	18.04		0
16QAM	1	0	18.04	0-1	0
	1	25	17.99		0
	1	49	17.99		0
	25	0	17.28	0-2	0
	25	12	17.52		0
	25	25	17.63		0
	50	0	17.60		0
64QAM	1	0	17.95	0-2	0
	1	25	17.85		0
	1	49	17.97		0
	25	0	17.26	0-3	0
	25	12	17.54		0
	25	25	17.67		0
	50	0	17.64		0

Table 8-38
LTE Band 13 Conducted Powers Ant 4 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 13 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	17.76	0	0
	1	12	17.91		0
	1	24	17.90		0
	12	0	17.98	0-1	0
	12	6	18.03		0
	12	13	18.03		0
	25	0	17.99		0
16QAM	1	0	17.80	0-1	0
	1	12	17.92		0
	1	24	17.88		0
	12	0	17.53	0-2	0
	12	6	17.54		0
	12	13	17.56		0
	25	0	17.45		0
64QAM	1	0	17.94	0-2	0
	1	12	17.95		0
	1	24	17.97		0
	12	0	17.49	0-3	0
	12	6	17.50		0
	12	13	17.55		0
	25	0	17.50		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 3B - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**19.20**	0	0
	1	25	19.10		0
	1	49	19.05		0
	25	0	19.07	0-1	0
	25	12	**19.20**		0
	25	25	19.19		0
	50	0	19.15		0
16QAM	1	0	19.10	0-1	0
	1	25	19.04		0
	1	49	19.06		0
	25	0	18.51	0-2	0
	25	12	18.71		0
	25	25	18.75		0
	50	0	18.67		0
64QAM	1	0	19.10	0-2	0
	1	25	18.90		0
	1	49	18.88		0
	25	0	18.58	0-3	0
	25	12	18.77		0
	25	25	18.74		0
	50	0	18.71		0

Table 8-40
LTE Band 13 Conducted Powers Ant 3B - 5 MHz Bandwidth

LTE Band 13 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	18.92	0	0
	1	12	19.00		0
	1	24	19.05		0
	12	0	19.17	0-1	0
	12	6	19.17		0
	12	13	19.08		0
	25	0	19.14		0
16QAM	1	0	19.17	0-1	0
	1	12	19.19		0
	1	24	19.20		0
	12	0	18.86	0-2	0
	12	6	18.87		0
	12	13	18.80		0
	25	0	18.77		0
64QAM	1	0	19.10	0-2	0
	1	12	19.12		0
	1	24	19.20		0
	12	0	18.81	0-3	0
	12	6	18.84		0
	12	13	18.76		0
	25	0	18.77		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 3B - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**16.10**	0	0
	1	25	16.00		0
	1	49	15.92		0
	25	0	15.91	0-1	0
	25	12	**16.07**		0
	25	25	15.90		0
	50	0	16.00		0
16QAM	1	0	16.20	0-1	0
	1	25	16.12		0
	1	49	16.15		0
	25	0	15.74	0-2	0
	25	12	15.82		0
	25	25	15.70		0
	50	0	15.78		0
64QAM	1	0	16.20	0-2	0
	1	25	16.15		0
	1	49	16.16		0
	25	0	15.64	0-3	0
	25	12	15.77		0
	25	25	15.69		0
	50	0	15.75		0

Table 8-42
LTE Band 13 Conducted Powers Ant 3B - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 13 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	15.65	0	0
	1	12	15.81		0
	1	24	15.99		0
	12	0	15.91	0-1	0
	12	6	15.94		0
	12	13	15.79		0
	25	0	15.89		0
16QAM	1	0	15.90	0-1	0
	1	12	15.91		0
	1	24	16.12		0
	12	0	15.61	0-2	0
	12	6	15.62		0
	12	13	15.51		0
	25	0	15.57		0
64QAM	1	0	15.46	0-2	0
	1	12	15.86		0
	1	24	16.03		0
	12	0	15.40	0-3	0
	12	6	15.55		0
	12	13	15.61		0
	25	0	15.54		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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8.3.4 LTE Band 14

Table 8-43
LTE Band 14 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**20.87**	0	0
	1	25	20.84		0
	1	49	20.81		0
	25	0	**20.93**	0-1	0
	25	12	20.92		0
	25	25	20.84		0
	50	0	20.86		0
16QAM	1	0	21.05	0-1	0
	1	25	21.06		0
	1	49	21.05		0
	25	0	20.67	0-2	0
	25	12	20.69		0
	25	25	20.61		0
	50	0	20.60		0
64QAM	1	0	20.81	0-2	0
	1	25	20.83		0
	1	49	20.87		0
	25	0	20.64	0-3	0
	25	12	20.66		0
	25	25	20.59		0
	50	0	20.62		0

Table 8-44
LTE Band 14 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	20.56	0	0
	1	12	20.60		0
	1	24	20.64		0
	12	0	20.42	0-1	0
	12	6	20.45		0
	12	13	20.51		0
	25	0	20.42		0
16QAM	1	0	20.69	0-1	0
	1	12	20.80		0
	1	24	20.73		0
	12	0	20.40	0-2	0
	12	6	20.43		0
	12	13	20.52		0
	25	0	20.39		0
64QAM	1	0	20.59	0-2	0
	1	12	20.80		0
	1	24	20.69		0
	12	0	20.38	0-3	0
	12	6	20.37		0
	12	13	20.46		0
	25	0	20.35		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 8-45
LTE Band 14 Conducted Powers Ant 4 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**17.88**	0	0
	1	25	17.84		0
	1	49	17.80		0
	25	0	**17.95**	0-1	0
	25	12	17.93		0
	25	25	17.92		0
	50	0	17.87		0
16QAM	1	0	17.95	0-1	0
	1	25	17.82		0
	1	49	17.77		0
	25	0	17.76	0-2	0
	25	12	17.69		0
	25	25	17.72		0
	50	0	17.69		0
64QAM	1	0	17.92	0-2	0
	1	25	17.81		0
	1	49	17.77		0
	25	0	17.79	0-3	0
	25	12	17.74		0
	25	25	17.71		0
	50	0	17.68		0

Table 8-46
LTE Band 14 Conducted Powers Ant 4 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	17.76	0	0
	1	12	17.72		0
	1	24	17.82		0
	12	0	17.79	0-1	0
	12	6	17.82		0
	12	13	17.90		0
	25	0	17.83		0
16QAM	1	0	18.00	0-1	0
	1	12	18.03		0
	1	24	17.96		0
	12	0	17.62	0-2	0
	12	6	17.61		0
	12	13	17.68		0
	25	0	17.58		0
64QAM	1	0	18.04	0-2	0
	1	12	18.02		0
	1	24	18.00		0
	12	0	17.46	0-3	0
	12	6	17.43		0
	12	13	17.39		0
	25	0	17.31		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 3B - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**18.75**	0	0
	1	25	18.73		0
	1	49	18.67		0
	25	0	18.59	0-1	0
	25	12	**18.82**		0
	25	25	18.68		0
	50	0	18.74		0
16QAM	1	0	18.74	0-1	0
	1	25	18.78		0
	1	49	18.72		0
	25	0	18.40	0-2	0
	25	12	18.58		0
	25	25	18.50		0
	50	0	18.57		0
64QAM	1	0	18.71	0-2	0
	1	25	18.83		0
	1	49	18.71		0
	25	0	18.40	0-3	0
	25	12	18.59		0
	25	25	18.51		0
	50	0	18.59		0

Table 8-48
LTE Band 14 Conducted Powers Ant 3B - 5 MHz Bandwidth

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	18.42	0	0
	1	12	18.65		0
	1	24	18.67		0
	12	0	18.72	0-1	0
	12	6	18.81		0
	12	13	18.69		0
	25	0	18.70		0
16QAM	1	0	18.38	0-1	0
	1	12	18.75		0
	1	24	18.85		0
	12	0	18.48	0-2	0
	12	6	18.56		0
	12	13	18.47		0
	25	0	18.48		0
64QAM	1	0	18.62	0-2	0
	1	12	18.84		0
	1	24	18.85		0
	12	0	18.40	0-3	0
	12	6	18.47		0
	12	13	18.38		0
	25	0	18.38		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 3B - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	16.09	0	0
	1	25	16.08		0
	1	49	**16.17**		0
	25	0	16.00	0-1	0
	25	12	**16.20**		0
	25	25	16.05		0
	50	0	16.16		0
16QAM	1	0	16.17	0-1	0
	1	25	16.08		0
	1	49	16.11		0
	25	0	15.82	0-2	0
	25	12	16.01		0
	25	25	15.87		0
	50	0	15.98		0
64QAM	1	0	16.05	0-2	0
	1	25	16.03		0
	1	49	16.15		0
	25	0	15.82	0-3	0
	25	12	16.01		0
	25	25	15.88		0
	50	0	15.99		0

Table 8-50
LTE Band 14 Conducted Powers Ant 3B - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 14 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	15.95	0	0
	1	12	16.00		0
	1	24	16.08		0
	12	0	15.91	0-1	0
	12	6	15.97		0
	12	13	16.05		0
	25	0	15.93		0
16QAM	1	0	16.00	0-1	0
	1	12	15.95		0
	1	24	16.19		0
	12	0	15.60	0-2	0
	12	6	15.62		0
	12	13	15.70		0
	25	0	15.61		0
64QAM	1	0	15.99	0-2	0
	1	12	16.00		0
	1	24	16.01		0
	12	0	15.75	0-3	0
	12	6	15.87		0
	12	13	15.86		0
	25	0	15.74		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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8.3.5 LTE Band 26

Table 8-51
LTE Band 26 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 26990 (844.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.80	20.87	20.85	0	0
	1	25	20.70	20.73	20.76		0
	1	49	**20.91**	20.80	20.65		0
	25	0	20.65	20.82	20.97	0-1	0
	25	12	20.61	20.76	**21.04**		0
	25	25	20.89	20.80	20.80		0
	50	0	20.90	20.80	20.78		0
16QAM	1	0	21.10	20.76	21.02	0-1	0
	1	25	20.91	20.83	21.08		0
	1	49	20.90	20.97	20.89		0
	25	0	20.45	20.59	20.66	0-2	0
	25	12	20.40	20.57	20.65		0
	25	25	20.51	20.60	20.48		0
	50	0	20.48	20.58	20.62		0
64QAM	1	0	20.86	20.84	21.07	0-2	0
	1	25	20.68	20.82	21.01		0
	1	49	20.67	20.86	20.92		0
	25	0	20.46	20.62	20.65	0-3	0
	25	12	20.46	20.58	20.67		0
	25	25	20.55	20.62	20.47		0
	50	0	20.52	20.62	20.62		0

Table 8-52
LTE Band 26 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 26 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26715 (816.5 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27015 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.82	20.94	21.02	0	0
	1	12	20.75	20.92	20.98		0
	1	24	20.81	20.88	21.05		0
	12	0	20.88	20.84	20.79	0-1	0
	12	6	20.83	20.83	20.78		0
	12	13	20.86	20.82	20.80		0
	25	0	20.87	20.84	20.82		0
16QAM	1	0	21.10	21.04	21.10	0-1	0
	1	12	21.10	21.08	21.10		0
	1	24	21.10	21.00	20.99		0
	12	0	20.84	20.83	20.81	0-2	0
	12	6	20.85	20.79	20.78		0
	12	13	20.83	20.77	20.83		0
	25	0	20.80	20.78	20.77		0
64QAM	1	0	21.10	21.07	20.98	0-2	0
	1	12	21.10	20.93	20.99		0
	1	24	21.10	21.10	21.10		0
	12	0	20.80	20.82	20.74	0-3	0
	12	6	20.86	20.82	20.71		0
	12	13	20.80	20.82	20.71		0
	25	0	20.78	20.78	20.75		0

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Table 8-53
LTE Band 26 Conducted Powers Ant 4 - 3 MHz Bandwidth

LTE Band 26 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26705 (815.5 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27025 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.88	20.90	20.66	0	0
	1	7	20.86	20.96	20.72		0
	1	14	20.81	20.91	20.71		0
	8	0	20.89	20.83	20.77	0-1	0
	8	4	20.82	20.79	20.77		0
	8	7	20.82	20.80	20.79		0
	15	0	20.87	20.83	20.84		0
16QAM	1	0	21.10	21.10	21.04	0-1	0
	1	7	21.10	21.10	21.10		0
	1	14	21.00	21.10	21.05		0
	8	0	20.83	20.77	20.70	0-2	0
	8	4	20.76	20.72	20.71		0
	8	7	20.80	20.77	20.77		0
	15	0	20.80	20.80	20.74		0
64QAM	1	0	20.97	21.10	20.96	0-2	0
	1	7	21.10	21.10	21.10		0
	1	14	21.10	21.10	20.99		0
	8	0	20.70	20.76	20.64	0-3	0
	8	4	20.66	20.75	20.69		0
	8	7	20.69	20.72	20.64		0
	15	0	20.75	20.76	20.66		0

Table 8-54
LTE Band 26 Conducted Powers Ant 4 - 1.4 MHz Bandwidth

LTE Band 26 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26697 (814.7 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27033 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.87	20.88	20.89	0	0
	1	2	20.82	20.86	20.89		0
	1	5	20.80	20.88	20.94		0
	3	0	20.86	20.79	20.77		0
	3	2	20.88	20.75	20.79		0
	3	3	20.89	20.78	20.75		0
	6	0	20.82	20.72	20.72	0-1	0
16QAM	1	0	21.10	21.10	21.10	0-1	0
	1	2	21.10	21.08	21.07		0
	1	5	21.09	21.10	21.10		0
	3	0	21.00	21.05	20.82		0
	3	2	20.96	20.96	20.85		0
	3	3	20.95	20.94	20.84		0
	6	0	20.91	20.80	20.70	0-2	0
64QAM	1	0	21.10	21.10	21.10	0-2	0
	1	2	21.10	21.10	21.10		0
	1	5	21.10	21.10	21.05		0
	3	0	21.04	21.08	20.97		0
	3	2	21.06	21.07	21.04		0
	3	3	21.01	21.05	21.06		0
	6	0	21.01	21.06	21.06	0-3	0

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Table 8-55
LTE Band 26 Conducted Powers Ant 3B - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 26990 (844.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.88	17.89	17.89	0	0
	1	25	17.79	17.88	**17.90**		0
	1	49	17.85	17.81	17.86		0
	25	0	17.84	17.89	**17.90**	0-1	0
	25	12	17.81	17.87	17.89		0
	25	25	17.81	17.82	17.89		0
	50	0	17.82	17.89	17.85		0
16QAM	1	0	17.90	17.89	17.90	0-1	0
	1	25	17.88	17.85	17.90		0
	1	49	17.90	17.82	17.90		0
	25	0	17.66	17.69	17.75	0-2	0
	25	12	17.58	17.69	17.76		0
	25	25	17.62	17.56	17.81		0
	50	0	17.60	17.62	17.68		0
64QAM	1	0	17.87	17.90	17.88	0-2	0
	1	25	17.88	17.90	17.90		0
	1	49	17.90	17.86	17.90		0
	25	0	17.68	17.72	17.75	0-3	0
	25	12	17.61	17.71	17.72		0
	25	25	17.63	17.64	17.78		0
	50	0	17.59	17.67	17.67		0

Table 8-56
LTE Band 26 Conducted Powers Ant 3B - 5 MHz Bandwidth

LTE Band 26 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26715 (816.5 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27015 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.90	17.85	17.90	0	0
	1	12	17.90	17.82	17.90		0
	1	24	17.90	17.74	17.90		0
	12	0	17.85	17.80	17.89	0-1	0
	12	6	17.86	17.80	17.90		0
	12	13	17.82	17.80	17.85		0
	25	0	17.88	17.82	17.90		0
16QAM	1	0	17.90	17.86	17.90	0-1	0
	1	12	17.90	17.84	17.90		0
	1	24	17.90	17.90	17.88		0
	12	0	17.61	17.61	17.58	0-2	0
	12	6	17.65	17.61	17.67		0
	12	13	17.59	17.63	17.57		0
	25	0	17.59	17.61	17.70		0
64QAM	1	0	17.90	17.90	17.90	0-2	0
	1	12	17.90	17.68	17.90		0
	1	24	17.90	17.64	17.89		0
	12	0	17.59	17.56	17.67	0-3	0
	12	6	17.62	17.54	17.72		0
	12	13	17.58	17.45	17.64		0
	25	0	17.59	17.56	17.70		0

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Table 8-57
LTE Band 26 Conducted Powers Ant 3B - 3 MHz Bandwidth

LTE Band 26 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26705 (815.5 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27025 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.90	17.75	17.83	0	0
	1	7	17.90	17.82	17.73		0
	1	14	17.85	17.77	17.69		0
	8	0	17.87	17.76	17.85	0-1	0
	8	4	17.80	17.79	17.75		0
	8	7	17.82	17.80	17.74		0
	15	0	17.85	17.83	17.80		0
16QAM	1	0	17.90	17.79	17.83	0-1	0
	1	7	17.90	17.90	17.80		0
	1	14	17.90	17.72	17.79		0
	8	0	17.55	17.55	17.63	0-2	0
	8	4	17.59	17.57	17.55		0
	8	7	17.59	17.61	17.51		0
	15	0	17.56	17.52	17.60		0
64QAM	1	0	17.84	17.79	17.83	0-2	0
	1	7	17.90	17.85	17.80		0
	1	14	17.90	17.76	17.81		0
	8	0	17.53	17.48	17.60	0-3	0
	8	4	17.52	17.45	17.55		0
	8	7	17.58	17.50	17.53		0
	15	0	17.51	17.50	17.59		0

Table 8-58
LTE Band 26 Conducted Powers Ant 3B - 1.4 MHz Bandwidth

LTE Band 26 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26697 (814.7 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 27033 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.90	17.88	17.88	0	0
	1	2	17.90	17.85	17.84		0
	1	5	17.89	17.86	17.89		0
	3	0	17.87	17.83	17.81		0
	3	2	17.86	17.83	17.83		0
	3	3	17.87	17.84	17.82		0
	6	0	17.84	17.79	17.73	0-1	0
16QAM	1	0	17.90	17.82	17.84	0-1	0
	1	2	17.90	17.84	17.74		0
	1	5	17.90	17.86	17.83		0
	3	0	17.82	17.73	17.73		0
	3	2	17.75	17.67	17.76		0
	3	3	17.72	17.72	17.73		0
	6	0	17.67	17.64	17.54	0-2	0
64QAM	1	0	17.83	17.89	17.88	0-2	0
	1	2	17.90	17.88	17.90		0
	1	5	17.84	17.84	17.90		0
	3	0	17.84	17.61	17.64		0
	3	2	17.80	17.62	17.58		0
	3	3	17.77	17.65	17.61		0
	6	0	17.57	17.51	17.44	0-3	0

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8.3.6 LTE Band 5

Table 8-59
LTE Band 5 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	20.63	0	0
	1	25	**20.83**		0
	1	49	20.70		0
	25	0	20.70	0-1	0
	25	12	20.77		0
	25	25	**20.81**		0
	50	0	20.80		0
16QAM	1	0	20.81	0-1	0
	1	25	20.89		0
	1	49	20.95		0
	25	0	20.73	0-2	0
	25	12	20.82		0
	25	25	20.83		0
	50	0	20.80		0
64QAM	1	0	20.88	0-2	0
	1	25	20.96		0
	1	49	20.99		0
	25	0	20.74	0-3	0
	25	12	20.78		0
	25	25	20.80		0
	50	0	20.81		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 8-60
LTE Band 5 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20425 (826.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20625 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.65	20.85	20.95	0	0
	1	12	20.70	20.94	20.78		0
	1	24	20.72	20.99	20.75		0
	12	0	20.62	20.78	20.65	0-1	0
	12	6	20.65	20.76	20.56		0
	12	13	20.64	20.72	20.50		0
	25	0	20.65	20.75	20.56		0
16QAM	1	0	20.86	21.06	21.06	0-1	0
	1	12	20.87	21.00	21.03		0
	1	24	21.06	21.04	20.96		0
	12	0	20.57	20.82	20.65	0-2	0
	12	6	20.57	20.76	20.52		0
	12	13	20.66	20.72	20.49		0
	25	0	20.55	20.72	20.55		0
64QAM	1	0	21.01	21.05	21.00	0-2	0
	1	12	20.92	21.08	20.87		0
	1	24	20.97	21.07	20.82		0
	12	0	20.59	20.78	20.63	0-3	0
	12	6	20.61	20.74	20.56		0
	12	13	20.58	20.72	20.51		0
	25	0	20.64	20.75	20.54		0

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Table 8-61
LTE Band 5 Conducted Powers Ant 4 - 3 MHz Bandwidth

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20415 (825.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20635 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.60	20.86	20.51	0	0
	1	7	20.71	20.89	20.52		0
	1	14	20.68	20.82	20.43		0
	8	0	20.58	20.76	20.56	0-1	0
	8	4	20.59	20.74	20.52		0
	8	7	20.61	20.72	20.50		0
	15	0	20.64	20.74	20.54		0
16QAM	1	0	20.80	20.68	20.91	0-1	0
	1	7	20.88	20.71	20.77		0
	1	14	20.92	21.04	20.49		0
	8	0	20.60	20.73	20.50	0-2	0
	8	4	20.62	20.80	20.50		0
	8	7	20.67	20.70	20.49		0
	15	0	20.55	20.71	20.49		0
64QAM	1	0	20.88	20.98	20.74	0-2	0
	1	7	21.05	21.02	20.56		0
	1	14	21.06	20.98	20.84		0
	8	0	20.52	20.72	20.61	0-3	0
	8	4	20.56	20.73	20.52		0
	8	7	20.63	20.74	20.51		0
	15	0	20.57	20.70	20.54		0

Table 8-62
LTE Band 5 Conducted Powers Ant 4 - 1.4 MHz Bandwidth

LTE Band 5 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20407 (824.7 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20643 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	20.67	20.91	20.75	0	0
	1	2	20.66	20.89	20.73		0
	1	5	20.71	20.90	20.75		0
	3	0	20.60	20.75	20.59		0
	3	2	20.62	20.76	20.56		0
	3	3	20.62	20.73	20.57		0
	6	0	20.55	20.72	20.50	0-1	0
16QAM	1	0	20.79	21.07	20.80	0-1	0
	1	2	20.82	20.97	20.88		0
	1	5	20.85	21.01	20.81		0
	3	0	20.63	20.91	20.73		0
	3	2	20.63	20.90	20.74		0
	3	3	20.68	20.93	20.84		0
	6	0	20.59	20.75	20.53	0-2	0
64QAM	1	0	21.07	21.07	20.95	0-2	0
	1	2	21.02	21.07	20.80		0
	1	5	21.06	21.06	20.94		0
	3	0	20.73	21.05	20.68		0
	3	2	20.78	20.92	20.75		0
	3	3	20.76	20.99	20.71		0
	6	0	20.61	20.63	20.47	0-3	0

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Table 8-63
LTE Band 5 Conducted Powers Ant 4 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	17.77	0	0
	1	25	**18.04**		0
	1	49	18.01		0
	25	0	17.83	0-1	0
	25	12	**17.99**		0
	25	25	17.98		0
	50	0	17.97		0
16QAM	1	0	17.77	0-1	0
	1	25	18.05		0
	1	49	18.00		0
	25	0	17.59	0-2	0
	25	12	17.72		0
	25	25	17.73		0
	50	0	17.72		0
64QAM	1	0	17.85	0-2	0
	1	25	18.10		0
	1	49	18.08		0
	25	0	17.59	0-3	0
	25	12	17.73		0
	25	25	17.76		0
	50	0	17.74		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 8-64
LTE Band 5 Conducted Powers Ant 4 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20425 (826.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20625 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.82	17.84	17.61	0	0
	1	12	17.82	17.96	17.41		0
	1	24	17.86	17.99	17.49		0
	12	0	17.76	17.81	17.59	0-1	0
	12	6	17.76	17.78	17.53		0
	12	13	17.76	17.78	17.54		0
	25	0	17.77	17.80	17.58		0
16QAM	1	0	17.89	17.77	17.82	0-1	0
	1	12	17.88	17.88	17.56		0
	1	24	17.88	17.95	17.65		0
	12	0	17.51	17.54	17.37	0-2	0
	12	6	17.49	17.49	17.24		0
	12	13	17.52	17.50	17.19		0
	25	0	17.52	17.48	17.26		0
64QAM	1	0	17.99	17.70	18.00	0-2	0
	1	12	18.09	17.92	17.79		0
	1	24	18.01	18.01	17.90		0
	12	0	17.39	17.38	17.19	0-3	0
	12	6	17.37	17.37	17.17		0
	12	13	17.35	17.37	17.18		0
	25	0	17.32	17.35	17.14		0

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Table 8-65
LTE Band 5 Conducted Powers Ant 4 - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20415 (825.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20635 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.69	17.82	17.41	0	0
	1	7	17.71	17.87	17.48		0
	1	14	17.68	17.81	17.47		0
	8	0	17.71	17.73	17.52	0-1	0
	8	4	17.70	17.70	17.51		0
	8	7	17.72	17.71	17.59		0
	15	0	17.72	17.73	17.58		0
16QAM	1	0	17.71	17.89	17.53	0-1	0
	1	7	17.99	17.87	17.57		0
	1	14	17.65	17.98	17.71		0
	8	0	17.45	17.45	17.18	0-2	0
	8	4	17.38	17.44	17.13		0
	8	7	17.48	17.46	17.20		0
	15	0	17.46	17.48	17.21		0
64QAM	1	0	17.98	17.81	17.65	0-2	0
	1	7	18.07	17.80	17.58		0
	1	14	17.99	17.83	17.57		0
	8	0	17.34	17.32	17.20	0-3	0
	8	4	17.40	17.31	17.18		0
	8	7	17.34	17.33	17.15		0
	15	0	17.30	17.30	17.11		0

Table 8-66
LTE Band 5 Conducted Powers Ant 4 - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20407 (824.7 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20643 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.76	17.87	17.72	0	0
	1	2	17.74	17.86	17.76		0
	1	5	17.75	17.87	17.78		0
	3	0	17.75	17.78	17.58		0
	3	2	17.79	17.80	17.60		0
	3	3	17.81	17.78	17.62		0
	6	0	17.74	17.73	17.57	0-1	0
16QAM	1	0	17.72	17.77	17.50	0-1	0
	1	2	17.87	17.84	17.71		0
	1	5	17.74	18.01	17.59		0
	3	0	17.57	17.63	17.52		0
	3	2	17.61	17.57	17.41		0
	3	3	17.69	17.62	17.42		0
	6	0	17.55	17.42	17.29	0-2	0
64QAM	1	0	18.01	18.04	17.65	0-2	0
	1	2	18.07	18.08	17.59		0
	1	5	18.06	18.06	17.57		0
	3	0	17.46	17.54	17.28		0
	3	2	17.51	17.56	17.20		0
	3	3	17.50	17.53	17.18		0
	6	0	17.42	17.40	17.20	0-3	0

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Table 8-67
LTE Band 5 Conducted Powers Ant 3B - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	17.78	0	0
	1	25	17.67		0
	1	49	**17.79**		0
	25	0	17.72	0-1	0
	25	12	17.68		0
	25	25	**17.78**		0
	50	0	17.76		0
16QAM	1	0	17.90	0-1	0
	1	25	17.61		0
	1	49	17.87		0
	25	0	17.65	0-2	0
	25	12	17.53		0
	25	25	17.55		0
	50	0	17.53		0
64QAM	1	0	17.90	0-2	0
	1	25	17.70		0
	1	49	17.81		0
	25	0	17.65	0-3	0
	25	12	17.53		0
	25	25	17.55		0
	50	0	17.53		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 8-68
LTE Band 5 Conducted Powers Ant 3B - 5 MHz Bandwidth

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20425 (826.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20625 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.65	17.41	17.51	0	0
	1	12	17.55	17.39	17.46		0
	1	24	17.51	17.56	17.41		0
	12	0	17.43	17.40	17.41	0-1	0
	12	6	17.39	17.40	17.42		0
	12	13	17.33	17.41	17.38		0
	25	0	17.39	17.43	17.46		0
16QAM	1	0	17.82	17.59	17.68	0-1	0
	1	12	17.57	17.62	17.77		0
	1	24	17.60	17.73	17.69		0
	12	0	17.42	17.42	17.38	0-2	0
	12	6	17.33	17.40	17.41		0
	12	13	17.34	17.41	17.35		0
	25	0	17.40	17.38	17.41		0
64QAM	1	0	17.73	17.57	17.72	0-2	0
	1	12	17.46	17.64	17.69		0
	1	24	17.66	17.82	17.63		0
	12	0	17.43	17.41	17.40	0-3	0
	12	6	17.38	17.70	17.30		0
	12	13	17.34	17.45	17.30		0
	25	0	17.36	17.44	17.38		0

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Table 8-69
LTE Band 5 Conducted Powers Ant 3B - 3 MHz Bandwidth

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20415 (825.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20635 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.48	17.30	17.38	0	0
	1	7	17.52	17.34	17.42		0
	1	14	17.43	17.29	17.32		0
	8	0	17.41	17.40	17.43	0-1	0
	8	4	17.39	17.36	17.42		0
	8	7	17.39	17.37	17.36		0
	15	0	17.40	17.40	17.44		0
16QAM	1	0	17.84	17.65	17.69	0-1	0
	1	7	17.79	17.70	17.57		0
	1	14	17.70	17.69	17.49		0
	8	0	17.46	17.36	17.37	0-2	0
	8	4	17.39	17.37	17.39		0
	8	7	17.39	17.34	17.37		0
	15	0	17.38	17.33	17.36		0
64QAM	1	0	17.82	17.50	17.59	0-2	0
	1	7	17.51	17.69	17.74		0
	1	14	17.61	17.47	17.69		0
	8	0	17.38	17.34	17.43	0-3	0
	8	4	17.35	17.41	17.42		0
	8	7	17.36	17.45	17.36		0
	15	0	17.42	17.41	17.40		0

Table 8-70
LTE Band 5 Conducted Powers Ant 3B - 1.4 MHz Bandwidth

LTE Band 5 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20407 (824.7 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20643 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	17.56	17.53	17.63	0	0
	1	2	17.55	17.49	17.56		0
	1	5	17.56	17.50	17.59		0
	3	0	17.44	17.36	17.43		0
	3	2	17.44	17.37	17.44		0
	3	3	17.43	17.39	17.43		0
	6	0	17.41	17.34	17.33	0-1	0
16QAM	1	0	17.84	17.66	17.51	0-1	0
	1	2	17.85	17.43	17.67		0
	1	5	17.88	17.43	17.77		0
	3	0	17.64	17.38	17.59		0
	3	2	17.56	17.35	17.55		0
	3	3	17.58	17.41	17.62		0
	6	0	17.49	17.34	17.38	0-2	0
64QAM	1	0	17.75	17.54	17.86	0-2	0
	1	2	17.68	17.70	17.75		0
	1	5	17.71	17.69	17.74		0
	3	0	17.69	17.38	17.56		0
	3	2	17.70	17.45	17.58		0
	3	3	17.59	17.44	17.60		0
	6	0	17.41	17.44	17.31	0-3	0

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Table 8-71
LTE Band 5 Conducted Powers Ant 3B - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**14.90**	0	0
	1	25	14.85		0
	1	49	14.89		0
	25	0	14.75	0-1	0
	25	12	14.73		0
	25	25	**14.87**		0
	50	0	14.82		0
16QAM	1	0	14.70	0-1	0
	1	25	14.54		0
	1	49	14.65		0
	25	0	14.25	0-2	0
	25	12	14.22		0
	25	25	14.32		0
	50	0	14.32		0
64QAM	1	0	14.80	0-2	0
	1	25	14.70		0
	1	49	14.80		0
	25	0	14.23	0-3	0
	25	12	14.23		0
	25	25	14.35		0
	50	0	14.34		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 8-72
LTE Band 5 Conducted Powers Ant 3B - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20425 (826.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20625 (846.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.64	14.42	14.51	0	0
	1	12	14.60	14.47	14.45		0
	1	24	14.54	14.54	14.36		0
	12	0	14.47	14.42	14.56	0-1	0
	12	6	14.42	14.40	14.53		0
	12	13	14.42	14.44	14.54		0
	25	0	14.46	14.45	14.56		0
16QAM	1	0	14.58	14.33	14.77	0-1	0
	1	12	14.72	14.37	14.70		0
	1	24	14.49	14.44	14.69		0
	12	0	14.32	14.08	14.26	0-2	0
	12	6	14.22	14.11	14.32		0
	12	13	14.19	14.12	14.27		0
	25	0	14.23	14.04	14.26		0
64QAM	1	0	14.71	14.58	14.60	0-2	0
	1	12	14.84	14.27	14.68		0
	1	24	14.60	14.46	14.70		0
	12	0	14.33	13.98	14.31	0-3	0
	12	6	14.34	14.02	14.41		0
	12	13	14.34	14.02	14.39		0
	25	0	14.33	13.95	14.40		0

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Table 8-73
LTE Band 5 Conducted Powers Ant 3B - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20415 (825.5 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20635 (847.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.78	14.57	14.72	0	0
	1	7	14.86	14.62	14.76		0
	1	14	14.77	14.60	14.62		0
	8	0	14.71	14.63	14.80	0-1	0
	8	4	14.72	14.64	14.77		0
	8	7	14.69	14.63	14.73		0
	15	0	14.76	14.64	14.84		0
16QAM	1	0	14.56	14.15	14.65	0-1	0
	1	7	14.62	14.19	14.62		0
	1	14	14.57	14.16	14.42		0
	8	0	14.17	13.99	14.16	0-2	0
	8	4	14.22	14.01	14.14		0
	8	7	14.21	14.03	14.12		0
	15	0	14.26	13.97	14.24		0
64QAM	1	0	14.61	14.45	14.67	0-2	0
	1	7	14.80	14.26	14.41		0
	1	14	14.82	14.23	14.40		0
	8	0	14.32	13.98	14.41	0-3	0
	8	4	14.39	14.00	14.38		0
	8	7	14.39	13.93	14.40		0
	15	0	14.36	13.98	14.42		0

Table 8-74
LTE Band 5 Conducted Powers Ant 3B - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 5 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20407 (824.7 MHz)	Mid Channel 20525 (836.5 MHz)	High Channel 20643 (848.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.85	14.66	14.90	0	0
	1	2	14.83	14.64	14.82		0
	1	5	14.90	14.65	14.84		0
	3	0	14.77	14.69	14.66		0
	3	2	14.77	14.67	14.64		0
	3	3	14.75	14.67	14.67		0
	6	0	14.71	14.63	14.60	0-1	0
16QAM	1	0	14.58	14.34	14.55	0-1	0
	1	2	14.47	14.40	14.59		0
	1	5	14.68	14.58	14.52		0
	3	0	14.35	14.24	14.31		0
	3	2	14.35	14.24	14.26		0
	3	3	14.34	14.25	14.27		0
	6	0	14.24	14.21	14.20	0-2	0
64QAM	1	0	14.80	14.13	14.80	0-2	0
	1	2	14.81	14.31	14.71		0
	1	5	14.82	14.32	14.70		0
	3	0	14.52	14.17	14.49		0
	3	2	14.51	14.16	14.50		0
	3	3	14.54	14.12	14.48		0
	6	0	14.34	13.97	14.30	0-3	0

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8.3.7 LTE Band 4

Table 8-75
LTE Band 4 Conducted Powers Ant 4 - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**13.30**	0	0
	1	50	13.26		0
	1	99	13.29		0
	50	0	**13.36**	0-1	0
	50	25	13.34		0
	50	50	13.33		0
	100	0	13.29		0
16QAM	1	0	13.78	0-1	0
	1	50	13.66		0
	1	99	13.58		0
	50	0	13.52	0-2	0
	50	25	13.48		0
	50	50	13.41		0
	100	0	13.44		0
64QAM	1	0	13.60	0-2	0
	1	50	13.48		0
	1	99	13.35		0
	50	0	13.49	0-3	0
	50	25	13.45		0
	50	50	13.36		0
	100	0	13.43		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 8-76
LTE Band 4 Conducted Powers Ant 4 - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.33	13.10	13.44	0	0
	1	36	13.47	13.27	13.66		0
	1	74	13.13	13.29	13.58		0
	36	0	13.50	13.38	13.60	0-1	0
	36	18	13.53	13.43	13.66		0
	36	37	13.39	13.41	13.63		0
	75	0	13.42	13.35	13.53		0
16QAM	1	0	13.19	13.14	13.28	0-1	0
	1	36	13.38	13.20	13.47		0
	1	74	13.15	13.13	13.24		0
	36	0	13.19	13.10	13.30	0-2	0
	36	18	13.24	13.12	13.35		0
	36	37	13.12	13.07	13.30		0
	75	0	13.18	13.03	13.28		0
64QAM	1	0	13.27	13.21	13.16	0-2	0
	1	36	13.26	13.16	13.27		0
	1	74	13.25	13.15	13.32		0
	36	0	13.20	13.10	13.32	0-3	0
	36	18	13.26	13.10	13.40		0
	36	37	13.14	13.07	13.32		0
	75	0	13.21	13.07	13.24		0

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Table 8-77
LTE Band 4 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.51	13.32	13.47	0	0
	1	25	13.54	13.32	13.48		0
	1	49	13.51	13.40	13.50		0
	25	0	13.45	13.38	13.61	0-1	0
	25	12	13.49	13.37	13.60		0
	25	25	13.46	13.40	13.61		0
	50	0	13.48	13.36	13.57		0
16QAM	1	0	13.43	13.11	13.38	0-1	0
	1	25	13.36	13.02	13.30		0
	1	49	13.47	13.28	13.56		0
	25	0	13.17	13.11	13.35	0-2	0
	25	12	13.22	13.09	13.35		0
	25	25	13.23	13.11	13.36		0
	50	0	13.20	13.08	13.36		0
64QAM	1	0	13.32	13.20	13.49	0-2	0
	1	25	13.37	13.18	13.37		0
	1	49	13.25	13.41	13.46		0
	25	0	13.20	13.14	13.34	0-3	0
	25	12	13.25	13.11	13.34		0
	25	25	13.24	13.15	13.35		0
	50	0	13.21	13.08	13.34		0

Table 8-78
LTE Band 4 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.33	13.33	13.61	0	0
	1	12	13.39	13.27	13.59		0
	1	24	13.48	13.29	13.59		0
	12	0	13.24	13.26	13.47	0-1	0
	12	6	13.27	13.20	13.49		0
	12	13	13.33	13.27	13.49		0
	25	0	13.32	13.28	13.50		0
16QAM	1	0	13.33	13.05	13.16	0-1	0
	1	12	13.42	12.99	13.16		0
	1	24	13.47	12.96	13.42		0
	12	0	13.17	12.97	12.98	0-2	0
	12	6	13.12	12.92	13.02		0
	12	13	13.19	12.98	13.02		0
	25	0	13.09	12.91	12.97		0
64QAM	1	0	13.40	13.06	13.18	0-2	0
	1	12	13.58	13.03	13.25		0
	1	24	13.55	13.23	13.37		0
	12	0	13.13	13.01	12.98	0-3	0
	12	6	13.12	12.95	13.02		0
	12	13	13.23	13.03	12.98		0
	25	0	13.05	13.00	12.99		0

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Table 8-79
LTE Band 4 Conducted Powers Ant 4 - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.28	13.20	13.33	0	0
	1	7	13.41	13.21	13.28		0
	1	14	13.34	13.15	13.21		0
	8	0	13.21	13.16	13.37	0-1	0
	8	4	13.24	13.15	13.36		0
	8	7	13.24	13.20	13.34		0
	15	0	13.25	13.16	13.33		0
16QAM	1	0	13.51	13.28	13.60	0-1	0
	1	7	13.69	13.28	13.53		0
	1	14	13.50	13.20	13.28		0
	8	0	13.23	13.07	13.30	0-2	0
	8	4	13.24	13.11	13.36		0
	8	7	13.25	13.16	13.32		0
	15	0	13.23	13.05	13.28		0
64QAM	1	0	13.46	13.32	13.52	0-2	0
	1	7	13.64	13.27	13.32		0
	1	14	13.59	13.39	13.45		0
	8	0	13.20	13.04	13.36	0-3	0
	8	4	13.20	13.07	13.32		0
	8	7	13.23	13.04	13.33		0
	15	0	13.18	12.95	13.32		0

Table 8-80
LTE Band 4 Conducted Powers Ant 4 - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.17	13.15	13.50	0	0
	1	2	13.20	13.13	13.48		0
	1	5	13.25	13.13	13.51		0
	3	0	13.07	13.15	13.36		0
	3	2	13.11	13.13	13.31		0
	3	3	13.11	13.13	13.32		0
	6	0	13.07	13.08	13.26	0-1	0
16QAM	1	0	13.33	13.30	13.65	0-1	0
	1	2	13.63	13.29	13.73		0
	1	5	13.51	13.24	13.60		0
	3	0	13.21	13.27	13.38		0
	3	2	13.26	13.31	13.47		0
	3	3	13.28	13.28	13.49		0
	6	0	13.17	13.13	13.42	0-2	0
64QAM	1	0	13.46	13.44	13.65	0-2	0
	1	2	13.51	13.35	13.76		0
	1	5	13.47	13.40	13.64		0
	3	0	13.20	13.27	13.56		0
	3	2	13.30	13.25	13.52		0
	3	3	13.26	13.29	13.45		0
	6	0	13.08	13.03	13.37	0-3	0

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Table 8-81
LTE Band 4 Conducted Powers Ant 4 - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	10.88	0	0
	1	50	**10.90**		0
	1	99	10.84		0
	50	0	10.86	0-1	0
	50	25	**10.87**		0
	50	50	10.86		0
	100	0	10.83		0
16QAM	1	0	10.75	0-1	0
	1	50	10.78		0
	1	99	10.73		0
	50	0	10.45	0-2	0
	50	25	10.51		0
	50	50	10.48		0
	100	0	10.47		0
64QAM	1	0	10.47	0-2	0
	1	50	10.61		0
	1	99	10.41		0
	50	0	10.29	0-3	0
	50	25	10.30		0
	50	50	10.25		0
	100	0	10.44		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 8-82
LTE Band 4 Conducted Powers Ant 4 - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.96	10.64	10.79	0	0
	1	36	10.90	10.56	10.76		0
	1	74	10.92	10.54	10.78		0
	36	0	10.78	10.38	10.75	0-1	0
	36	18	10.76	10.36	10.72		0
	36	37	10.75	10.37	10.78		0
	75	0	10.66	10.36	10.68		0
16QAM	1	0	10.62	10.29	9.88	0-1	0
	1	36	10.70	10.15	10.15		0
	1	74	10.36	9.94	10.35		0
	36	0	10.53	10.21	10.17	0-2	0
	36	18	10.47	10.09	10.27		0
	36	37	10.42	10.03	10.33		0
	75	0	10.40	10.09	10.26		0
64QAM	1	0	10.85	10.68	9.93	0-2	0
	1	36	10.73	10.31	10.31		0
	1	74	10.44	10.21	10.34		0
	36	0	10.52	10.22	10.17	0-3	0
	36	18	10.47	10.09	10.28		0
	36	37	10.36	10.04	10.34		0
	75	0	10.37	10.20	10.24		0

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Table 8-83
LTE Band 4 Conducted Powers Ant 4 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.13	10.75	10.40	0	0
	1	25	11.08	10.48	10.67		0
	1	49	11.03	10.47	10.73		0
	25	0	11.00	10.60	10.67	0-1	0
	25	12	10.91	10.47	10.77		0
	25	25	10.87	10.47	10.88		0
	50	0	10.90	10.49	10.70		0
16QAM	1	0	10.80	10.37	10.19	0-1	0
	1	25	10.79	10.18	10.31		0
	1	49	10.69	9.91	10.36		0
	25	0	10.53	10.15	10.26	0-2	0
	25	12	10.46	10.04	10.27		0
	25	25	10.37	10.00	10.26		0
	50	0	10.42	10.07	10.27		0
64QAM	1	0	10.59	10.58	10.28	0-2	0
	1	25	10.57	10.12	10.12		0
	1	49	10.64	10.19	10.37		0
	25	0	10.53	10.16	10.22	0-3	0
	25	12	10.37	10.09	10.22		0
	25	25	10.35	10.07	10.27		0
	50	0	10.40	10.04	10.25		0

Table 8-84
LTE Band 4 Conducted Powers Ant 4 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.96	10.62	10.93	0	0
	1	12	10.97	10.48	10.92		0
	1	24	10.95	10.54	10.92		0
	12	0	10.82	10.49	10.75	0-1	0
	12	6	10.86	10.42	10.77		0
	12	13	10.80	10.51	10.76		0
	25	0	10.84	10.46	10.76		0
16QAM	1	0	10.58	10.50	10.57	0-1	0
	1	12	10.70	10.29	10.60		0
	1	24	10.59	10.50	10.53		0
	12	0	10.29	10.19	10.27	0-2	0
	12	6	10.26	10.13	10.28		0
	12	13	10.26	10.20	10.26		0
	25	0	10.25	10.13	10.24		0
64QAM	1	0	10.62	10.74	10.58	0-2	0
	1	12	10.80	10.33	10.52		0
	1	24	10.73	10.39	10.50		0
	12	0	10.31	10.27	10.26	0-3	0
	12	6	10.27	10.14	10.27		0
	12	13	10.27	10.10	10.26		0
	25	0	10.30	10.05	10.22		0

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Table 8-85
LTE Band 4 Conducted Powers Ant 4 - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.82	10.66	10.61	0	0
	1	7	10.86	10.60	10.60		0
	1	14	10.85	10.63	10.56		0
	8	0	10.72	10.55	10.71	0-1	0
	8	4	10.71	10.50	10.66		0
	8	7	10.74	10.54	10.67		0
	15	0	10.70	10.51	10.70		0
16QAM	1	0	10.54	10.30	10.27	0-1	0
	1	7	10.53	10.24	10.30		0
	1	14	10.57	10.12	10.25		0
	8	0	10.21	10.07	10.20	0-2	0
	8	4	10.20	10.02	10.17		0
	8	7	10.21	10.04	10.15		0
	15	0	10.12	9.91	10.11		0
64QAM	1	0	10.48	10.28	10.19	0-2	0
	1	7	10.34	10.46	10.42		0
	1	14	10.44	10.35	10.32		0
	8	0	10.13	9.94	10.20	0-3	0
	8	4	10.17	9.86	10.16		0
	8	7	10.19	9.93	10.15		0
	15	0	10.12	9.91	10.19		0

Table 8-86
LTE Band 4 Conducted Powers Ant 4 - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.73	10.69	10.83	0	0
	1	2	10.70	10.56	10.79		0
	1	5	10.70	10.57	10.83		0
	3	0	10.66	10.47	10.65		0
	3	2	10.65	10.40	10.66		0
	3	3	10.64	10.39	10.68		0
	6	0	10.62	10.33	10.63	0-1	0
16QAM	1	0	10.62	10.32	10.31	0-1	0
	1	2	10.54	10.19	10.36		0
	1	5	10.62	10.22	10.43		0
	3	0	10.34	10.11	10.37		0
	3	2	10.34	10.06	10.34		0
	3	3	10.33	10.13	10.34		0
	6	0	10.29	10.04	10.25	0-2	0
64QAM	1	0	10.47	10.57	10.63	0-2	0
	1	2	10.61	10.35	10.52		0
	1	5	10.56	10.36	10.46		0
	3	0	10.36	10.28	10.34		0
	3	2	10.33	10.18	10.37		0
	3	3	10.54	10.06	10.38		0
	6	0	10.24	9.99	10.10	0-3	0

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Table 8-87
LTE Band 4 Conducted Powers Ant 2A - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	15.28	0	0
	1	50	15.26		0
	1	99	**15.30**		0
	50	0	15.28	0-1	0
	50	25	15.27		0
	50	50	**15.29**		0
	100	0	15.28		0
16QAM	1	0	15.18	0-1	0
	1	50	15.22		0
	1	99	15.27		0
	50	0	15.12	0-2	0
	50	25	15.11		0
	50	50	15.12		0
	100	0	15.02		0
64QAM	1	0	15.27	0-2	0
	1	50	15.29		0
	1	99	15.30		0
	50	0	15.11	0-3	0
	50	25	15.11		0
	50	50	15.10		0
	100	0	15.09		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 8-88
LTE Band 4 Conducted Powers Ant 2A - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.22	15.07	15.08	0	0
	1	36	15.14	15.11	15.07		0
	1	74	15.19	15.13	15.01		0
	36	0	15.08	15.19	15.15	0-1	0
	36	18	15.06	15.20	15.17		0
	36	37	15.05	15.20	15.20		0
	75	0	15.05	15.18	15.16		0
16QAM	1	0	15.20	15.18	14.99	0-1	0
	1	36	15.22	15.09	15.23		0
	1	74	15.20	15.01	15.21		0
	36	0	15.18	15.11	15.24	0-2	0
	36	18	15.21	15.07	15.19		0
	36	37	15.22	15.10	15.19		0
	75	0	15.19	15.09	15.21		0
64QAM	1	0	14.86	15.23	15.16	0-2	0
	1	36	15.14	15.25	15.14		0
	1	74	15.19	15.14	14.91		0
	36	0	14.87	15.07	15.13	0-3	0
	36	18	15.00	15.12	15.09		0
	36	37	15.07	15.07	14.95		0
	75	0	14.98	15.05	14.98		0

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Table 8-89
LTE Band 4 Conducted Powers Ant 2A - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.11	15.15	15.16	0	0
	1	25	15.00	15.08	15.13		0
	1	49	15.03	15.12	15.06		0
	25	0	15.14	15.16	15.19	0-1	0
	25	12	15.09	15.16	15.22		0
	25	25	15.10	15.18	15.15		0
	50	0	15.11	15.17	15.20		0
16QAM	1	0	14.96	15.11	15.17	0-1	0
	1	25	14.91	15.02	15.27		0
	1	49	15.04	15.14	15.04		0
	25	0	15.08	14.95	14.97	0-2	0
	25	12	14.99	14.97	14.99		0
	25	25	14.97	15.00	14.97		0
	50	0	14.95	14.98	14.95		0
64QAM	1	0	15.25	15.23	15.13	0-2	0
	1	25	15.09	15.23	15.08		0
	1	49	15.12	15.21	14.99		0
	25	0	14.99	15.07	15.03	0-3	0
	25	12	14.91	15.07	14.94		0
	25	25	14.98	15.09	14.83		0
	50	0	14.93	15.07	14.91		0

Table 8-90
LTE Band 4 Conducted Powers Ant 2A - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.08	15.18	15.06	0	0
	1	12	15.09	15.15	14.89		0
	1	24	15.03	15.17	14.92		0
	12	0	15.03	15.02	15.08	0-1	0
	12	6	15.01	15.00	14.97		0
	12	13	15.02	15.02	14.99		0
	25	0	15.01	15.04	14.99		0
16QAM	1	0	15.13	15.17	14.94	0-1	0
	1	12	15.06	15.17	15.07		0
	1	24	14.92	15.14	15.09		0
	12	0	14.95	14.89	15.04	0-2	0
	12	6	14.97	14.92	15.03		0
	12	13	14.95	14.91	15.04		0
	25	0	14.82	14.79	14.79		0
64QAM	1	0	15.12	15.24	15.20	0-2	0
	1	12	15.19	14.95	15.13		0
	1	24	14.92	15.16	15.12		0
	12	0	14.78	14.97	14.98	0-3	0
	12	6	14.78	14.96	14.93		0
	12	13	14.66	14.95	14.92		0
	25	0	14.80	14.97	14.91		0

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Table 8-91
LTE Band 4 Conducted Powers Ant 2A - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.87	15.06	14.90	0	0
	1	7	14.92	15.12	14.95		0
	1	14	14.87	15.06	14.87		0
	8	0	14.90	14.98	14.92	0-1	0
	8	4	14.90	14.93	14.92		0
	8	7	14.86	14.94	14.91		0
	15	0	14.87	14.95	14.93		0
16QAM	1	0	14.94	14.79	15.06	0-1	0
	1	7	15.00	15.05	15.02		0
	1	14	14.74	15.09	15.06		0
	8	0	14.83	15.04	14.93	0-2	0
	8	4	14.85	15.03	14.91		0
	8	7	14.79	14.99	14.95		0
	15	0	14.57	14.66	14.70		0
64QAM	1	0	14.97	15.13	14.75	0-2	0
	1	7	15.06	15.20	14.91		0
	1	14	14.88	15.20	14.79		0
	8	0	14.66	14.91	14.52	0-3	0
	8	4	14.68	14.78	14.58		0
	8	7	14.66	14.90	14.50		0
	15	0	14.64	14.80	14.50		0

Table 8-92
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 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.94	15.06	15.18	0	0
	1	2	14.91	15.06	15.17		0
	1	5	14.96	15.09	15.20		0
	3	0	14.93	15.00	15.02		0
	3	2	14.94	14.97	14.99		0
	3	3	14.95	15.00	15.03		0
	6	0	14.92	14.94	14.98	0-1	0
16QAM	1	0	14.95	14.91	14.96	0-1	0
	1	2	14.96	15.08	14.96		0
	1	5	14.99	15.14	15.05		0
	3	0	14.89	14.99	14.89		0
	3	2	14.93	15.01	14.93		0
	3	3	14.88	14.92	14.79		0
	6	0	14.76	14.77	14.74	0-2	0
64QAM	1	0	15.01	15.01	14.88	0-2	0
	1	2	15.02	15.02	14.92		0
	1	5	14.96	14.98	14.87		0
	3	0	14.82	14.73	14.75		0
	3	2	14.85	14.72	14.71		0
	3	3	14.88	14.71	14.74		0
	6	0	14.62	14.66	14.64	0-3	0

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Table 8-93
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 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	12.05	0	0
	1	50	**12.15**		0
	1	99	12.14		0
	50	0	12.26	0-1	0
	50	25	**12.28**		0
	50	50	12.20		0
	100	0	12.14		0
16QAM	1	0	12.17	0-1	0
	1	50	12.30		0
	1	99	12.28		0
	50	0	11.85	0-2	0
	50	25	11.88		0
	50	50	11.86		0
	100	0	11.85		0
64QAM	1	0	12.16	0-2	0
	1	50	12.19		0
	1	99	12.23		0
	50	0	11.83	0-3	0
	50	25	11.90		0
	50	50	11.85		0
	100	0	11.84		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 8-94
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 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.25	12.04	12.16	0	0
	1	36	12.19	12.17	12.17		0
	1	74	12.12	12.05	11.96		0
	36	0	12.12	12.22	12.30	0-1	0
	36	18	12.06	12.25	12.22		0
	36	37	12.08	12.12	12.21		0
	75	0	12.01	12.19	12.17		0
16QAM	1	0	12.30	12.02	12.24	0-1	0
	1	36	12.08	12.22	12.12		0
	1	74	12.23	12.12	11.79		0
	36	0	12.04	12.03	12.08	0-2	0
	36	18	11.99	12.05	11.95		0
	36	37	11.98	11.96	11.95		0
	75	0	11.97	12.02	11.93		0
64QAM	1	0	12.23	11.92	12.17	0-2	0
	1	36	12.15	12.21	12.14		0
	1	74	12.14	12.30	11.96		0
	36	0	12.06	12.04	12.20	0-3	0
	36	18	12.02	12.14	12.09		0
	36	37	12.04	12.11	12.05		0
	75	0	11.98	12.07	12.00		0

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Table 8-95
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 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.18	12.13	12.24	0	0
	1	25	12.00	12.16	12.16		0
	1	49	12.03	12.11	12.03		0
	25	0	12.25	12.23	12.21	0-1	0
	25	12	12.14	12.25	12.20		0
	25	25	12.10	12.20	12.10		0
	50	0	12.18	12.25	12.20		0
16QAM	1	0	12.24	12.18	12.27	0-1	0
	1	25	12.17	12.30	12.12		0
	1	49	12.18	12.17	12.20		0
	25	0	12.03	12.10	12.03	0-2	0
	25	12	11.94	12.13	12.06		0
	25	25	11.87	12.07	11.94		0
	50	0	11.96	12.10	12.02		0
64QAM	1	0	12.30	12.22	12.08	0-2	0
	1	25	12.16	12.13	12.01		0
	1	49	12.23	12.29	11.86		0
	25	0	12.09	12.05	11.95	0-3	0
	25	12	12.00	12.06	11.89		0
	25	25	11.97	12.01	11.83		0
	50	0	12.05	12.09	11.93		0

Table 8-96
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 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.19	12.11	12.04	0	0
	1	12	12.17	12.09	11.85		0
	1	24	12.17	12.05	11.93		0
	12	0	12.10	12.06	12.07	0-1	0
	12	6	12.07	12.09	11.94		0
	12	13	12.04	12.06	11.98		0
	25	0	12.05	12.10	11.96		0
16QAM	1	0	12.30	12.13	11.95	0-1	0
	1	12	12.06	12.12	12.05		0
	1	24	11.97	12.06	12.06		0
	12	0	11.88	11.79	11.78	0-2	0
	12	6	11.89	11.87	11.72		0
	12	13	11.85	11.82	11.70		0
	25	0	11.83	11.87	11.72		0
64QAM	1	0	12.08	11.94	12.27	0-2	0
	1	12	11.83	12.02	11.97		0
	1	24	12.12	11.99	12.12		0
	12	0	11.98	11.83	11.79	0-3	0
	12	6	11.94	11.75	11.73		0
	12	13	11.88	11.75	11.75		0
	25	0	11.89	11.78	11.68		0

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Table 8-97
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 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.06	12.01	11.69	0	0
	1	7	12.09	12.07	11.76		0
	1	14	12.04	11.98	11.75		0
	8	0	11.99	12.09	11.80	0-1	0
	8	4	11.96	12.09	11.78		0
	8	7	11.98	12.02	11.81		0
	15	0	11.98	12.09	11.81		0
16QAM	1	0	12.30	11.89	11.90	0-1	0
	1	7	12.19	11.96	11.90		0
	1	14	12.09	12.04	11.90		0
	8	0	11.82	11.74	11.57	0-2	0
	8	4	11.81	11.73	11.59		0
	8	7	11.82	11.71	11.61		0
	15	0	11.77	11.69	11.58		0
64QAM	1	0	12.01	12.08	11.82	0-2	0
	1	7	12.05	12.00	11.91		0
	1	14	11.93	12.03	11.97		0
	8	0	11.72	11.78	11.62	0-3	0
	8	4	11.70	11.79	11.62		0
	8	7	11.71	11.71	11.61		0
	15	0	11.68	11.71	11.60		0

Table 8-98
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 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.16	11.98	11.99	0	0
	1	2	12.15	11.98	11.97		0
	1	5	12.15	12.01	11.99		0
	3	0	12.12	12.02	11.84		0
	3	2	12.12	12.02	11.85		0
	3	3	12.12	12.05	11.89		0
	6	0	12.09	11.99	11.82	0-1	0
16QAM	1	0	12.22	12.01	11.82	0-1	0
	1	2	12.07	11.82	12.03		0
	1	5	12.08	11.93	11.98		0
	3	0	11.81	11.72	11.78		0
	3	2	11.86	11.82	11.73		0
	3	3	11.79	11.80	11.70		0
	6	0	11.80	11.70	11.60	0-2	0
64QAM	1	0	12.04	11.74	11.80	0-2	0
	1	2	12.04	11.92	11.80		0
	1	5	12.06	12.01	11.84		0
	3	0	11.96	11.85	11.78		0
	3	2	11.86	11.84	11.75		0
	3	3	11.91	11.90	11.73		0
	6	0	11.75	11.74	11.56	0-3	0

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Table 8-99
LTE Band 4 Conducted Powers Ant 1A - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	14.33	0	0
	1	50	**14.55**		0
	1	99	14.23		0
	50	0	**14.60**	0-1	0
	50	25	14.59		0
	50	50	14.53		0
	100	0	14.54		0
16QAM	1	0	14.37	0-1	0
	1	50	14.60		0
	1	99	14.17		0
	50	0	14.51	0-2	0
	50	25	14.53		0
	50	50	14.39		0
	100	0	14.45		0
64QAM	1	0	14.30	0-2	0
	1	50	14.60		0
	1	99	14.29		0
	50	0	14.20	0-3	0
	50	25	14.25		0
	50	50	14.10		0
	100	0	14.16		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 8-100
LTE Band 4 Conducted Powers Ant 1A - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.10	14.43	14.15	0	0
	1	36	14.27	14.58	14.31		0
	1	74	14.14	14.30	14.11		0
	36	0	14.35	14.52	14.24	0-1	0
	36	18	14.38	14.52	14.42		0
	36	37	14.31	14.40	14.34		0
	75	0	14.36	14.50	14.37		0
16QAM	1	0	14.51	14.48	14.49	0-1	0
	1	36	14.60	14.60	14.60		0
	1	74	14.33	14.37	14.53		0
	36	0	14.39	14.48	14.26	0-2	0
	36	18	14.40	14.50	14.49		0
	36	37	14.30	14.34	14.39		0
	75	0	14.30	14.41	14.45		0
64QAM	1	0	14.24	14.47	14.46	0-2	0
	1	36	14.39	14.60	14.54		0
	1	74	14.27	14.52	14.40		0
	36	0	14.42	14.52	14.33	0-3	0
	36	18	14.42	14.55	14.48		0
	36	37	14.34	14.44	14.39		0
	75	0	14.38	14.46	14.38		0

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Table 8-101
LTE Band 4 Conducted Powers Ant 1A - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.15	14.32	14.17	0	0
	1	25	14.25	14.30	14.24		0
	1	49	14.27	14.25	14.12		0
	25	0	14.26	14.42	14.34	0-1	0
	25	12	14.34	14.41	14.32		0
	25	25	14.35	14.35	14.23		0
	50	0	14.35	14.43	14.31		0
16QAM	1	0	14.60	14.60	14.60	0-1	0
	1	25	14.53	14.51	14.44		0
	1	49	14.57	14.60	14.60		0
	25	0	14.34	14.55	14.42	0-2	0
	25	12	14.40	14.54	14.44		0
	25	25	14.41	14.45	14.30		0
	50	0	14.43	14.54	14.42		0
64QAM	1	0	14.57	14.55	14.47	0-2	0
	1	25	14.60	14.56	14.48		0
	1	49	14.60	14.54	14.38		0
	25	0	14.44	14.48	14.46	0-3	0
	25	12	14.46	14.47	14.44		0
	25	25	14.46	14.39	14.33		0
	50	0	14.45	14.45	14.41		0

Table 8-102
LTE Band 4 Conducted Powers Ant 1A - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.17	14.59	14.19	0	0
	1	12	14.20	14.56	14.15		0
	1	24	14.32	14.53	14.16		0
	12	0	14.14	14.48	14.26	0-1	0
	12	6	14.16	14.47	14.18		0
	12	13	14.27	14.39	14.16		0
	25	0	14.17	14.47	14.18		0
16QAM	1	0	14.48	14.60	14.60	0-1	0
	1	12	14.44	14.57	14.37		0
	1	24	14.52	14.60	14.42		0
	12	0	14.15	14.39	14.29	0-2	0
	12	6	14.20	14.38	14.19		0
	12	13	14.31	14.28	14.13		0
	25	0	14.15	14.32	14.13		0
64QAM	1	0	14.46	14.36	14.52	0-2	0
	1	12	14.70	14.36	14.49		0
	1	24	14.61	14.46	14.59		0
	12	0	14.21	14.39	14.24	0-3	0
	12	6	14.18	14.35	14.13		0
	12	13	14.33	14.29	14.13		0
	25	0	14.22	14.30	14.15		0

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Table 8-103
LTE Band 4 Conducted Powers Ant 1A - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.19	14.53	14.15	0	0
	1	7	14.21	14.58	14.19		0
	1	14	14.25	14.46	14.13		0
	8	0	14.23	14.46	14.24	0-1	0
	8	4	14.21	14.45	14.26		0
	8	7	14.24	14.38	14.25		0
	15	0	14.26	14.48	14.27		0
16QAM	1	0	14.56	14.66	14.53	0-1	0
	1	7	14.61	14.77	14.67		0
	1	14	14.40	14.40	14.64		0
	8	0	14.14	14.39	14.26	0-2	0
	8	4	14.15	14.35	14.23		0
	8	7	14.17	14.33	14.18		0
	15	0	14.13	14.38	14.20		0
64QAM	1	0	14.39	14.72	14.45	0-2	0
	1	7	14.60	14.76	14.57		0
	1	14	14.43	14.65	14.47		0
	8	0	14.14	14.48	14.28	0-3	0
	8	4	14.13	14.42	14.30		0
	8	7	14.18	14.42	14.29		0
	15	0	14.10	14.40	14.28		0

Table 8-104
LTE Band 4 Conducted Powers Ant 1A - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.20	14.59	14.42	0	0
	1	2	14.21	14.56	14.39		0
	1	5	14.20	14.59	14.43		0
	3	0	14.20	14.48	14.29		0
	3	2	14.21	14.47	14.30		0
	3	3	14.19	14.49	14.27		0
	6	0	14.16	14.45	14.25	0-1	0
16QAM	1	0	14.21	14.60	14.60	0-1	0
	1	2	14.18	14.58	14.56		0
	1	5	14.23	14.61	14.62		0
	3	0	14.20	14.48	14.30		0
	3	2	14.21	14.50	14.25		0
	3	3	14.18	14.48	14.32		0
	6	0	14.17	14.45	14.20	0-2	0
64QAM	1	0	14.49	14.67	14.56	0-2	0
	1	2	14.43	14.74	14.50		0
	1	5	14.41	14.74	14.58		0
	3	0	14.30	14.45	14.40		0
	3	2	14.29	14.46	14.37		0
	3	3	14.30	14.46	14.39		0
	6	0	14.24	14.38	14.22	0-3	0

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Table 8-105
LTE Band 4 Conducted Powers Ant 1A - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**11.70**	0	0
	1	50	11.47		0
	1	99	11.34		0
	50	0	11.54	0-1	0
	50	25	**11.67**		0
	50	50	11.50		0
	100	0	11.65		0
16QAM	1	0	11.47	0-1	0
	1	50	11.70		0
	1	99	11.63		0
	50	0	11.20	0-2	0
	50	25	11.27		0
	50	50	11.20		0
	100	0	11.21		0
64QAM	1	0	11.46	0-2	0
	1	50	11.74		0
	1	99	11.56		0
	50	0	11.15	0-3	0
	50	25	11.19		0
	50	50	11.03		0
	100	0	11.08		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 8-106
LTE Band 4 Conducted Powers Ant 1A - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.17	11.77	11.68	0	0
	1	36	11.18	11.67	11.56		0
	1	74	11.22	11.62	11.44		0
	36	0	11.21	11.65	11.58	0-1	0
	36	18	11.30	11.73	11.57		0
	36	37	11.34	11.70	11.44		0
	75	0	11.30	11.69	11.50		0
16QAM	1	0	11.53	11.68	11.58	0-1	0
	1	36	11.50	11.71	11.62		0
	1	74	11.59	11.69	11.54		0
	36	0	11.37	11.65	11.63	0-2	0
	36	18	11.44	11.69	11.61		0
	36	37	11.47	11.59	11.55		0
	75	0	11.41	11.60	11.57		0
64QAM	1	0	11.14	11.49	11.32	0-2	0
	1	36	11.24	11.60	11.42		0
	1	74	11.29	11.56	11.26		0
	36	0	11.03	11.37	11.34	0-3	0
	36	18	11.09	11.41	11.35		0
	36	37	11.12	11.38	11.24		0
	75	0	11.10	11.38	11.21		0

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Table 8-107
LTE Band 4 Conducted Powers Ant 1A - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.30	11.65	11.52	0	0
	1	25	11.38	11.69	11.39		0
	1	49	11.44	11.61	11.40		0
	25	0	11.31	11.59	11.57	0-1	0
	25	12	11.26	11.60	11.51		0
	25	25	11.32	11.55	11.48		0
	50	0	11.27	11.58	11.49		0
16QAM	1	0	11.57	11.79	11.71	0-1	0
	1	25	11.43	11.66	11.44		0
	1	49	11.52	11.73	11.59		0
	25	0	11.27	11.65	11.50	0-2	0
	25	12	11.20	11.64	11.48		0
	25	25	11.29	11.67	11.47		0
	50	0	11.21	11.56	11.45		0
64QAM	1	0	11.33	11.62	11.49	0-2	0
	1	25	11.10	11.58	11.38		0
	1	49	11.20	11.74	11.56		0
	25	0	11.13	11.34	11.42	0-3	0
	25	12	10.99	11.40	11.36		0
	25	25	11.12	11.35	11.37		0
	50	0	11.01	11.34	11.36		0

Table 8-108
LTE Band 4 Conducted Powers Ant 1A - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.52	11.69	11.58	0	0
	1	12	11.51	11.72	11.51		0
	1	24	11.42	11.67	11.56		0
	12	0	11.40	11.62	11.34	0-1	0
	12	6	11.39	11.63	11.36		0
	12	13	11.38	11.61	11.40		0
	25	0	11.32	11.53	11.37		0
16QAM	1	0	11.34	11.79	11.36	0-1	0
	1	12	11.35	11.78	11.24		0
	1	24	11.32	11.77	11.43		0
	12	0	11.10	11.41	10.99	0-2	0
	12	6	11.09	11.38	10.97		0
	12	13	11.06	11.33	11.01		0
	25	0	11.02	11.37	11.00		0
64QAM	1	0	11.42	11.79	11.35	0-2	0
	1	12	11.18	11.78	11.40		0
	1	24	11.15	11.75	11.49		0
	12	0	10.91	11.39	11.11	0-3	0
	12	6	10.93	11.32	11.16		0
	12	13	10.85	11.30	11.19		0
	25	0	10.89	11.36	11.15		0

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Table 8-109
LTE Band 4 Conducted Powers Ant 1A - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.32	11.46	11.13	0	0
	1	7	11.38	11.52	11.25		0
	1	14	11.23	11.39	11.16		0
	8	0	11.23	11.34	11.23	0-1	0
	8	4	11.25	11.40	11.24		0
	8	7	11.22	11.32	11.28		0
	15	0	11.24	11.38	11.20		0
16QAM	1	0	11.28	11.40	11.18	0-1	0
	1	7	11.37	11.53	11.17		0
	1	14	11.31	11.55	11.11		0
	8	0	10.92	11.31	10.97	0-2	0
	8	4	10.91	11.33	11.06		0
	8	7	10.93	11.21	10.99		0
	15	0	10.88	11.17	10.94		0
64QAM	1	0	10.96	11.68	11.00	0-2	0
	1	7	11.04	11.60	11.00		0
	1	14	10.97	11.69	11.12		0
	8	0	10.83	11.21	10.86	0-3	0
	8	4	10.81	11.22	10.93		0
	8	7	10.80	11.19	10.92		0
	15	0	10.80	11.13	10.86		0

Table 8-110
LTE Band 4 Conducted Powers Ant 1A - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.19	11.65	11.33	0	0
	1	2	11.40	11.62	11.33		0
	1	5	11.20	11.66	11.35		0
	3	0	11.29	11.44	11.33		0
	3	2	11.22	11.41	11.30		0
	3	3	11.22	11.43	11.29		0
	6	0	11.18	11.42	11.28	0-1	0
16QAM	1	0	11.44	11.54	11.25	0-1	0
	1	2	11.44	11.53	11.22		0
	1	5	11.51	11.67	11.12		0
	3	0	11.16	11.43	11.06		0
	3	2	11.21	11.42	11.20		0
	3	3	11.23	11.43	11.19		0
	6	0	11.15	11.31	11.11	0-2	0
64QAM	1	0	11.27	11.60	11.42	0-2	0
	1	2	11.31	11.48	11.34		0
	1	5	11.20	11.56	11.33		0
	3	0	11.10	11.47	11.12		0
	3	2	11.03	11.37	11.05		0
	3	3	11.13	11.45	11.13		0
	6	0	10.84	11.20	10.94	0-3	0

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Table 8-111
LTE Band 4 Conducted Powers Ant 3A - 20 MHz Bandwidth

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**13.64**	0	0
	1	50	13.59		0
	1	99	13.62		0
	50	0	13.49	0-1	0
	50	25	13.49		0
	50	50	**13.50**		0
	100	0	13.45		0
16QAM	1	0	13.72	0-1	0
	1	50	13.72		0
	1	99	13.74		0
	50	0	13.43	0-2	0
	50	25	13.44		0
	50	50	13.45		0
	100	0	13.41		0
64QAM	1	0	13.64	0-2	0
	1	50	13.56		0
	1	99	13.63		0
	50	0	13.46	0-3	0
	50	25	13.47		0
	50	50	13.46		0
	100	0	13.44		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 8-112
LTE Band 4 Conducted Powers Ant 3A - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.51	13.49	13.66	0	0
	1	36	13.46	13.67	13.59		0
	1	74	13.42	13.61	13.57		0
	36	0	13.65	13.74	13.53	0-1	0
	36	18	13.55	13.79	13.51		0
	36	37	13.45	13.69	13.49		0
	75	0	13.50	13.74	13.49		0
16QAM	1	0	13.71	13.43	13.62	0-1	0
	1	36	13.73	13.59	13.47		0
	1	74	13.48	13.70	13.44		0
	36	0	13.52	13.50	13.39	0-2	0
	36	18	13.40	13.52	13.37		0
	36	37	13.32	13.45	13.30		0
	75	0	13.33	13.50	13.33		0
64QAM	1	0	13.30	13.54	13.50	0-2	0
	1	36	13.48	13.73	13.40		0
	1	74	13.61	13.72	13.44		0
	36	0	13.55	13.59	13.38	0-3	0
	36	18	13.43	13.61	13.41		0
	36	37	13.40	13.49	13.36		0
	75	0	13.39	13.56	13.34		0

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Table 8-113
LTE Band 4 Conducted Powers Ant 3A - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.68	13.71	13.45	0	0
	1	25	13.70	13.64	13.31		0
	1	49	13.46	13.53	13.43		0
	25	0	13.67	13.71	13.43	0-1	0
	25	12	13.68	13.68	13.42		0
	25	25	13.59	13.61	13.53		0
	50	0	13.66	13.69	13.43		0
16QAM	1	0	13.68	13.78	13.44	0-1	0
	1	25	13.53	13.79	13.44		0
	1	49	13.20	13.61	13.26		0
	25	0	13.42	13.56	13.58	0-2	0
	25	12	13.40	13.57	13.23		0
	25	25	13.31	13.44	13.22		0
	50	0	13.40	13.57	13.22		0
64QAM	1	0	13.38	13.61	13.45	0-2	0
	1	25	13.45	13.73	13.50		0
	1	49	13.38	13.61	13.54		0
	25	0	13.38	13.55	13.39	0-3	0
	25	12	13.39	13.57	13.35		0
	25	25	13.36	13.44	13.47		0
	50	0	13.36	13.55	13.34		0

Table 8-114
LTE Band 4 Conducted Powers Ant 3A - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.52	13.78	13.33	0	0
	1	12	13.56	13.81	13.43		0
	1	24	13.69	13.77	13.32		0
	12	0	13.52	13.66	13.38	0-1	0
	12	6	13.46	13.65	13.47		0
	12	13	13.53	13.59	13.45		0
	25	0	13.49	13.67	13.47		0
16QAM	1	0	13.41	13.63	13.45	0-1	0
	1	12	13.29	13.83	13.55		0
	1	24	13.52	13.56	13.47		0
	12	0	13.31	13.36	13.15	0-2	0
	12	6	13.17	13.36	13.21		0
	12	13	13.24	13.29	13.18		0
	25	0	13.19	13.31	13.21		0
64QAM	1	0	13.40	13.51	13.59	0-2	0
	1	12	13.36	13.25	13.71		0
	1	24	13.60	13.24	13.48		0
	12	0	13.19	13.26	13.16	0-3	0
	12	6	13.21	13.25	13.33		0
	12	13	13.21	13.16	13.25		0
	25	0	13.17	13.21	13.28		0

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Table 8-115
LTE Band 4 Conducted Powers Ant 3A - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.33	13.59	13.40	0	0
	1	7	13.44	13.66	13.43		0
	1	14	13.37	13.54	13.27		0
	8	0	13.46	13.50	13.44	0-1	0
	8	4	13.45	13.48	13.40		0
	8	7	13.36	13.40	13.39		0
	15	0	13.39	13.47	13.44		0
16QAM	1	0	13.21	13.76	13.52	0-1	0
	1	7	13.37	13.76	13.69		0
	1	14	13.16	13.47	13.38		0
	8	0	13.11	13.28	13.14	0-2	0
	8	4	13.03	13.26	13.05		0
	8	7	13.03	13.16	13.10		0
	15	0	13.02	13.22	13.11		0
64QAM	1	0	13.39	13.53	13.50	0-2	0
	1	7	13.64	13.47	13.50		0
	1	14	13.36	13.39	13.44		0
	8	0	13.18	13.23	13.19	0-3	0
	8	4	13.12	13.24	13.15		0
	8	7	13.08	13.12	13.16		0
	15	0	13.07	13.13	13.12		0

Table 8-116
LTE Band 4 Conducted Powers Ant 3A - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.50	13.61	13.49	0	0
	1	2	13.54	13.56	13.46		0
	1	5	13.51	13.60	13.41		0
	3	0	13.41	13.48	13.35		0
	3	2	13.47	13.46	13.36		0
	3	3	13.48	13.48	13.30		0
	6	0	13.46	13.45	13.31	0-1	0
16QAM	1	0	13.47	13.48	13.50	0-1	0
	1	2	13.39	13.56	13.46		0
	1	5	13.45	13.51	13.41		0
	3	0	13.17	13.30	13.17		0
	3	2	13.20	13.30	13.19		0
	3	3	13.21	13.29	13.15		0
	6	0	13.22	13.14	13.11	0-2	0
64QAM	1	0	13.32	13.44	13.51	0-2	0
	1	2	13.30	13.51	13.50		0
	1	5	13.37	13.58	13.45		0
	3	0	13.14	13.32	13.31		0
	3	2	13.16	13.34	13.34		0
	3	3	13.17	13.31	13.25		0
	6	0	13.12	13.24	13.16	0-3	0

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Table 8-117
LTE Band 4 Conducted Powers Ant 3A - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20175 (1732.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	10.62	0	0
	1	50	**10.87**		0
	1	99	10.63		0
	50	0	10.75	0-1	0
	50	25	**10.82**		0
	50	50	10.72		0
	100	0	10.79		0
16QAM	1	0	10.77	0-1	0
	1	50	10.86		0
	1	99	10.78		0
	50	0	10.58	0-2	0
	50	25	10.63		0
	50	50	10.56		0
	100	0	10.59		0
64QAM	1	0	10.51	0-2	0
	1	50	10.76		0
	1	99	10.56		0
	50	0	10.56	0-3	0
	50	25	10.61		0
	50	50	10.54		0
	100	0	10.58		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 8-118
LTE Band 4 Conducted Powers Ant 3A - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20025 (1717.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20325 (1747.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.70	10.88	10.86	0	0
	1	36	10.56	11.10	10.93		0
	1	74	10.53	11.08	10.71		0
	36	0	10.83	10.93	10.84	0-1	0
	36	18	10.88	11.02	11.03		0
	36	37	10.92	10.99	11.01		0
	75	0	10.87	10.99	10.98		0
16QAM	1	0	10.63	10.34	10.79	0-1	0
	1	36	10.55	10.73	10.82		0
	1	74	10.63	10.69	10.58		0
	36	0	10.38	10.34	10.41	0-2	0
	36	18	10.39	10.43	10.59		0
	36	37	10.42	10.39	10.59		0
	75	0	10.37	10.45	10.55		0
64QAM	1	0	10.63	10.50	10.64	0-2	0
	1	36	10.50	10.56	10.76		0
	1	74	10.45	10.53	10.53		0
	36	0	10.39	10.36	10.44	0-3	0
	36	18	10.42	10.43	10.66		0
	36	37	10.43	10.39	10.66		0
	75	0	10.35	10.40	10.55		0

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Table 8-119
LTE Band 4 Conducted Powers Ant 3A - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20000 (1715.0 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20350 (1750.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.83	10.98	10.89	0	0
	1	25	10.66	10.97	10.81		0
	1	49	10.71	10.93	10.59		0
	25	0	10.90	11.06	10.99	0-1	0
	25	12	10.79	11.05	10.94		0
	25	25	10.78	11.00	10.81		0
	50	0	10.79	11.04	10.90		0
16QAM	1	0	10.66	10.57	10.59	0-1	0
	1	25	10.62	10.68	10.43		0
	1	49	10.41	10.53	10.45		0
	25	0	10.43	10.44	10.37	0-2	0
	25	12	10.24	10.46	10.41		0
	25	25	10.21	10.47	10.33		0
	50	0	10.26	10.60	10.41		0
64QAM	1	0	10.54	10.50	10.55	0-2	0
	1	25	10.31	10.35	10.42		0
	1	49	10.45	10.48	10.38		0
	25	0	10.39	10.48	10.47	0-3	0
	25	12	10.22	10.48	10.41		0
	25	25	10.23	10.48	10.42		0
	50	0	10.27	10.46	10.41		0

Table 8-120
LTE Band 4 Conducted Powers Ant 3A - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19975 (1712.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20375 (1752.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.95	10.85	10.72	0	0
	1	12	10.94	10.88	10.63		0
	1	24	10.89	10.88	10.53		0
	12	0	10.82	10.80	10.77	0-1	0
	12	6	10.80	10.83	10.69		0
	12	13	10.77	10.80	10.62		0
	25	0	10.77	10.86	10.69		0
16QAM	1	0	10.63	10.62	10.57	0-1	0
	1	12	10.46	10.63	10.55		0
	1	24	10.68	10.86	10.57		0
	12	0	10.33	10.38	10.38	0-2	0
	12	6	10.29	10.43	10.23		0
	12	13	10.26	10.42	10.22		0
	25	0	10.29	10.41	10.22		0
64QAM	1	0	10.49	10.70	10.35	0-2	0
	1	12	10.66	10.74	10.42		0
	1	24	10.24	10.89	10.62		0
	12	0	10.36	10.46	10.33	0-3	0
	12	6	10.31	10.31	10.18		0
	12	13	10.19	10.36	10.18		0
	25	0	10.27	10.36	10.19		0

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Table 8-121
LTE Band 4 Conducted Powers Ant 3A - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19965 (1711.5 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20385 (1753.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.80	10.68	10.61	0	0
	1	7	10.86	10.73	10.56		0
	1	14	10.80	10.64	10.48		0
	8	0	10.74	10.73	10.63	0-1	0
	8	4	10.74	10.75	10.59		0
	8	7	10.74	10.72	10.60		0
	15	0	10.74	10.75	10.60		0
16QAM	1	0	10.61	10.31	10.43	0-1	0
	1	7	10.63	10.72	10.37		0
	1	14	10.71	10.47	10.32		0
	8	0	10.27	10.21	10.02	0-2	0
	8	4	10.28	10.22	9.97		0
	8	7	10.23	10.16	10.00		0
	15	0	10.22	10.17	9.94		0
64QAM	1	0	10.61	10.40	10.12	0-2	0
	1	7	10.59	10.72	10.16		0
	1	14	10.62	10.42	10.09		0
	8	0	10.29	10.22	10.01	0-3	0
	8	4	10.24	10.17	10.00		0
	8	7	10.27	10.16	9.96		0
	15	0	10.24	10.13	9.93		0

Table 8-122
LTE Band 4 Conducted Powers Ant 3A - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 19957 (1710.7 MHz)	Mid Channel 20175 (1732.5 MHz)	High Channel 20393 (1754.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.86	10.72	10.66	0	0
	1	2	10.83	10.93	10.61		0
	1	5	10.86	10.95	10.63		0
	3	0	10.77	10.72	10.58		0
	3	2	10.80	10.75	10.57		0
	3	3	10.78	10.74	10.59		0
	6	0	10.73	10.71	10.55	0-1	0
16QAM	1	0	10.62	10.16	10.45	0-1	0
	1	2	10.61	10.47	10.19		0
	1	5	10.78	10.55	10.34		0
	3	0	10.47	10.20	10.13		0
	3	2	10.45	10.37	10.15		0
	3	3	10.38	10.28	10.10		0
	6	0	10.29	10.17	9.93	0-2	0
64QAM	1	0	10.74	10.49	10.24	0-2	0
	1	2	10.62	10.41	10.35		0
	1	5	10.62	10.66	10.23		0
	3	0	10.43	10.46	10.06		0
	3	2	10.32	10.45	10.15		0
	3	3	10.46	10.30	10.14		0
	6	0	10.28	10.14	9.96	0-3	0

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8.3.8 LTE Band 66

Table 8-123
LTE Band 66 Conducted Powers Ant 4 - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**13.62**	13.35	13.39	0	0
	1	50	13.60	13.39	13.44		0
	1	99	13.41	13.29	13.37		0
	50	0	**13.58**	13.31	13.51	0-1	0
	50	25	13.51	13.40	13.46		0
	50	50	13.28	13.27	13.48		0
	100	0	13.48	13.31	13.34		0
16QAM	1	0	13.70	13.35	13.63	0-1	0
	1	50	13.69	13.44	13.58		0
	1	99	13.51	13.31	13.52		0
	50	0	13.47	13.32	13.26	0-2	0
	50	25	13.44	13.41	13.24		0
	50	50	13.26	13.25	13.28		0
	100	0	13.38	13.33	13.21		0
64QAM	1	0	13.68	13.28	13.28	0-2	0
	1	50	13.75	13.33	13.37		0
	1	99	13.61	13.24	13.39		0
	50	0	13.43	13.24	13.25	0-3	0
	50	25	13.42	13.32	13.23		0
	50	50	13.24	13.18	13.26		0
	100	0	13.34	13.27	13.14		0

Table 8-124
LTE Band 66 Conducted Powers Ant 4 - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.44	13.33	13.10	0	0
	1	36	13.45	13.49	13.24		0
	1	74	13.36	13.32	13.22		0
	36	0	13.44	13.47	13.29	0-1	0
	36	18	13.45	13.53	13.36		0
	36	37	13.41	13.48	13.36		0
	75	0	13.40	13.49	13.32		0
16QAM	1	0	13.35	13.31	13.04	0-1	0
	1	36	13.33	13.42	13.17		0
	1	74	13.25	13.40	13.15		0
	36	0	13.20	13.31	13.08	0-2	0
	36	18	13.18	13.43	13.16		0
	36	37	13.20	13.34	13.12		0
	75	0	13.12	13.37	13.10		0
64QAM	1	0	13.34	13.38	13.10	0-2	0
	1	36	13.32	13.66	13.23		0
	1	74	13.23	13.52	13.06		0
	36	0	13.15	13.31	13.12	0-3	0
	36	18	13.18	13.43	13.17		0
	36	37	13.21	13.37	13.12		0
	75	0	13.14	13.36	13.07		0

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Table 8-125
LTE Band 66 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.55	13.42	13.31	0	0
	1	25	13.47	13.34	13.29		0
	1	49	13.46	13.34	13.27		0
	25	0	13.44	13.38	13.37	0-1	0
	25	12	13.38	13.41	13.39		0
	25	25	13.35	13.41	13.36		0
	50	0	13.38	13.41	13.39		0
16QAM	1	0	13.59	13.63	13.05	0-1	0
	1	25	13.58	13.58	13.15		0
	1	49	13.52	13.44	13.09		0
	25	0	13.35	13.38	13.17	0-2	0
	25	12	13.29	13.41	13.16		0
	25	25	13.26	13.39	13.11		0
	50	0	13.29	13.42	13.13		0
64QAM	1	0	13.56	13.65	13.25	0-2	0
	1	25	13.48	13.75	13.37		0
	1	49	13.57	13.64	13.28		0
	25	0	13.41	13.42	13.16	0-3	0
	25	12	13.34	13.44	13.16		0
	25	25	13.30	13.41	13.11		0
	50	0	13.32	13.41	13.14		0

Table 8-126
LTE Band 66 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.49	13.25	13.39	0	0
	1	12	13.44	13.33	13.32		0
	1	24	13.44	13.33	13.33		0
	12	0	13.38	13.23	13.21	0-1	0
	12	6	13.34	13.21	13.15		0
	12	13	13.29	13.22	13.16		0
	25	0	13.34	13.22	13.16		0
16QAM	1	0	13.47	13.29	13.30	0-1	0
	1	12	13.43	13.31	13.10		0
	1	24	13.49	13.44	13.29		0
	12	0	13.18	13.10	13.06	0-2	0
	12	6	13.17	13.14	13.00		0
	12	13	13.11	13.18	12.99		0
	25	0	13.10	13.14	13.00		0
64QAM	1	0	13.48	13.26	13.36	0-2	0
	1	12	13.60	13.36	13.06		0
	1	24	13.47	13.40	13.21		0
	12	0	13.21	13.23	13.02	0-3	0
	12	6	13.15	13.13	13.00		0
	12	13	13.10	13.19	13.04		0
	25	0	13.13	13.20	12.96		0

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Table 8-127
LTE Band 66 Conducted Powers Ant 4 - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.28	13.25	13.05	0	0
	1	7	13.34	13.31	13.11		0
	1	14	13.28	13.25	13.07		0
	8	0	13.21	13.25	13.16	0-1	0
	8	4	13.21	13.25	13.16		0
	8	7	13.22	13.23	13.18		0
	15	0	13.22	13.28	13.17		0
16QAM	1	0	13.54	13.37	13.55	0-1	0
	1	7	13.49	13.46	13.68		0
	1	14	13.60	13.32	13.61		0
	8	0	13.40	13.28	13.20	0-2	0
	8	4	13.40	13.25	13.19		0
	8	7	13.36	13.31	13.19		0
	15	0	13.31	13.21	13.19		0
64QAM	1	0	13.67	13.32	13.47	0-2	0
	1	7	13.74	13.42	13.42		0
	1	14	13.64	13.35	13.32		0
	8	0	13.30	13.35	13.15	0-3	0
	8	4	13.29	13.31	13.14		0
	8	7	13.27	13.32	13.13		0
	15	0	13.29	13.26	13.11		0

Table 8-128
LTE Band 66 Conducted Powers Ant 4 - 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.41	13.36	13.27	0	0
	1	2	13.41	13.32	13.24		0
	1	5	13.44	13.33	13.28		0
	3	0	13.29	13.32	13.15		0
	3	2	13.29	13.30	13.12		0
	3	3	13.31	13.30	13.14		0
	6	0	13.27	13.26	13.06	0-1	0
16QAM	1	0	13.52	13.57	13.30	0-1	0
	1	2	13.63	13.28	13.41		0
	1	5	13.67	13.41	13.33		0
	3	0	13.29	13.29	13.23		0
	3	2	13.39	13.21	13.31		0
	3	3	13.35	13.41	13.29		0
	6	0	13.26	13.25	13.11	0-2	0
64QAM	1	0	13.42	13.55	13.42	0-2	0
	1	2	13.41	13.63	13.39		0
	1	5	13.57	13.56	13.51		0
	3	0	13.46	13.36	13.31		0
	3	2	13.43	13.38	13.34		0
	3	3	13.40	13.44	13.23		0
	6	0	13.17	13.19	13.11	0-3	0

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Table 8-129
LTE Band 66 Conducted Powers Ant 4 - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.06	**11.28**	10.96	0	0
	1	50	10.95	11.27	11.01		0
	1	99	10.90	11.20	11.01		0
	50	0	11.08	**11.14**	10.99	0-1	0
	50	25	11.02	11.11	10.95		0
	50	50	11.07	11.10	10.94		0
	100	0	10.95	11.07	10.92		0
16QAM	1	0	10.97	11.31	10.92	0-1	0
	1	50	10.90	11.19	10.96		0
	1	99	10.99	11.11	10.87		0
	50	0	10.68	10.70	10.60	0-2	0
	50	25	10.55	10.66	10.62		0
	50	50	10.62	10.64	10.59		0
	100	0	10.51	10.62	10.55		0
64QAM	1	0	11.03	11.12	11.10	0-2	0
	1	50	10.92	11.09	11.28		0
	1	99	10.78	11.05	11.16		0
	50	0	10.71	10.74	10.78	0-3	0
	50	25	10.59	10.71	10.61		0
	50	50	10.56	10.66	10.77		0
	100	0	10.53	10.51	10.69		0

Table 8-130
LTE Band 66 Conducted Powers Ant 4 - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.26	10.91	10.98	0	0
	1	36	11.29	10.94	10.99		0
	1	74	11.15	10.96	11.17		0
	36	0	11.23	10.98	11.00	0-1	0
	36	18	11.22	11.01	10.98		0
	36	37	11.18	11.05	11.05		0
	75	0	11.11	10.98	10.79		0
16QAM	1	0	10.86	10.34	10.51	0-1	0
	1	36	10.75	10.38	10.59		0
	1	74	10.57	10.58	10.86		0
	36	0	10.68	10.43	10.55	0-2	0
	36	18	10.68	10.46	10.52		0
	36	37	10.60	10.56	10.65		0
	75	0	10.61	10.61	10.34		0
64QAM	1	0	10.92	10.81	10.58	0-2	0
	1	36	10.86	10.94	10.46		0
	1	74	10.60	10.87	10.48		0
	36	0	10.72	10.62	10.38	0-3	0
	36	18	10.70	10.63	10.37		0
	36	37	10.64	10.64	10.52		0
	75	0	10.58	10.58	10.32		0

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Table 8-131
LTE Band 66 Conducted Powers Ant 4 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.39	10.87	11.11	0	0
	1	25	11.34	10.84	11.10		0
	1	49	11.29	10.98	11.16		0
	25	0	11.26	10.92	10.97	0-1	0
	25	12	11.20	10.88	11.08		0
	25	25	11.17	10.93	11.19		0
	50	0	11.17	10.90	11.07		0
16QAM	1	0	11.07	10.41	10.54	0-1	0
	1	25	11.04	10.62	10.92		0
	1	49	11.21	10.60	10.76		0
	25	0	10.80	10.44	10.66	0-2	0
	25	12	10.75	10.42	10.75		0
	25	25	10.75	10.47	10.84		0
	50	0	10.74	10.44	10.65		0
64QAM	1	0	11.03	10.60	10.96	0-2	0
	1	25	11.02	10.74	11.12		0
	1	49	11.03	10.84	10.88		0
	25	0	10.60	10.62	10.43	0-3	0
	25	12	10.63	10.60	10.53		0
	25	25	10.64	10.63	10.62		0
	50	0	10.62	10.58	10.47		0

Table 8-132
LTE Band 66 Conducted Powers Ant 4 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.13	10.89	11.33	0	0
	1	12	11.14	10.80	11.36		0
	1	24	11.09	10.87	11.35		0
	12	0	10.99	10.75	11.07	0-1	0
	12	6	10.99	10.76	11.10		0
	12	13	10.94	10.78	11.10		0
	25	0	11.06	10.84	11.06		0
16QAM	1	0	10.84	10.47	10.96	0-1	0
	1	12	10.82	10.52	10.90		0
	1	24	10.69	10.71	10.88		0
	12	0	10.51	10.23	10.55	0-2	0
	12	6	10.51	10.29	10.54		0
	12	13	10.48	10.35	10.62		0
	25	0	10.48	10.28	10.57		0
64QAM	1	0	10.96	10.47	10.83	0-2	0
	1	12	10.97	10.50	10.86		0
	1	24	10.90	10.54	10.74		0
	12	0	10.54	10.28	10.51	0-3	0
	12	6	10.57	10.30	10.59		0
	12	13	10.50	10.32	10.52		0
	25	0	10.54	10.30	10.49		0

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Table 8-133
LTE Band 66 Conducted Powers Ant 4 - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.04	10.83	10.81	0	0
	1	7	11.08	10.86	10.92		0
	1	14	11.09	10.85	10.87		0
	8	0	10.92	10.76	10.88	0-1	0
	8	4	10.93	10.77	10.88		0
	8	7	10.94	10.79	10.92		0
	15	0	10.94	10.79	10.87		0
16QAM	1	0	10.73	10.45	10.65	0-1	0
	1	7	10.89	10.41	10.59		0
	1	14	10.82	10.35	10.37		0
	8	0	10.42	10.18	10.44	0-2	0
	8	4	10.36	10.23	10.45		0
	8	7	10.47	10.30	10.45		0
	15	0	10.30	10.20	10.35		0
64QAM	1	0	10.53	10.48	10.66	0-2	0
	1	7	10.70	10.35	10.82		0
	1	14	10.74	10.59	10.71		0
	8	0	10.30	10.17	10.51	0-3	0
	8	4	10.34	10.13	10.44		0
	8	7	10.39	10.15	10.45		0
	15	0	10.27	10.12	10.46		0

Table 8-134
LTE Band 66 Conducted Powers Ant 4 - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.85	10.93	11.10	0	0
	1	2	10.92	10.90	11.08		0
	1	5	10.94	10.93	11.11		0
	3	0	10.91	10.75	10.93		0
	3	2	10.89	10.77	10.92		0
	3	3	10.91	10.74	10.95		0
	6	0	10.86	10.69	10.89	0-1	0
16QAM	1	0	10.00	10.77	10.60	0-1	0
	1	2	10.71	10.60	10.87		0
	1	5	10.71	10.63	10.75		0
	3	0	10.72	10.27	10.61		0
	3	2	10.68	10.35	10.49		0
	3	3	10.65	10.31	10.55		0
	6	0	10.50	10.27	10.46	0-2	0
64QAM	1	0	10.90	10.37	10.91	0-2	0
	1	2	10.80	10.46	10.90		0
	1	5	10.86	10.40	10.80		0
	3	0	10.65	10.42	10.58		0
	3	2	10.67	10.46	10.56		0
	3	3	10.69	10.34	10.54		0
	6	0	10.44	10.15	10.39	0-3	0

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Table 8-135
LTE Band 66 Conducted Powers Ant 2A - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**15.17**	15.10	15.05	0	0
	1	50	14.93	14.86	15.11		0
	1	99	15.07	14.90	15.12		0
	50	0	**15.20**	15.04	15.07	0-1	0
	50	25	15.03	15.00	15.10		0
	50	50	15.06	15.05	15.11		0
	100	0	14.94	15.05	15.09		0
16QAM	1	0	15.06	14.95	14.95	0-1	0
	1	50	14.91	15.02	15.01		0
	1	99	15.04	15.04	15.13		0
	50	0	14.78	14.88	14.86	0-2	0
	50	25	14.74	14.84	14.88		0
	50	50	14.78	14.89	14.89		0
	100	0	14.72	14.82	14.86		0
64QAM	1	0	14.95	14.91	15.05	0-2	0
	1	50	14.82	15.07	15.10		0
	1	99	14.99	15.08	15.16		0
	50	0	14.79	14.87	14.87	0-3	0
	50	25	14.76	14.86	14.89		0
	50	50	14.79	14.90	14.90		0
	100	0	14.75	14.82	14.88		0

Table 8-136
LTE Band 66 Conducted Powers Ant 2A - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.02	15.02	14.80	0	0
	1	36	15.06	14.93	15.07		0
	1	74	15.04	14.92	14.94		0
	36	0	15.07	15.07	14.97	0-1	0
	36	18	15.00	15.00	15.12		0
	36	37	14.91	14.94	15.07		0
	75	0	14.94	14.95	15.04		0
16QAM	1	0	14.98	14.84	14.75	0-1	0
	1	36	14.84	14.71	14.99		0
	1	74	14.79	14.89	14.72		0
	36	0	14.90	14.84	14.81	0-2	0
	36	18	14.81	14.78	14.97		0
	36	37	14.71	14.74	14.91		0
	75	0	14.73	14.73	14.92		0
64QAM	1	0	14.88	14.84	14.94	0-2	0
	1	36	14.67	14.68	15.04		0
	1	74	14.75	14.79	15.03		0
	36	0	14.87	14.79	14.83	0-3	0
	36	18	14.79	14.72	14.99		0
	36	37	14.67	14.70	14.93		0
	75	0	14.72	14.70	14.91		0

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Table 8-137
LTE Band 66 Conducted Powers Ant 2A - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.94	15.00	14.96	0	0
	1	25	14.96	14.87	14.98		0
	1	49	14.80	14.83	15.00		0
	25	0	15.03	15.09	15.11	0-1	0
	25	12	15.02	14.98	15.11		0
	25	25	14.98	14.94	15.06		0
	50	0	15.02	14.97	15.10		0
16QAM	1	0	14.75	14.94	14.88	0-1	0
	1	25	14.86	14.76	14.77		0
	1	49	14.66	14.84	14.88		0
	25	0	14.83	14.82	14.91	0-2	0
	25	12	14.83	14.72	14.88		0
	25	25	14.76	14.70	14.75		0
	50	0	14.80	14.71	14.82		0
64QAM	1	0	14.85	15.07	15.27	0-2	0
	1	25	14.94	14.90	15.08		0
	1	49	14.78	15.02	15.10		0
	25	0	14.85	14.92	15.03	0-3	0
	25	12	14.86	14.82	14.98		0
	25	25	14.82	14.77	14.95		0
	50	0	14.88	14.88	14.97		0

Table 8-138
LTE Band 66 Conducted Powers Ant 2A - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.84	15.05	14.87	0	0
	1	12	14.82	14.98	14.76		0
	1	24	14.90	14.93	14.80		0
	12	0	14.79	14.87	14.95	0-1	0
	12	6	14.80	14.87	14.88		0
	12	13	14.85	14.82	14.86		0
	25	0	14.82	14.86	14.89		0
16QAM	1	0	14.84	14.88	14.68	0-1	0
	1	12	14.91	14.77	14.87		0
	1	24	14.98	14.84	14.86		0
	12	0	14.65	14.57	14.68	0-2	0
	12	6	14.59	14.57	14.70		0
	12	13	14.67	14.59	14.68		0
	25	0	14.59	14.53	14.68		0
64QAM	1	0	14.76	14.89	15.04	0-2	0
	1	12	14.77	14.98	14.86		0
	1	24	14.82	14.89	14.85		0
	12	0	14.54	14.64	14.71	0-3	0
	12	6	14.61	14.60	14.63		0
	12	13	14.65	14.56	14.65		0
	25	0	14.60	14.57	14.64		0

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Table 8-139
LTE Band 66 Conducted Powers Ant 2A - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.76	14.74	14.77	0	0
	1	7	14.77	14.76	14.79		0
	1	14	14.67	14.71	14.76		0
	8	0	14.72	14.66	14.84	0-1	0
	8	4	14.75	14.65	14.82		0
	8	7	14.72	14.67	14.87		0
	15	0	14.77	14.66	14.85		0
16QAM	1	0	14.67	14.62	14.66	0-1	0
	1	7	14.81	14.69	14.83		0
	1	14	14.71	14.55	14.70		0
	8	0	14.53	14.45	14.52	0-2	0
	8	4	14.59	14.49	14.52		0
	8	7	14.54	14.42	14.54		0
	15	0	14.54	14.41	14.56		0
64QAM	1	0	14.72	14.87	14.99	0-2	0
	1	7	14.88	14.60	15.10		0
	1	14	14.78	14.64	15.05		0
	8	0	14.50	14.44	14.57	0-3	0
	8	4	14.58	14.43	14.56		0
	8	7	14.55	14.46	14.59		0
	15	0	14.55	14.47	14.53		0

Table 8-140
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 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.83	14.94	15.10	0	0
	1	2	14.81	14.90	15.06		0
	1	5	14.82	14.92	15.07		0
	3	0	14.82	14.86	14.91		0
	3	2	14.78	14.85	14.92		0
	3	3	14.81	14.82	14.92		0
	6	0	14.77	14.81	14.88	0-1	0
16QAM	1	0	14.82	14.84	14.98	0-1	0
	1	2	14.67	14.88	14.89		0
	1	5	14.67	14.86	14.89		0
	3	0	14.68	14.68	14.72		0
	3	2	14.65	14.66	14.74		0
	3	3	14.72	14.50	14.68		0
	6	0	14.53	14.58	14.56	0-2	0
64QAM	1	0	14.82	14.79	14.83	0-2	0
	1	2	14.72	14.84	14.86		0
	1	5	14.84	14.85	14.95		0
	3	0	14.59	14.58	14.74		0
	3	2	14.60	14.61	14.61		0
	3	3	14.59	14.58	14.61		0
	6	0	14.60	14.54	14.58	0-3	0

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Table 8-141
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 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.96	12.12	11.90	0	0
	1	50	11.83	**12.19**	12.11		0
	1	99	11.89	11.99	12.02		0
	50	0	11.98	12.20	12.13	0-1	0
	50	25	12.01	**12.22**	12.19		0
	50	50	11.95	12.16	12.18		0
	100	0	11.98	12.18	12.15		0
16QAM	1	0	12.30	12.29	12.16	0-1	0
	1	50	12.28	12.24	12.30		0
	1	99	12.29	12.15	12.22		0
	50	0	11.67	11.72	11.72	0-2	0
	50	25	11.73	11.71	11.78		0
	50	50	11.65	11.68	11.76		0
	100	0	11.70	11.73	11.65		0
64QAM	1	0	12.18	12.19	12.10	0-2	0
	1	50	12.11	12.29	12.27		0
	1	99	11.88	12.20	12.11		0
	50	0	11.52	11.86	11.62	0-3	0
	50	25	11.54	11.80	11.71		0
	50	50	11.40	11.77	11.75		0
	100	0	11.49	11.76	11.65		0

Table 8-142
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 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.23	11.92	12.17	0	0
	1	36	12.15	12.21	12.14		0
	1	74	12.14	12.30	11.96		0
	36	0	12.06	12.04	12.20	0-1	0
	36	18	12.02	12.14	12.09		0
	36	37	12.04	12.11	12.05		0
	75	0	11.98	12.07	12.00		0
16QAM	1	0	11.79	12.26	12.24	0-1	0
	1	36	11.67	12.23	12.29		0
	1	74	11.79	11.95	12.03		0
	36	0	11.80	11.97	11.82	0-2	0
	36	18	11.75	11.97	11.96		0
	36	37	11.74	11.84	11.90		0
	75	0	11.72	11.88	11.89		0
64QAM	1	0	12.02	12.21	11.82	0-2	0
	1	36	11.80	11.99	12.08		0
	1	74	11.69	11.88	11.98		0
	36	0	11.79	11.96	11.89	0-3	0
	36	18	11.74	11.99	12.00		0
	36	37	11.74	11.84	11.93		0
	75	0	11.74	11.86	11.93		0

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Table 8-143
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 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.30	12.22	12.08	0	0
	1	25	12.16	12.13	12.01		0
	1	49	12.23	12.30	11.86		0
	25	0	12.09	12.05	11.95	0-1	0
	25	12	12.00	12.06	11.89		0
	25	25	11.97	12.01	11.83		0
	50	0	12.05	12.09	11.93		0
16QAM	1	0	11.74	11.86	12.23	0-1	0
	1	25	12.07	12.01	12.12		0
	1	49	11.74	11.95	12.14		0
	25	0	11.69	11.80	11.98	0-2	0
	25	12	11.62	11.85	11.95		0
	25	25	11.52	11.74	11.87		0
	50	0	11.59	11.78	11.93		0
64QAM	1	0	11.73	11.80	12.21	0-2	0
	1	25	11.72	11.83	12.14		0
	1	49	11.78	11.95	12.06		0
	25	0	11.60	11.85	12.02	0-3	0
	25	12	11.60	11.87	11.89		0
	25	25	11.55	11.83	11.88		0
	50	0	11.59	11.80	11.93		0

Table 8-144
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 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.08	11.94	12.27	0	0
	1	12	11.83	12.02	11.97		0
	1	24	12.12	11.99	12.12		0
	12	0	11.98	11.83	11.79	0-1	0
	12	6	11.94	11.75	11.73		0
	12	13	11.88	11.75	11.75		0
	25	0	11.89	11.78	11.68		0
16QAM	1	0	12.25	12.17	12.13	0-1	0
	1	12	11.90	12.05	12.06		0
	1	24	11.94	11.98	12.05		0
	12	0	11.70	11.73	11.79	0-2	0
	12	6	11.65	11.76	11.72		0
	12	13	11.62	11.71	11.69		0
	25	0	11.58	11.68	11.69		0
64QAM	1	0	11.99	12.04	12.21	0-2	0
	1	12	11.72	12.10	11.94		0
	1	24	11.58	11.91	12.00		0
	12	0	11.65	11.81	11.77	0-3	0
	12	6	11.64	11.72	11.68		0
	12	13	11.57	11.73	11.65		0
	25	0	11.61	11.66	11.71		0

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Table 8-145
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 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.01	12.08	11.82	0	0
	1	7	12.05	12.00	11.91		0
	1	14	11.93	12.03	11.97		0
	8	0	11.72	11.78	11.62	0-1	0
	8	4	11.70	11.79	11.62		0
	8	7	11.71	11.71	11.61		0
	15	0	11.68	11.71	11.60		0
16QAM	1	0	12.07	11.91	11.81	0-1	0
	1	7	11.98	11.69	12.04		0
	1	14	11.87	11.87	11.79		0
	8	0	11.53	11.60	11.44	0-2	0
	8	4	11.55	11.57	11.44		0
	8	7	11.51	11.62	11.45		0
	15	0	11.52	11.51	11.45		0
64QAM	1	0	11.91	11.94	11.75	0-2	0
	1	7	12.06	11.81	11.74		0
	1	14	11.83	11.85	11.65		0
	8	0	11.56	11.64	11.52	0-3	0
	8	4	11.58	11.52	11.46		0
	8	7	11.57	11.54	11.48		0
	15	0	11.50	11.45	11.44		0

Table 8-146
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 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.04	11.74	11.80	0	0
	1	2	12.04	11.92	11.80		0
	1	5	12.06	12.01	11.84		0
	3	0	11.96	11.85	11.78		0
	3	2	11.86	11.84	11.75		0
	3	3	11.91	11.90	11.73		0
	6	0	11.75	11.74	11.56	0-1	0
16QAM	1	0	11.92	11.95	11.88	0-1	0
	1	2	11.86	12.02	11.96		0
	1	5	11.93	12.13	11.87		0
	3	0	11.70	11.76	11.66		0
	3	2	11.66	11.65	11.70		0
	3	3	11.61	11.56	11.73		0
	6	0	11.50	11.48	11.57	0-2	0
64QAM	1	0	12.00	11.86	11.79	0-2	0
	1	2	11.95	11.94	12.00		0
	1	5	11.88	11.83	11.95		0
	3	0	11.69	11.74	11.87		0
	3	2	11.67	11.64	11.83		0
	3	3	11.58	11.67	11.81		0
	6	0	11.52	11.59	11.54	0-3	0

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Table 8-147
LTE Band 66 Conducted Powers Ant 1A - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.44	**14.80**	14.73	0	0
	1	50	14.65	14.64	14.50		0
	1	99	14.73	14.56	14.42		0
	50	0	14.70	14.69	14.57	0-1	0
	50	25	**14.78**	14.64	14.51		0
	50	50	14.72	14.66	14.39		0
	100	0	14.74	14.63	14.46		0
16QAM	1	0	14.54	14.57	14.46	0-1	0
	1	50	14.73	14.48	14.26		0
	1	99	14.80	14.32	14.30		0
	50	0	14.42	14.48	14.38	0-2	0
	50	25	14.53	14.43	14.26		0
	50	50	14.50	14.47	14.15		0
	100	0	14.47	14.45	14.23		0
64QAM	1	0	14.28	14.73	14.68	0-2	0
	1	50	14.50	14.60	14.50		0
	1	99	14.66	14.33	14.41		0
	50	0	14.44	14.46	14.31	0-3	0
	50	25	14.48	14.43	14.24		0
	50	50	14.49	14.45	14.12		0
	100	0	14.48	14.41	14.22		0

Table 8-148
LTE Band 66 Conducted Powers Ant 1A - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.55	14.55	14.51	0	0
	1	36	14.51	14.62	14.50		0
	1	74	14.43	14.62	14.50		0
	36	0	14.57	14.69	14.44	0-1	0
	36	18	14.61	14.67	14.45		0
	36	37	14.53	14.58	14.41		0
	75	0	14.58	14.69	14.44		0
16QAM	1	0	14.47	14.59	14.50	0-1	0
	1	36	14.60	14.61	14.49		0
	1	74	14.52	14.60	14.53		0
	36	0	14.47	14.26	14.34	0-2	0
	36	18	14.45	14.34	14.34		0
	36	37	14.43	14.41	14.25		0
	75	0	14.41	14.32	14.27		0
64QAM	1	0	14.52	14.65	14.31	0-2	0
	1	36	14.63	14.47	14.41		0
	1	74	14.60	14.52	14.35		0
	36	0	14.38	14.33	14.31	0-3	0
	36	18	14.44	14.37	14.30		0
	36	37	14.37	14.42	14.24		0
	75	0	14.38	14.31	14.20		0

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Table 8-149
LTE Band 66 Conducted Powers Ant 1A - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.40	14.57	14.36	0	0
	1	25	14.45	14.56	14.31		0
	1	49	14.47	14.59	14.39		0
	25	0	14.45	14.63	14.45	0-1	0
	25	12	14.54	14.66	14.42		0
	25	25	14.56	14.68	14.45		0
	50	0	14.54	14.51	14.43		0
16QAM	1	0	14.75	14.51	14.44	0-1	0
	1	25	14.70	14.77	14.37		0
	1	49	14.73	14.61	14.28		0
	25	0	14.62	14.40	14.20	0-2	0
	25	12	14.59	14.39	14.18		0
	25	25	14.70	14.40	14.23		0
	50	0	14.63	14.40	14.17		0
64QAM	1	0	14.41	14.41	14.31	0-2	0
	1	25	14.59	14.53	14.23		0
	1	49	14.51	14.68	14.29		0
	25	0	14.32	14.37	14.22	0-3	0
	25	12	14.42	14.35	14.21		0
	25	25	14.41	14.42	14.23		0
	50	0	14.39	14.36	14.19		0

Table 8-150
LTE Band 66 Conducted Powers Ant 1A - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.49	14.52	14.36	0	0
	1	12	14.51	14.53	14.24		0
	1	24	14.55	14.56	14.30		0
	12	0	14.58	14.63	14.48	0-1	0
	12	6	14.50	14.62	14.46		0
	12	13	14.52	14.62	14.48		0
	25	0	14.40	14.63	14.35		0
16QAM	1	0	14.55	14.52	14.43	0-1	0
	1	12	14.60	14.79	14.52		0
	1	24	14.65	14.62	14.58		0
	12	0	14.37	14.23	14.20	0-2	0
	12	6	14.35	14.37	14.24		0
	12	13	14.34	14.40	14.28		0
	25	0	14.37	14.39	14.25		0
64QAM	1	0	14.53	14.58	14.25	0-2	0
	1	12	14.64	14.38	14.31		0
	1	24	14.44	14.50	14.46		0
	12	0	14.39	14.36	14.27	0-3	0
	12	6	14.34	14.38	14.21		0
	12	13	14.30	14.32	14.16		0
	25	0	14.27	14.38	14.18		0

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Table 8-151
LTE Band 66 Conducted Powers Ant 1A - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.48	14.64	14.20	0	0
	1	7	14.42	14.66	14.15		0
	1	14	14.36	14.60	14.15		0
	8	0	14.36	14.53	14.19	0-1	0
	8	4	14.32	14.54	14.19		0
	8	7	14.30	14.55	14.28		0
	15	0	14.35	14.56	14.22		0
16QAM	1	0	14.45	14.73	14.55	0-1	0
	1	7	14.43	14.71	14.51		0
	1	14	14.60	14.53	14.47		0
	8	0	14.43	14.25	14.14	0-2	0
	8	4	14.36	14.29	14.14		0
	8	7	14.32	14.24	14.18		0
	15	0	14.33	14.24	14.10		0
64QAM	1	0	14.56	14.55	14.66	0-2	0
	1	7	14.59	14.62	14.54		0
	1	14	14.46	14.62	14.67		0
	8	0	14.29	14.20	14.17	0-3	0
	8	4	14.22	14.20	14.22		0
	8	7	14.26	14.26	14.23		0
	15	0	14.25	14.20	14.19		0

Table 8-152
LTE Band 66 Conducted Powers Ant 1A - 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.30	14.66	14.38	0	0
	1	2	14.29	14.64	14.35		0
	1	5	14.33	14.67	14.37		0
	3	0	14.35	14.53	14.26		0
	3	2	14.35	14.52	14.25		0
	3	3	14.35	14.49	14.25		0
	6	0	14.30	14.40	14.25	0-1	0
16QAM	1	0	14.36	14.60	14.44	0-1	0
	1	2	14.42	14.58	14.45		0
	1	5	14.39	14.54	14.48		0
	3	0	14.27	14.32	14.16		0
	3	2	14.26	14.34	14.18		0
	3	3	14.21	14.30	14.16		0
	6	0	14.23	14.30	14.20	0-2	0
64QAM	1	0	14.38	14.45	14.52	0-2	0
	1	2	14.31	14.47	14.45		0
	1	5	14.35	14.40	14.55		0
	3	0	14.31	14.37	14.34		0
	3	2	14.24	14.30	14.32		0
	3	3	14.26	14.29	14.27		0
	6	0	14.22	14.32	14.28	0-3	0

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Table 8-153
LTE Band 66 Conducted Powers Ant 1A - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.54	11.75	**11.80**	0	0
	1	50	11.57	11.67	11.64		0
	1	99	11.62	11.67	11.51		0
	50	0	11.66	11.79	11.77	0-1	0
	50	25	**11.80**	11.76	11.67		0
	50	50	11.65	11.75	11.57		0
	100	0	11.72	11.74	11.58		0
16QAM	1	0	11.75	11.77	11.63	0-1	0
	1	50	11.76	11.74	11.63		0
	1	99	11.80	11.76	11.45		0
	50	0	11.22	11.21	11.28	0-2	0
	50	25	11.33	11.19	11.13		0
	50	50	11.40	11.16	11.10		0
	100	0	11.27	11.08	11.12		0
64QAM	1	0	11.43	11.80	11.50	0-2	0
	1	50	11.67	11.77	11.42		0
	1	99	11.63	11.61	11.49		0
	50	0	11.41	11.47	11.32	0-3	0
	50	25	11.46	11.49	11.20		0
	50	50	11.57	11.38	11.12		0
	100	0	11.44	11.49	11.10		0

Table 8-154
LTE Band 66 Conducted Powers Ant 1A - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.36	11.43	11.54	0	0
	1	36	11.40	11.51	11.46		0
	1	74	11.51	11.40	11.40		0
	36	0	11.33	11.54	11.66	0-1	0
	36	18	11.37	11.57	11.63		0
	36	37	11.50	11.56	11.60		0
	75	0	11.51	11.57	11.57		0
16QAM	1	0	11.58	11.68	11.66	0-1	0
	1	36	11.78	11.76	11.71		0
	1	74	11.80	11.66	11.67		0
	36	0	11.25	11.28	11.34	0-2	0
	36	18	11.37	11.32	11.24		0
	36	37	11.27	11.32	11.21		0
	75	0	11.29	11.30	11.16		0
64QAM	1	0	11.52	11.68	11.51	0-2	0
	1	36	11.73	11.70	11.63		0
	1	74	11.70	11.57	11.40		0
	36	0	11.24	11.32	11.23	0-3	0
	36	18	11.28	11.34	11.30		0
	36	37	11.26	11.39	11.28		0
	75	0	11.27	11.31	11.11		0

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Table 8-155
LTE Band 66 Conducted Powers Ant 1A - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.45	11.51	11.47	0	0
	1	25	11.50	11.57	11.49		0
	1	49	11.61	11.55	11.54		0
	25	0	11.56	11.40	11.55	0-1	0
	25	12	11.59	11.45	11.58		0
	25	25	11.66	11.47	11.60		0
	50	0	11.62	11.46	11.56		0
16QAM	1	0	11.56	11.77	11.56	0-1	0
	1	25	11.55	11.71	11.40		0
	1	49	11.67	11.72	11.44		0
	25	0	11.14	11.35	11.15	0-2	0
	25	12	11.17	11.31	11.13		0
	25	25	11.23	11.33	11.16		0
	50	0	11.23	11.32	11.14		0
64QAM	1	0	11.52	11.75	11.68	0-2	0
	1	25	11.69	11.79	11.51		0
	1	49	11.68	11.78	11.39		0
	25	0	11.21	11.29	11.21	0-3	0
	25	12	11.27	11.39	11.17		0
	25	25	11.26	11.34	11.16		0
	50	0	11.24	11.35	11.11		0

Table 8-156
LTE Band 66 Conducted Powers Ant 1A - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.46	11.53	11.28	0	0
	1	12	11.43	11.64	11.21		0
	1	24	11.46	11.64	11.25		0
	12	0	11.46	11.68	11.06	0-1	0
	12	6	11.42	11.64	11.06		0
	12	13	11.46	11.65	11.00		0
	25	0	11.44	11.66	11.06		0
16QAM	1	0	11.69	11.76	11.52	0-1	0
	1	12	11.58	11.76	11.47		0
	1	24	11.67	11.71	11.29		0
	12	0	11.19	11.25	11.15	0-2	0
	12	6	11.18	11.24	11.18		0
	12	13	11.20	11.26	11.13		0
	25	0	11.15	11.26	11.09		0
64QAM	1	0	11.61	11.74	11.52	0-2	0
	1	12	11.74	11.78	11.44		0
	1	24	11.78	11.73	11.57		0
	12	0	11.29	11.24	11.20	0-3	0
	12	6	11.33	11.22	11.12		0
	12	13	11.35	11.22	11.10		0
	25	0	11.25	11.21	11.07		0

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Table 8-157
LTE Band 66 Conducted Powers Ant 1A - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.36	11.49	11.54	0	0
	1	7	11.40	11.53	11.55		0
	1	14	11.35	11.47	11.52		0
	8	0	11.36	11.50	11.42	0-1	0
	8	4	11.37	11.51	11.38		0
	8	7	11.39	11.50	11.49		0
	15	0	11.35	11.51	11.38		0
16QAM	1	0	11.58	11.78	11.56	0-1	0
	1	7	11.72	11.79	11.54		0
	1	14	11.80	11.75	11.46		0
	8	0	11.16	11.26	11.32	0-2	0
	8	4	11.16	11.22	11.33		0
	8	7	11.21	11.23	11.31		0
	15	0	11.12	11.22	11.24		0
64QAM	1	0	11.54	11.52	11.61	0-2	0
	1	7	11.77	11.62	11.72		0
	1	14	11.72	11.57	11.56		0
	8	0	11.06	11.13	11.18	0-3	0
	8	4	11.11	11.08	11.12		0
	8	7	11.09	11.11	11.10		0
	15	0	11.05	11.04	11.06		0

Table 8-158
LTE Band 66 Conducted Powers Ant 1A - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.42	11.55	11.59	0	0
	1	2	11.38	11.53	11.54		0
	1	5	11.40	11.56	11.55		0
	3	0	11.41	11.54	11.41		0
	3	2	11.37	11.56	11.31		0
	3	3	11.39	11.53	11.34		0
	6	0	11.36	11.54	11.40	0-1	0
16QAM	1	0	11.62	11.74	11.67	0-1	0
	1	2	11.62	11.79	11.65		0
	1	5	11.56	11.76	11.61		0
	3	0	11.47	11.48	11.42		0
	3	2	11.46	11.47	11.35		0
	3	3	11.48	11.34	11.44		0
	6	0	11.32	11.33	11.32	0-2	0
64QAM	1	0	11.72	11.52	11.67	0-2	0
	1	2	11.64	11.47	11.60		0
	1	5	11.65	11.49	11.66		0
	3	0	11.19	11.14	11.23		0
	3	2	11.22	11.25	11.24		0
	3	3	11.24	11.22	11.18		0
	6	0	11.15	11.10	11.08	0-3	0

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Table 8-159
LTE Band 66 Conducted Powers Ant 3A - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.56	**13.76**	13.54	0	0
	1	50	13.63	13.60	13.31		0
	1	99	13.72	13.58	13.36		0
	50	0	13.63	**13.75**	13.42	0-1	0
	50	25	13.70	13.66	13.28		0
	50	50	13.73	13.73	13.32		0
	100	0	13.70	13.64	13.27		0
16QAM	1	0	13.67	13.83	13.72	0-1	0
	1	50	13.77	13.70	13.48		0
	1	99	13.81	13.75	13.46		0
	50	0	13.40	13.54	13.20	0-2	0
	50	25	13.45	13.48	13.10		0
	50	50	13.51	13.55	13.14		0
	100	0	13.44	13.42	13.11		0
64QAM	1	0	13.55	13.76	13.62	0-2	0
	1	50	13.57	13.64	13.43		0
	1	99	13.62	13.58	13.44		0
	50	0	13.39	13.54	13.22	0-3	0
	50	25	13.44	13.44	13.13		0
	50	50	13.48	13.53	13.14		0
	100	0	13.45	13.41	13.08		0

Table 8-160
LTE Band 66 Conducted Powers Ant 3A - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.78	13.74	13.34	0	0
	1	36	13.84	13.55	13.49		0
	1	74	13.78	13.45	13.40		0
	36	0	13.77	13.72	13.45	0-1	0
	36	18	13.67	13.65	13.60		0
	36	37	13.59	13.58	13.56		0
	75	0	13.62	13.61	13.56		0
16QAM	1	0	13.68	13.64	13.45	0-1	0
	1	36	13.64	13.45	13.41		0
	1	74	13.58	13.51	13.26		0
	36	0	13.49	13.44	13.20	0-2	0
	36	0	13.37	13.38	13.35		0
	36	37	13.32	13.33	13.28		0
	75	0	13.31	13.35	13.30		0
64QAM	1	0	13.72	13.65	13.27	0-2	0
	1	36	13.49	13.50	13.43		0
	1	74	13.36	13.40	13.46		0
	36	0	13.59	13.49	13.29	0-3	0
	36	18	13.45	13.41	13.41		0
	36	37	13.34	13.35	13.33		0
	75	0	13.36	13.34	13.31		0

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Table 8-161
LTE Band 66 Conducted Powers Ant 3A - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.67	13.61	13.44	0	0
	1	25	13.68	13.49	13.43		0
	1	49	13.47	13.45	13.36		0
	25	0	13.66	13.60	13.53	0-1	0
	25	12	13.65	13.54	13.49		0
	25	25	13.58	13.51	13.46		0
	50	0	13.65	13.40	13.48		0
16QAM	1	0	13.71	13.65	13.60	0-1	0
	1	25	13.52	13.37	13.62		0
	1	49	13.49	13.51	13.63		0
	25	0	13.53	13.37	13.31	0-2	0
	25	12	13.56	13.22	13.30		0
	25	25	13.44	13.22	13.29		0
	50	0	13.48	13.21	13.28		0
64QAM	1	0	13.74	13.51	13.51	0-2	0
	1	25	13.64	13.39	13.34		0
	1	49	13.47	13.34	13.37		0
	25	0	13.50	13.37	13.41	0-3	0
	25	12	13.50	13.21	13.36		0
	25	25	13.40	13.22	13.37		0
	50	0	13.46	13.23	13.34		0

Table 8-162
LTE Band 66 Conducted Powers Ant 3A - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.56	13.71	13.37	0	0
	1	12	13.63	13.59	13.35		0
	1	24	13.73	13.61	13.34		0
	12	0	13.59	13.51	13.42	0-1	0
	12	6	13.59	13.44	13.41		0
	12	13	13.58	13.44	13.39		0
	25	0	13.53	13.46	13.41		0
16QAM	1	0	13.33	13.54	13.53	0-1	0
	1	12	13.40	13.49	13.39		0
	1	24	13.50	13.77	13.41		0
	12	0	13.31	13.28	13.19	0-2	0
	12	6	13.23	13.23	13.10		0
	12	13	13.28	13.16	13.10		0
	25	0	13.19	13.14	13.07		0
64QAM	1	0	13.72	13.32	13.24	0-2	0
	1	12	13.53	13.35	13.48		0
	1	24	13.42	13.29	13.48		0
	12	0	13.24	13.16	13.17	0-3	0
	12	6	13.26	13.16	13.08		0
	12	13	13.35	13.12	13.06		0
	25	0	13.18	13.13	13.03		0

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Table 8-163
LTE Band 66 Conducted Powers Ant 3A - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.34	13.49	13.24	0	0
	1	7	13.47	13.56	13.28		0
	1	14	13.39	13.48	13.18		0
	8	0	13.46	13.46	13.28	0-1	0
	8	4	13.47	13.42	13.23		0
	8	7	13.42	13.37	13.23		0
	15	0	13.40	13.39	13.29		0
16QAM	1	0	13.33	13.53	13.27	0-1	0
	1	7	13.44	13.55	13.40		0
	1	14	13.49	13.39	13.20		0
	8	0	13.22	13.17	12.94	0-2	0
	8	4	13.16	13.14	12.94		0
	8	7	13.20	13.09	12.90		0
	15	0	13.16	13.06	12.90		0
64QAM	1	0	13.49	13.41	13.25	0-2	0
	1	7	13.28	13.34	13.14		0
	1	14	13.47	13.37	13.13		0
	8	0	13.09	13.13	13.03	0-3	0
	8	4	13.14	13.13	13.02		0
	8	7	13.09	13.11	13.02		0
	15	0	13.16	13.11	12.91		0

Table 8-164
LTE Band 66 Conducted Powers Ant 3A - 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.33	13.45	13.31	0	0
	1	2	13.37	13.43	13.30		0
	1	5	13.38	13.44	13.27		0
	3	0	13.32	13.37	13.19		0
	3	2	13.37	13.34	13.18		0
	3	3	13.40	13.35	13.16		0
	6	0	13.35	13.32	13.18	0-1	0
16QAM	1	0	13.46	13.55	13.41	0-1	0
	1	2	13.50	13.54	13.30		0
	1	5	13.34	13.57	13.35		0
	3	0	13.23	13.27	13.04		0
	3	2	13.22	13.18	13.06		0
	3	3	13.24	13.15	13.00		0
	6	0	13.20	13.10	13.00	0-2	0
64QAM	1	0	13.35	13.47	13.49	0-2	0
	1	2	13.41	13.33	13.44		0
	1	5	13.43	13.45	13.41		0
	3	0	13.15	13.10	13.27		0
	3	2	13.23	13.11	13.18		0
	3	3	13.24	13.13	13.21		0
	6	0	13.16	13.06	13.05	0-3	3

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Table 8-165
LTE Band 66 Conducted Powers Ant 3A - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.84	10.87	10.79	0	0
	1	50	10.70	10.67	**10.90**		0
	1	99	10.76	10.70	10.70		0
	50	0	10.81	10.78	**10.96**	0-1	0
	50	25	10.78	10.68	10.92		0
	50	50	10.73	10.83	10.83		0
	100	0	10.79	10.66	10.88		0
16QAM	1	0	10.41	10.64	10.49	0-1	0
	1	50	10.11	10.72	10.57		0
	1	99	10.28	10.65	10.35		0
	50	0	10.21	10.40	10.45	0-2	0
	50	25	10.20	10.42	10.41		0
	50	50	10.17	10.48	10.29		0
	100	0	10.24	10.32	10.34		0
64QAM	1	0	10.37	10.50	10.77	0-2	0
	1	50	10.10	10.60	10.92		0
	1	99	10.25	10.48	10.78		0
	50	0	10.23	10.38	10.45	0-3	0
	50	25	10.20	10.37	10.40		0
	50	50	10.17	10.46	10.27		0
	100	0	10.23	10.32	10.37		0

Table 8-166
LTE Band 66 Conducted Powers Ant 3A - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132047 (1717.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132597 (1772.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.75	11.06	10.92	0	0
	1	36	10.67	10.93	10.94		0
	1	74	10.68	11.10	10.73		0
	36	0	10.83	10.78	11.04	0-1	0
	36	18	10.83	10.84	11.04		0
	36	37	10.86	10.96	10.91		0
	75	0	10.83	10.83	10.96		0
16QAM	1	0	10.62	10.75	10.63	0-1	0
	1	36	10.50	10.58	10.63		0
	1	74	10.52	10.60	10.55		0
	36	0	10.29	10.38	10.39	0-2	0
	36	18	10.30	10.31	10.44		0
	36	37	10.35	10.38	10.40		0
	75	0	10.31	10.30	10.39		0
64QAM	1	0	10.46	10.65	10.41	0-2	0
	1	36	10.36	10.40	10.58		0
	1	74	10.39	10.43	10.58		0
	36	0	10.31	10.36	10.44	0-3	0
	36	18	10.43	10.31	10.48		0
	36	37	10.45	10.36	10.42		0
	75	0	10.44	10.30	10.38		0

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Table 8-167
LTE Band 66 Conducted Powers Ant 3A - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132022 (1715.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132622 (1775.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.82	10.86	10.94	0	0
	1	25	10.65	10.78	10.78		0
	1	49	10.71	10.88	10.75		0
	25	0	10.89	10.84	10.89	0-1	0
	25	12	10.76	10.74	10.83		0
	25	25	10.76	10.93	10.84		0
	50	0	10.77	10.87	10.83		0
16QAM	1	0	10.41	10.65	10.82	0-1	0
	1	25	10.37	10.46	10.52		0
	1	49	10.39	10.42	10.58		0
	25	0	10.28	10.38	10.40	0-2	0
	25	12	10.13	10.28	10.39		0
	25	25	10.11	10.42	10.41		0
	50	0	10.11	10.35	10.40		0
64QAM	1	0	10.34	10.61	10.69	0-2	0
	1	25	10.03	10.32	10.43		0
	1	49	10.10	10.40	10.62		0
	25	0	10.23	10.40	10.44	0-3	0
	25	12	10.10	10.32	10.40		0
	25	25	10.06	10.45	10.47		0
	50	0	10.12	10.34	10.35		0

Table 8-168
LTE Band 66 Conducted Powers Ant 3A - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131997 (1712.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132647 (1777.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.08	10.75	10.64	0	0
	1	12	11.08	10.75	10.60		0
	1	24	11.04	10.87	10.63		0
	12	0	10.94	10.63	10.66	0-1	0
	12	6	10.94	10.60	10.69		0
	12	13	10.86	10.74	10.67		0
	25	0	10.91	10.73	10.68		0
16QAM	1	0	10.58	10.40	10.67	0-1	0
	1	12	10.47	10.45	10.67		0
	1	24	10.69	10.50	10.65		0
	12	0	10.29	10.11	10.29	0-2	0
	12	6	10.28	10.13	10.28		0
	12	13	10.23	10.18	10.26		0
	25	0	10.23	10.17	10.27		0
64QAM	1	0	10.32	10.48	10.68	0-2	0
	1	12	10.36	10.47	10.53		0
	1	24	10.22	10.51	10.71		0
	12	0	10.23	10.09	10.27	0-3	0
	12	6	10.16	10.10	10.26		0
	12	13	10.12	10.26	10.26		0
	25	0	10.16	10.18	10.22		0

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Table 8-169
LTE Band 66 Conducted Powers Ant 3A - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131987 (1711.5 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132657 (1778.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.79	10.57	10.54	0	0
	1	7	10.84	10.74	10.60		0
	1	14	10.82	10.68	10.59		0
	8	0	10.74	10.59	10.63	0-1	0
	8	4	10.76	10.70	10.62		0
	8	7	10.77	10.73	10.63		0
	15	0	10.74	10.73	10.61		0
16QAM	1	0	10.53	10.46	10.47	0-1	0
	1	7	10.51	10.67	10.46		0
	1	14	10.48	10.62	10.50		0
	8	0	10.22	10.24	10.07	0-2	0
	8	4	10.19	10.28	10.03		0
	8	7	10.17	10.27	10.08		0
	15	0	10.18	10.24	10.03		0
64QAM	1	0	10.54	10.49	10.25	0-2	0
	1	7	10.53	10.64	10.30		0
	1	14	10.38	10.42	10.28		0
	8	0	10.16	10.18	10.06	0-3	0
	8	4	10.17	10.23	10.11		0
	8	7	10.24	10.30	10.06		0
	15	0	10.16	10.23	10.04		0

Table 8-170
LTE Band 66 Conducted Powers Ant 3A - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 131979 (1710.7 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132665 (1779.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.86	10.59	10.86	0	0
	1	2	10.81	10.56	10.84		0
	1	5	10.85	10.69	10.93		0
	3	0	10.80	10.62	10.68		0
	3	2	10.76	10.73	10.66		0
	3	3	10.76	10.71	10.71		0
	6	0	10.78	10.69	10.60	0-1	0
16QAM	1	0	10.58	10.07	10.58	0-1	0
	1	2	10.56	10.29	10.56		0
	1	5	10.66	10.35	10.62		0
	3	0	10.36	10.11	10.29		0
	3	2	10.35	10.14	10.20		0
	3	3	10.34	10.14	10.38		0
	6	0	10.17	10.08	10.08	0-2	0
64QAM	1	0	10.50	10.35	10.60	0-2	0
	1	2	10.40	10.34	10.45		0
	1	5	10.46	10.39	10.46		0
	3	0	10.34	10.24	10.20		0
	3	2	10.38	10.32	10.16		0
	3	3	10.29	10.42	10.32		0
	6	0	10.15	10.02	10.09	0-3	0

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8.3.9 LTE Band 2

Table 8-171
LTE Band 2 Conducted Powers Ant 4 - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.86	15.80	15.67	0	0
	1	50	15.86	15.65	15.95		0
	1	99	15.87	15.78	**16.00**		0
	50	0	15.80	15.79	15.65	0-1	0
	50	25	15.81	15.66	15.90		0
	50	50	15.83	15.70	**15.99**		0
	100	0	15.82	15.67	15.97		0
16QAM	1	0	15.93	15.55	15.74	0-1	0
	1	50	15.75	15.64	15.98		0
	1	99	15.38	15.66	15.97		0
	50	0	15.61	15.38	15.77	0-2	0
	50	25	15.51	15.47	15.82		0
	50	50	15.35	15.40	15.76		0
	100	0	15.47	15.38	15.78		0
64QAM	1	0	15.89	15.61	15.77	0-2	0
	1	50	15.63	15.74	15.99		0
	1	99	15.48	15.82	15.96		0
	50	0	15.52	15.35	15.64	0-3	0
	50	25	15.45	15.44	15.85		0
	50	50	15.31	15.41	15.75		0
	100	0	15.43	15.42	15.79		0

Table 8-172
LTE Band 2 Conducted Powers Ant 4 - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.53	15.34	15.58	0	0
	1	36	15.40	15.34	15.70		0
	1	74	15.20	15.30	15.61		0
	36	0	15.51	15.22	15.76	0-1	0
	36	18	15.49	15.34	15.78		0
	36	37	15.42	15.32	15.71		0
	75	0	15.48	15.39	15.75		0
16QAM	1	0	15.72	15.49	15.75	0-1	0
	1	36	15.62	15.47	15.71		0
	1	74	15.51	15.43	15.69		0
	36	0	15.55	15.25	15.82	0-2	0
	36	18	15.56	15.38	15.82		0
	36	37	15.49	15.41	15.75		0
	75	0	15.53	15.42	15.79		0
64QAM	1	0	16.00	15.53	15.95	0-2	0
	1	36	15.75	15.45	15.92		0
	1	74	15.63	15.48	15.97		0
	36	0	15.58	15.26	15.83	0-3	0
	36	18	15.56	15.37	15.86		0
	36	37	15.49	15.39	15.79		0
	75	0	15.53	15.42	15.78		0

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Table 8-173
LTE Band 2 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.62	15.42	15.68	0	0
	1	25	15.38	15.46	15.54		0
	1	49	15.31	15.43	15.58		0
	25	0	15.63	15.30	15.71	0-1	0
	25	12	15.49	15.34	15.64		0
	25	25	15.47	15.37	15.65		0
	50	0	15.52	15.39	15.68		0
16QAM	1	0	15.88	15.62	15.80	0-1	0
	1	25	15.58	15.60	15.60		0
	1	49	15.57	15.65	15.83		0
	25	0	15.73	15.34	15.76	0-2	0
	25	12	15.57	15.35	15.70		0
	25	25	15.55	15.41	15.66		0
	50	0	15.52	15.41	15.71		0
64QAM	1	0	15.99	15.46	15.90	0-2	0
	1	25	15.69	15.61	15.66		0
	1	49	15.52	15.56	15.94		0
	25	0	15.72	15.34	15.76	0-3	0
	25	12	15.55	15.43	15.69		0
	25	25	15.55	15.46	15.69		0
	50	0	15.51	15.43	15.71		0

Table 8-174
LTE Band 2 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.54	15.29	15.79	0	0
	1	12	15.51	15.39	15.84		0
	1	24	15.44	15.40	15.86		0
	12	0	15.48	15.25	15.53	0-1	0
	12	6	15.47	15.26	15.58		0
	12	13	15.38	15.28	15.60		0
	25	0	15.45	15.32	15.60		0
16QAM	1	0	15.65	15.57	15.81	0-1	0
	1	12	15.63	15.44	15.92		0
	1	24	15.64	15.55	15.99		0
	12	0	15.41	15.28	15.58	0-2	0
	12	6	15.41	15.24	15.58		0
	12	13	15.41	15.33	15.62		0
	25	0	15.44	15.28	15.54		0
64QAM	1	0	15.76	15.68	15.86	0-2	0
	1	12	15.71	15.75	15.85		0
	1	24	15.51	15.66	15.88		0
	12	0	15.46	15.22	15.49	0-3	0
	12	6	15.37	15.24	15.55		0
	12	13	15.28	15.30	15.63		0
	25	0	15.40	15.32	15.55		0

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Table 8-175
LTE Band 2 Conducted Powers Ant 4 - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.44	15.29	15.58	0	0
	1	7	15.48	15.39	15.65		0
	1	14	15.42	15.29	15.49		0
	8	0	15.45	15.17	15.60	0-1	0
	8	4	15.44	15.21	15.59		0
	8	7	15.44	15.24	15.50		0
	15	0	15.47	15.24	15.60		0
16QAM	1	0	15.68	15.53	15.75	0-1	0
	1	7	15.73	15.72	15.98		0
	1	14	15.72	15.68	15.87		0
	8	0	15.51	15.17	15.56	0-2	0
	8	4	15.49	15.22	15.59		0
	8	7	15.47	15.25	15.48		0
	15	0	15.45	15.20	15.54		0
64QAM	1	0	15.83	15.50	15.99	0-2	0
	1	7	15.93	15.45	15.80		0
	1	14	15.77	15.44	15.77		0
	8	0	15.42	15.13	15.56	0-3	0
	8	4	15.42	15.20	15.59		0
	8	7	15.41	15.18	15.54		0
	15	0	15.42	15.20	15.58		0

Table 8-176
LTE Band 2 Conducted Powers Ant 4 - 1.4 MHz Bandwidth

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.42	15.34	15.79	0	0
	1	2	15.40	15.32	15.65		0
	1	5	15.40	15.42	15.69		0
	3	0	15.40	15.20	15.51		0
	3	2	15.40	15.28	15.50		0
	3	3	15.40	15.28	15.47		0
	6	0	15.36	15.22	15.44	0-1	0
16QAM	1	0	15.80	15.69	15.88	0-1	0
	1	2	15.67	15.72	15.74		0
	1	5	15.76	15.59	15.93		0
	3	0	15.45	15.33	15.65		0
	3	2	15.60	15.40	15.70		0
	3	3	15.49	15.37	15.70		0
	6	0	15.43	15.36	15.49	0-2	0
64QAM	1	0	15.66	15.57	15.98	0-2	0
	1	2	15.86	15.42	15.82		0
	1	5	15.62	15.51	15.94		0
	3	0	15.51	15.34	15.67		0
	3	2	15.50	15.40	15.74		0
	3	3	15.53	15.36	15.69		0
	6	0	15.33	15.26	15.54	0-3	0

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Table 8-177
LTE Band 2 Conducted Powers Ant 4 - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.65	12.42	12.40	0	0
	1	50	12.54	12.64	**12.66**		0
	1	99	12.44	12.40	12.50		0
	50	0	12.57	12.38	12.55	0-1	0
	50	25	12.50	12.66	**12.82**		0
	50	50	12.26	12.67	12.72		0
	100	0	12.44	12.62	12.65		0
16QAM	1	0	12.64	12.08	12.44	0-1	0
	1	50	12.59	12.32	12.85		0
	1	99	12.42	12.07	12.66		0
	50	0	12.34	12.09	12.32	0-2	0
	50	25	12.28	12.34	12.63		0
	50	50	12.08	12.33	12.49		0
	100	0	12.21	12.28	12.58		0
64QAM	1	0	12.61	12.67	12.34	0-2	0
	1	50	12.49	12.88	12.75		0
	1	99	12.41	12.72	12.55		0
	50	0	12.53	12.42	12.60	0-3	0
	50	25	12.43	12.69	12.83		0
	50	50	12.22	12.67	12.69		0
	100	0	12.49	12.64	12.65		0

Table 8-178
LTE Band 2 Conducted Powers Ant 4 - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.68	12.47	12.46	0	0
	1	36	12.72	12.70	12.80		0
	1	74	12.40	12.56	12.51		0
	36	0	12.66	12.61	12.91	0-1	0
	36	18	12.65	12.70	12.88		0
	36	37	12.60	12.71	12.77		0
	75	0	12.60	12.75	12.85		0
16QAM	1	0	12.60	12.22	12.46	0-1	0
	1	36	12.58	12.50	12.74		0
	1	74	12.30	12.48	12.50		0
	36	0	12.47	12.35	12.63	0-2	0
	36	18	12.47	12.44	12.61		0
	36	37	12.38	12.41	12.52		0
	75	0	12.41	12.41	12.60		0
64QAM	1	0	12.63	12.20	12.45	0-2	0
	1	36	12.82	12.39	12.80		0
	1	74	12.39	12.45	12.49		0
	36	0	12.47	12.35	12.59	0-3	0
	36	18	12.48	12.44	12.61		0
	36	37	12.41	12.42	12.52		0
	75	0	12.42	12.41	12.61		0

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Table 8-179
LTE Band 2 Conducted Powers Ant 4 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.76	12.47	12.65	0	0
	1	25	12.79	12.62	12.71		0
	1	49	12.80	12.61	12.59		0
	25	0	12.71	12.55	12.82	0-1	0
	25	12	12.72	12.57	12.78		0
	25	25	12.68	12.69	12.75		0
	50	0	12.68	12.67	12.77		0
16QAM	1	0	12.77	12.33	12.70	0-1	0
	1	25	12.66	12.53	12.58		0
	1	49	12.84	12.55	12.56		0
	25	0	12.53	12.41	12.61	0-2	0
	25	12	12.53	12.46	12.51		0
	25	25	12.50	12.51	12.46		0
	50	0	12.44	12.49	12.54		0
64QAM	1	0	12.61	12.65	12.70	0-2	0
	1	25	12.64	12.62	12.67		0
	1	49	12.69	12.69	12.58		0
	25	0	12.59	12.42	12.59	0-3	0
	25	12	12.57	12.45	12.52		0
	25	25	12.55	12.52	12.43		0
	50	0	12.44	12.46	12.52		0

Table 8-180
LTE Band 2 Conducted Powers Ant 4 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.73	12.47	12.89	0	0
	1	12	12.68	12.60	12.87		0
	1	24	12.75	12.64	12.72		0
	12	0	12.55	12.45	12.68	0-1	0
	12	6	12.57	12.46	12.68		0
	12	13	12.57	12.57	12.55		0
	25	0	12.59	12.57	12.66		0
16QAM	1	0	12.58	12.51	12.82	0-1	0
	1	12	12.53	12.55	12.54		0
	1	24	12.71	12.43	12.44		0
	12	0	12.29	12.24	12.42	0-2	0
	12	6	12.34	12.21	12.30		0
	12	13	12.28	12.23	12.16		0
	25	0	12.29	12.24	12.33		0
64QAM	1	0	12.73	12.43	12.72	0-2	0
	1	12	12.71	12.57	12.61		0
	1	24	12.80	12.51	12.64		0
	12	0	12.32	12.26	12.41	0-3	0
	12	6	12.31	12.20	12.33		0
	12	13	12.26	12.28	12.26		0
	25	0	12.33	12.24	12.23		0

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Table 8-181
LTE Band 2 Conducted Powers Ant 4 - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.73	12.38	12.57	0	0
	1	7	12.73	12.52	12.43		0
	1	14	12.69	12.48	12.33		0
	8	0	12.56	12.37	12.58	0-1	0
	8	4	12.54	12.45	12.43		0
	8	7	12.55	12.45	12.41		0
	15	0	12.54	12.48	12.45		0
16QAM	1	0	12.59	12.26	12.26	0-1	0
	1	7	12.59	12.41	12.19		0
	1	14	12.56	12.39	12.21		0
	8	0	12.12	12.18	12.13	0-2	0
	8	4	12.16	12.22	12.07		0
	8	7	12.14	12.22	12.04		0
	15	0	12.08	12.17	12.04		0
64QAM	1	0	12.33	12.30	12.42	0-2	0
	1	7	12.40	12.75	12.36		0
	1	14	12.40	12.52	12.27		0
	8	0	12.06	12.09	12.23	0-3	0
	8	4	12.09	12.14	12.05		0
	8	7	12.12	12.14	12.08		0
	15	0	12.10	12.16	12.08		0

Table 8-182
LTE Band 2 Conducted Powers Ant 4 - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.77	12.41	12.50	0	0
	1	2	12.73	12.38	12.47		0
	1	5	12.78	12.48	12.50		0
	3	0	12.61	12.37	12.33		0
	3	2	12.51	12.44	12.33		0
	3	3	12.49	12.44	12.35		0
	6	0	12.50	12.41	12.28	0-1	0
16QAM	1	0	12.49	12.44	12.61	0-1	0
	1	2	12.50	12.47	12.61		0
	1	5	12.61	12.39	12.38		0
	3	0	12.42	12.34	12.15		0
	3	2	12.39	12.33	12.25		0
	3	3	12.36	12.32	12.27		0
	6	0	12.24	12.22	12.19	0-2	0
64QAM	1	0	12.68	12.36	12.40	0-2	0
	1	2	12.61	12.53	12.43		0
	1	5	12.46	12.64	12.40		0
	3	0	12.44	12.32	12.17		0
	3	2	12.37	12.28	12.30		0
	3	3	12.32	12.36	12.16		0
	6	0	12.16	12.17	12.11	0-3	0

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Table 8-183
LTE Band 2 Conducted Powers Ant 2A - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**14.39**	13.98	14.22	0	0
	1	50	13.99	13.97	14.29		0
	1	99	14.09	13.99	14.34		0
	50	0	14.15	14.06	14.21	0-1	0
	50	25	13.99	14.07	**14.34**		0
	50	50	13.98	14.01	14.24		0
	100	0	13.99	14.05	14.33		0
16QAM	1	0	14.36	14.26	14.40	0-1	0
	1	50	14.17	14.24	14.33		0
	1	99	14.23	14.32	14.30		0
	50	0	14.10	14.08	14.23	0-2	0
	50	25	14.04	14.11	14.31		0
	50	50	14.09	14.04	14.25		0
	100	0	13.97	14.07	14.32		0
64QAM	1	0	14.36	14.29	14.36	0-2	0
	1	50	14.14	14.33	14.38		0
	1	99	14.25	14.25	14.37		0
	50	0	14.16	14.11	14.22	0-3	0
	50	25	14.04	14.19	14.28		0
	50	50	14.12	14.12	14.25		0
	100	0	13.99	14.13	14.32		0

Table 8-184
LTE Band 2 Conducted Powers Ant 2A - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.19	13.94	14.10	0	0
	1	36	14.28	14.01	14.14		0
	1	74	13.98	13.90	13.87		0
	36	0	14.00	14.06	14.29	0-1	0
	36	18	14.13	14.08	14.25		0
	36	37	13.94	14.10	14.10		0
	75	0	14.06	14.11	14.22		0
16QAM	1	0	14.35	14.08	14.14	0-1	0
	1	36	14.39	14.05	14.20		0
	1	74	14.17	14.12	14.09		0
	36	0	14.17	14.06	14.30	0-2	0
	36	18	14.31	14.08	14.27		0
	36	37	14.10	14.11	14.16		0
	75	0	14.24	14.13	14.24		0
64QAM	1	0	14.26	14.07	14.34	0-2	0
	1	36	14.37	14.06	14.38		0
	1	74	14.14	13.98	14.29		0
	36	0	14.10	14.08	14.30	0-3	0
	36	18	14.26	14.08	14.26		0
	36	37	14.00	14.09	14.16		0
	75	0	14.16	14.14	14.22		0

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Table 8-185
LTE Band 2 Conducted Powers Ant 2A - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.04	13.96	14.21	0	0
	1	25	13.91	14.05	14.02		0
	1	49	13.99	14.11	13.92		0
	25	0	14.08	14.06	14.25	0-1	0
	25	12	13.98	14.08	14.13		0
	25	25	14.11	14.12	14.13		0
	50	0	14.01	14.15	14.15		0
16QAM	1	0	14.33	14.03	14.29	0-1	0
	1	25	14.15	14.07	14.18		0
	1	49	14.19	14.19	14.08		0
	25	0	14.18	14.09	14.22	0-2	0
	25	12	14.13	14.09	14.16		0
	25	25	14.23	14.12	14.16		0
	50	0	14.15	14.17	14.20		0
64QAM	1	0	14.30	14.26	14.37	0-2	0
	1	25	14.24	14.22	14.28		0
	1	49	14.29	14.39	14.21		0
	25	0	14.23	14.12	14.14	0-3	0
	25	12	14.15	14.14	14.07		0
	25	25	14.28	14.21	14.11		0
	50	0	14.20	14.23	14.09		0

Table 8-186
LTE Band 2 Conducted Powers Ant 2A - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.07	14.01	13.85	0	0
	1	12	14.02	14.04	13.91		0
	1	24	13.96	14.04	13.87		0
	12	0	13.98	13.91	13.96	0-1	0
	12	6	13.96	13.87	13.97		0
	12	13	13.88	13.93	13.92		0
	25	0	13.97	13.96	13.98		0
16QAM	1	0	14.20	14.16	14.09	0-1	0
	1	12	14.21	14.09	14.16		0
	1	24	14.21	14.06	14.05		0
	12	0	13.94	13.98	13.89	0-2	0
	12	6	13.92	13.87	13.86		0
	12	13	13.93	13.84	13.87		0
	25	0	14.02	13.95	13.88		0
64QAM	1	0	14.16	14.21	14.34	0-2	0
	1	12	14.21	14.14	14.20		0
	1	24	14.22	14.34	14.24		0
	12	0	14.03	13.94	13.99	0-3	0
	12	6	13.94	13.95	14.02		0
	12	13	13.97	14.02	13.98		0
	25	0	13.94	14.04	13.98		0

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Table 8-187
LTE Band 2 Conducted Powers Ant 2A - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.85	13.95	13.80	0	0
	1	7	13.89	14.06	13.78		0
	1	14	13.84	13.98	13.72		0
	8	0	13.84	13.85	13.88	0-1	0
	8	4	13.83	13.89	13.80		0
	8	7	13.83	13.88	13.80		0
	15	0	13.87	13.91	13.86		0
16QAM	1	0	14.11	13.80	13.96	0-1	0
	1	7	14.25	14.13	14.07		0
	1	14	14.14	13.97	14.07		0
	8	0	13.97	13.82	13.80	0-2	0
	8	4	13.94	13.90	13.78		0
	8	7	13.93	13.92	13.75		0
	15	0	13.92	13.89	13.82		0
64QAM	1	0	14.08	14.23	14.32	0-2	0
	1	7	14.10	14.34	14.34		0
	1	14	14.17	14.00	14.13		0
	8	0	13.81	13.86	13.93	0-3	0
	8	4	13.85	13.83	13.90		0
	8	7	13.88	13.88	13.86		0
	15	0	13.80	13.85	13.85		0

Table 8-188
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 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.03	14.00	14.08	0	0
	1	2	14.01	13.93	14.01		0
	1	5	14.02	14.04	14.05		0
	3	0	13.99	13.81	13.83		0
	3	2	13.98	13.94	13.82		0
	3	3	13.95	13.91	13.82		0
	6	0	13.97	13.82	13.77	0-1	0
16QAM	1	0	14.21	14.09	14.32	0-1	0
	1	2	14.11	14.09	14.33		0
	1	5	14.15	14.25	14.14		0
	3	0	14.10	13.95	13.97		0
	3	2	14.00	14.06	13.96		0
	3	3	14.08	13.93	13.95		0
	6	0	13.97	13.93	13.82	0-2	0
64QAM	1	0	14.13	14.08	14.15	0-2	0
	1	2	14.20	14.00	14.20		0
	1	5	14.19	14.02	14.08		0
	3	0	14.03	13.86	13.85		0
	3	2	14.00	13.92	13.89		0
	3	3	13.92	13.91	13.93		0
	6	0	13.92	13.80	13.77	0-3	0

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Table 8-189
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 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.22	10.85	11.05	0	0
	1	50	10.93	11.17	**11.35**		0
	1	99	10.92	11.10	11.18		0
	50	0	11.17	10.97	11.27	0-1	0
	50	25	10.97	11.25	11.34		0
	50	50	10.89	11.22	**11.37**		0
	100	0	10.94	11.19	11.32		0
16QAM	1	0	11.28	10.97	10.80	0-1	0
	1	50	11.11	10.95	10.88		0
	1	99	11.12	10.64	10.67		0
	50	0	10.92	10.76	10.95	0-2	0
	50	25	10.82	10.85	10.91		0
	50	50	10.76	10.84	10.79		0
	100	0	10.73	10.85	10.89		0
64QAM	1	0	11.02	11.09	10.87	0-2	0
	1	50	10.79	11.10	11.03		0
	1	99	11.03	10.91	10.62		0
	50	0	10.93	10.72	10.93	0-3	0
	50	25	10.80	10.88	10.87		0
	50	50	10.72	10.85	10.81		0
	100	0	10.74	10.89	10.90		0

Table 8-190
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 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.31	11.23	11.19	0	0
	1	36	11.25	11.40	11.20		0
	1	74	10.84	11.27	11.05		0
	36	0	11.32	11.25	11.38	0-1	0
	36	18	11.17	11.33	11.30		0
	36	37	11.03	11.38	11.28		0
	75	0	11.12	11.34	11.31		0
16QAM	1	0	11.07	11.06	11.06	0-1	0
	1	36	11.06	11.33	11.26		0
	1	74	10.77	11.09	11.00		0
	36	0	10.84	10.92	11.03	0-2	0
	36	18	10.74	10.97	10.95		0
	36	37	10.59	11.01	10.87		0
	75	0	10.68	10.96	10.91		0
64QAM	1	0	11.13	11.04	11.07	0-2	0
	1	36	10.95	11.27	11.18		0
	1	74	10.70	10.89	10.88		0
	36	0	10.86	10.95	11.04	0-3	0
	36	18	10.78	11.00	11.01		0
	36	37	10.61	11.02	10.93		0
	75	0	10.67	10.95	10.91		0

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Table 8-191
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 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.20	11.12	11.31	0	0
	1	25	11.28	11.19	11.34		0
	1	49	11.22	11.19	11.24		0
	25	0	11.37	11.23	11.30	0-1	0
	25	12	11.40	11.24	11.36		0
	25	25	11.34	11.31	11.32		0
	50	0	11.37	11.30	11.32		0
16QAM	1	0	11.23	10.90	11.23	0-1	0
	1	25	11.20	10.93	11.29		0
	1	49	11.40	11.03	11.14		0
	25	0	10.97	10.80	10.99	0-2	0
	25	12	10.96	10.81	11.01		0
	25	25	10.92	10.87	10.97		0
	50	0	10.91	10.82	10.97		0
64QAM	1	0	11.16	10.88	11.13	0-2	0
	1	25	11.20	10.88	11.20		0
	1	49	11.30	10.90	11.07		0
	25	0	10.96	10.85	11.00	0-3	0
	25	12	10.92	10.86	11.06		0
	25	25	10.90	10.90	10.91		0
	50	0	10.92	10.85	10.96		0

Table 8-192
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 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.40	11.26	11.14	0	0
	1	12	11.37	11.35	10.96		0
	1	24	11.38	11.36	10.97		0
	12	0	11.36	11.30	11.15	0-1	0
	12	6	11.32	11.28	11.09		0
	12	13	11.33	11.37	11.02		0
	25	0	11.34	11.38	11.12		0
16QAM	1	0	11.32	10.96	11.11	0-1	0
	1	12	11.25	10.98	11.03		0
	1	24	11.10	11.13	11.08		0
	12	0	10.90	10.67	10.83	0-2	0
	12	6	10.92	10.66	10.72		0
	12	13	10.94	10.69	10.60		0
	25	0	10.88	10.72	10.69		0
64QAM	1	0	11.05	11.03	10.98	0-2	0
	1	12	11.13	11.01	11.11		0
	1	24	11.15	10.99	11.05		0
	12	0	10.89	10.64	10.77	0-3	0
	12	6	10.87	10.64	10.67		0
	12	13	10.93	10.82	10.60		0
	25	0	10.88	10.72	10.68		0

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Table 8-193
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 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.24	10.95	10.93	0	0
	1	7	11.30	11.13	10.95		0
	1	14	11.20	11.05	10.87		0
	8	0	11.19	11.03	11.02	0-1	0
	8	4	11.21	11.14	10.96		0
	8	7	11.09	11.14	10.95		0
	15	0	11.20	11.14	10.98		0
16QAM	1	0	11.18	10.79	10.84	0-1	0
	1	7	11.26	10.93	10.89		0
	1	14	11.10	10.80	10.82		0
	8	0	10.70	10.57	10.46	0-2	0
	8	4	10.70	10.59	10.40		0
	8	7	10.69	10.65	10.36		0
	15	0	10.68	10.56	10.32		0
64QAM	1	0	10.96	10.62	10.67	0-2	0
	1	7	11.14	11.03	10.64		0
	1	14	11.17	10.67	10.68		0
	8	0	10.68	10.58	10.50	0-3	0
	8	4	10.73	10.61	10.41		0
	8	7	10.74	10.54	10.37		0
	15	0	10.66	10.54	10.33		0

Table 8-194
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 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.37	11.06	11.19	0	0
	1	2	11.31	11.04	11.17		0
	1	5	11.36	11.20	11.21		0
	3	0	11.34	11.09	11.00		0
	3	2	11.31	11.19	11.01		0
	3	3	11.31	11.23	11.07		0
	6	0	11.25	11.19	10.98	0-1	0
16QAM	1	0	10.58	10.66	10.90	0-1	0
	1	2	10.94	10.83	10.79		0
	1	5	11.01	10.86	10.85		0
	3	0	10.66	10.56	10.48		0
	3	2	10.57	10.72	10.54		0
	3	3	10.64	10.74	10.75		0
	6	0	10.58	10.63	10.34	0-2	0
64QAM	1	0	10.84	10.88	10.71	0-2	0
	1	2	11.19	10.76	10.84		0
	1	5	10.92	10.93	10.94		0
	3	0	10.83	10.82	10.41		0
	3	2	10.83	10.89	10.53		0
	3	3	10.87	10.85	10.70		0
	6	0	10.57	10.60	10.60	0-3	0

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Table 8-195
LTE Band 2 Conducted Powers Ant 1A - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.00	14.12	14.24	0	0
	1	50	13.76	14.20	**14.50**		0
	1	99	13.89	14.22	14.20		0
	50	0	13.95	14.15	14.30	0-1	0
	50	25	13.86	14.05	**14.41**		0
	50	50	13.95	14.03	14.20		0
	100	0	13.84	14.05	14.40		0
16QAM	1	0	14.48	14.09	14.20	0-1	0
	1	50	14.10	14.22	14.56		0
	1	99	14.34	14.23	14.36		0
	50	0	14.00	14.11	14.33	0-2	0
	50	25	13.92	14.14	14.50		0
	50	50	13.99	14.11	14.37		0
	100	0	13.89	14.06	14.50		0
64QAM	1	0	14.24	14.47	14.21	0-2	0
	1	50	13.97	14.45	14.51		0
	1	99	14.21	14.52	14.37		0
	50	0	13.95	14.14	14.40	0-3	0
	50	25	13.91	14.12	14.48		0
	50	50	14.02	14.11	14.30		0
	100	0	13.90	14.12	14.50		0

Table 8-196
LTE Band 2 Conducted Powers Ant 1A - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.40	14.36	14.53	0	0
	1	36	14.20	14.38	14.49		0
	1	74	14.26	14.53	14.47		0
	36	0	14.38	14.39	14.54	0-1	0
	36	18	14.27	14.43	14.56		0
	36	37	14.28	14.45	14.53		0
	75	0	14.29	14.53	14.59		0
16QAM	1	0	14.03	13.78	14.31	0-1	0
	1	36	13.95	13.98	14.28		0
	1	74	14.13	14.06	14.58		0
	36	0	13.81	13.65	14.07	0-2	0
	36	18	13.70	13.65	14.11		0
	36	37	13.67	13.81	14.08		0
	75	0	13.71	13.76	14.13		0
64QAM	1	0	14.02	14.25	13.99	0-2	0
	1	36	13.83	13.86	14.16		0
	1	74	13.99	14.30	14.15		0
	36	0	13.69	13.83	13.95	0-3	0
	36	18	13.69	13.90	14.26		0
	36	37	13.75	13.69	13.96		0
	75	0	13.68	13.90	14.28		0

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Table 8-197
LTE Band 2 Conducted Powers Ant 1A - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.42	14.36	14.53	0	0
	1	25	14.25	14.38	14.49		0
	1	49	14.26	14.53	14.47		0
	25	0	14.38	14.39	14.54	0-1	0
	25	12	14.27	14.43	14.56		0
	25	25	14.28	14.45	14.53		0
	50	0	14.28	14.53	14.59		0
16QAM	1	0	14.03	13.78	14.31	0-1	0
	1	25	13.95	13.98	14.28		0
	1	49	14.13	14.06	14.58		0
	25	0	13.81	13.65	14.07	0-2	0
	25	12	13.70	13.65	14.11		0
	25	25	13.67	13.81	14.08		0
	50	0	13.71	13.76	14.13		0
64QAM	1	0	14.02	14.25	13.99	0-2	0
	1	25	13.83	13.86	14.16		0
	1	49	13.99	14.30	14.15		0
	25	0	13.69	13.83	13.95	0-3	0
	25	12	13.69	13.90	14.26		0
	25	25	13.75	13.69	13.96		0
	50	0	13.68	13.90	14.28		0

Table 8-198
LTE Band 2 Conducted Powers Ant 1A - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.40	14.37	14.53	0	0
	1	12	14.20	14.46	14.41		0
	1	24	14.30	14.56	14.45		0
	12	0	14.36	14.26	14.47	0-1	0
	12	6	14.33	14.23	14.43		0
	12	13	14.21	14.28	14.38		0
	25	0	14.32	14.29	14.39		0
16QAM	1	0	14.44	14.05	14.17	0-1	0
	1	12	14.19	14.00	14.12		0
	1	24	14.23	14.26	14.14		0
	12	0	13.87	13.73	13.87	0-2	0
	12	6	13.89	13.74	13.81		0
	12	13	13.77	13.80	13.77		0
	25	0	13.88	13.71	13.83		0
64QAM	1	0	13.91	14.14	13.88	0-2	0
	1	12	13.83	13.86	14.16		0
	1	24	13.88	14.19	14.04		0
	12	0	13.69	13.73	13.95	0-3	0
	12	6	13.68	13.79	14.15		0
	12	13	13.75	13.69	13.96		0
	25	0	13.77	13.79	14.17		0

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Table 8-199
LTE Band 2 Conducted Powers Ant 1A - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.40	14.30	14.31	0	0
	1	7	14.23	14.39	14.33		0
	1	14	14.35	14.41	14.31		0
	8	0	14.40	14.19	14.40	0-1	0
	8	4	14.27	14.27	14.35		0
	8	7	14.34	14.25	14.39		0
	15	0	14.32	14.27	14.37		0
16QAM	1	0	14.45	14.33	14.58	0-1	0
	1	7	14.56	14.38	14.56		0
	1	14	14.11	14.53	14.46		0
	8	0	14.05	13.85	14.09	0-2	0
	8	4	14.11	14.01	14.13		0
	8	7	14.07	13.94	14.08		0
	15	0	14.01	13.91	14.07		0
64QAM	1	0	13.80	14.03	13.77	0-2	0
	1	7	14.07	13.88	14.00		0
	1	14	13.77	14.08	13.93		0
	8	0	13.75	13.61	13.75	0-3	0
	8	4	13.74	13.68	14.04		0
	8	7	13.65	13.68	13.65		0
	15	0	13.64	13.68	14.06		0

Table 8-200
LTE Band 2 Conducted Powers Ant 1A - 1.4 MHz Bandwidth

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.47	14.26	14.58	0	0
	1	2	14.24	14.23	14.56		0
	1	5	14.36	14.32	14.60		0
	3	0	14.35	14.15	14.38		0
	3	2	14.34	14.18	14.38		0
	3	3	14.44	14.24	14.42		0
	6	0	14.32	14.17	14.34	0-1	0
16QAM	1	0	14.40	14.18	14.25	0-1	0
	1	2	14.27	14.38	14.46		0
	1	5	14.41	14.40	14.36		0
	3	0	14.32	14.00	14.23		0
	3	2	14.19	14.08	14.23		0
	3	3	14.21	14.12	14.15		0
	6	0	14.15	13.90	14.08	0-2	0
64QAM	1	0	13.69	13.92	13.66	0-2	0
	1	2	14.44	14.26	14.44		0
	1	5	13.66	13.97	13.82		0
	3	0	13.93	13.73	13.97		0
	3	2	13.63	13.67	13.93		0
	3	3	13.95	13.82	13.96		0
	6	0	13.75	13.75	13.95	0-3	0

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Table 8-201
LTE Band 2 Conducted Powers Ant 1A - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.16	11.08	10.92	0	0
	1	50	10.86	11.15	**11.33**		0
	1	99	10.92	11.05	11.24		0
	50	0	11.11	11.11	11.23	0-1	0
	50	25	10.93	11.10	**11.45**		0
	50	50	11.04	10.92	11.37		0
	100	0	10.88	11.01	11.32		0
16QAM	1	0	11.14	11.08	11.14	0-1	0
	1	50	11.00	11.10	11.40		0
	1	99	11.04	10.96	11.50		0
	50	0	10.99	10.80	10.86	0-2	0
	50	25	10.94	10.85	10.99		0
	50	50	10.90	10.94	10.97		0
	100	0	10.89	10.87	11.00		0
64QAM	1	0	10.84	10.76	11.15	0-2	0
	1	50	10.79	10.78	11.25		0
	1	99	10.72	11.00	11.26		0
	50	0	10.73	10.72	10.74	0-3	0
	50	25	10.71	10.77	10.91		0
	50	50	10.64	10.82	11.01		0
	100	0	10.60	10.80	10.90		0

Table 8-202
LTE Band 2 Conducted Powers Ant 1A - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.33	10.95	11.02	0	0
	1	36	11.22	10.88	11.23		0
	1	74	11.26	10.91	11.33		0
	36	0	11.11	11.06	11.27	0-1	0
	36	18	10.98	11.07	11.30		0
	36	37	10.95	11.07	11.28		0
	75	0	10.95	11.13	11.33		0
16QAM	1	0	11.43	11.34	11.26	0-1	0
	1	36	11.41	11.25	11.58		0
	1	74	11.46	11.40	11.56		0
	36	0	11.13	11.15	11.24	0-2	0
	36	18	11.10	11.20	11.28		0
	36	37	11.14	11.25	11.30		0
	75	0	11.06	11.27	11.31		0
64QAM	1	0	11.33	11.20	11.30	0-2	0
	1	36	11.11	11.20	11.43		0
	1	74	11.17	11.41	11.54		0
	36	0	11.12	11.02	11.08	0-3	0
	36	18	11.09	11.23	11.36		0
	36	37	11.12	11.24	11.40		0
	75	0	11.03	11.25	11.33		0

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Table 8-203
LTE Band 2 Conducted Powers Ant 1A - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.05	10.88	11.26	0	0
	1	25	10.88	10.89	11.42		0
	1	49	11.00	11.02	11.43		0
	25	0	11.13	10.97	11.33	0-1	0
	25	12	11.01	11.00	11.43		0
	25	25	10.95	11.13	11.35		0
	50	0	10.94	11.09	11.33		0
16QAM	1	0	11.23	10.99	11.34	0-1	0
	1	25	11.03	10.92	11.56		0
	1	49	11.28	11.13	11.58		0
	25	0	10.97	10.78	11.07	0-2	0
	25	12	10.89	10.84	11.17		0
	25	25	10.74	10.91	11.04		0
	50	0	10.84	10.89	11.09		0
64QAM	1	0	11.26	11.08	11.22	0-2	0
	1	25	11.06	10.95	11.38		0
	1	49	11.13	11.10	11.31		0
	25	0	11.08	10.78	11.05	0-3	0
	25	12	11.00	10.86	11.11		0
	25	25	10.81	10.99	10.99		0
	50	0	10.90	11.00	11.04		0

Table 8-204
LTE Band 2 Conducted Powers Ant 1A - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.06	10.95	11.30	0	0
	1	12	10.98	10.97	11.18		0
	1	24	10.82	11.12	11.24		0
	12	0	10.99	10.91	11.26	0-1	0
	12	6	10.91	10.87	11.13		0
	12	13	10.79	10.92	11.09		0
	25	0	10.93	10.94	11.13		0
16QAM	1	0	11.36	11.21	11.60	0-1	0
	1	12	11.26	11.43	11.50		0
	1	24	11.06	11.44	11.53		0
	12	0	11.02	10.90	11.23	0-2	0
	12	6	11.02	10.81	11.21		0
	12	13	10.91	10.90	11.19		0
	25	0	11.02	10.86	11.22		0
64QAM	1	0	11.33	10.85	11.60	0-2	0
	1	12	11.20	10.96	11.58		0
	1	24	11.15	11.16	11.60		0
	12	0	10.96	10.89	11.19	0-3	0
	12	6	10.91	10.83	11.07		0
	12	13	10.79	10.87	11.16		0
	25	0	10.92	10.89	11.08		0

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Table 8-205
LTE Band 2 Conducted Powers Ant 1A - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.02	10.81	10.98	0	0
	1	7	11.05	10.88	11.00		0
	1	14	10.97	10.85	11.02		0
	8	0	11.06	10.76	11.06	0-1	0
	8	4	11.03	10.77	11.02		0
	8	7	11.03	10.79	11.08		0
	15	0	11.05	10.81	11.04		0
16QAM	1	0	11.24	11.13	11.48	0-1	0
	1	7	11.42	11.09	11.60		0
	1	14	11.38	11.13	11.58		0
	8	0	11.07	10.72	11.09	0-2	0
	8	4	11.04	10.78	11.09		0
	8	7	11.03	10.79	11.10		0
	15	0	11.00	10.77	11.09		0
64QAM	1	0	11.29	10.92	11.43	0-2	0
	1	7	11.25	11.03	11.50		0
	1	14	11.08	10.88	11.34		0
	8	0	11.02	10.69	11.13	0-3	0
	8	4	11.04	10.74	11.10		0
	8	7	11.02	10.72	11.07		0
	15	0	10.95	10.67	10.99		0

Table 8-206
LTE Band 2 Conducted Powers Ant 1A - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.02	10.91	11.33	0	0
	1	2	10.98	10.87	11.33		0
	1	5	11.02	10.95	11.39		0
	3	0	11.05	10.85	11.08		0
	3	2	11.04	10.88	11.14		0
	3	3	11.04	10.88	11.15		0
	6	0	10.99	10.86	11.07	0-1	0
16QAM	1	0	11.35	11.10	11.46	0-1	0
	1	2	11.41	10.99	11.35		0
	1	5	11.48	11.06	11.57		0
	3	0	11.23	10.82	11.14		0
	3	2	11.27	10.82	11.14		0
	3	3	11.23	10.83	11.21		0
	6	0	11.15	10.65	11.08	0-2	0
64QAM	1	0	11.27	11.09	11.56	0-2	0
	1	2	11.21	11.05	11.45		0
	1	5	11.15	11.17	11.45		0
	3	0	11.08	10.98	11.16		0
	3	2	11.16	10.99	11.37		0
	3	3	11.10	11.00	11.37		0
	6	0	11.04	10.85	11.12	0-3	0

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Table 8-207
LTE Band 2 Conducted Powers Ant 3A - 20 MHz Bandwidth

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.42	14.32	14.46	0	0
	1	50	14.19	14.31	**14.58**		0
	1	99	14.36	14.35	14.52		0
	50	0	14.30	14.26	14.54	0-1	0
	50	25	14.29	14.41	**14.60**		0
	50	50	14.33	14.34	14.40		0
	100	0	14.28	14.42	14.56		0
16QAM	1	0	14.36	14.38	14.47	0-1	0
	1	50	14.28	14.26	14.50		0
	1	99	14.34	14.25	14.45		0
	50	0	14.12	14.08	14.34	0-2	0
	50	25	14.11	14.20	14.37		0
	50	50	14.14	14.09	14.18		0
	100	0	14.09	14.19	14.36		0
64QAM	1	0	14.27	14.29	14.35	0-2	0
	1	50	14.26	14.26	14.42		0
	1	99	14.23	14.29	14.41		0
	50	0	14.06	14.08	14.32	0-3	0
	50	25	14.05	14.21	14.39		0
	50	50	14.13	14.12	14.20		0
	100	0	14.04	14.20	14.38		0

Table 8-208
LTE Band 2 Conducted Powers Ant 3A - 15 MHz Bandwidth

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.30	14.17	14.28	0	0
	1	36	14.18	14.23	14.43		0
	1	74	14.07	14.18	14.27		0
	36	0	14.17	14.31	14.24	0-1	0
	36	18	14.23	14.33	14.35		0
	36	37	14.20	14.30	14.22		0
	75	0	14.22	14.30	14.36		0
16QAM	1	0	14.37	14.54	14.46	0-1	0
	1	36	14.39	14.51	14.60		0
	1	74	14.50	14.51	14.47		0
	36	0	14.15	14.30	14.33	0-2	0
	36	18	14.25	14.31	14.43		0
	36	37	14.26	14.31	14.30		0
	75	0	14.23	14.31	14.39		0
64QAM	1	0	14.32	14.29	14.23	0-2	0
	1	36	14.14	14.45	14.45		0
	1	74	14.17	14.23	14.38		0
	36	0	14.12	14.32	14.23	0-3	0
	36	18	14.22	14.33	14.38		0
	36	37	14.17	14.25	14.24		0
	75	0	14.17	14.23	14.34		0

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Table 8-209
LTE Band 2 Conducted Powers Ant 3A - 10 MHz Bandwidth

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.22	14.17	14.27	0	0
	1	25	14.10	14.23	14.20		0
	1	49	14.22	14.23	14.09		0
	25	0	14.22	14.31	14.37	0-1	0
	25	12	14.16	14.28	14.31		0
	25	25	14.26	14.28	14.25		0
	50	0	14.17	14.29	14.32		0
16QAM	1	0	14.54	14.41	14.59	0-1	0
	1	25	14.26	14.42	14.60		0
	1	49	14.44	14.42	14.59		0
	25	0	14.28	14.32	14.37	0-2	0
	25	12	14.20	14.30	14.30		0
	25	25	14.31	14.31	14.25		0
	50	0	14.19	14.31	14.32		0
64QAM	1	0	14.60	14.50	14.49	0-2	0
	1	25	14.37	14.46	14.45		0
	1	49	14.51	14.42	14.38		0
	25	0	14.27	14.29	14.37	0-3	0
	25	12	14.21	14.27	14.32		0
	25	25	14.22	14.24	14.25		0
	50	0	14.14	14.22	14.28		0

Table 8-210
LTE Band 2 Conducted Powers Ant 3A - 5 MHz Bandwidth

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.30	14.33	14.42	0	0
	1	12	14.25	14.28	14.33		0
	1	24	14.24	14.32	14.27		0
	12	0	14.21	14.16	14.35	0-1	0
	12	6	14.14	14.14	14.34		0
	12	13	14.07	14.16	14.25		0
	25	0	14.11	14.14	14.15		0
16QAM	1	0	14.45	14.53	14.40	0-1	0
	1	12	14.42	14.42	14.44		0
	1	24	14.46	14.47	14.34		0
	12	0	14.17	14.14	14.12	0-2	0
	12	6	14.12	14.12	14.10		0
	12	13	14.09	14.14	14.02		0
	25	0	14.11	14.11	14.08		0
64QAM	1	0	14.55	14.46	14.52	0-2	0
	1	12	14.31	14.42	14.50		0
	1	24	14.27	14.39	14.42		0
	12	0	14.24	14.18	14.23	0-3	0
	12	6	14.17	14.08	14.24		0
	12	13	14.08	14.10	14.16		0
	25	0	14.14	14.08	14.15		0

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Table 8-211
LTE Band 2 Conducted Powers Ant 3A - 3 MHz Bandwidth

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.13	14.17	14.22	0	0
	1	7	14.17	14.22	14.17		0
	1	14	14.13	14.17	14.13		0
	8	0	14.11	14.07	14.30	0-1	0
	8	4	14.10	14.07	14.21		0
	8	7	14.11	14.07	14.21		0
	15	0	14.12	14.08	14.25		0
16QAM	1	0	14.19	14.31	14.55	0-1	0
	1	7	14.39	14.33	14.45		0
	1	14	14.21	14.36	14.51		0
	8	0	14.00	13.97	14.31	0-2	0
	8	4	14.03	13.99	14.22		0
	8	7	14.04	13.98	14.23		0
	15	0	13.98	13.96	14.24		0
64QAM	1	0	14.45	14.17	14.41	0-2	0
	1	7	14.36	14.25	14.43		0
	1	14	14.40	14.26	14.35		0
	8	0	14.03	14.00	14.10	0-3	0
	8	4	14.02	14.01	14.11		0
	8	7	14.01	14.00	14.08		0
	15	0	14.00	14.00	14.06		0

Table 8-212
LTE Band 2 Conducted Powers Ant 3A - 1.4 MHz Bandwidth

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.22	14.21	14.46	0	0
	1	2	14.22	14.19	14.44		0
	1	5	14.25	14.20	14.47		0
	3	0	14.21	14.11	14.26		0
	3	2	14.20	14.12	14.27		0
	3	3	14.19	14.10	14.28		0
	6	0	14.17	14.08	14.20	0-1	0
16QAM	1	0	14.24	14.29	14.41	0-1	0
	1	2	14.34	14.42	14.47		0
	1	5	14.33	14.37	14.52		0
	3	0	14.16	14.11	14.21		0
	3	2	14.12	14.08	14.20		0
	3	3	14.09	14.06	14.21		0
	6	0	14.09	13.98	14.18	0-2	0
64QAM	1	0	14.37	14.19	14.41	0-2	0
	1	2	14.43	14.44	14.43		0
	1	5	14.53	14.25	14.39		0
	3	0	14.12	14.07	14.16		0
	3	2	14.03	14.03	14.09		0
	3	3	14.08	14.07	14.08		0
	6	0	14.02	14.00	14.08	0-3	0

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Table 8-213
LTE Band 2 Conducted Powers Ant 3A - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18700 (1860.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19100 (1900.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.23	11.36	11.08	0	0
	1	50	11.05	11.24	**11.37**		0
	1	99	11.15	10.99	11.01		0
	50	0	10.99	11.22	11.30	0-1	0
	50	25	10.88	11.23	**11.53**		0
	50	50	11.09	11.19	11.37		0
	100	0	10.99	11.15	11.36		0
16QAM	1	0	11.38	11.37	11.07	0-1	0
	1	50	11.42	11.34	11.52		0
	1	99	11.60	11.07	11.42		0
	50	0	11.06	11.27	11.17	0-2	0
	50	25	11.08	11.24	11.54		0
	50	50	11.24	11.17	11.45		0
	100	0	11.00	11.24	11.49		0
64QAM	1	0	10.99	11.24	11.36	0-2	0
	1	50	10.86	11.04	11.60		0
	1	99	11.06	10.83	11.25		0
	50	0	10.93	10.99	11.08	0-3	0
	50	25	10.81	10.97	11.25		0
	50	50	10.88	10.85	11.08		0
	100	0	10.86	10.93	11.27		0

Table 8-214
LTE Band 2 Conducted Powers Ant 3A - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18675 (1857.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19125 (1902.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.26	11.12	11.47	0	0
	1	36	11.10	11.34	11.60		0
	1	74	10.98	11.12	11.31		0
	36	0	11.28	11.36	11.53	0-1	0
	36	18	11.10	11.42	11.49		0
	36	37	11.06	11.37	11.41		0
	75	0	11.04	11.35	11.49		0
16QAM	1	0	11.14	11.14	11.36	0-1	0
	1	36	11.03	11.33	11.54		0
	1	74	11.14	11.16	11.37		0
	36	0	11.05	11.08	11.25	0-2	0
	36	18	10.85	11.18	11.31		0
	36	37	10.86	11.17	11.20		0
	75	0	10.78	11.10	11.28		0
64QAM	1	0	11.27	11.14	11.19	0-2	0
	1	36	11.13	11.17	11.45		0
	1	74	11.06	10.99	11.18		0
	36	0	11.02	11.10	11.24	0-3	0
	36	18	10.87	11.20	11.31		0
	36	37	10.85	11.18	11.25		0
	75	0	10.77	11.07	11.31		0

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Table 8-215
LTE Band 2 Conducted Powers Ant 3A - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18650 (1855.0 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19150 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.15	11.25	11.52	0	0
	1	25	11.05	11.35	11.40		0
	1	49	11.01	11.41	11.21		0
	25	0	11.23	11.43	11.57	0-1	0
	25	12	11.22	11.48	11.48		0
	25	25	11.12	11.48	11.27		0
	50	0	11.08	11.42	11.42		0
16QAM	1	0	11.22	11.37	11.52	0-1	0
	1	25	11.09	11.51	11.51		0
	1	49	11.06	11.18	11.28		0
	25	0	10.98	11.25	11.41	0-2	0
	25	12	11.00	11.26	11.42		0
	25	25	10.87	11.19	11.29		0
	50	0	10.87	11.16	11.30		0
64QAM	1	0	11.17	11.40	11.52	0-2	0
	1	25	11.01	11.32	11.37		0
	1	49	11.19	11.17	11.52		0
	25	0	11.01	11.24	11.42	0-3	0
	25	12	10.99	11.26	11.34		0
	25	25	10.88	11.16	11.18		0
	50	0	10.87	11.16	11.26		0

Table 8-216
LTE Band 2 Conducted Powers Ant 3A - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18625 (1852.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19175 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.34	11.31	11.30	0	0
	1	12	11.30	11.30	11.00		0
	1	24	11.22	11.34	11.03		0
	12	0	11.15	11.27	11.27	0-1	0
	12	6	11.13	11.30	11.14		0
	12	13	11.17	11.27	11.05		0
	25	0	11.17	11.25	11.14		0
16QAM	1	0	11.35	11.17	11.49	0-1	0
	1	12	11.47	11.19	11.13		0
	1	24	11.40	11.32	11.18		0
	12	0	10.92	10.92	11.00	0-2	0
	12	6	10.87	10.93	10.87		0
	12	13	10.94	10.91	10.69		0
	25	0	10.87	10.92	10.84		0
64QAM	1	0	11.28	11.14	11.49	0-2	0
	1	12	11.15	11.29	11.33		0
	1	24	10.94	11.20	11.20		0
	12	0	10.94	10.97	10.94	0-3	0
	12	6	10.90	10.93	10.83		0
	12	13	10.88	10.85	10.68		0
	25	0	10.87	10.84	10.88		0

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Table 8-217
LTE Band 2 Conducted Powers Ant 3A - 3 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18615 (1851.5 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19185 (1908.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.96	11.04	11.00	0	0
	1	7	11.03	11.07	11.02		0
	1	14	11.03	10.99	11.00		0
	8	0	11.05	11.13	10.96	0-1	0
	8	4	11.03	11.08	10.90		0
	8	7	11.00	11.12	10.95		0
	15	0	11.05	11.10	10.93		0
16QAM	1	0	11.35	11.15	11.18	0-1	0
	1	7	11.29	11.15	11.11		0
	1	14	11.34	11.26	11.02		0
	8	0	10.90	10.91	10.78	0-2	0
	8	4	10.79	10.89	10.73		0
	8	7	10.82	10.90	10.68		0
	15	0	10.82	10.83	10.66		0
64QAM	1	0	11.35	11.25	10.91	0-2	0
	1	7	11.20	11.33	10.98		0
	1	14	11.10	11.03	11.00		0
	8	0	10.92	10.96	10.73	0-3	0
	8	4	10.90	10.79	10.69		0
	8	7	10.83	10.88	10.78		0
	15	0	10.85	10.80	10.58		0

Table 8-218
LTE Band 2 Conducted Powers Ant 3A - 1.4 MHz Bandwidth, Inter-band ULCA Active

LTE Band 2 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 18607 (1850.7 MHz)	Mid Channel 18900 (1880.0 MHz)	High Channel 19193 (1909.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.18	11.25	11.09	0	0
	1	2	11.18	11.26	11.16		0
	1	5	11.18	11.25	11.14		0
	3	0	11.13	11.32	10.97		0
	3	2	11.15	11.25	10.98		0
	3	3	11.15	11.28	11.00		0
	6	0	11.08	11.18	10.95	0-1	0
16QAM	1	0	11.14	11.59	11.22	0-1	0
	1	2	11.32	11.47	11.18		0
	1	5	11.24	11.33	11.25		0
	3	0	11.01	11.26	10.95		0
	3	2	11.01	11.23	10.93		0
	3	3	11.06	11.19	10.89		0
	6	0	10.87	11.15	10.88	0-2	0
64QAM	1	0	11.05	11.60	10.94	0-2	0
	1	2	11.12	11.34	11.21		0
	1	5	11.06	11.48	11.13		0
	3	0	11.01	11.35	10.91		0
	3	2	10.96	11.20	10.94		0
	3	3	11.04	11.13	10.86		0
	6	0	10.86	11.08	10.87	0-3	0

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8.3.10 LTE Band 25

Table 8-219
LTE Band 25 Conducted Powers Ant 4 - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.71	15.41	15.87	0	0
	1	50	15.47	15.44	**15.88**		0
	1	99	15.43	15.47	15.75		0
	50	0	15.61	15.54	**15.91**	0-1	0
	50	25	15.50	15.53	15.75		0
	50	50	15.46	15.48	15.65		0
	100	0	15.51	15.53	15.74		0
16QAM	1	0	15.79	15.43	15.64	0-1	0
	1	50	15.55	15.47	15.48		0
	1	99	15.71	15.66	15.62		0
	50	0	15.44	15.37	15.38	0-2	0
	50	25	15.31	15.42	15.42		0
	50	50	15.30	15.45	15.48		0
	100	0	15.22	15.42	15.43		0
64QAM	1	0	15.94	15.57	15.83	0-2	0
	1	50	15.84	15.52	15.94		0
	1	99	15.54	15.77	15.99		0
	50	0	15.63	15.35	15.82	0-3	0
	50	25	15.56	15.45	15.81		0
	50	50	15.38	15.39	15.79		0
	100	0	15.53	15.36	15.82		0

Table 8-220
LTE Band 25 Conducted Powers Ant 4 - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26115 (1857.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26615 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.55	15.26	15.71	0	0
	1	36	15.41	15.33	15.72		0
	1	74	15.19	15.40	15.39		0
	36	0	15.44	15.29	15.76	0-1	0
	36	18	15.40	15.33	15.75		0
	36	37	15.34	15.30	15.60		0
	75	0	15.39	15.34	15.74		0
16QAM	1	0	15.81	15.35	15.73	0-1	0
	1	36	15.63	15.47	15.82		0
	1	74	15.53	15.60	15.61		0
	36	0	15.49	15.33	15.79	0-2	0
	36	18	15.46	15.40	15.80		0
	36	37	15.39	15.37	15.66		0
	75	0	15.42	15.39	15.80		0
64QAM	1	0	15.87	15.41	15.87	0-2	0
	1	36	15.62	15.40	15.96		0
	1	74	15.47	15.64	15.59		0
	36	0	15.53	15.31	15.82	0-3	0
	36	18	15.48	15.37	15.83		0
	36	37	15.39	15.35	15.66		0
	75	0	15.46	15.36	15.76		0

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Table 8-221
LTE Band 25 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26090 (1855.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26640 (1910.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.59	15.48	15.73	0	0
	1	25	15.37	15.49	15.66		0
	1	49	15.33	15.60	15.57		0
	25	0	15.61	15.50	15.80	0-1	0
	25	12	15.47	15.47	15.76		0
	25	25	15.46	15.45	15.60		0
	50	0	15.52	15.47	15.72		0
16QAM	1	0	15.96	15.67	15.88	0-1	0
	1	25	15.55	15.67	15.83		0
	1	49	15.59	15.80	15.86		0
	25	0	15.69	15.54	15.83	0-2	0
	25	12	15.55	15.55	15.79		0
	25	25	15.49	15.51	15.64		0
	50	0	15.53	15.54	15.77		0
64QAM	1	0	15.86	15.60	15.84	0-2	0
	1	25	15.75	15.62	15.90		0
	1	49	15.54	15.72	15.87		0
	25	0	15.70	15.56	15.84	0-3	0
	25	12	15.55	15.55	15.81		0
	25	25	15.55	15.58	15.66		0
	50	0	15.56	15.55	15.74		0

Table 8-222
LTE Band 25 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26065 (1852.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26665 (1912.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.57	15.44	15.77	0	0
	1	12	15.53	15.36	15.66		0
	1	24	15.40	15.40	15.69		0
	12	0	15.52	15.30	15.50	0-1	0
	12	6	15.49	15.29	15.44		0
	12	13	15.41	15.26	15.51		0
	25	0	15.50	15.30	15.45		0
16QAM	1	0	15.82	15.59	16.00	0-1	0
	1	12	15.70	15.66	15.82		0
	1	24	15.60	15.61	15.98		0
	12	0	15.51	15.32	15.50	0-2	0
	12	6	15.48	15.26	15.48		0
	12	13	15.40	15.31	15.51		0
	25	0	15.50	15.28	15.44		0
64QAM	1	0	15.75	15.72	15.84	0-2	0
	1	12	15.83	15.64	15.77		0
	1	24	15.77	15.62	15.85		0
	12	0	15.48	15.30	15.53	0-3	0
	12	6	15.48	15.25	15.40		0
	12	13	15.38	15.31	15.49		0
	25	0	15.50	15.28	15.42		0

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Table 8-223
LTE Band 25 Conducted Powers Ant 4 - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26055 (1851.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26675 (1913.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.33	15.33	15.34	0	0
	1	7	15.38	15.33	15.48		0
	1	14	15.31	15.25	15.39		0
	8	0	15.35	15.22	15.36	0-1	0
	8	4	15.36	15.19	15.44		0
	8	7	15.35	15.18	15.45		0
	15	0	15.40	15.22	15.46		0
16QAM	1	0	15.60	15.53	15.57	0-1	0
	1	7	15.62	15.55	15.63		0
	1	14	15.63	15.57	15.60		0
	8	0	15.40	15.27	15.38	0-2	0
	8	4	15.41	15.20	15.46		0
	8	7	15.39	15.21	15.41		0
	15	0	15.33	15.11	15.40		0
64QAM	1	0	15.73	15.44	15.38	0-2	0
	1	7	15.60	15.51	15.76		0
	1	14	15.80	15.43	15.64		0
	8	0	15.39	15.20	15.39	0-3	0
	8	4	15.28	15.19	15.53		0
	8	7	15.30	15.14	15.44		0
	15	0	15.34	15.17	15.48		0

Table 8-224
LTE Band 25 Conducted Powers Ant 4 - 1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26047 (1850.7 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26683 (1914.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	15.45	15.31	15.71	0	0
	1	2	15.43	15.27	15.64		0
	1	5	15.44	15.28	15.69		0
	3	0	15.45	15.18	15.53		0
	3	2	15.45	15.18	15.48		0
	3	3	15.43	15.17	15.51		0
	6	0	15.39	15.13	15.42	0-1	0
16QAM	1	0	15.68	15.70	15.91	0-1	0
	1	2	15.66	15.57	15.73		0
	1	5	15.62	15.64	15.80		0
	3	0	15.50	15.27	15.66		0
	3	2	15.41	15.31	15.68		0
	3	3	15.50	15.30	15.76		0
	6	0	15.45	15.21	15.52	0-2	0
64QAM	1	0	15.82	15.39	15.84	0-2	0
	1	2	15.81	15.40	15.76		0
	1	5	15.68	15.41	15.71		0
	3	0	15.52	15.29	15.79		0
	3	2	15.52	15.32	15.66		0
	3	3	15.49	15.27	15.68		0
	6	0	15.40	15.15	15.46	0-3	0

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Table 8-225
LTE Band 25 Conducted Powers Ant 2A - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.39	14.22	14.39	0	0
	1	50	14.24	14.25	**14.40**		0
	1	99	14.37	14.35	14.38		0
	50	0	14.33	14.29	**14.40**	0-1	0
	50	25	14.21	14.33	14.39		0
	50	50	14.23	14.30	14.37		0
	100	0	14.20	14.32	14.39		0
16QAM	1	0	14.37	14.24	14.38	0-1	0
	1	50	14.16	14.26	14.37		0
	1	99	14.32	14.36	14.35		0
	50	0	14.13	14.06	14.26	0-2	0
	50	25	14.01	14.11	14.18		0
	50	50	14.01	14.14	14.15		0
	100	0	13.98	14.10	14.21		0
64QAM	1	0	14.32	14.27	14.40	0-2	0
	1	50	14.16	14.28	14.39		0
	1	99	14.30	14.36	14.36		0
	50	0	14.12	14.05	14.29	0-3	0
	50	25	14.00	14.11	14.22		0
	50	50	14.03	14.15	14.16		0
	100	0	13.97	14.11	14.24		0

Table 8-226
LTE Band 25 Conducted Powers Ant 2A - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26115 (1857.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26615 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.36	14.12	14.36	0	0
	1	36	14.39	14.29	14.27		0
	1	74	14.26	14.17	14.28		0
	36	0	14.39	14.28	14.37	0-1	0
	36	18	14.36	14.37	14.35		0
	36	37	14.28	14.27	14.33		0
	75	0	14.38	14.35	14.34		0
16QAM	1	0	14.26	14.17	14.06	0-1	0
	1	36	14.39	14.27	14.21		0
	1	74	14.29	14.06	14.34		0
	36	0	14.15	14.13	14.12	0-2	0
	36	18	14.29	14.21	14.16		0
	36	37	14.08	14.09	14.17		0
	75	0	14.21	14.17	14.13		0
64QAM	1	0	14.25	14.00	14.40	0-2	0
	1	36	14.35	14.20	14.36		0
	1	74	14.18	14.16	14.40		0
	36	0	14.19	14.10	14.23	0-3	0
	36	18	14.23	14.19	14.20		0
	36	37	14.09	14.14	14.14		0
	75	0	14.16	14.13	14.13		0

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Table 8-227
LTE Band 25 Conducted Powers Ant 2A - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26090 (1855.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26640 (1910.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.32	14.33	14.20	0	0
	1	25	14.26	14.33	14.23		0
	1	49	14.35	14.29	14.30		0
	25	0	14.36	14.38	14.36	0-1	0
	25	12	14.33	14.36	14.30		0
	25	25	14.40	14.39	14.38		0
	50	0	14.35	14.35	14.35		0
16QAM	1	0	14.28	14.04	14.16	0-1	0
	1	25	14.02	14.00	14.22		0
	1	49	14.14	13.96	14.12		0
	25	0	14.13	14.10	14.16	0-2	0
	25	12	14.05	14.07	14.02		0
	25	25	14.17	14.09	14.18		0
	50	0	14.08	14.11	14.15		0
64QAM	1	0	14.18	14.37	14.39	0-2	0
	1	25	14.15	14.19	14.34		0
	1	49	14.33	14.38	14.38		0
	25	0	14.21	14.21	14.20	0-3	0
	25	12	14.19	14.20	14.14		0
	25	25	14.25	14.25	14.27		0
	50	0	14.19	14.25	14.18		0

Table 8-228
LTE Band 25 Conducted Powers Ant 2A - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26065 (1852.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26665 (1912.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.23	14.31	14.12	0	0
	1	12	14.25	14.30	14.19		0
	1	24	14.25	14.37	14.25		0
	12	0	14.17	14.20	14.20	0-1	0
	12	6	14.15	14.18	14.28		0
	12	13	14.14	14.21	14.28		0
	25	0	14.18	14.20	14.30		0
16QAM	1	0	14.25	14.16	14.25	0-1	0
	1	12	14.13	14.07	14.38		0
	1	24	14.21	14.24	14.40		0
	12	0	13.96	13.95	14.00	0-2	0
	12	6	14.01	13.92	14.18		0
	12	13	13.95	13.98	14.11		0
	25	0	14.03	13.93	14.14		0
64QAM	1	0	14.19	14.36	14.32	0-2	0
	1	12	14.30	14.31	14.38		0
	1	24	14.20	14.21	14.31		0
	12	0	14.08	14.03	13.95	0-3	0
	12	6	14.13	14.02	14.05		0
	12	13	14.03	14.02	14.05		0
	25	0	14.06	14.05	13.97		0

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Table 8-229
LTE Band 25 Conducted Powers Ant 2A - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26055 (1851.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26675 (1913.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.15	14.26	14.20	0	0
	1	7	14.19	14.31	14.19		0
	1	14	14.18	14.29	14.14		0
	8	0	14.14	14.13	14.23	0-1	0
	8	4	14.13	14.12	14.20		0
	8	7	14.17	14.13	14.22		0
	15	0	14.14	14.14	14.26		0
16QAM	1	0	14.09	14.00	14.13	0-1	0
	1	7	14.07	13.85	14.21		0
	1	14	14.16	14.06	14.31		0
	8	0	13.91	13.87	13.97	0-2	0
	8	4	13.94	13.78	13.94		0
	8	7	13.99	13.83	13.93		0
	15	0	13.89	13.74	13.97		0
64QAM	1	0	14.21	14.08	14.35	0-2	0
	1	7	14.17	14.10	14.36		0
	1	14	14.16	14.06	14.39		0
	8	0	13.90	13.80	14.05	0-3	0
	8	4	13.92	13.76	14.01		0
	8	7	13.92	13.79	13.98		0
	15	0	13.88	13.78	13.98		0

Table 8-230
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 26047 (1850.7 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26683 (1914.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.36	14.31	14.35	0	0
	1	2	14.28	14.38	14.33		0
	1	5	14.32	14.38	14.37		0
	3	0	14.29	14.20	14.16		0
	3	2	14.19	14.23	14.14		0
	3	3	14.21	14.24	14.16		0
	6	0	14.14	14.22	14.09	0-1	0
16QAM	1	0	14.35	14.14	14.21	0-1	0
	1	2	14.26	14.12	14.19		0
	1	5	14.27	14.09	14.27		0
	3	0	14.06	13.84	13.98		0
	3	2	13.92	14.00	13.98		0
	3	3	14.07	13.91	13.86		0
	6	0	13.86	13.94	13.92	0-2	0
64QAM	1	0	14.39	14.31	14.16	0-2	0
	1	2	14.38	14.26	14.35		0
	1	5	14.38	14.30	14.11		0
	3	0	14.01	14.24	13.93		0
	3	2	14.04	14.19	14.02		0
	3	3	14.10	14.19	14.10		0
	6	0	14.06	13.90	13.85	0-3	0

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Table 8-231
LTE Band 25 Conducted Powers Ant 1A - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.22	14.08	**14.38**	0	0
	1	50	14.04	14.16	14.36		0
	1	99	14.20	14.32	14.33		0
	50	0	13.98	14.11	**14.48**	0-1	0
	50	25	13.99	14.21	14.39		0
	50	50	13.96	14.24	14.23		0
	100	0	14.00	14.22	14.37		0
16QAM	1	0	13.96	14.44	14.43	0-1	0
	1	50	14.01	14.38	14.31		0
	1	99	14.14	14.33	14.35		0
	50	0	13.80	14.27	14.29	0-2	0
	50	25	13.84	14.15	14.16		0
	50	50	13.79	14.02	14.01		0
	100	0	13.75	14.12	14.20		0
64QAM	1	0	14.19	14.08	14.25	0-2	0
	1	50	14.11	14.06	14.14		0
	1	99	14.02	14.04	14.26		0
	50	0	14.13	14.03	14.32	0-3	0
	50	25	13.76	13.97	14.06		0
	50	50	14.02	14.17	14.24		0
	100	0	13.77	14.01	14.05		0

Table 8-232
LTE Band 25 Conducted Powers Ant 1A - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26115 (1857.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26615 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.60	14.08	14.37	0	0
	1	36	14.25	14.20	14.28		0
	1	74	14.29	14.17	14.30		0
	36	0	14.27	14.17	14.46	0-1	0
	36	18	14.13	14.25	14.38		0
	36	37	14.16	14.31	14.38		0
	75	0	14.13	14.29	14.38		0
16QAM	1	0	14.30	14.19	14.36	0-1	0
	1	36	13.99	14.26	14.34		0
	1	74	14.13	14.15	14.37		0
	36	0	14.02	13.96	14.25	0-2	0
	36	18	13.87	14.08	14.17		0
	36	37	13.92	14.10	14.21		0
	75	0	13.88	14.12	14.16		0
64QAM	1	0	14.21	14.11	14.16	0-2	0
	1	36	14.02	14.12	14.18		0
	1	74	14.11	14.32	14.36		0
	36	0	14.18	14.18	14.26	0-3	0
	36	18	13.80	13.97	14.04		0
	36	37	13.97	14.22	14.17		0
	75	0	13.82	13.96	14.02		0

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Table 8-233
LTE Band 25 Conducted Powers Ant 1A - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26090 (1855.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26640 (1910.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.33	14.21	14.30	0	0
	1	25	14.16	14.26	14.32		0
	1	49	14.10	14.34	14.30		0
	25	0	14.32	14.32	14.40	0-1	0
	25	12	14.19	14.33	14.38		0
	25	25	14.11	14.36	14.31		0
	50	0	14.18	14.34	14.37		0
16QAM	1	0	14.32	14.22	14.27	0-1	0
	1	25	14.09	14.37	14.39		0
	1	49	14.22	14.43	14.47		0
	25	0	14.03	14.04	14.15	0-2	0
	25	12	13.91	14.08	14.15		0
	25	25	13.83	14.17	14.10		0
	50	0	13.93	14.07	14.13		0
64QAM	1	0	14.43	14.22	14.15	0-2	0
	1	25	14.20	14.10	13.92		0
	1	49	14.12	14.30	14.16		0
	25	0	14.15	14.00	14.13	0-3	0
	25	12	13.80	13.87	13.80		0
	25	25	14.01	14.10	14.05		0
	50	0	13.78	13.81	13.77		0

Table 8-234
LTE Band 25 Conducted Powers Ant 1A - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26065 (1852.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26665 (1912.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.41	14.18	14.22	0	0
	1	12	14.34	14.24	14.06		0
	1	24	14.25	14.32	14.21		0
	12	0	14.29	14.14	14.27	0-1	0
	12	6	14.28	14.16	14.16		0
	12	13	14.15	14.24	14.19		0
	25	0	14.25	14.21	14.17		0
16QAM	1	0	14.35	14.33	14.26	0-1	0
	1	12	14.22	14.24	14.13		0
	1	24	14.23	14.41	14.27		0
	12	0	13.96	13.90	13.97	0-2	0
	12	6	13.91	13.98	13.91		0
	12	13	13.76	13.96	13.97		0
	25	0	13.89	13.92	13.88		0
64QAM	1	0	14.26	14.26	14.39	0-2	0
	1	12	14.35	14.33	14.22		0
	1	24	14.38	14.32	14.48		0
	12	0	14.35	14.17	14.23	0-3	0
	12	6	14.00	13.88	14.06		0
	12	13	14.28	14.19	14.24		0
	25	0	14.05	13.87	14.04		0

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Table 8-235
LTE Band 25 Conducted Powers Ant 1A - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26055 (1851.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26675 (1913.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.47	14.39	14.27	0	0
	1	7	14.49	14.47	14.36		0
	1	14	14.40	14.43	14.30		0
	8	0	14.39	14.31	14.37	0-1	0
	8	4	14.44	14.31	14.39		0
	8	7	14.42	14.33	14.38		0
	15	0	14.46	14.34	14.45		0
16QAM	1	0	14.37	14.37	14.50	0-1	0
	1	7	14.44	14.34	14.60		0
	1	14	14.49	14.43	14.59		0
	8	0	14.25	14.03	14.22	0-2	0
	8	4	14.11	13.99	14.17		0
	8	7	14.17	14.02	14.23		0
	15	0	14.16	13.98	14.15		0
64QAM	1	0	14.42	14.21	14.22	0-2	0
	1	7	14.10	14.05	14.25		0
	1	14	14.45	14.41	14.32		0
	8	0	14.12	13.95	14.09	0-3	0
	8	4	14.20	14.07	14.18		0
	8	7	14.10	13.97	14.13		0
	15	0	14.15	13.86	14.05		0

Table 8-236
LTE Band 25 Conducted Powers Ant 1A - 1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26047 (1850.7 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26683 (1914.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.26	14.20	14.39	0	0
	1	2	14.24	14.19	14.39		0
	1	5	14.24	14.21	14.46		0
	3	0	14.26	14.09	14.23		0
	3	2	14.23	14.08	14.21		0
	3	3	14.24	14.11	14.27		0
	6	0	14.18	14.06	14.17	0-1	0
16QAM	1	0	14.43	14.32	14.33	0-1	0
	1	2	14.47	14.55	14.54		0
	1	5	14.56	14.52	14.43		0
	3	0	14.27	14.16	14.30		0
	3	2	14.31	14.18	14.29		0
	3	3	14.22	14.23	14.27		0
	6	0	14.16	13.97	14.16	0-2	0
64QAM	1	0	14.26	14.26	14.39	0-2	0
	1	2	14.30	14.20	14.46		0
	1	5	14.38	14.32	14.48		0
	3	0	14.11	13.89	14.08		0
	3	2	14.00	13.88	14.06		0
	3	3	14.03	13.88	14.09		0
	6	0	14.05	13.87	14.04	0-3	0

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Table 8-237
LTE Band 25 Conducted Powers Ant 3A - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.52	14.32	**14.60**	0	0
	1	50	14.35	14.31	14.48		0
	1	99	14.53	14.59	14.49		0
	50	0	14.36	14.32	**14.60**	0-1	0
	50	25	14.35	14.34	14.48		0
	50	50	14.41	14.37	14.57		0
	100	0	14.34	14.36	14.52		0
16QAM	1	0	14.37	14.26	14.43	0-1	0
	1	50	14.42	14.20	14.41		0
	1	99	14.40	14.39	14.38		0
	50	0	14.06	14.11	14.33	0-2	0
	50	25	14.08	14.12	14.23		0
	50	50	14.09	14.09	14.32		0
	100	0	14.08	14.12	14.30		0
64QAM	1	0	14.36	14.17	14.52	0-2	0
	1	50	14.25	14.20	14.34		0
	1	99	14.42	14.46	14.38		0
	50	0	14.14	14.17	14.41	0-3	0
	50	25	14.17	14.14	14.24		0
	50	50	14.15	14.16	14.31		0
	100	0	14.10	14.17	14.29		0

Table 8-238
LTE Band 25 Conducted Powers Ant 3A - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26115 (1857.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26615 (1907.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.46	14.27	14.47	0	0
	1	36	14.40	14.29	14.41		0
	1	74	14.32	14.36	14.31		0
	36	0	14.24	14.35	14.51	0-1	0
	36	18	14.32	14.35	14.44		0
	36	37	14.30	14.24	14.38		0
	75	0	14.30	14.31	14.45		0
16QAM	1	0	14.34	14.39	14.58	0-1	0
	1	36	14.31	14.41	14.55		0
	1	74	14.23	14.40	14.48		0
	36	0	14.02	14.16	14.37	0-2	0
	36	18	14.12	14.18	14.34		0
	36	37	14.12	14.11	14.24		0
	75	0	14.12	14.16	14.24		0
64QAM	1	0	14.25	14.17	14.52	0-2	0
	1	36	14.34	14.35	14.44		0
	1	74	14.09	14.45	14.33		0
	36	0	14.00	14.02	14.34	0-3	0
	36	18	14.11	14.12	14.29		0
	36	37	14.06	14.00	14.26		0
	75	0	13.99	14.04	14.26		0

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Table 8-239
LTE Band 25 Conducted Powers Ant 3A - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26090 (1855.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26640 (1910.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.27	14.35	14.42	0	0
	1	25	14.16	14.33	14.33		0
	1	49	14.27	14.34	14.31		0
	25	0	14.28	14.40	14.52	0-1	0
	25	12	14.21	14.40	14.44		0
	25	25	14.31	14.40	14.39		0
	50	0	14.23	14.41	14.45		0
16QAM	1	0	14.15	14.42	14.42	0-1	0
	1	25	14.18	14.31	14.42		0
	1	49	14.06	14.32	14.57		0
	25	0	14.09	14.20	14.32	0-2	0
	25	12	14.03	14.18	14.22		0
	25	25	14.13	14.18	14.20		0
	50	0	14.03	14.19	14.23		0
64QAM	1	0	14.41	14.15	14.60	0-2	0
	1	25	14.20	14.44	14.41		0
	1	49	14.38	14.29	14.25		0
	25	0	14.09	14.12	14.36	0-3	0
	25	12	14.00	14.12	14.25		0
	25	25	14.09	14.13	14.17		0
	50	0	14.05	14.12	14.26		0

Table 8-240
LTE Band 25 Conducted Powers Ant 3A - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26065 (1852.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26665 (1912.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.34	14.31	14.33	0	0
	1	12	14.26	14.28	14.21		0
	1	24	14.26	14.31	14.28		0
	12	0	14.26	14.19	14.34	0-1	0
	12	6	14.19	14.16	14.26		0
	12	13	14.12	14.17	14.26		0
	25	0	14.20	14.18	14.28		0
16QAM	1	0	14.35	14.37	14.43	0-1	0
	1	12	14.26	14.36	14.35		0
	1	24	14.25	14.40	14.40		0
	12	0	14.07	14.02	14.07	0-2	0
	12	6	14.00	14.00	14.02		0
	12	13	13.95	13.99	14.04		0
	25	0	13.98	13.98	14.03		0
64QAM	1	0	14.05	14.24	14.27	0-2	0
	1	12	14.10	14.15	14.51		0
	1	24	14.17	14.03	14.60		0
	12	0	14.00	13.84	14.14	0-3	0
	12	6	13.93	13.89	14.06		0
	12	13	13.85	13.90	14.02		0
	25	0	13.92	13.91	14.03		0

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Table 8-241
LTE Band 25 Conducted Powers Ant 3A - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26055 (1851.5 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26675 (1913.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.37	14.45	14.25	0	0
	1	7	14.39	14.50	14.29		0
	1	14	14.36	14.44	14.29		0
	8	0	14.37	14.33	14.33	0-1	0
	8	4	14.33	14.34	14.31		0
	8	7	14.34	14.34	14.33		0
	15	0	14.33	14.35	14.37		0
16QAM	1	0	14.30	14.26	14.42	0-1	0
	1	7	14.31	14.45	14.50		0
	1	14	14.20	14.27	14.58		0
	8	0	13.99	13.99	14.04	0-2	0
	8	4	13.95	13.96	14.06		0
	8	7	13.99	13.95	14.07		0
	15	0	13.97	13.97	14.05		0
64QAM	1	0	14.23	14.42	14.36	0-2	0
	1	7	14.40	14.38	14.35		0
	1	14	14.32	14.39	14.30		0
	8	0	14.01	13.97	14.15	0-3	0
	8	4	13.98	14.03	14.09		0
	8	7	13.97	14.02	14.08		0
	15	0	13.93	13.97	14.06		0

Table 8-242
LTE Band 25 Conducted Powers Ant 3A - 1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26047 (1850.7 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26683 (1914.3 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.39	14.47	14.57	0	0
	1	2	14.39	14.45	14.55		0
	1	5	14.43	14.48	14.50		0
	3	0	14.39	14.36	14.36		0
	3	2	14.38	14.36	14.39		0
	3	3	14.39	14.38	14.44		0
	6	0	14.35	14.32	14.32	0-1	0
16QAM	1	0	14.25	14.34	14.38	0-1	0
	1	2	14.39	14.47	14.42		0
	1	5	14.34	14.42	14.57		0
	3	0	14.17	14.18	14.16		0
	3	2	14.18	14.18	14.13		0
	3	3	14.18	14.13	14.21		0
	6	0	14.11	14.05	14.09	0-2	0
64QAM	1	0	14.50	14.44	14.53	0-2	0
	1	2	14.35	14.12	14.40		0
	1	5	14.45	14.44	14.25		0
	3	0	14.21	14.02	14.26		0
	3	2	14.21	14.12	14.26		0
	3	3	14.22	14.13	14.27		0
	6	0	14.02	14.08	14.01	0-3	0

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8.3.11 LTE Band 30

Table 8-243
LTE Band 30 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**13.45**	0	0
	1	25	13.34		0
	1	49	13.33		0
	25	0	**13.56**	0-1	0
	25	12	13.50		0
	25	25	13.48		0
	50	0	13.44		0
16QAM	1	0	13.53	0-1	0
	1	25	13.48		0
	1	49	13.46		0
	25	0	13.55	0-2	0
	25	12	13.48		0
	25	25	13.50		0
	50	0	13.46		0
64QAM	1	0	13.64	0-2	0
	1	25	13.58		0
	1	49	13.54		0
	25	0	13.59	0-3	0
	25	12	13.50		0
	25	25	13.49		0
	50	0	13.47		0

Table 8-244
LTE Band 30 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	13.46	0	0
	1	12	13.39		0
	1	24	13.44		0
	12	0	13.58	0-1	0
	12	6	13.57		0
	12	13	13.57		0
	25	0	13.50		0
16QAM	1	0	13.65	0-1	0
	1	12	13.61		0
	1	24	13.67		0
	12	0	13.33	0-2	0
	12	6	13.28		0
	12	13	13.37		0
	25	0	13.20		0
64QAM	1	0	13.53	0-2	0
	1	12	13.49		0
	1	24	13.55		0
	12	0	13.32	0-3	0
	12	6	13.31		0
	12	13	13.34		0
	25	0	13.24		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 8-245
LTE Band 30 Conducted Powers Ant 4 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**10.50**	0	0
	1	25	10.49		0
	1	49	10.48		0
	25	0	**10.52**	0-1	0
	25	12	10.47		0
	25	25	10.51		0
	50	0	10.48		0
16QAM	1	0	10.63	0-1	0
	1	25	10.55		0
	1	49	10.53		0
	25	0	10.41	0-2	0
	25	12	10.32		0
	25	25	10.40		0
	50	0	10.36		0
64QAM	1	0	10.50	0-2	0
	1	25	10.41		0
	1	49	10.39		0
	25	0	10.36	0-3	0
	25	12	10.29		0
	25	25	10.31		0
	50	0	10.27		0

Table 8-246
LTE Band 30 Conducted Powers Ant 4 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	10.24	0	0
	1	12	10.19		0
	1	24	10.31		0
	12	0	10.22	0-1	0
	12	6	10.15		0
	12	13	10.16		0
	25	0	10.03		0
16QAM	1	0	10.31	0-1	0
	1	12	10.31		0
	1	24	10.30		0
	12	0	10.08	0-2	0
	12	6	10.09		0
	12	13	10.12		0
	25	0	9.94		0
64QAM	1	0	10.36	0-2	0
	1	12	10.32		0
	1	24	10.54		0
	12	0	10.07	0-3	0
	12	6	10.04		0
	12	13	10.12		0
	25	0	9.99		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

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**12.77**	0	0
	1	25	12.74		0
	1	49	12.69		0
	25	0	12.85	0-1	0
	25	12	12.81		0
	25	25	**12.86**		0
	50	0	12.76		0
16QAM	1	0	12.74	0-1	0
	1	25	12.69		0
	1	49	12.61		0
	25	0	12.58	0-2	0
	25	12	12.54		0
	25	25	12.56		0
	50	0	12.59		0
64QAM	1	0	12.62	0-2	0
	1	25	12.57		0
	1	49	12.49		0
	25	0	12.45	0-3	0
	25	12	12.46		0
	25	25	12.59		0
	50	0	12.51		0

Table 8-248
LTE Band 30 Conducted Powers Ant 2A - 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	12.80	0	0
	1	12	12.79		0
	1	24	12.83		0
	12	0	13.00	0-1	0
	12	6	12.97		0
	12	13	12.91		0
	25	0	12.95		0
16QAM	1	0	12.97	0-1	0
	1	12	12.94		0
	1	24	12.95		0
	12	0	12.59	0-2	0
	12	6	12.59		0
	12	13	12.51		0
	25	0	12.44		0
64QAM	1	0	12.87	0-2	0
	1	12	12.76		0
	1	24	12.83		0
	12	0	12.53	0-3	0
	12	6	12.50		0
	12	13	12.41		0
	25	0	12.46		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 2A - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**9.85**	0	0
	1	25	9.75		0
	1	49	9.69		0
	25	0	**9.83**	0-1	0
	25	12	9.76		0
	25	25	9.69		0
	50	0	9.80		0
16QAM	1	0	9.97	0-1	0
	1	25	9.90		0
	1	49	9.77		0
	25	0	9.37	0-2	0
	25	12	9.28		0
	25	25	9.20		0
	50	0	9.37		0
64QAM	1	0	9.75	0-2	0
	1	25	9.82		0
	1	49	10.00		0
	25	0	9.48	0-3	0
	25	12	9.51		0
	25	25	9.47		0
	50	0	9.58		0

Table 8-250
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 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	9.84	0	0
	1	12	9.92		0
	1	24	9.87		0
	12	0	9.82	0-1	0
	12	6	9.86		0
	12	13	9.81		0
	25	0	9.95		0
16QAM	1	0	9.81	0-1	0
	1	12	9.97		0
	1	24	9.92		0
	12	0	9.24	0-2	0
	12	6	9.33		0
	12	13	9.35		0
	25	0	9.50		0
64QAM	1	0	9.73	0-2	0
	1	12	9.91		0
	1	24	9.87		0
	12	0	9.27	0-3	0
	12	6	9.31		0
	12	13	9.34		0
	25	0	9.48		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 1A - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	14.21	0	0
	1	25	14.26		0
	1	49	**14.36**		0
	25	0	14.27	0-1	0
	25	12	14.31		0
	25	25	**14.36**		0
	50	0	14.35		0
16QAM	1	0	14.22	0-1	0
	1	25	14.20		0
	1	49	14.29		0
	25	0	14.00	0-2	0
	25	12	14.09		0
	25	25	14.12		0
	50	0	14.10		0
64QAM	1	0	14.43	0-2	0
	1	25	14.34		0
	1	49	14.44		0
	25	0	14.38	0-3	0
	25	12	14.40		0
	25	25	14.27		0
	50	0	14.37		0

Table 8-252
LTE Band 30 Conducted Powers Ant 1A - 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	14.22	0	0
	1	12	14.20		0
	1	24	14.23		0
	12	0	14.31	0-1	0
	12	6	14.38		0
	12	13	14.32		0
	25	0	14.37		0
16QAM	1	0	14.47	0-1	0
	1	12	14.37		0
	1	24	14.34		0
	12	0	14.06	0-2	0
	12	6	14.01		0
	12	13	13.96		0
	25	0	14.07		0
64QAM	1	0	14.38	0-2	0
	1	12	14.40		0
	1	24	14.36		0
	12	0	14.04	0-3	0
	12	6	14.12		0
	12	13	14.03		0
	25	0	14.04		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 1A - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**11.32**	0	0
	1	25	11.31		0
	1	49	11.22		0
	25	0	11.18	0-1	0
	25	12	11.19		0
	25	25	**11.39**		0
	50	0	11.26		0
16QAM	1	0	11.50	0-1	0
	1	25	11.49		0
	1	49	11.43		0
	25	0	11.13	0-2	0
	25	12	11.19		0
	25	25	11.33		0
	50	0	11.26		0
64QAM	1	0	11.44	0-2	0
	1	25	11.47		0
	1	49	11.30		0
	25	0	11.00	0-3	0
	25	12	10.95		0
	25	25	11.18		0
	50	0	11.01		0

Table 8-254
LTE Band 30 Conducted Powers Ant 1A - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	11.22	0	0
	1	12	11.45		0
	1	24	11.30		0
	12	0	11.50	0-1	0
	12	6	11.06		0
	12	13	11.08		0
	25	0	11.10		0
16QAM	1	0	11.39	0-1	0
	1	12	11.48		0
	1	24	11.50		0
	12	0	10.74	0-2	0
	12	6	10.84		0
	12	13	10.81		0
	25	0	10.91		0
64QAM	1	0	11.18	0-2	0
	1	12	11.32		0
	1	24	11.50		0
	12	0	10.50	0-3	0
	12	6	10.60		0
	12	13	10.57		0
	25	0	10.64		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 3A - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	13.00	0	0
	1	25	**13.11**		0
	1	49	13.09		0
	25	0	12.98	0-1	0
	25	12	12.97		0
	25	25	**12.99**		0
	50	0	12.89		0
16QAM	1	0	13.05	0-1	0
	1	25	13.13		0
	1	49	13.14		0
	25	0	12.82	0-2	0
	25	12	12.80		0
	25	25	12.86		0
	50	0	12.84		0
64QAM	1	0	12.95	0-2	0
	1	25	13.06		0
	1	49	13.12		0
	25	0	12.81	0-3	0
	25	12	12.79		0
	25	25	12.84		0
	50	0	12.82		0

Table 8-256
LTE Band 30 Conducted Powers Ant 3A - 5 MHz Bandwidth

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**13.03**	0	0
	1	12	13.11		0
	1	24	13.10		0
	12	0	**13.01**	0-1	0
	12	6	13.01		0
	12	13	12.89		0
	25	0	13.05		0
16QAM	1	0	13.09	0-1	0
	1	12	13.15		0
	1	24	13.19		0
	12	0	12.76	0-2	0
	12	6	12.78		0
	12	13	12.64		0
	25	0	12.84		0
64QAM	1	0	12.99	0-2	0
	1	12	13.10		0
	1	24	13.16		0
	12	0	12.72	0-3	0
	12	6	12.73		0
	12	13	12.63		0
	25	0	12.84		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 3A - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	9.88	0	0
	1	25	**10.04**		0
	1	49	9.94		0
	25	0	9.96	0-1	0
	25	12	10.01		0
	25	25	**10.15**		0
	50	0	10.03		0
16QAM	1	0	9.85	0-1	0
	1	25	10.19		0
	1	49	9.69		0
	25	0	9.85	0-2	0
	25	12	9.53		0
	25	25	9.58		0
	50	0	9.55		0
64QAM	1	0	10.15	0-2	0
	1	25	10.09		0
	1	49	10.20		0
	25	0	9.78	0-3	0
	25	12	9.80		0
	25	25	9.91		0
	50	0	9.86		0

Table 8-258
LTE Band 30 Conducted Powers Ant 3A - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 30 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	10.06	0	0
	1	12	10.09		0
	1	24	10.11		0
	12	0	10.05	0-1	0
	12	6	10.01		0
	12	13	9.92		0
	25	0	10.11		0
16QAM	1	0	10.05	0-1	0
	1	12	10.09		0
	1	24	10.07		0
	12	0	9.53	0-2	0
	12	6	9.46		0
	12	13	9.39		0
	25	0	9.50		0
64QAM	1	0	10.00	0-2	0
	1	12	10.03		0
	1	24	10.10		0
	12	0	9.53	0-3	0
	12	6	9.46		0
	12	13	9.37		0
	25	0	9.52		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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8.3.12 LTE Band 7

Table 8-259
LTE Band 7 Conducted Powers Ant 4 - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.52	13.61	13.18	0	0
	1	50	**13.64**	13.41	13.36		0
	1	99	13.48	13.35	13.63		0
	50	0	13.63	13.40	13.40	0-1	0
	50	25	13.69	13.32	13.44		0
	50	50	**13.70**	13.26	13.48		0
	100	0	13.62	13.33	13.39		0
16QAM	1	0	13.47	13.36	13.12	0-1	0
	1	50	13.61	13.25	13.22		0
	1	99	13.46	13.23	13.44		0
	50	0	13.31	13.11	13.06	0-2	0
	50	25	13.35	13.15	13.05		0
	50	50	13.44	13.13	13.20		0
	100	0	13.32	13.08	13.09		0
64QAM	1	0	13.42	13.36	13.18	0-2	0
	1	50	13.64	13.16	13.34		0
	1	99	13.57	13.09	13.51		0
	50	0	13.23	13.08	13.14	0-3	0
	50	25	13.34	13.02	13.16		0
	50	50	13.43	12.97	13.23		0
	100	0	13.34	13.01	13.16		0

Table 8-260
LTE Band 7 Conducted Powers Ant 4 - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.44	13.43	13.25	0	0
	1	36	13.48	13.42	13.39		0
	1	74	13.49	13.42	13.47		0
	36	0	13.63	13.36	13.46	0-1	0
	36	18	13.61	13.40	13.47		0
	36	37	13.63	13.37	13.52		0
	75	0	13.60	13.38	13.42		0
16QAM	1	0	13.70	13.53	13.63	0-1	0
	1	36	13.70	13.59	13.69		0
	1	74	13.70	13.52	13.70		0
	36	0	13.54	13.29	13.51	0-2	0
	36	18	13.58	13.34	13.54		0
	36	37	13.63	13.41	13.56		0
	75	0	13.55	13.34	13.52		0
64QAM	1	0	13.70	13.43	13.56	0-2	0
	1	36	13.66	13.34	13.49		0
	1	74	13.70	13.51	13.61		0
	36	0	13.66	13.31	13.54	0-3	0
	36	18	13.67	13.36	13.53		0
	36	37	13.70	13.43	13.56		0
	75	0	13.65	13.35	13.47		0

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Table 8-261
LTE Band 7 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.50	13.14	13.44	0	0
	1	25	13.53	13.13	13.35		0
	1	49	13.45	13.27	13.46		0
	25	0	13.61	13.21	13.45	0-1	0
	25	12	13.61	13.24	13.47		0
	25	25	13.53	13.32	13.51		0
	50	0	13.61	13.29	13.51		0
16QAM	1	0	13.70	13.59	13.70	0-1	0
	1	25	13.70	13.55	13.70		0
	1	49	13.70	13.63	13.70		0
	25	0	13.61	13.31	13.48	0-2	0
	25	12	13.61	13.25	13.50		0
	25	25	13.57	13.38	13.49		0
	50	0	13.61	13.34	13.53		0
64QAM	1	0	13.70	13.49	13.70	0-2	0
	1	25	13.70	13.54	13.70		0
	1	49	13.70	13.57	13.70		0
	25	0	13.69	13.29	13.60	0-3	0
	25	12	13.68	13.33	13.64		0
	25	25	13.69	13.39	13.59		0
	50	0	13.69	13.35	13.64		0

Table 8-262
LTE Band 7 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.47	13.25	13.31	0	0
	1	12	13.51	13.23	13.35		0
	1	24	13.59	13.35	13.42		0
	12	0	13.39	13.20	13.46	0-1	0
	12	6	13.44	13.15	13.44		0
	12	13	13.47	13.15	13.48		0
	25	0	13.45	13.17	13.46		0
16QAM	1	0	13.70	13.62	13.70	0-1	0
	1	12	13.63	13.43	13.70		0
	1	24	13.70	13.70	13.70		0
	12	0	13.45	13.22	13.49	0-2	0
	12	6	13.40	13.15	13.47		0
	12	13	13.41	13.20	13.48		0
	25	0	13.39	13.15	13.44		0
64QAM	1	0	13.69	13.32	13.70	0-2	0
	1	12	13.70	13.08	13.70		0
	1	24	13.70	13.41	13.70		0
	12	0	13.45	13.17	13.48	0-3	0
	12	6	13.43	13.12	13.52		0
	12	13	13.51	13.20	13.50		0
	25	0	13.42	13.18	13.48		0

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Table 8-263
LTE Band 7 Conducted Powers Ant 4 - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.53	10.61	10.56	0	0
	1	50	10.66	10.19	10.56		0
	1	99	**10.67**	10.43	10.61		0
	50	0	**10.63**	10.35	10.50	0-1	0
	50	25	10.58	10.21	10.60		0
	50	50	10.61	10.27	10.53		0
	100	0	10.59	10.42	10.59		0
16QAM	1	0	10.55	10.31	10.36	0-1	0
	1	50	10.70	10.10	10.69		0
	1	99	10.48	10.27	10.70		0
	50	0	10.40	10.10	10.25	0-2	0
	50	25	10.44	10.12	10.40		0
	50	50	10.42	10.12	10.39		0
	100	0	10.37	10.13	10.36		0
64QAM	1	0	10.34	10.16	10.46	0-2	0
	1	50	10.59	9.78	10.60		0
	1	99	10.55	10.45	10.27		0
	50	0	10.17	9.99	10.20	0-3	0
	50	25	10.10	9.99	10.23		0
	50	50	10.15	10.07	10.12		0
	100	0	10.13	10.02	10.20		0

Table 8-264
LTE Band 7 Conducted Powers Ant 4 - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.41	10.28	10.45	0	0
	1	36	10.63	10.04	10.70		0
	1	74	10.59	9.99	10.49		0
	36	0	10.47	10.29	10.62	0-1	0
	36	18	10.41	10.32	10.62		0
	36	37	10.38	10.29	10.60		0
	75	0	10.38	10.30	10.58		0
16QAM	1	0	10.28	10.07	10.25	0-1	0
	1	36	10.35	9.86	10.42		0
	1	74	10.46	9.92	10.39		0
	36	0	10.21	9.99	10.26	0-2	0
	36	18	10.23	10.08	10.29		0
	36	37	10.27	10.09	10.26		0
	75	0	10.22	10.12	10.24		0
64QAM	1	0	10.29	10.28	10.14	0-2	0
	1	36	10.53	9.88	10.70		0
	1	74	10.65	9.97	10.48		0
	36	0	10.15	9.94	10.20	0-3	0
	36	18	10.09	9.90	10.17		0
	36	37	10.09	9.86	10.15		0
	75	0	10.09	9.91	10.13		0

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Table 8-265
LTE Band 7 Conducted Powers Ant 4 - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.62	10.29	10.58	0	0
	1	25	10.70	10.04	10.35		0
	1	49	10.69	10.08	10.42		0
	25	0	10.60	10.27	10.43	0-1	0
	25	12	10.62	10.11	10.42		0
	25	25	10.57	10.11	10.21		0
	50	0	10.63	10.13	10.28		0
16QAM	1	0	10.54	10.09	10.52	0-1	0
	1	25	10.46	10.03	10.36		0
	1	49	10.62	9.89	10.34		0
	25	0	10.37	10.05	10.36	0-2	0
	25	12	10.43	9.93	10.23		0
	25	25	10.42	9.90	10.04		0
	50	0	10.34	9.95	10.17		0
64QAM	1	0	10.47	10.43	10.67	0-2	0
	1	25	10.70	9.89	10.40		0
	1	49	10.60	10.14	10.64		0
	25	0	10.33	9.95	10.31	0-3	0
	25	12	10.41	10.07	10.11		0
	25	25	10.22	10.10	10.27		0
	50	0	10.29	10.12	10.33		0

Table 8-266
LTE Band 7 Conducted Powers Ant 4 - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.46	10.11	10.65	0	0
	1	12	10.50	9.95	10.59		0
	1	24	10.56	10.01	10.65		0
	12	0	10.32	10.05	10.40	0-1	0
	12	6	10.37	9.99	10.36		0
	12	13	10.39	10.00	10.37		0
	25	0	10.37	10.06	10.35		0
16QAM	1	0	10.41	10.07	10.31	0-1	0
	1	12	10.36	9.97	10.38		0
	1	24	10.26	9.88	10.39		0
	12	0	9.99	9.81	10.09	0-2	0
	12	6	9.98	9.66	10.02		0
	12	13	10.04	9.64	10.03		0
	25	0	9.97	9.68	10.06		0
64QAM	1	0	10.41	10.12	10.47	0-2	0
	1	12	10.60	9.88	10.54		0
	1	24	10.63	9.90	10.50		0
	12	0	10.15	9.80	10.22	0-3	0
	12	6	10.11	9.58	10.17		0
	12	13	10.16	9.54	10.21		0
	25	0	10.11	9.59	10.13		0

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Table 8-267
LTE Band 7 Conducted Powers Ant 2A - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.17	14.36	14.51	0	0
	1	50	14.28	14.20	14.09		0
	1	99	**14.52**	14.38	14.35		0
	50	0	14.16	14.39	14.24	0-1	0
	50	25	14.25	14.31	14.09		0
	50	50	**14.48**	14.35	14.20		0
	100	0	14.18	14.14	14.09		0
16QAM	1	0	14.12	14.42	14.47	0-1	0
	1	50	14.24	14.32	14.34		0
	1	99	14.46	14.48	14.52		0
	50	0	13.91	14.24	14.25	0-2	0
	50	25	14.01	14.22	14.22		0
	50	50	14.20	14.23	14.25		0
	100	0	14.07	14.19	14.13		0
64QAM	1	0	14.10	14.52	14.53	0-2	0
	1	50	14.25	14.33	14.36		0
	1	99	14.44	14.58	14.57		0
	50	0	13.91	14.24	14.24	0-3	0
	50	25	14.06	14.20	14.22		0
	50	50	14.20	14.23	14.24		0
	100	0	14.09	14.21	14.13		0

Table 8-268
LTE Band 7 Conducted Powers Ant 2A - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.23	14.19	14.11	0	0
	1	36	14.26	14.24	14.23		0
	1	74	14.24	14.22	14.14		0
	36	0	14.20	14.40	14.14	0-1	0
	36	18	14.30	14.39	14.33		0
	36	37	14.26	14.40	14.28		0
	75	0	14.26	14.37	14.31		0
16QAM	1	0	14.26	14.48	14.41	0-1	0
	1	36	14.47	14.58	14.59		0
	1	74	14.52	14.60	14.59		0
	36	0	13.95	14.23	13.93	0-2	0
	36	18	14.04	14.20	14.16		0
	36	37	14.06	14.27	14.07		0
	75	0	13.97	14.12	14.07		0
64QAM	1	0	14.08	14.60	14.04	0-2	0
	1	36	14.35	14.58	14.37		0
	1	74	14.50	14.55	14.45		0
	36	0	13.96	14.26	13.90	0-3	0
	36	18	14.05	14.24	14.11		0
	36	37	14.02	14.28	14.06		0
	75	0	13.95	14.12	14.06		0

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Table 8-269
LTE Band 7 Conducted Powers Ant 2A - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.18	14.33	14.22	0	0
	1	25	14.23	14.22	14.25		0
	1	49	14.28	14.35	14.30		0
	25	0	14.23	14.42	14.34	0-1	0
	25	12	14.25	14.36	14.31		0
	25	25	14.29	14.44	14.31		0
	50	0	14.29	14.37	14.35		0
16QAM	1	0	14.43	14.56	14.45	0-1	0
	1	25	14.53	14.53	14.44		0
	1	49	14.58	14.59	14.57		0
	25	0	13.98	14.26	14.10	0-2	0
	25	12	14.00	14.17	14.06		0
	25	25	14.10	14.25	14.06		0
	50	0	14.00	14.14	14.04		0
64QAM	1	0	14.28	14.54	14.41	0-2	0
	1	25	14.17	14.53	14.54		0
	1	49	14.44	14.60	14.57		0
	25	0	13.93	14.24	14.15	0-3	0
	25	12	13.93	14.14	14.11		0
	25	25	14.06	14.21	14.12		0
	50	0	13.94	14.12	14.17		0

Table 8-270
LTE Band 7 Conducted Powers Ant 2A - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.27	14.52	14.41	0	0
	1	12	14.31	14.42	14.42		0
	1	24	14.33	14.52	14.46		0
	12	0	14.23	14.47	14.43	0-1	0
	12	6	14.31	14.46	14.44		0
	12	13	14.35	14.47	14.44		0
	25	0	14.31	14.47	14.45		0
16QAM	1	0	14.45	14.57	14.57	0-1	0
	1	12	14.51	14.56	14.56		0
	1	24	14.60	14.55	14.58		0
	12	0	13.87	14.29	14.19	0-2	0
	12	6	13.91	14.28	14.20		0
	12	13	14.00	14.29	14.22		0
	25	0	13.94	14.25	14.20		0
64QAM	1	0	14.14	14.58	14.44	0-2	0
	1	12	14.15	14.46	14.45		0
	1	24	14.26	14.57	14.48		0
	12	0	13.61	13.94	13.86	0-3	0
	12	6	13.67	13.93	13.85		0
	12	13	13.72	13.93	13.90		0
	25	0	13.75	13.91	13.88		0

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Table 8-271
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 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.86	**11.50**	11.10	0	0
	1	50	10.94	11.47	10.85		0
	1	99	11.12	11.46	10.95		0
	50	0	10.78	11.24	11.02	0-1	0
	50	25	10.92	**11.27**	10.96		0
	50	50	11.03	11.14	10.97		0
	100	0	10.91	11.05	10.97		0
16QAM	1	0	11.03	11.35	11.29	0-1	0
	1	50	11.15	11.23	11.14		0
	1	99	11.02	11.23	11.06		0
	50	0	10.81	11.13	10.93	0-2	0
	50	25	10.97	11.16	10.80		0
	50	50	11.02	11.21	10.79		0
	100	0	10.97	11.13	10.90		0
64QAM	1	0	11.02	11.25	11.12	0-2	0
	1	50	11.25	11.25	10.90		0
	1	99	11.18	11.22	11.13		0
	50	0	10.81	11.17	10.99	0-3	0
	50	25	10.96	11.18	10.93		0
	50	50	11.01	11.21	10.93		0
	100	0	10.94	11.15	10.93		0

Table 8-272
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 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.80	11.24	11.11	0	0
	1	36	10.85	11.23	11.18		0
	1	74	10.99	11.27	11.13		0
	36	0	11.02	11.12	11.12	0-1	0
	36	18	11.12	11.16	11.25		0
	36	37	11.13	11.15	11.25		0
	75	0	11.10	11.13	11.24		0
16QAM	1	0	10.76	11.43	11.22	0-1	0
	1	36	10.75	11.34	11.08		0
	1	74	11.20	11.43	11.17		0
	36	0	10.53	11.07	10.88	0-2	0
	36	18	10.73	11.13	10.99		0
	36	37	10.77	11.15	10.98		0
	75	0	10.74	11.10	11.01		0
64QAM	1	0	10.89	11.22	11.17	0-2	0
	1	36	10.72	11.23	11.16		0
	1	74	10.93	11.26	11.06		0
	36	0	10.52	11.13	10.94	0-3	0
	36	18	10.71	11.17	11.06		0
	36	37	10.76	11.16	11.04		0
	75	0	10.72	11.11	11.04		0

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Table 8-273
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 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.88	11.12	11.06	0	0
	1	25	10.73	11.00	11.12		0
	1	49	10.86	11.08	11.20		0
	25	0	10.85	11.12	11.20	0-1	0
	25	12	10.87	11.11	11.20		0
	25	25	10.93	11.14	11.24		0
	50	0	10.90	11.13	11.21		0
16QAM	1	0	11.01	10.96	11.02	0-1	0
	1	25	10.68	10.87	11.20		0
	1	49	11.05	11.12	11.09		0
	25	0	10.59	10.89	10.92	0-2	0
	25	12	10.64	10.90	10.92		0
	25	25	10.79	10.92	10.97		0
	50	0	10.69	10.90	10.97		0
64QAM	1	0	11.02	10.82	11.04	0-2	0
	1	25	10.84	10.92	11.07		0
	1	49	10.91	10.91	11.17		0
	25	0	10.67	10.90	10.95	0-3	0
	25	12	10.66	10.91	10.98		0
	25	25	10.77	10.92	10.99		0
	50	0	10.68	10.93	10.96		0

Table 8-274
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 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.09	11.25	10.77	0	0
	1	12	10.92	11.28	10.80		0
	1	24	10.97	11.33	10.86		0
	12	0	10.88	11.19	10.89	0-1	0
	12	6	10.77	11.21	10.93		0
	12	13	10.68	11.19	10.94		0
	25	0	10.74	11.18	10.93		0
16QAM	1	0	10.96	11.25	10.90	0-1	0
	1	12	10.82	11.04	10.99		0
	1	24	11.06	11.15	10.97		0
	12	0	10.61	10.82	10.63	0-2	0
	12	6	10.53	10.84	10.72		0
	12	13	10.42	10.88	10.75		0
	25	0	10.43	10.80	10.72		0
64QAM	1	0	10.59	11.05	10.87	0-2	0
	1	12	10.69	11.19	11.10		0
	1	24	10.77	11.30	11.15		0
	12	0	10.54	10.83	10.64	0-3	0
	12	6	10.46	10.85	10.61		0
	12	13	10.42	10.79	10.74		0
	25	0	10.44	10.84	10.62		0

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Table 8-275
LTE Band 7 Conducted Powers Ant 1A - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.45	**13.84**	13.51	0	0
	1	50	13.60	13.53	13.20		0
	1	99	13.76	13.62	13.49		0
	50	0	13.50	13.63	13.41	0-1	0
	50	25	13.61	13.58	13.27		0
	50	50	13.59	**13.64**	13.40		0
	100	0	13.58	13.60	13.32		0
16QAM	1	0	13.50	13.64	13.62	0-1	0
	1	50	13.68	13.38	13.23		0
	1	99	13.82	13.54	13.45		0
	50	0	13.35	13.45	13.26	0-2	0
	50	25	13.38	13.38	13.11		0
	50	50	13.41	13.45	13.16		0
	100	0	13.36	13.36	13.15		0
64QAM	1	0	13.22	13.60	13.58	0-2	0
	1	50	13.43	13.39	13.31		0
	1	99	13.61	13.44	13.46		0
	50	0	13.26	13.41	13.20	0-3	0
	50	25	13.42	13.38	13.05		0
	50	50	13.45	13.43	13.15		0
	100	0	13.40	13.38	13.11		0

Table 8-276
LTE Band 7 Conducted Powers Ant 1A - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.44	13.64	13.30	0	0
	1	36	13.65	13.63	13.28		0
	1	74	13.71	13.61	13.33		0
	36	0	13.35	13.68	13.31	0-1	0
	36	18	13.57	13.68	13.38		0
	36	37	13.67	13.69	13.40		0
	75	0	13.55	13.66	13.41		0
16QAM	1	0	13.69	13.86	13.71	0-1	0
	1	36	13.90	13.84	13.65		0
	1	74	13.90	13.80	13.61		0
	36	0	13.53	13.62	13.36	0-2	0
	36	18	13.75	13.62	13.43		0
	36	37	13.80	13.67	13.43		0
	75	0	13.61	13.61	13.43		0
64QAM	1	0	13.61	13.86	13.53	0-2	0
	1	36	13.87	13.82	13.55		0
	1	74	13.67	13.84	13.65		0
	36	0	13.46	13.71	13.35	0-3	0
	36	18	13.68	13.72	13.46		0
	36	37	13.74	13.72	13.47		0
	75	0	13.62	13.66	13.42		0

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Table 8-277
LTE Band 7 Conducted Powers Ant 1A - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.51	13.73	13.17	0	0
	1	25	13.43	13.69	13.25		0
	1	49	13.61	13.73	13.37		0
	25	0	13.49	13.83	13.35	0-1	0
	25	12	13.51	13.75	13.38		0
	25	25	13.64	13.79	13.43		0
	50	0	13.52	13.77	13.38		0
16QAM	1	0	13.59	13.90	13.39	0-1	0
	1	25	13.46	13.76	13.66		0
	1	49	13.90	13.90	13.72		0
	25	0	13.36	13.71	13.34	0-2	0
	25	12	13.43	13.71	13.37		0
	25	25	13.60	13.74	13.48		0
	50	0	13.42	13.69	13.42		0
64QAM	1	0	13.67	13.87	13.40	0-2	0
	1	25	13.43	13.77	13.49		0
	1	49	13.76	13.90	13.56		0
	25	0	13.46	13.71	13.35	0-3	0
	25	12	13.48	13.63	13.38		0
	25	25	13.61	13.67	13.46		0
	50	0	13.47	13.71	13.42		0

Table 8-278
LTE Band 7 Conducted Powers Ant 1A - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.36	13.66	13.20	0	0
	1	12	13.28	13.54	13.27		0
	1	24	13.38	13.66	13.32		0
	12	0	13.31	13.44	13.30	0-1	0
	12	6	13.23	13.45	13.29		0
	12	13	13.23	13.48	13.36		0
	25	0	13.26	13.48	13.34		0
16QAM	1	0	13.65	13.90	13.50	0-1	0
	1	12	13.58	13.70	13.69		0
	1	24	13.73	13.90	13.71		0
	12	0	13.41	13.60	13.26	0-2	0
	12	6	13.37	13.63	13.27		0
	12	13	13.27	13.60	13.34		0
	25	0	13.35	13.57	13.23		0
64QAM	1	0	13.69	13.90	13.45	0-2	0
	1	12	13.70	13.58	13.42		0
	1	24	13.62	13.90	13.62		0
	12	0	13.37	13.65	13.28	0-3	0
	12	6	13.27	13.60	13.34		0
	12	13	13.35	13.64	13.32		0
	25	0	13.32	13.63	13.28		0

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Table 8-279
LTE Band 7 Conducted Powers Ant 1A - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.54	**10.90**	10.81	0	0
	1	50	10.74	10.67	10.37		0
	1	99	10.69	10.83	10.67		0
	50	0	10.77	10.66	10.60	0-1	0
	50	25	10.78	**10.79**	10.44		0
	50	50	10.76	10.76	10.53		0
	100	0	10.70	10.67	10.47		0
16QAM	1	0	10.50	10.77	10.53	0-1	0
	1	50	10.60	10.59	10.14		0
	1	99	10.57	10.74	10.31		0
	50	0	10.03	10.28	10.20	0-2	0
	50	25	10.10	10.27	10.10		0
	50	50	10.21	10.38	10.12		0
	100	0	10.10	10.22	10.08		0
64QAM	1	0	10.24	10.66	10.36	0-2	0
	1	50	10.30	10.59	9.85		0
	1	99	10.36	10.75	10.06		0
	50	0	10.15	10.29	10.10	0-3	0
	50	25	10.21	10.30	9.93		0
	50	50	10.30	10.46	9.97		0
	100	0	10.21	10.30	9.97		0

Table 8-280
LTE Band 7 Conducted Powers Ant 1A - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.44	10.73	10.69	0	0
	1	36	10.44	10.79	10.43		0
	1	74	10.60	10.86	10.65		0
	36	0	10.53	10.88	10.48	0-1	0
	36	18	10.56	10.89	10.31		0
	36	37	10.64	10.89	10.43		0
	75	0	10.54	10.86	10.26		0
16QAM	1	0	10.42	10.66	10.37	0-1	0
	1	36	10.39	10.72	10.37		0
	1	74	10.47	10.80	10.46		0
	36	0	10.09	10.41	10.17	0-2	0
	36	18	10.13	10.45	10.04		0
	36	37	10.21	10.56	10.15		0
	75	0	10.11	10.42	10.01		0
64QAM	1	0	10.27	10.82	10.37	0-2	0
	1	36	10.23	10.64	10.26		0
	1	74	10.34	10.69	10.35		0
	36	0	10.26	10.27	10.23	0-3	0
	36	18	10.34	10.31	10.14		0
	36	37	10.36	10.41	10.22		0
	75	0	10.26	10.26	10.06		0

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Table 8-281
LTE Band 7 Conducted Powers Ant 1A - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.51	10.71	10.63	0	0
	1	25	10.45	10.68	10.62		0
	1	49	10.49	10.85	10.73		0
	25	0	10.58	10.85	10.48	0-1	0
	25	12	10.57	10.80	10.63		0
	25	25	10.53	10.89	10.78		0
	50	0	10.59	10.82	10.65		0
16QAM	1	0	10.39	10.46	10.39	0-1	0
	1	25	10.31	10.48	10.20		0
	1	49	10.32	10.63	10.38		0
	25	0	10.15	10.33	10.01	0-2	0
	25	12	10.20	10.27	10.09		0
	25	25	10.16	10.39	10.20		0
	50	0	10.23	10.30	10.09		0
64QAM	1	0	10.41	10.44	10.21	0-2	0
	1	25	10.21	10.54	10.11		0
	1	49	10.12	10.51	10.28		0
	25	0	10.19	10.32	10.02	0-3	0
	25	12	10.20	10.32	10.09		0
	25	25	10.18	10.33	10.22		0
	50	0	10.21	10.29	10.10		0

Table 8-282
LTE Band 7 Conducted Powers Ant 1A - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	10.50	10.87	10.20	0	0
	1	12	10.40	10.90	10.28		0
	1	24	10.43	10.86	10.38		0
	12	0	10.41	10.77	10.36	0-1	0
	12	6	10.34	10.74	10.46		0
	12	13	10.38	10.77	10.50		0
	25	0	10.39	10.76	10.46		0
16QAM	1	0	10.35	10.76	10.08	0-1	0
	1	12	10.20	10.52	10.22		0
	1	24	10.08	10.63	10.28		0
	12	0	10.03	10.20	9.80	0-2	0
	12	6	9.94	10.22	9.87		0
	12	13	9.97	10.20	9.88		0
	25	0	9.91	10.19	9.86		0
64QAM	1	0	10.20	10.59	10.19	0-2	0
	1	12	10.09	10.31	10.32		0
	1	24	10.24	10.67	10.36		0
	12	0	10.04	10.27	9.87	0-3	0
	12	6	9.87	10.22	9.85		0
	12	13	9.93	10.18	9.86		0
	25	0	9.94	10.11	9.88		0

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Table 8-283
LTE Band 7 Conducted Powers Ant 3A - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.26	**11.69**	11.65	0	0
	1	50	11.40	11.62	11.31		0
	1	99	11.48	11.56	11.56		0
	50	0	11.50	11.61	11.41	0-1	0
	50	25	11.58	**11.62**	11.34		0
	50	50	11.60	11.61	11.38		0
	100	0	11.57	11.61	11.32		0
16QAM	1	0	11.62	11.48	11.87	0-1	0
	1	50	11.71	11.48	11.47		0
	1	99	11.66	11.67	11.78		0
	50	0	11.64	11.51	11.38	0-2	0
	50	25	11.62	11.56	11.31		0
	50	50	11.51	11.61	11.36		0
	100	0	11.60	11.54	11.29		0
64QAM	1	0	11.62	11.62	11.72	0-2	0
	1	50	11.75	11.58	11.37		0
	1	99	11.67	11.60	11.67		0
	50	0	11.56	11.52	11.37	0-3	0
	50	25	11.61	11.57	11.31		0
	50	50	11.53	11.58	11.35		0
	100	0	11.60	11.53	11.31		0

Table 8-284
LTE Band 7 Conducted Powers Ant 3A - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.39	11.57	11.20	0	0
	1	36	11.49	11.63	11.23		0
	1	74	11.45	11.58	11.41		0
	36	0	11.62	11.52	11.27	0-1	0
	36	18	11.58	11.56	11.30		0
	36	37	11.62	11.55	11.39		0
	75	0	11.50	11.51	11.28		0
16QAM	1	0	11.62	11.65	11.51	0-1	0
	1	36	11.84	11.77	11.65		0
	1	74	11.77	11.74	11.70		0
	36	0	11.60	11.54	11.36	0-2	0
	36	18	11.61	11.58	11.37		0
	36	37	11.61	11.59	11.44		0
	75	0	11.57	11.56	11.35		0
64QAM	1	0	11.65	11.40	11.49	0-2	0
	1	36	11.71	11.46	11.43		0
	1	74	11.65	11.56	11.59		0
	36	0	11.59	11.56	11.36	0-3	0
	36	18	11.59	11.61	11.41		0
	36	37	11.61	11.57	11.49		0
	75	0	11.55	11.55	11.36		0

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Table 8-285
LTE Band 7 Conducted Powers Ant 3A - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.45	11.41	11.21	0	0
	1	25	11.43	11.40	11.25		0
	1	49	11.46	11.48	11.46		0
	25	0	11.61	11.51	11.31	0-1	0
	25	12	11.55	11.52	11.35		0
	25	25	11.49	11.54	11.54		0
	50	0	11.50	11.52	11.38		0
16QAM	1	0	11.65	11.84	11.32	0-1	0
	1	25	11.58	11.72	11.58		0
	1	49	11.87	11.80	11.78		0
	25	0	11.63	11.57	11.27	0-2	0
	25	12	11.57	11.64	11.34		0
	25	25	11.51	11.64	11.56		0
	50	0	11.52	11.65	11.34		0
64QAM	1	0	11.60	11.71	11.36	0-2	0
	1	25	11.60	11.82	11.43		0
	1	49	11.73	11.93	11.84		0
	25	0	11.56	11.67	11.28	0-3	0
	25	12	11.53	11.64	11.38		0
	25	25	11.51	11.68	11.58		0
	50	0	11.51	11.63	11.38		0

Table 8-286
LTE Band 7 Conducted Powers Ant 3A - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.37	11.52	11.08	0	0
	1	12	11.52	11.46	11.25		0
	1	24	11.52	11.51	11.30		0
	12	0	11.31	11.47	11.31	0-1	0
	12	6	11.34	11.47	11.38		0
	12	13	11.42	11.47	11.39		0
	25	0	11.37	11.46	11.40		0
16QAM	1	0	11.81	11.63	11.61	0-1	0
	1	12	11.89	11.56	11.77		0
	1	24	11.75	11.50	11.76		0
	12	0	11.44	11.48	11.30	0-2	0
	12	6	11.54	11.45	11.44		0
	12	13	11.59	11.42	11.53		0
	25	0	11.47	11.40	11.40		0
64QAM	1	0	11.31	11.48	11.60	0-2	0
	1	12	11.63	11.51	11.81		0
	1	24	11.58	11.79	11.64		0
	12	0	11.29	11.39	11.26	0-3	0
	12	6	11.43	11.42	11.42		0
	12	13	11.42	11.37	11.48		0
	25	0	11.41	11.45	11.38		0

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Table 8-287
LTE Band 7 Conducted Powers Ant 3A - 20 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	8.60	**9.00**	8.76	0	0
	1	50	8.68	8.93	8.51		0
	1	99	8.72	8.77	8.53		0
	50	0	8.65	8.52	8.56	0-1	0
	50	25	**8.76**	8.45	8.54		0
	50	50	8.71	8.62	8.57		0
	100	0	8.70	8.50	8.51		0
16QAM	1	0	8.54	8.84	9.00	0-1	0
	1	50	8.47	8.47	8.82		0
	1	99	8.72	8.53	8.79		0
	50	0	8.58	8.52	8.62	0-2	0
	50	25	8.67	8.51	8.52		0
	50	50	8.63	8.55	8.55		0
	100	0	8.61	8.47	8.50		0
64QAM	1	0	9.00	8.99	8.87	0-2	0
	1	50	8.98	8.66	8.58		0
	1	99	8.86	8.58	8.76		0
	50	0	8.55	8.54	8.62	0-3	0
	50	25	8.67	8.53	8.51		0
	50	50	8.63	8.55	8.55		0
	100	0	8.64	8.50	8.49		0

Table 8-288
LTE Band 7 Conducted Powers Ant 3A - 15 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20825 (2507.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21375 (2562.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	8.56	8.83	8.80	0	0
	1	36	8.46	8.82	8.67		0
	1	74	8.46	8.91	8.72		0
	36	0	8.66	8.71	8.82	0-1	0
	36	18	8.80	8.76	8.77		0
	36	37	8.84	8.77	8.80		0
	75	0	8.77	8.73	8.77		0
16QAM	1	0	8.51	8.89	8.69	0-1	0
	1	36	8.40	8.90	8.45		0
	1	74	8.29	9.00	8.62		0
	36	0	8.23	8.66	8.36	0-2	0
	36	18	8.37	8.72	8.29		0
	36	37	8.37	8.75	8.36		0
	75	0	8.37	8.68	8.33		0
64QAM	1	0	8.60	9.00	8.79	0-2	0
	1	36	8.19	8.92	8.41		0
	1	74	8.34	8.94	8.63		0
	36	0	8.23	8.70	8.40	0-3	0
	36	18	8.36	8.76	8.32		0
	36	37	8.31	8.73	8.37		0
	75	0	8.34	8.70	8.28		0

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Table 8-289
LTE Band 7 Conducted Powers Ant 3A - 10 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20800 (2505.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21400 (2565.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	8.70	8.67	8.59	0	0
	1	25	8.47	8.67	8.66		0
	1	49	8.56	8.72	8.82		0
	25	0	8.53	8.78	8.65	0-1	0
	25	12	8.54	8.78	8.72		0
	25	25	8.76	8.78	8.86		0
	50	0	8.75	8.79	8.76		0
16QAM	1	0	8.73	8.79	8.52	0-1	0
	1	25	8.42	8.68	8.56		0
	1	49	8.54	8.79	8.62		0
	25	0	8.28	8.55	8.34	0-2	0
	25	12	8.26	8.56	8.39		0
	25	25	8.56	8.61	8.48		0
	50	0	8.48	8.57	8.41		0
64QAM	1	0	8.89	8.73	8.38	0-2	0
	1	25	8.62	8.76	8.47		0
	1	49	8.72	8.72	8.58		0
	25	0	8.44	8.60	8.37	0-3	0
	25	12	8.48	8.58	8.41		0
	25	25	8.55	8.62	8.51		0
	50	0	8.50	8.54	8.39		0

Table 8-290
LTE Band 7 Conducted Powers Ant 3A - 5 MHz Bandwidth, Inter-band ULCA Active

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20775 (2502.5 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21425 (2567.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	8.76	8.84	8.19	0	0
	1	12	8.53	8.84	8.22		0
	1	24	8.41	8.78	8.27		0
	12	0	8.49	8.75	8.31	0-1	0
	12	6	8.43	8.75	8.44		0
	12	13	8.34	8.79	8.45		0
	25	0	8.36	8.76	8.43		0
16QAM	1	0	8.97	8.63	8.50	0-1	0
	1	12	8.72	8.68	8.42		0
	1	24	8.46	8.65	8.57		0
	12	0	8.42	8.42	8.11	0-2	0
	12	6	8.32	8.38	8.21		0
	12	13	8.22	8.33	8.20		0
	25	0	8.11	8.39	8.11		0
64QAM	1	0	8.74	8.38	8.18	0-2	0
	1	12	8.29	8.62	8.46		0
	1	24	8.25	8.67	8.39		0
	12	0	8.41	8.39	8.00	0-3	0
	12	6	8.20	8.30	8.15		0
	12	13	8.11	8.43	8.16		0
	25	0	8.17	8.32	8.30		0

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8.3.13 LTE Band 41

Table 8-291
LTE Band 41 Conducted Powers Ant 4 - 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	15.32	**15.52**	15.09	15.30	15.26	0	0
	1	50	15.37	15.36	15.16	15.27	15.16		0
	1	99	15.50	15.37	15.24	15.28	15.18		0
	50	0	15.36	**15.49**	15.21	15.32	15.26	0-1	0
	50	25	15.45	15.38	15.21	15.32	15.19		0
	50	50	15.48	15.37	15.22	15.36	15.18		0
	100	0	15.43	15.44	15.19	15.32	15.17		0
16QAM	1	0	15.45	15.37	15.33	15.34	15.16	0-1	0
	1	50	15.37	15.33	15.32	15.44	15.10		0
	1	99	15.51	15.27	15.34	15.35	15.11		0
	50	0	15.41	15.48	15.23	15.36	15.27	0-2	0
	50	25	15.48	15.40	15.24	15.38	15.23		0
	50	50	15.55	15.39	15.26	15.38	15.22		0
	100	0	15.48	15.34	15.22	15.35	15.20		0
64QAM	1	0	15.45	15.40	15.07	15.41	15.30	0-2	0
	1	50	15.51	15.34	15.11	15.38	15.23		0
	1	99	15.60	15.33	15.25	15.35	15.22		0
	50	0	15.50	15.46	15.25	15.41	15.31	0-3	0
	50	25	15.58	15.38	15.25	15.40	15.25		0
	50	50	15.60	15.37	15.27	15.42	15.26		0
	100	0	15.57	15.36	15.21	15.35	15.24		0

Table 8-292
LTE Band 41 Conducted Powers Ant 4 - 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	15.53	15.38	15.33	15.49	15.36	0	0
	1	36	15.60	15.52	15.53	15.57	15.47		0
	1	74	15.50	15.37	15.53	15.52	15.42		0
	36	0	15.57	15.44	15.37	15.55	15.41	0-1	0
	36	18	15.60	15.55	15.49	15.58	15.47		0
	36	37	15.54	15.49	15.48	15.60	15.40		0
	75	0	15.51	15.50	15.45	15.50	15.39		0
16QAM	1	0	15.55	15.29	15.35	15.49	15.35	0-1	0
	1	36	15.51	15.33	15.47	15.33	15.58		0
	1	74	15.54	15.23	15.42	15.44	15.41		0
	36	0	15.59	15.50	15.37	15.55	15.32	0-2	0
	36	18	15.59	15.57	15.49	15.58	15.45		0
	36	37	15.57	15.49	15.46	15.60	15.40		0
	75	0	15.54	15.47	15.43	15.55	15.41		0
64QAM	1	0	15.60	15.35	15.18	15.46	15.40	0-2	0
	1	36	15.60	15.57	15.58	15.44	15.58		0
	1	74	15.46	15.34	15.60	15.39	15.45		0
	36	0	15.55	15.50	15.41	15.53	15.44	0-3	0
	36	18	15.57	15.60	15.53	15.60	15.49		0
	36	37	15.54	15.56	15.46	15.60	15.42		0
	75	0	15.55	15.48	15.43	15.52	15.42		0

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Table 8-293
LTE Band 41 Conducted Powers Ant 4 - 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	15.54	15.43	15.33	15.51	15.38	0	0
	1	25	15.55	15.51	15.40	15.58	15.40		0
	1	49	15.57	15.45	15.52	15.53	15.42		0
	25	0	15.57	15.55	15.33	15.55	15.42	0-1	1
	25	12	15.49	15.43	15.42	15.54	15.40		1
	25	25	15.50	15.41	15.43	15.60	15.40		1
	50	0	15.50	15.43	15.41	15.55	15.41		1
16QAM	1	0	15.51	15.17	15.58	15.44	15.36	0-1	1
	1	25	15.55	15.52	15.47	15.58	15.31		1
	1	49	15.57	15.28	15.55	15.51	15.47		1
	25	0	15.53	15.60	15.38	15.51	15.43	0-2	2
	25	12	15.52	15.55	15.44	15.54	15.43		2
	25	25	15.51	15.54	15.49	15.60	15.44		2
	50	0	15.52	15.55	15.43	15.54	15.41		2
64QAM	1	0	15.56	15.26	15.48	15.40	15.55	0-2	2
	1	25	15.53	15.49	15.48	15.50	15.45		2
	1	49	15.60	15.31	15.60	15.53	15.60		2
	25	0	15.60	15.60	15.38	15.54	15.46	0-3	3
	25	12	15.55	15.59	15.46	15.46	15.42		3
	25	25	15.55	15.45	15.48	15.54	15.43		3
	50	0	15.54	15.46	15.47	15.53	15.44		3

Table 8-294
LTE Band 41 Conducted Powers Ant 4 - 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	15.43	15.40	15.30	15.53	15.26	0	0
	1	12	15.52	15.49	15.38	15.50	15.38		0
	1	24	15.53	15.51	15.47	15.60	15.35		0
	12	0	15.38	15.43	15.24	15.40	15.30	0-1	0
	12	6	15.38	15.44	15.27	15.36	15.32		0
	12	13	15.38	15.33	15.25	15.35	15.31		0
	25	0	15.40	15.33	15.28	15.36	15.30		0
16QAM	1	0	15.38	15.37	15.46	15.54	15.25	0-1	0
	1	12	15.60	15.39	15.42	15.51	15.36		0
	1	24	15.56	15.36	15.48	15.49	15.35		0
	12	0	15.38	15.43	15.17	15.44	15.26	0-2	0
	12	6	15.31	15.44	15.23	15.42	15.29		0
	12	13	15.31	15.31	15.26	15.41	15.26		0
	25	0	15.33	15.34	15.20	15.38	15.28		0
64QAM	1	0	15.60	15.36	15.31	15.51	15.23	0-2	0
	1	12	15.41	15.53	15.42	15.55	15.47		0
	1	24	15.50	15.60	15.38	15.60	15.35		0
	12	0	15.41	15.52	15.26	15.38	15.36	0-3	0
	12	6	15.37	15.41	15.30	15.35	15.27		0
	12	13	15.45	15.35	15.22	15.30	15.24		0
	25	0	15.34	15.34	15.24	15.35	15.31		0

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Table 8-295
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	16.48	16.18	16.01	16.25	16.28	0	0
	1	50	16.49	16.19	16.25	16.33	16.27		0
	1	99	**16.56**	16.37	16.30	16.36	16.21		0
	50	0	16.41	16.39	16.13	16.36	16.29	0-1	0
	50	25	16.42	16.37	16.25	16.39	16.30		0
	50	50	**16.55**	16.36	16.30	16.41	16.32		0
	100	0	16.54	16.31	16.25	16.36	16.34		0
16QAM	1	0	16.27	16.30	15.97	16.16	16.16	0-1	0
	1	50	16.21	16.12	16.01	16.23	16.17		0
	1	99	16.30	16.27	16.12	16.27	16.22		0
	50	0	16.29	16.57	16.07	16.29	16.08	0-2	0
	50	25	16.34	16.30	16.14	16.30	16.13		0
	50	50	16.37	16.26	16.17	16.32	16.18		0
	100	0	16.25	16.22	16.14	16.24	16.12		0
64QAM	1	0	16.26	16.14	15.99	16.18	16.07	0-2	0
	1	50	16.28	16.17	16.18	16.24	16.11		0
	1	99	16.31	16.25	16.23	16.35	16.15		0
	50	0	16.26	16.24	16.09	16.31	16.07	0-3	0
	50	25	16.28	16.28	16.17	16.32	16.13		0
	50	50	16.31	16.32	16.18	16.34	16.15		0
	100	0	16.21	16.25	16.17	16.28	16.13		0

Table 8-296
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	16.18	16.37	16.10	16.29	16.29	0	0
	1	36	16.36	16.34	16.17	16.33	16.32		0
	1	74	16.24	16.24	16.15	16.30	16.24		0
	36	0	16.30	16.35	16.22	16.35	16.39	0-1	0
	36	18	16.42	16.32	16.25	16.38	16.39		0
	36	37	16.40	16.24	16.22	16.34	16.36		0
	75	0	16.40	16.27	16.19	16.34	16.36		0
16QAM	1	0	16.26	16.22	16.20	16.32	16.24	0-1	0
	1	36	16.50	16.08	16.30	16.27	16.51		0
	1	74	16.27	16.08	16.30	16.14	16.42		0
	36	0	16.36	16.53	16.27	16.41	16.46	0-2	0
	36	18	16.51	16.39	16.30	16.39	16.44		0
	36	37	16.45	16.31	16.26	16.41	16.41		0
	75	0	16.46	16.34	16.24	16.39	16.40		0
64QAM	1	0	16.37	16.16	16.36	16.30	16.49	0-2	0
	1	36	16.50	16.18	16.35	16.22	16.41		0
	1	74	16.33	16.10	16.34	16.24	16.48		0
	36	0	16.37	16.40	16.25	16.40	16.45	0-3	0
	36	18	16.49	16.39	16.31	16.43	16.46		0
	36	37	16.45	16.29	16.26	16.42	16.42		0
	75	0	16.46	16.30	16.27	16.41	16.42		0

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Table 8-297
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	16.44	16.29	16.33	16.33	16.37	0	0
	1	25	16.52	16.31	16.31	16.32	16.44		0
	1	49	16.48	16.30	16.32	16.34	16.47		0
	25	0	16.32	16.31	16.23	16.37	16.37	0-1	0
	25	12	16.43	16.30	16.22	16.36	16.36		0
	25	25	16.41	16.30	16.20	16.35	16.37		0
	50	0	16.41	16.29	16.22	16.35	16.37		0
16QAM	1	0	16.35	16.24	16.22	16.35	16.37	0-1	0
	1	25	16.47	16.33	16.30	16.23	16.33		0
	1	49	16.32	16.00	16.25	16.32	16.31		0
	25	0	16.37	16.36	16.29	16.41	16.40	0-2	0
	25	12	16.50	16.29	16.28	16.42	16.41		0
	25	25	16.43	16.38	16.31	16.40	16.39		0
	50	0	16.49	16.36	16.29	16.41	16.42		0
64QAM	1	0	16.45	16.39	16.20	16.35	16.40	0-2	0
	1	25	16.50	16.19	16.23	16.23	16.49		0
	1	49	16.53	16.18	16.23	16.32	16.48		0
	25	0	16.40	16.35	16.26	16.39	16.45	0-3	0
	25	12	16.47	16.38	16.30	16.39	16.42		0
	25	25	16.48	16.34	16.27	16.35	16.42		0
	50	0	16.46	16.37	16.27	16.39	16.44		0

Table 8-298
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	16.35	16.17	16.21	16.22	16.25	0	0
	1	12	16.44	16.27	16.21	16.20	16.38		0
	1	24	16.45	16.25	16.22	16.23	16.39		0
	12	0	16.29	16.16	16.06	16.20	16.24	0-1	0
	12	6	16.27	16.15	16.07	16.20	16.25		0
	12	13	16.28	16.17	16.06	16.22	16.23		0
	25	0	16.30	16.17	16.09	16.24	16.23		0
16QAM	1	0	16.45	16.17	16.12	16.24	16.23	0-1	0
	1	12	16.36	16.22	16.22	16.34	16.33		0
	1	24	16.29	16.19	16.15	16.35	16.42		0
	12	0	16.29	16.22	16.05	16.27	16.23	0-2	0
	12	6	16.28	16.15	16.05	16.30	16.19		0
	12	13	16.30	16.17	16.05	16.17	16.25		0
	25	0	16.28	16.16	16.07	16.24	16.22		0
64QAM	1	0	16.32	16.14	16.29	16.26	16.25	0-2	0
	1	12	16.39	16.29	16.04	16.27	16.40		0
	1	24	16.50	16.51	16.15	16.35	16.44		0
	12	0	16.32	16.22	16.07	16.22	16.25	0-3	0
	12	6	16.31	16.19	16.11	16.23	16.26		0
	12	13	16.36	16.22	16.13	16.22	16.28		0
	25	0	16.31	16.16	16.07	16.24	16.26		0

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Table 8-299
LTE Band 41 Conducted Powers Ant 1A - 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	14.99	14.96	**15.00**	14.97	14.97	0	0
	1	50	14.90	14.94	14.97	14.99	14.96		0
	1	99	14.93	14.95	14.95	14.96	14.98		0
	50	0	14.98	14.87	**15.00**	14.91	14.95	0-1	0
	50	25	14.87	14.94	14.98	14.94	14.94		0
	50	50	14.86	14.92	14.97	14.89	14.94		0
	100	0	14.79	14.94	14.97	14.96	14.93		0
16QAM	1	0	14.77	14.68	14.80	14.89	14.85	0-1	0
	1	50	14.60	14.75	14.85	14.84	14.93		0
	1	99	14.63	14.71	14.83	14.77	15.00		0
	50	0	14.63	14.45	14.58	14.72	14.66	0-2	0
	50	25	14.43	14.54	14.53	14.67	14.74		0
	50	50	14.46	14.49	14.54	14.66	14.75		0
	100	0	14.37	14.53	14.51	14.65	14.67		0
64QAM	1	0	14.60	14.54	14.60	14.77	14.67	0-2	0
	1	50	14.37	14.56	14.56	14.61	14.72		0
	1	99	14.44	14.61	14.73	14.64	14.70		0
	50	0	14.71	14.53	14.64	14.77	14.68	0-3	0
	50	25	14.47	14.62	14.60	14.74	14.77		0
	50	50	14.51	14.58	14.62	14.74	14.78		0
	100	0	14.41	14.60	14.56	14.70	14.73		0

Table 8-300
LTE Band 41 Conducted Powers Ant 1A - 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	14.99	14.76	14.85	14.97	14.90	0	0
	1	36	14.82	14.92	14.93	14.99	14.97		0
	1	74	14.82	14.76	14.95	14.93	14.96		0
	36	0	14.94	14.88	14.95	14.97	14.99	0-1	0
	36	18	14.86	14.98	14.98	14.98	15.00		0
	36	37	14.91	14.88	14.97	14.99	14.99		0
	75	0	14.79	14.94	14.94	15.00	14.98		0
16QAM	1	0	14.83	14.46	14.74	14.66	14.63	0-1	0
	1	36	14.60	14.69	14.77	14.70	14.90		0
	1	74	14.60	14.52	14.80	14.57	14.72		0
	36	0	14.72	14.70	14.76	14.83	14.76	0-2	0
	36	18	14.63	14.81	14.78	14.84	14.87		0
	36	37	14.67	14.71	14.76	14.85	14.85		0
	75	0	14.57	14.76	14.74	14.78	14.84		0
64QAM	1	0	14.92	14.54	14.74	14.69	14.65	0-2	0
	1	36	14.62	14.68	14.81	14.76	14.94		0
	1	74	14.66	14.57	14.83	14.59	14.84		0
	36	0	14.73	14.71	14.75	14.84	14.77	0-3	0
	36	18	14.65	14.81	14.80	14.86	14.88		0
	36	37	14.70	14.71	14.78	14.88	14.85		0
	75	0	14.58	14.75	14.76	14.79	14.85		0

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Table 8-301
LTE Band 41 Conducted Powers Ant 1A - 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	15.00	14.96	14.98	14.99	14.95	0	0
	1	25	14.88	14.98	14.98	14.97	14.99		0
	1	49	14.95	14.93	15.00	14.97	15.00		0
	25	0	14.86	14.97	14.95	14.96	14.97	0-1	0
	25	12	14.83	14.96	14.94	14.95	14.98		0
	25	25	14.90	14.95	14.97	15.00	14.94		0
	50	0	14.83	14.96	14.95	14.99	15.00		0
16QAM	1	0	14.82	14.62	14.78	14.80	14.78	0-1	0
	1	25	14.62	14.63	14.78	14.76	14.87		0
	1	49	14.64	14.62	14.74	14.82	14.81		0
	25	0	14.71	14.80	14.82	14.90	14.91	0-2	0
	25	12	14.68	14.80	14.81	14.88	14.90		0
	25	25	14.73	14.81	14.83	14.93	14.91		0
	50	0	14.67	14.81	14.83	14.88	14.91		0
64QAM	1	0	14.89	14.62	14.82	14.89	14.85	0-2	0
	1	25	14.66	14.63	14.82	14.77	14.96		0
	1	49	14.71	14.65	14.86	14.79	14.93		0
	25	0	14.71	14.81	14.84	14.89	14.92	0-3	0
	25	12	14.68	14.82	14.84	14.85	14.91		0
	25	25	14.75	14.82	14.84	14.90	14.93		0
	50	0	14.69	14.82	14.83	14.87	14.91		0

Table 8-302
LTE Band 41 Conducted Powers Ant 1A - 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	14.86	14.86	14.99	14.90	14.90	0	0
	1	12	14.76	14.96	14.99	14.85	14.97		0
	1	24	14.85	14.99	15.00	14.93	15.00		0
	12	0	14.63	14.85	14.86	14.86	14.90	0-1	0
	12	6	14.64	14.84	14.85	14.84	14.90		0
	12	13	14.68	14.86	14.86	14.83	14.92		0
	25	0	14.66	14.86	14.86	14.86	14.90		0
16QAM	1	0	14.65	14.68	14.82	14.68	14.77	0-1	0
	1	12	14.50	14.68	14.78	14.65	14.74		0
	1	24	14.61	14.68	14.89	14.68	14.87		0
	12	0	14.41	14.63	14.66	14.67	14.70	0-2	0
	12	6	14.40	14.67	14.66	14.62	14.67		0
	12	13	14.45	14.67	14.65	14.62	14.70		0
	25	0	14.41	14.63	14.65	14.62	14.69		0
64QAM	1	0	14.63	14.73	14.87	14.63	14.95	0-2	0
	1	12	14.51	14.78	14.77	14.64	14.85		0
	1	24	14.66	14.87	14.81	14.88	14.90		0
	12	0	14.47	14.69	14.68	14.63	14.75	0-3	0
	12	6	14.47	14.70	14.73	14.63	14.74		0
	12	13	14.49	14.60	14.73	14.63	14.72		0
	25	0	14.42	14.65	14.67	14.63	14.70		0

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Table 8-303
LTE Band 41 Conducted Powers Ant 3A - 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	**14.20**	13.92	14.01	14.15	13.92	0	0
	1	50	14.00	13.99	14.07	13.96	13.98		0
	1	99	13.87	14.05	14.08	13.92	14.03		0
	50	0	**14.12**	13.92	14.09	14.08	13.94	0-1	0
	50	25	14.03	13.95	14.07	13.94	14.04		0
	50	50	13.93	14.08	14.08	13.94	14.03		0
	100	0	13.84	13.97	14.08	13.99	13.98		0
16QAM	1	0	13.98	13.81	13.84	13.72	13.76	0-1	0
	1	50	13.99	13.71	13.70	13.75	13.70		0
	1	99	13.94	13.88	13.95	13.67	13.81		0
	50	0	13.97	13.85	13.88	13.83	13.76	0-2	0
	50	25	13.88	13.78	13.82	13.75	13.69		0
	50	50	13.85	13.77	13.79	13.67	13.71		0
	100	0	13.75	13.75	13.72	13.69	13.64		0
64QAM	1	0	14.11	13.74	13.81	13.78	13.69	0-2	0
	1	50	13.92	13.98	13.71	13.65	13.63		0
	1	99	13.75	13.68	13.85	13.62	13.74		0
	50	0	13.95	13.82	13.74	13.80	13.75	0-3	0
	50	25	13.80	13.79	13.73	13.72	13.70		0
	50	50	13.85	13.81	13.75	13.66	13.74		0
	100	0	13.73	13.76	13.71	13.69	13.63		0

Table 8-304
LTE Band 41 Conducted Powers Ant 3A - 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	14.20	13.75	14.19	14.20	14.08	0	0
	1	36	14.02	13.97	14.17	14.03	14.13		0
	1	74	13.94	13.99	14.15	13.93	14.11		0
	36	0	14.16	13.89	14.20	14.13	14.09	0-1	0
	36	18	14.15	14.01	14.19	14.07	14.16		0
	36	37	14.12	14.00	14.18	13.99	14.14		0
	75	0	14.02	13.99	14.17	14.05	14.13		0
16QAM	1	0	14.10	13.86	14.10	14.16	14.04	0-1	0
	1	36	13.85	13.96	14.11	14.04	14.14		0
	1	74	13.93	13.93	14.07	13.89	14.05		0
	36	0	14.05	14.02	14.20	14.19	14.12	0-2	0
	36	18	14.12	14.09	14.18	14.11	14.17		0
	36	37	14.13	14.05	14.19	13.99	14.17		0
	75	0	14.07	14.06	14.18	14.11	14.12		0
64QAM	1	0	14.15	13.84	14.14	14.15	13.93	0-2	0
	1	36	13.91	13.86	14.13	14.00	14.02		0
	1	74	13.91	13.84	13.91	13.85	13.86		0
	36	0	13.93	13.78	14.06	14.02	13.94	0-3	0
	36	18	14.00	13.85	14.05	13.98	14.01		0
	36	37	13.93	13.88	14.04	13.89	13.99		0
	75	0	13.93	13.84	14.03	13.93	13.97		0

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Table 8-305
LTE Band 41 Conducted Powers Ant 3A - 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	13.99	13.89	14.05	14.00	13.94	0	0
	1	25	13.87	13.84	13.98	13.90	13.96		0
	1	49	13.86	13.85	14.00	13.84	13.95		0
	25	0	13.88	13.88	14.05	13.97	13.97	0-1	0
	25	12	13.90	13.89	14.01	13.96	13.99		0
	25	25	13.91	13.92	14.02	13.88	13.98		0
	50	0	13.87	13.89	14.03	13.94	13.99		0
16QAM	1	0	13.83	13.69	13.83	13.91	13.82	0-1	0
	1	25	13.80	13.69	13.84	13.78	13.90		0
	1	49	13.67	13.82	13.85	13.72	13.81		0
	25	0	13.83	13.82	13.99	13.97	13.98	0-2	0
	25	12	13.88	13.83	13.98	13.95	13.96		0
	25	25	13.89	13.85	13.92	13.82	13.94		0
	50	0	13.86	13.81	13.94	13.91	13.97		0
64QAM	1	0	13.93	13.76	14.13	14.00	13.93	0-2	0
	1	25	13.92	13.81	13.98	13.97	14.01		0
	1	49	13.85	13.80	14.02	13.65	13.95		0
	25	0	13.83	13.80	13.98	13.95	13.95	0-3	0
	25	12	13.87	13.82	13.90	13.93	14.04		0
	25	25	13.90	13.90	13.95	13.81	14.00		0
	50	0	13.88	13.83	13.97	13.92	13.97		0

Table 8-306
LTE Band 41 Conducted Powers Ant 3A - 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	14.07	13.93	14.20	14.07	14.11	0	0
	1	12	14.10	13.88	14.19	14.03	14.10		0
	1	24	14.08	13.99	14.20	13.95	14.13		0
	12	0	14.02	13.83	14.18	14.02	14.07	0-1	0
	12	6	14.05	13.85	14.17	14.00	14.06		0
	12	13	14.08	13.87	14.17	13.95	14.07		0
	25	0	14.04	13.86	14.14	13.96	14.08		0
16QAM	1	0	13.90	13.91	14.05	13.90	13.83	0-1	0
	1	12	13.98	13.95	14.08	13.75	13.79		0
	1	24	13.88	14.13	13.96	13.81	13.82		0
	12	0	13.86	13.92	14.08	13.79	13.77	0-2	0
	12	6	13.89	13.91	14.09	13.78	13.76		0
	12	13	13.86	13.90	14.14	13.77	13.72		0
	25	0	13.86	13.86	14.09	13.79	13.75		0
64QAM	1	0	13.99	13.89	14.19	13.93	13.82	0-2	0
	1	12	14.09	13.99	14.13	13.72	13.99		0
	1	24	14.04	14.09	14.18	13.65	13.90		0
	12	0	13.84	13.89	14.07	13.77	13.85	0-3	0
	12	6	13.92	13.95	14.03	13.78	13.87		0
	12	13	13.87	13.97	14.06	13.79	13.82		0
	25	0	13.84	13.92	14.05	13.76	13.81		0

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8.3.14 LTE Band 41 PC2

Table 8-307
LTE Band 41 PC2 Conducted Powers Ant 4 - 20 MHz Bandwidth (QPSK)

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	15.35	15.43	15.08	15.36	15.23	0	0
	1	50	15.42	15.32	15.12	15.37	15.14		0
	1	99	**15.54**	15.29	15.21	15.38	15.14		0
	50	0	15.44	**15.47**	15.19	15.30	15.27	0-1	0
	50	25	15.26	15.39	15.20	15.32	15.21		0
	50	50	15.29	15.37	15.23	15.32	15.20		0
	100	0	15.24	15.36	15.21	15.28	15.18		0

Table 8-308
LTE Band 41 PC2 Conducted Powers Ant 2A - 20 MHz Bandwidth (QPSK)

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	16.15	16.14	16.08	16.12	16.01	0	0
	1	50	16.13	16.12	16.17	16.21	16.09		0
	1	99	16.07	16.04	16.26	**16.30**	16.10		0
	50	0	16.25	16.24	16.01	16.26	16.07	0-1	0
	50	25	16.15	16.19	16.08	16.27	16.15		0
	50	50	16.19	16.16	16.06	**16.28**	16.16		0
	100	0	16.16	16.13	16.04	16.22	16.12		0

Table 8-309
LTE Band 41 PC2 Conducted Powers Ant 1A - 20 MHz Bandwidth (QPSK)

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	14.86	14.75	14.92	**15.00**	14.90	0	0
	1	50	14.72	14.76	14.83	14.96	14.95		0
	1	99	14.74	14.80	14.90	14.89	14.97		0
	50	0	14.83	14.65	14.82	**14.95**	14.70	0-1	0
	50	25	14.61	14.73	14.78	14.91	14.88		0
	50	50	14.63	14.70	14.79	14.91	14.90		0
	100	0	14.53	14.71	14.76	14.89	14.86		0

Table 8-310
LTE Band 41 PC2 Conducted Powers Ant 3A - 20 MHz Bandwidth (QPSK)

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	**14.20**	14.01	14.05	14.15	13.90	0	0
	1	50	14.03	14.05	14.01	14.01	14.02		0
	1	99	13.97	14.01	14.09	13.89	14.07		0
	50	0	**14.14**	13.87	14.00	14.03	13.88	0-1	0
	50	25	13.98	14.01	13.99	13.97	13.98		0
	50	50	13.92	13.93	14.01	13.87	14.00		0
	100	0	13.90	13.92	13.99	13.95	14.01		0

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8.3.15 LTE Band 48

Table 8-311
LTE Band 48 Conducted Powers Ant 4 - 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	**16.48**	16.41	16.42	16.30	0	0
	1	50	16.45	16.30	16.24	16.25		0
	1	99	16.43	16.40	16.39	16.33		0
	50	0	16.39	16.31	16.27	16.25	0-1	0
	50	25	**16.50**	16.27	16.27	16.16		0
	50	50	16.43	16.30	16.31	16.26		0
	100	0	16.35	16.33	16.34	16.24		0
16QAM	1	0	16.43	16.49	16.45	16.19	0-1	0
	1	50	16.45	16.45	16.29	16.17		0
	1	99	16.50	16.50	16.49	16.50		0
	50	0	16.37	16.23	16.13	16.17	0-2	0
	50	25	16.50	16.23	16.16	16.09		0
	50	50	16.43	16.29	16.22	16.20		0
	100	0	16.50	16.31	16.28	16.16		0
64QAM	1	0	16.17	16.10	16.34	16.13	0-2	0
	1	50	16.27	16.00	16.04	16.05		0
	1	99	16.31	16.11	16.33	16.23		0
	50	0	16.10	15.97	15.91	15.97	0-3	0
	50	25	16.25	15.99	15.90	16.00		0
	50	50	16.14	16.04	16.05	15.85		0
	100	0	16.33	16.02	16.04	15.98		0

Table 8-312
LTE Band 48 Conducted Powers Ant 4 - 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	16.07	16.16	16.14	16.05	0	0
	1	36	16.25	16.19	16.08	15.95		0
	1	74	16.29	16.27	16.20	16.08		0
	36	0	16.29	16.23	16.22	16.17	0-1	0
	36	18	16.43	16.26	16.24	16.18		0
	36	37	16.46	16.26	16.23	16.17		0
	75	0	16.46	16.28	16.25	16.19		0
16QAM	1	0	16.30	16.07	16.13	16.22	0-1	0
	1	36	16.44	16.20	16.06	16.19		0
	1	74	16.50	16.31	16.28	16.33		0
	36	0	16.23	16.18	16.15	16.11	0-2	0
	36	18	16.38	16.17	16.17	16.10		0
	36	37	16.38	16.18	16.18	16.08		0
	75	0	16.44	16.23	16.23	16.16		0
64QAM	1	0	16.24	16.17	16.15	16.25	0-2	0
	1	36	16.43	16.29	15.99	16.45		0
	1	74	16.50	16.42	16.17	16.30		0
	36	0	16.21	16.18	16.19	16.10	0-3	0
	36	18	16.32	16.20	16.21	16.12		0
	36	37	16.31	16.22	16.21	16.09		0
	75	0	16.41	16.26	16.22	16.18		0

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Table 8-313
LTE Band 48 Conducted Powers Ant 4 - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55290 (3555.0 MHz)	Low-Mid Channel 55757 (3601.7 MHz)	Mid-High Channel 56223 (3648.3 MHz)	High Channel 56690 (3695.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	16.40	16.39	16.29	16.28	0	0
	1	25	16.17	16.15	16.03	16.09		0
	1	49	16.50	16.35	16.24	16.27		0
	25	0	16.33	16.27	16.20	16.18	0-1	0
	25	12	16.31	16.20	16.17	16.12		0
	25	25	16.48	16.30	16.24	16.18		0
	50	0	16.44	16.31	16.26	16.24		0
16QAM	1	0	16.29	16.21	16.07	16.49	0-1	0
	1	25	16.18	16.06	15.98	15.97		0
	1	49	16.50	16.29	16.40	16.39		0
	25	0	16.16	16.13	16.07	16.04	0-2	0
	25	12	16.18	16.10	15.99	16.01		0
	25	25	16.34	16.18	16.10	16.01		0
	50	0	16.41	16.23	16.19	16.15		0
64QAM	1	0	16.15	16.28	16.09	16.28	0-2	0
	1	25	16.28	15.88	15.74	15.89		0
	1	49	16.48	16.47	16.23	16.47		0
	25	0	16.24	16.14	16.11	16.06	0-3	0
	25	12	16.23	16.07	16.06	16.06		0
	25	25	16.40	16.19	16.21	16.10		0
	50	0	16.43	16.28	16.19	16.27		0

Table 8-314
LTE Band 48 Conducted Powers Ant 4 - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55265 (3552.5 MHz)	Low-Mid Channel 55748 (3600.8 MHz)	Mid-High Channel 56232 (3649.2 MHz)	High Channel 56715 (3697.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	16.26	16.34	16.25	16.24	0	0
	1	12	16.08	16.25	16.14	15.94		0
	1	24	16.26	16.50	16.36	16.11		0
	12	0	16.17	16.15	16.09	16.15	0-1	0
	12	6	16.18	16.06	16.05	16.06		0
	12	13	16.25	16.19	16.14	16.12		0
	25	0	16.30	16.27	16.21	16.30		0
16QAM	1	0	16.13	16.15	16.11	16.07	0-1	0
	1	12	15.90	15.89	15.92	15.90		0
	1	24	16.25	16.17	16.23	16.26		0
	12	0	15.86	15.90	16.00	15.81	0-2	0
	12	6	15.72	15.95	15.99	15.66		0
	12	13	15.84	16.01	15.99	15.81		0
	25	0	16.16	16.18	16.10	16.06		0
64QAM	1	0	16.30	16.12	16.05	16.10	0-2	0
	1	12	16.09	16.01	15.74	16.06		0
	1	24	16.26	16.36	16.09	16.25		0
	12	0	16.15	15.85	15.96	16.08	0-3	0
	12	6	16.13	15.78	15.87	15.97		0
	12	13	16.13	15.79	15.88	15.96		0
	25	0	16.17	16.16	16.07	16.14		0

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Table 8-315
LTE Band 48 Conducted Powers Ant 3B - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55340 (3560.0 MHz)	Low-Mid Channel 55773 (3603.3 MHz)	Mid-High Channel 56207 (3646.7 MHz)	High Channel 56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	15.46	15.52	15.49	15.55	0	0
	1	50	15.49	15.36	15.31	15.48		0
	1	99	15.50	15.58	15.46	**15.67**		0
	50	0	15.54	15.43	15.38	15.45	0-1	0
	50	25	15.58	15.38	15.37	15.48		0
	50	50	15.48	15.46	15.35	**15.59**		0
	100	0	15.48	15.44	15.45	15.56		0
16QAM	1	0	15.47	15.70	15.61	15.49	0-1	0
	1	50	15.52	15.58	15.41	15.51		0
	1	99	15.48	15.69	15.55	15.61		0
	50	0	15.45	15.39	15.36	15.39	0-2	0
	50	25	15.44	15.34	15.29	15.45		0
	50	50	15.36	15.42	15.31	15.48		0
	100	0	15.59	15.43	15.39	15.54		0
64QAM	1	0	15.47	15.55	15.46	15.57	0-2	0
	1	50	15.53	15.41	15.27	15.48		0
	1	99	15.63	15.62	15.49	15.67		0
	50	0	15.48	15.38	15.35	15.37	0-3	0
	50	25	15.51	15.31	15.30	15.43		0
	50	50	15.40	15.37	15.32	15.49		0
	100	0	15.59	15.43	15.40	15.54		0

Table 8-316
LTE Band 48 Conducted Powers Ant 3B - 15 MHz Bandwidth

LTE Band 48 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55315 (3557.5 MHz)	Low-Mid Channel 55765 (3602.5 MHz)	Mid-High Channel 56215 (3647.5 MHz)	High Channel 56665 (3692.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	15.30	15.45	15.38	15.45	0	0
	1	36	15.41	15.40	15.31	15.53		0
	1	74	15.42	15.47	15.35	15.41		0
	36	0	15.39	15.37	15.34	15.47	0-1	0
	36	18	15.50	15.39	15.35	15.57		0
	36	37	15.53	15.39	15.36	15.52		0
	75	0	15.57	15.44	15.40	15.64		0
16QAM	1	0	15.51	15.23	15.33	15.53	0-1	0
	1	36	15.64	15.28	15.42	15.69		0
	1	74	15.59	15.31	15.42	15.49		0
	36	0	15.34	15.28	15.29	15.41	0-2	0
	36	18	15.43	15.31	15.29	15.49		0
	36	37	15.45	15.33	15.30	15.44		0
	75	0	15.53	15.39	15.35	15.58		0
64QAM	1	0	15.30	15.25	15.26	15.49	0-2	0
	1	36	15.55	15.21	15.29	15.65		0
	1	74	15.50	15.32	15.36	15.70		0
	36	0	15.31	15.29	15.30	15.40	0-3	0
	36	18	15.42	15.31	15.30	15.50		0
	36	37	15.44	15.33	15.31	15.43		0
	75	0	15.51	15.35	15.35	15.56		0

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Table 8-317
LTE Band 48 Conducted Powers Ant 3B - 10 MHz Bandwidth

LTE Band 48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55290 (3555.0 MHz)	Low-Mid Channel 55757 (3601.7 MHz)	Mid-High Channel 56223 (3648.3 MHz)	High Channel 56690 (3695.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	15.55	15.57	15.52	15.80	0	0
	1	25	15.46	15.35	15.28	15.56		0
	1	49	15.76	15.59	15.49	15.74		0
	25	0	15.53	15.53	15.47	15.70	0-1	0
	25	12	15.56	15.46	15.42	15.60		0
	25	25	15.63	15.54	15.50	15.60		0
	50	0	15.68	15.56	15.50	15.70		0
16QAM	1	0	15.47	15.29	15.29	15.64	0-1	0
	1	25	15.51	15.30	15.20	15.54		0
	1	49	15.79	15.50	15.60	15.67		0
	25	0	15.32	15.41	15.35	15.58	0-2	0
	25	12	15.48	15.37	15.24	15.47		0
	25	25	15.49	15.44	15.35	15.44		0
	50	0	15.60	15.49	15.41	15.63		0
64QAM	1	0	15.80	15.39	15.43	15.80	0-2	0
	1	25	15.61	15.33	15.20	15.47		0
	1	49	15.80	15.40	15.44	15.78		0
	25	0	15.41	15.38	15.38	15.59	0-3	0
	25	12	15.45	15.34	15.27	15.50		0
	25	25	15.54	15.39	15.40	15.47		0
	50	0	15.56	15.51	15.45	15.66		0

Table 8-318
LTE Band 48 Conducted Powers Ant 3B - 5 MHz Bandwidth

LTE Band 48 5 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55265 (3552.5 MHz)	Low-Mid Channel 55748 (3600.8 MHz)	Mid-High Channel 56232 (3649.2 MHz)	High Channel 56715 (3697.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	15.30	15.57	15.51	15.53	0	0
	1	12	15.22	15.25	15.27	15.28		0
	1	24	15.40	15.56	15.44	15.43		0
	12	0	15.30	15.31	15.29	15.56	0-1	0
	12	6	15.26	15.22	15.22	15.37		0
	12	13	15.32	15.35	15.27	15.44		0
	25	0	15.46	15.41	15.38	15.55		0
16QAM	1	0	15.57	15.44	15.38	15.62	0-1	0
	1	12	15.25	15.30	15.26	15.44		0
	1	24	15.64	15.54	15.62	15.51		0
	12	0	15.20	15.38	15.37	15.43	0-2	0
	12	6	15.23	15.28	15.26	15.23		0
	12	13	15.22	15.38	15.33	15.28		0
	25	0	15.48	15.48	15.43	15.62		0
64QAM	1	0	15.34	15.42	15.68	15.70	0-2	0
	1	12	15.22	15.25	15.20	15.34		0
	1	24	15.32	15.41	15.50	15.50		0
	12	0	15.23	15.20	15.53	15.38	0-3	0
	12	6	15.23	15.24	15.44	15.27		0
	12	13	15.23	15.25	15.55	15.22		0
	25	0	15.36	15.33	15.21	15.43		0

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8.3.16 LTE Uplink Carrier Aggregation Conducted Powers

Table 8-319
LTE Uplink Carrier Aggregation Conducted Powers – Ant 4

	PCC									SCC								Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	20.93	20.80

	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	2850	2630	QPSK	100	0	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	100	0	13.20	13.62

	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	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	15.52	15.48

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	39750	2506.0	QPSK	50	50	LTE B41 PC2	20	39948	2525.8	QPSK	50	0	15.29	15.29

Table 8-320
LTE Uplink Carrier Aggregation Conducted Powers – Ant 3B

	PCC									SCC								Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	17.55	17.76

Table 8-321
LTE Uplink Carrier Aggregation Conducted Powers – Ant 2A

	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	2850	2630	QPSK	100	0	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	100	0	14.40	14.18

	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	99	LTE B41	20	40383	2569.3	QPSK	1	0	15.90	16.37

	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	99	LTE B41 PC2	20	40383	2569.3	QPSK	1	0	15.79	16.04

Table 8-322
LTE Uplink Carrier Aggregation Conducted Powers – Ant 1A

	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	13.60	13.59

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41490	2680.0	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	14.30	14.95

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	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	41490	2680.0	QPSK	50	0	LTE B41 PC2	20	41292	2660.2	QPSK	50	50	14.45	14.70

Table 8-323
LTE Uplink Carrier Aggregation Conducted Powers – Ant 3A

	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	21350	2560.0	3350	2680.0	QPSK	50	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	50	50	11.35	11.41

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40620	2593.0	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	13.72	14.08

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40620	2593.0	QPSK	1	99	LTE B41 PC2	20	40818	2612.8	QPSK	1	0	13.77	14.09

Notes:

1. This device supports uplink carrier aggregation for LTE CA_7C, LTE CA_5B and LTE CA_41C component carriers. For intra-band 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 Time-Averaged Conducted Powers

Table 8-324
2.4 GHz WLAN Maximum Time-Average RF Power – Ant 3A, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	11.69	11.78	11.75	11.77
2437	6	11.80	11.80	11.71	11.78
2462	11	11.73	11.82	11.68	11.75

Table 8-325
2.4 GHz WLAN Maximum Time-Average RF Power – Ant 3A, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	11.59	11.58	11.61	11.50
2437	6	11.65	11.60	11.66	11.58
2462	11	11.63	11.75	11.68	11.69

Table 8-326
2.4 GHz WLAN Maximum Time-Average RF Power – Ant 1A, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	12.28	12.21	12.24	12.22
2417	2	N/A	N/A	N/A	12.45
2437	6	12.30	12.38	12.44	12.28
2457	10	N/A	N/A	N/A	12.40
2462	11	12.31	12.38	12.37	12.32

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Table 8-327
2.4 GHz WLAN Maximum Time-Average RF Power – Ant 1A, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	12.20	12.17	12.24	12.29
2417	2	N/A	N/A	N/A	12.34
2437	6	12.23	12.27	12.30	12.36
2457	10	N/A	N/A	N/A	12.20
2462	11	12.35	12.22	12.27	12.26

Table 8-328
5 GHz WLAN Maximum Time-Average RF Power – Ant 2A, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	9.35	9.42
5290	58	9.27	9.17
5530	106	9.16	9.33
5610	122	9.14	9.02
5690	138	9.07	9.15
5775	155	10.18	10.27

Table 8-329
5 GHz WLAN Maximum Time-Average RF Power – Ant 2A, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	9.52	9.54
5290	58	9.21	9.29
5530	106	9.04	9.12
5610	122	9.02	9.14
5690	138	8.84	9.00
5775	155	10.30	10.38

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Table 8-330
5 GHz WLAN Maximum Time-Average RF Power – Ant 2B, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	8.63	8.57
5290	58	10.52	10.51
5530	106	10.24	10.25
5610	122	10.25	10.23
5690	138	10.20	10.04
5775	155	9.39	9.47

Table 8-331
5 GHz WLAN Maximum Time-Average RF Power – Ant 2B, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	8.54	8.68
5290	58	10.54	10.41
5530	106	10.15	10.00
5610	122	10.25	10.22
5690	138	10.22	10.15
5775	155	9.05	9.25

Table 8-332
5 GHz WLAN Maximum Time-Average RF Power – Ant 1B, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	10.30	10.39
5290	58	9.04	9.05
5530	106	9.27	9.51
5610	122	9.36	9.47
5690	138	9.25	9.43
5775	155	9.27	9.50

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Table 8-333
5 GHz WLAN Maximum Time-Average RF Power – Ant 1B, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	10.25	10.41
5290	58	8.94	9.14
5530	106	9.09	9.24
5610	122	9.31	9.37
5690	138	9.30	9.37
5775	155	9.18	9.27

Table 8-334
5 GHz WLAN Maximum Time-Average RF Power – Ant 1B and 2B MIMO, Variant 1

5GHz (80MHz) Conducted Power [dBm]						
Freq [MHz]	Channel	IEEE Transmission Mode				
		802.11ac			802.11ax (SU)	
		Ant 1b Average	Ant 2b Average	MIMO	Ant 1b Average	Ant 2b Average
5210	42	10.57	9.54	13.10	10.54	9.54
5290	58	8.79	10.57	12.78	8.76	10.58
5530	106	9.36	9.35	12.37	9.45	9.52
5610	122	9.17	9.19	12.19	9.15	9.26
5690	138	9.21	9.22	12.23	9.22	9.17
5775	155	9.39	8.86	12.14	9.41	9.06

Table 8-335
5 GHz WLAN Maximum Time-Average RF Power – Ant 1B and 2B MIMO, Variant 2

5GHz (80MHz) Conducted Power [dBm]						
Freq [MHz]	Channel	IEEE Transmission Mode				
		802.11ac			802.11ax (SU)	
		Ant 1b Average	Ant 2b Average	MIMO	Ant 1b Average	Ant 2b Average
5210	42	10.52	9.48	13.04	10.58	9.64
5290	58	8.81	10.60	12.81	8.85	10.77
5530	106	9.37	9.40	12.40	9.48	9.46
5610	122	9.30	9.21	12.27	9.46	9.31
5690	138	9.34	9.35	12.36	9.33	9.45
5775	155	9.32	9.32	12.33	9.42	9.53

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Table 8-336
5 GHz WLAN Maximum Time-Average RF Power – Ant 2B and 2A MIMO, Variant 1

5GHz (80MHz) Conducted Power [dBm]						
Freq [MHz]	Channel	IEEE Transmission Mode				
		802.11ac			802.11ax (SU)	
		Ant 2a Average	Ant 2b Average	MIMO	Ant 2a Average	Ant 2b Average
5210	42	9.81	9.63	12.73	9.98	9.65
5290	58	8.80	10.87	12.97	8.95	10.88
5530	106	9.97	9.61	12.80	10.06	9.52
5610	122	9.91	9.72	12.83	10.21	9.88
5690	138	9.81	9.79	12.81	9.91	9.78
5775	155	10.33	9.28	12.85	10.41	9.20

Table 8-337
5 GHz WLAN Maximum Time-Average RF Power – Ant 2B and 2A MIMO, Variant 2

5GHz (80MHz) Conducted Power [dBm]						
Freq [MHz]	Channel	IEEE Transmission Mode				
		802.11ac			802.11ax (SU)	
		Ant 2a Average	Ant 2b Average	MIMO	Ant 2a Average	Ant 2b Average
5210	42	9.80	9.84	12.83	9.22	9.70
5290	58	8.80	10.70	12.86	8.90	10.89
5530	106	9.91	9.60	12.77	9.90	9.81
5610	122	9.81	9.44	12.64	9.81	9.61
5690	138	9.84	9.66	12.76	9.74	9.82
5775	155	10.27	9.25	12.80	10.05	9.14

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8.5 WLAN Reduced Conducted Powers

Table 8-338
2.4 GHz WLAN Reduced Time-Average RF Power – Ant 3A, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	5.95	5.18	5.20	5.33
2437	6	5.92	5.10	5.12	5.15
2462	11	5.89	5.06	5.08	5.25

Table 8-339
2.4 GHz WLAN Reduced Time-Average RF Power – Ant 3A, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	5.94	5.14	5.18	5.24
2437	6	5.96	5.00	5.01	5.30
2462	11	5.81	5.17	5.17	5.22

Table 8-340
2.4 GHz WLAN Reduced Time-Average RF Power – Ant 1A, Variant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	6.72	5.88	5.90	5.82
2437	6	6.58	5.96	5.95	5.91
2462	11	6.64	5.89	5.90	5.80

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Table 8-341
2.4 GHz WLAN Reduced Time-Average RF Power – Ant 1A, Variant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax (SU)
		Average	Average	Average	Average
2412	1	6.67	5.95	5.94	5.77
2437	6	6.63	6.00	6.02	5.92
2462	11	6.72	5.90	5.87	6.20

Table 8-342
5 GHz WLAN Reduced Time-Average RF Power – Ant 2A, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	3.48	2.80
5290	58	2.72	2.27
5530	106	3.73	3.11
5610	122	3.70	3.13
5690	138	3.58	3.01
5775	155	4.04	3.60

Table 8-343
5 GHz WLAN Reduced Time-Average RF Power – Ant 2A, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	3.38	3.37
5290	58	2.61	2.66
5530	106	3.65	3.40
5610	122	3.62	3.28
5690	138	3.56	3.30
5775	155	4.09	3.77

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Table 8-344
5 GHz WLAN Reduced Time-Average RF Power – Ant 2B, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	3.38	3.24
5290	58	4.35	4.02
5530	106	3.12	3.25
5610	122	3.21	3.25
5690	138	3.14	3.25
5775	155	2.45	2.75

Table 8-345
5 GHz WLAN Reduced Time-Average RF Power – Ant 2B, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	3.45	3.45
5290	58	4.43	3.64
5530	106	3.09	3.24
5610	122	3.22	3.24
5690	138	3.21	3.24
5775	155	2.71	2.74

Table 8-346
5 GHz WLAN Reduced Time-Average RF Power – Ant 1B, Variant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	4.42	4.15
5290	58	2.72	2.75
5530	106	3.23	2.89
5610	122	3.19	2.74
5690	138	3.21	2.80
5775	155	3.09	2.86

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Table 8-347
5 GHz WLAN Reduced Time-Average RF Power – Ant 1B, Variant 2

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax (SU)
		Average	Average
5210	42	4.42	4.22
5290	58	2.37	2.74
5530	106	3.09	3.24
5610	122	3.22	3.24
5690	138	3.24	3.24
5775	155	3.14	3.24

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8.5.1 WLAN Power Reduction Verification Summary

Table 8-348
WLAN Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Target Power [dBm]	Reduced Target Power [dBm]	Maximum Measured Power	Reduced Measured Power	Verdict
					(Tolerance [dB])	(Tolerance [dB])	[dBm]	[dBm]	
Ant 1A	2.4 GHz WLAN	Main Band 1A ON	13.75	6.75	12.25 (+1.5/-1.5)	5.25 (+1.5/-1.5)	12.70	5.40	PASS
	2.4 GHz WLAN	Interband ULCA ON	13.75	6.75	12.25 (+1.5/-1.5)	5.25 (+1.5/-1.5)	12.70	5.62	PASS
Ant 3A	2.4 GHz WLAN	Main Band 3A/3B ON	13.00	6.00	11.50 (+1.5/-1.5)	4.50 (+1.5/-1.5)	12.00	4.99	PASS
	2.4 GHz WLAN	Interband ULCA ON	13.00	6.00	11.50 (+1.5/-1.5)	4.50 (+1.5/-1.5)	12.00	5.15	PASS
Ant 1B	5 GHz WLAN	Main Band 1A ON	11.50	4.50	10.00 (+1.5/-1.5)	3.00 (+1.5/-1.5)	11.06	3.03	PASS
	5 GHz WLAN	Interband ULCA ON	11.50	4.50	10.00 (+1.5/-1.5)	3.00 (+1.5/-1.5)	10.51	3.76	PASS
Ant 2B	5 GHz WLAN	Main Band 2A ON	11.50	4.50	10.00 (+1.5/-1.5)	3.00 (+1.5/-1.5)	9.72	3.00	PASS
	5 GHz WLAN	Interband ULCA ON	11.50	4.50	10.00 (+1.5/-1.5)	3.00 (+1.5/-1.5)	9.72	2.09	PASS
Ant 2A	5 GHz WLAN	Main Band 2A ON	11.25	4.25	9.75 (+1.5/-1.5)	2.75 (+1.5/-1.5)	11.21	3.04	PASS
	5 GHz WLAN	Interband ULCA ON	11.25	4.25	9.75 (+1.5/-1.5)	2.75 (+1.5/-1.5)	11.21	4.30	PASS

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

8.5.2 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.

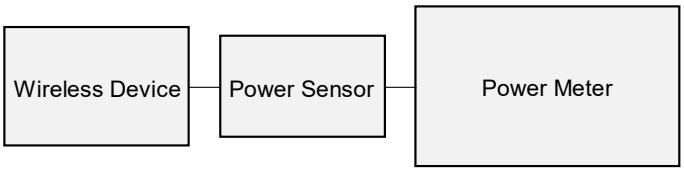


Figure 8-4
Power Measurement Setup

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8.6 Bluetooth Maximum Conducted Powers

Table 8-349
Bluetooth Maximum Average RF Power – Ant 3A, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.62	18.281
2441	GFSK	1.0	39	12.27	16.866
2480	GFSK	1.0	78	12.30	16.982

Table 8-350
Bluetooth Maximum Average RF Power – Ant 3A, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.52	17.865
2441	GFSK	1.0	39	12.28	16.904
2480	GFSK	1.0	78	12.36	17.219

Table 8-351
Bluetooth Maximum Average RF Power – Ant 1A, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.70	18.621
2441	GFSK	1.0	39	13.10	20.417
2480	GFSK	1.0	78	13.46	22.182

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Table 8-352
Bluetooth Maximum Average RF Power – Ant 1A, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.65	18.408
2441	GFSK	1.0	39	12.78	18.967
2480	GFSK	1.0	78	12.22	16.672

8.7 Bluetooth Reduced Conducted Powers

Table 8-353
Bluetooth Reduced Average RF Power – Ant 3A, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.37	4.335
2441	GFSK	1.0	39	6.69	4.667
2480	GFSK	1.0	78	6.27	4.236

Table 8-354
Bluetooth Reduced Average RF Power – Ant 3A, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.68	4.656
2441	GFSK	1.0	39	6.58	4.550
2480	GFSK	1.0	78	6.37	4.335

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Table 8-355
Bluetooth Reduced Average RF Power – Ant 1A, Variant 1

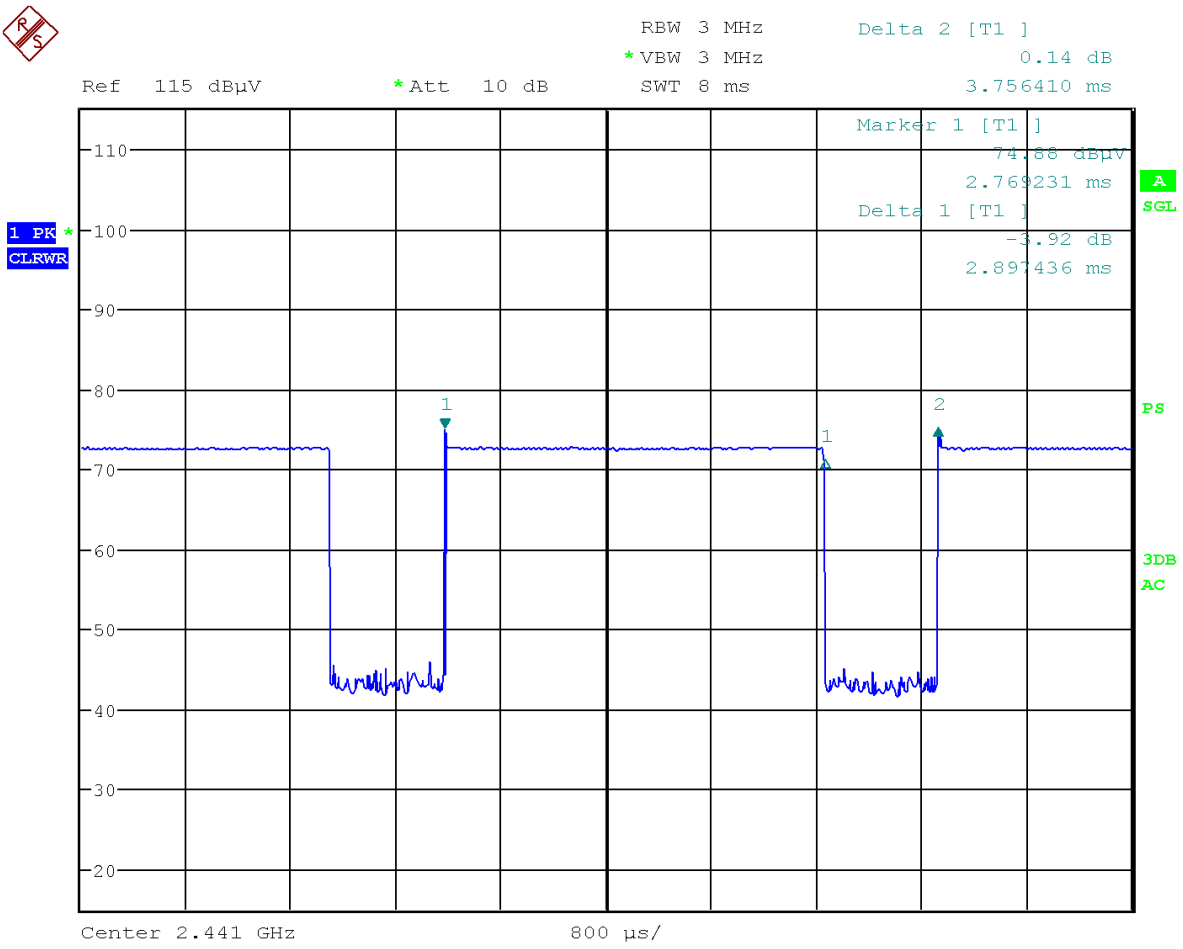
Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.56	4.529
2441	GFSK	1.0	39	6.50	4.467
2480	GFSK	1.0	78	6.17	4.140

Table 8-356
Bluetooth Reduced Average RF Power – Ant 1A, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.67	4.645
2441	GFSK	1.0	39	6.51	4.477
2480	GFSK	1.0	78	6.64	4.613

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Figure 8-5
Bluetooth Transmission Plot – Ant 3A – Variant 1

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

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

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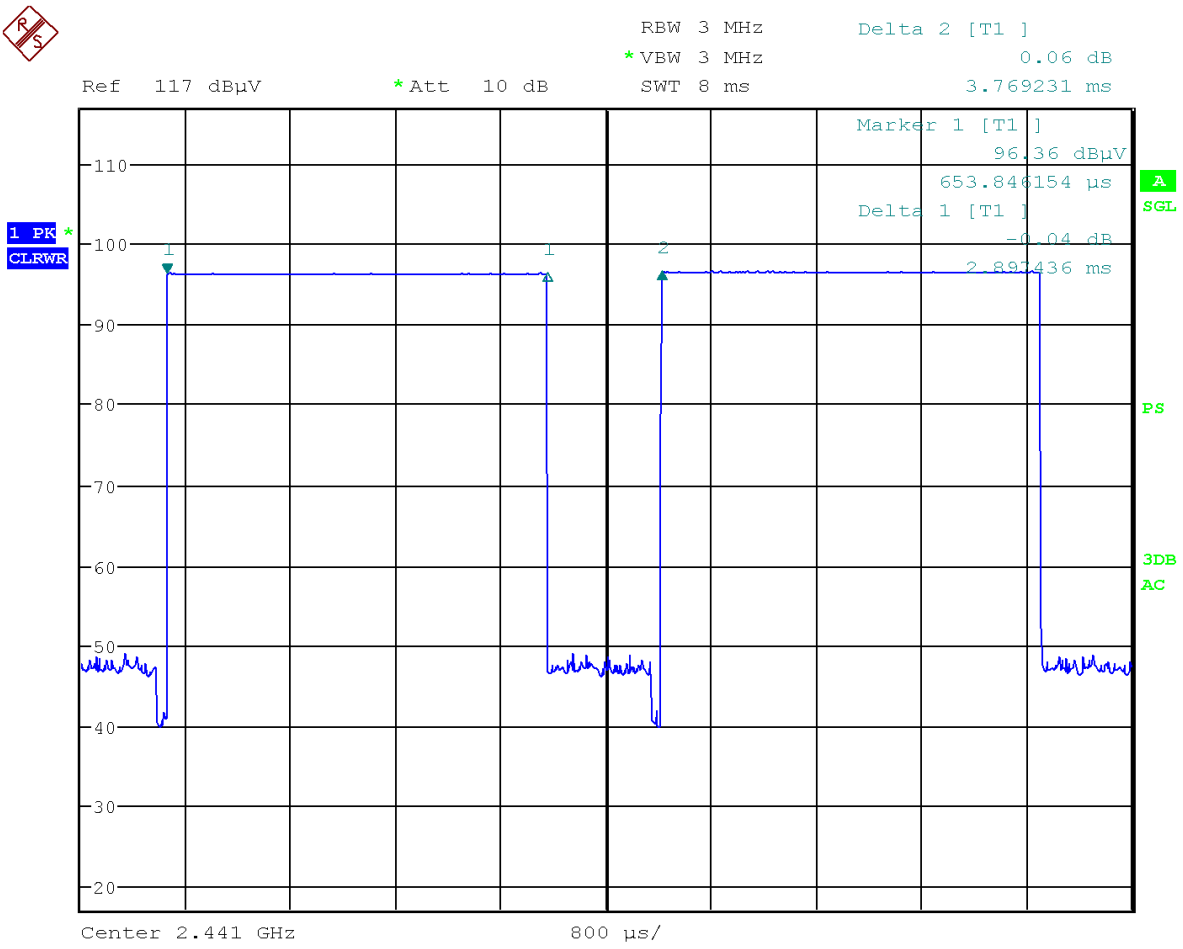


Figure 8-6
Bluetooth Transmission Plot – Ant 1A – Variant 1

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

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

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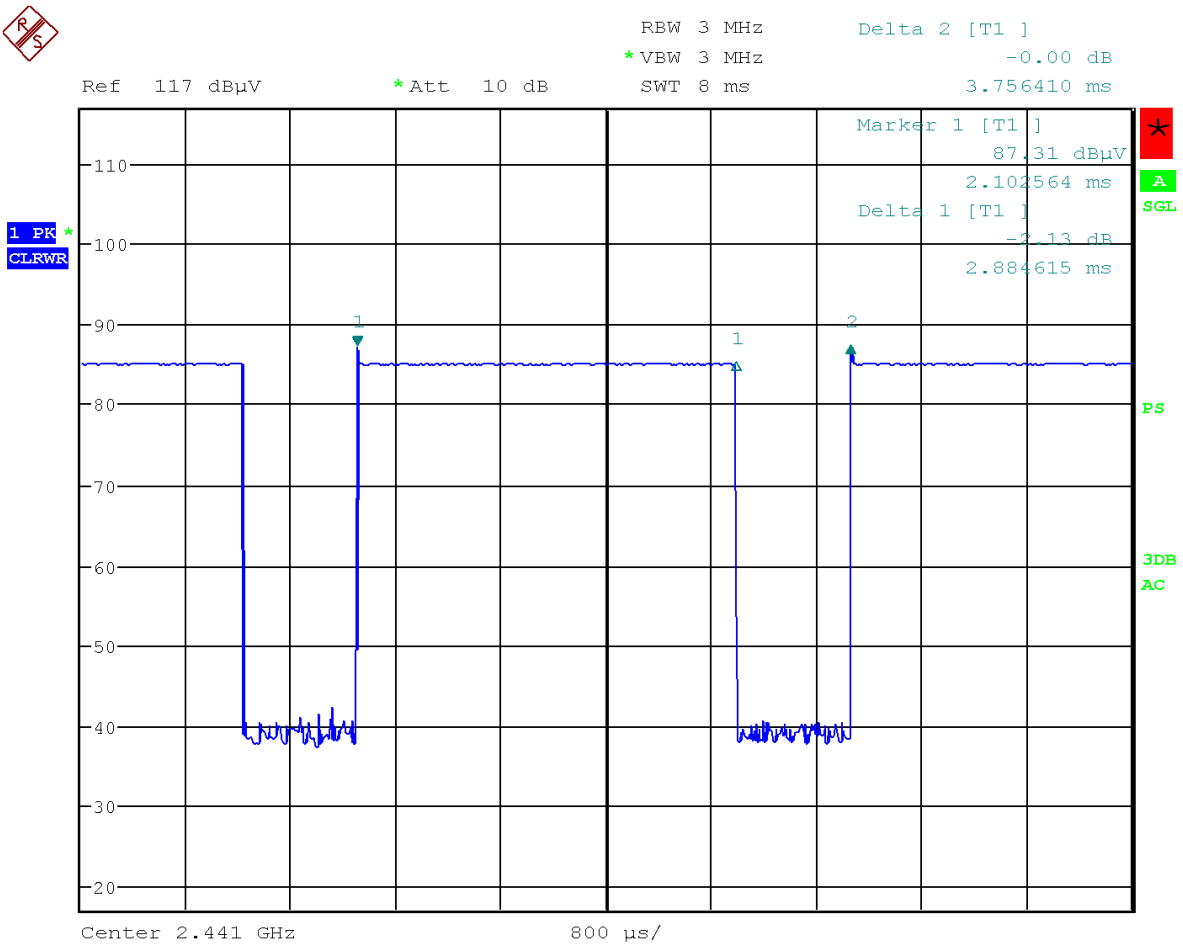


Figure 8-7
Bluetooth Transmission Plot – Ant 3A – Variant 2

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

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

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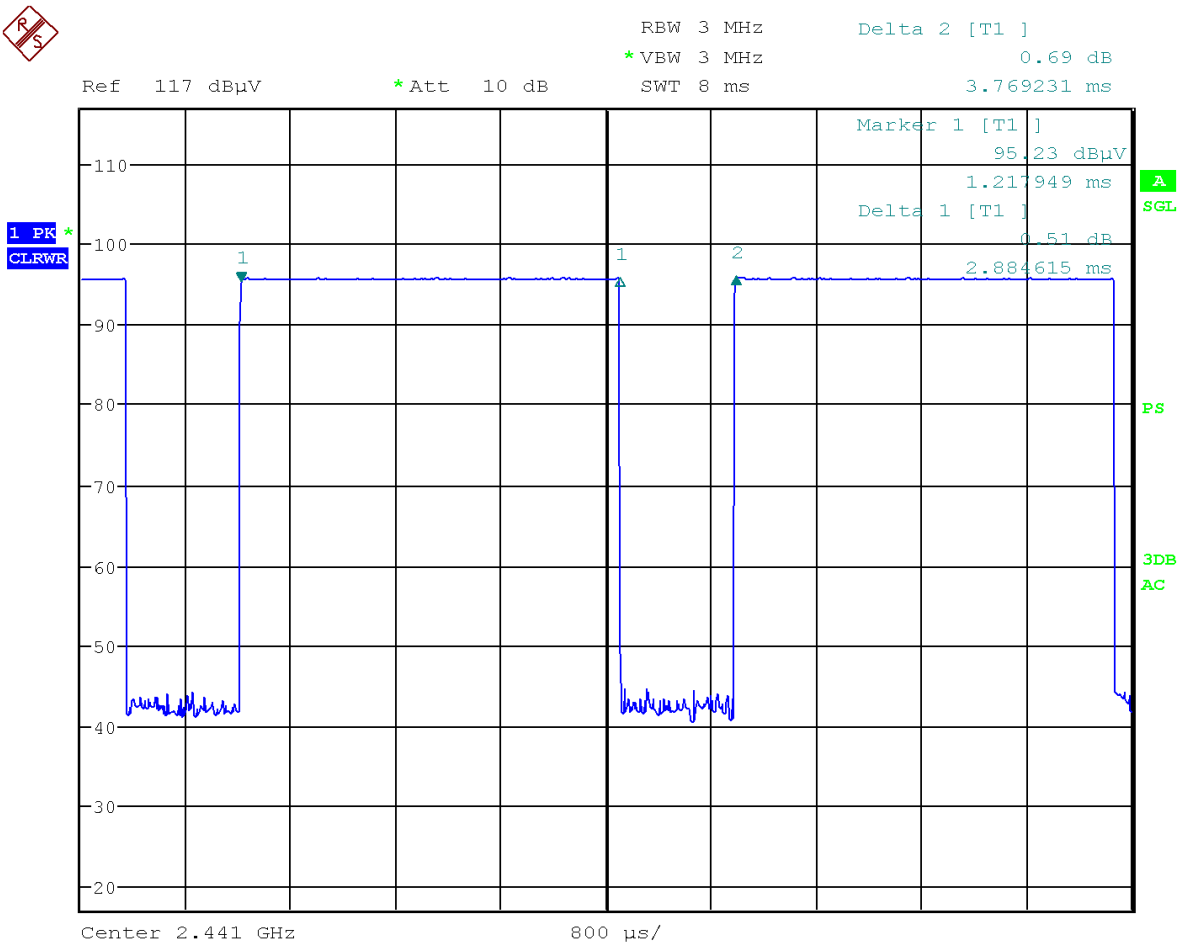


Figure 8-8
Bluetooth Transmission Plot – Ant 1A – Variant 2

Equation 8-4
Bluetooth Duty Cycle Calculation – Ant 1A – Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.8846ms}{3.7692ms} * 100\% = 76.5\%$$

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8.8 Bluetooth Power Reduction Verification Summary

Table 8-357
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] (Tolerance [dB])	Reduced Target Power [dBm] (Tolerance [dB])	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
ANT1A	2.4 GHz Bluetooth	Main Band ANT 1A ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.13	5.12	PASS
	2.4 GHz Bluetooth	5 GHz Ant 1B/2B/2A WLAN ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.13	5.17	PASS
	2.4 GHz Bluetooth	5 GHZ Ant 1b and 2b MIMO WLAN ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.13	5.11	PASS
	2.4 GHz Bluetooth	5 GHZ Ant 2B and 2A MIMO WLAN ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.13	5.20	PASS
	2.4 GHz Bluetooth	Interband ULCA ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.13	5.35	PASS
ANT3A	2.4 GHz Bluetooth	Main Band ANT 3A/3B ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.00	5.20	PASS
	2.4 GHz Bluetooth	Interband ULCA ON	13.75	6.75	12.25 (+1.5/-2)	5.25 (+1.5/-2)	13.00	5.21	PASS

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

8.8.1 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.

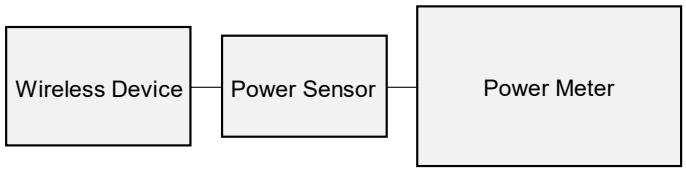


Figure 8-9
Power Measurement Setup

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
7/29/2020	750B	21.0	680	0.949	54.420	0.958	55.804	-0.94%	-2.48%
			695	0.954	54.388	0.959	55.745	-0.52%	-2.43%
			700	0.955	54.381	0.959	55.726	-0.42%	-2.41%
			710	0.959	54.363	0.960	55.687	-0.10%	-2.38%
			720	0.962	54.340	0.961	55.648	0.10%	-2.35%
			725	0.964	54.331	0.961	55.629	0.31%	-2.33%
			740	0.970	54.305	0.963	55.570	0.73%	-2.28%
			755	0.975	54.278	0.964	55.512	1.14%	-2.22%
			770	0.981	54.246	0.965	55.453	1.66%	-2.18%
			785	0.987	54.208	0.966	55.395	2.17%	-2.14%
			800	0.992	54.159	0.967	55.336	2.59%	-2.13%
7/31/2020	750B	20.5	680	0.949	53.501	0.958	55.804	-0.94%	-4.13%
			695	0.954	53.473	0.959	55.745	-0.52%	-4.08%
			700	0.955	53.463	0.959	55.726	-0.42%	-4.06%
			710	0.959	53.447	0.960	55.687	-0.10%	-4.02%
			720	0.962	53.424	0.961	55.648	0.10%	-4.00%
			725	0.964	53.414	0.961	55.629	0.31%	-3.98%
			740	0.970	53.372	0.963	55.570	0.73%	-3.96%
			755	0.976	53.337	0.964	55.512	1.24%	-3.92%
			770	0.981	53.308	0.965	55.453	1.66%	-3.87%
			785	0.986	53.274	0.966	55.395	2.07%	-3.83%
			800	0.991	53.247	0.967	55.336	2.48%	-3.78%
7/27/2020	835B	21.3	800	0.978	53.675	0.967	55.336	1.15%	-3.00%
			820	0.986	53.616	0.969	55.258	1.75%	-2.97%
			835	0.991	53.581	0.970	55.200	2.16%	-2.93%
			850	0.996	53.557	0.988	55.154	0.81%	-2.90%
7/27/2020	835B	22.0	820	0.964	53.076	0.969	55.258	-0.52%	-3.95%
			835	0.979	52.918	0.970	55.200	0.93%	-4.13%
			850	0.994	52.773	0.988	55.154	0.61%	-4.32%
7/29/2020	835B	22.3	820	0.969	53.812	0.969	55.258	0.00%	-2.62%
			835	0.984	53.662	0.970	55.200	1.44%	-2.79%
			850	0.999	53.519	0.988	55.154	1.11%	-2.96%
7/30/2020	1750B	21.9	1710	1.449	51.380	1.463	53.537	-0.96%	-4.03%
			1750	1.487	51.262	1.488	53.432	-0.07%	-4.06%
			1790	1.524	51.122	1.514	53.326	0.66%	-4.13%
8/3/2020	1750B	21.0	1710	1.465	51.321	1.463	53.537	0.14%	-4.14%
			1750	1.500	51.199	1.488	53.432	0.81%	-4.18%
			1790	1.541	51.050	1.514	53.326	1.78%	-4.27%
8/13/2020	1750B	21.1	1710	1.463	51.665	1.463	53.537	0.00%	-3.50%
			1750	1.498	51.555	1.488	53.432	0.67%	-3.51%
			1790	1.535	51.428	1.514	53.326	1.39%	-3.56%
7/28/2020	1900B	24.3	1850	1.538	51.746	1.520	53.300	1.18%	-2.92%
			1880	1.566	51.663	1.520	53.300	3.03%	-3.07%
			1910	1.594	51.573	1.520	53.300	4.87%	-3.24%
8/7/2020	1900B	24.2	1850	1.536	51.947	1.520	53.300	1.05%	-2.54%
			1880	1.565	51.864	1.520	53.300	2.96%	-2.69%
			1910	1.594	51.779	1.520	53.300	4.87%	-2.85%
8/9/2020	1900B	20.5	1850	1.496	51.852	1.520	53.300	-1.58%	-2.72%
			1880	1.516	51.799	1.520	53.300	-0.26%	-2.82%
			1910	1.535	51.765	1.520	53.300	0.99%	-2.88%
7/27/2020	2300B	21.4	2300	1.839	52.314	1.809	52.900	1.66%	-1.11%
			2310	1.852	52.278	1.816	52.887	1.98%	-1.15%
			2320	1.866	52.245	1.826	52.873	2.19%	-1.19%
7/31/2020	2450B	21.9	2400	1.954	52.154	1.902	52.767	2.73%	-1.16%
			2450	2.021	51.976	1.950	52.700	3.64%	-1.37%
			2500	2.094	51.782	2.021	52.636	3.61%	-1.62%
			2550	2.164	51.568	2.092	52.573	3.44%	-1.91%
			2600	2.238	51.373	2.163	52.509	3.47%	-2.16%
			2650	2.309	51.152	2.234	52.445	3.36%	-2.47%
			2700	2.383	50.944	2.305	52.382	3.38%	-2.75%
8/5/2020	2450B	21.8	2400	1.949	52.061	1.902	52.767	2.47%	-1.34%
			2450	2.018	51.870	1.950	52.700	3.49%	-1.57%
			2500	2.092	51.679	2.021	52.636	3.51%	-1.82%
			2550	2.160	51.467	2.092	52.573	3.25%	-2.10%
			2600	2.236	51.284	2.163	52.509	3.37%	-2.33%
			2650	2.307	51.073	2.234	52.445	3.27%	-2.62%
			2700	2.382	50.871	2.305	52.382	3.34%	-2.88%
8/10/2020	2450B	23.1	2400	1.983	50.492	1.902	52.767	4.26%	-4.31%
			2450	2.029	50.436	1.950	52.700	4.05%	-4.30%
			2500	2.070	50.353	2.021	52.636	2.42%	-4.34%
8/13/2020	2450B	22.0	2400	1.947	51.788	1.902	52.767	2.37%	-1.86%
			2450	2.014	51.611	1.950	52.700	3.28%	-2.07%
			2500	2.091	51.411	2.021	52.636	3.46%	-2.33%
8/3/2020	3500B-3700B	20.4	3500	3.405	49.874	3.314	51.321	2.75%	-2.82%
			3550	3.467	49.791	3.372	51.254	2.82%	-2.85%
			3600	3.514	49.710	3.431	51.186	2.42%	-2.88%
			3645	3.566	49.654	3.483	51.125	2.38%	-2.88%
			3685	3.609	49.594	3.530	51.070	2.24%	-2.89%
			3725	3.649	49.537	3.577	51.016	2.01%	-2.90%
08/18/2020	5200B-5800B	22.2	5180	5.425	47.986	5.276	49.041	2.82%	-2.15%
			5200	5.456	47.933	5.299	49.014	2.96%	-2.21%
			5220	5.485	47.898	5.323	48.987	3.04%	-2.22%
			5240	5.511	47.872	5.346	48.960	3.09%	-2.22%
			5260	5.534	47.835	5.369	48.933	3.07%	-2.24%
			5280	5.565	47.778	5.393	48.906	3.19%	-2.31%
			5300	5.589	47.728	5.416	48.879	3.19%	-2.35%
			5320	5.619	47.705	5.439	48.851	3.31%	-2.35%
			5500	5.862	47.404	5.650	48.607	3.75%	-2.47%
			5520	5.890	47.384	5.673	48.580	3.83%	-2.46%
			5540	5.917	47.357	5.696	48.553	3.88%	-2.46%
			5560	5.942	47.314	5.720	48.526	3.88%	-2.50%
			5580	5.975	47.288	5.743	48.499	4.04%	-2.50%
			5600	6.003	47.257	5.766	48.471	4.11%	-2.50%
			5620	6.027	47.221	5.790	48.444	4.09%	-2.52%
			5640	6.054	47.195	5.813	48.417	4.15%	-2.52%
			5660	6.076	47.158	5.837	48.390	4.09%	-2.55%
			5680	6.105	47.110	5.860	48.363	4.18%	-2.59%
			5700	6.135	47.080	5.883	48.336	4.28%	-2.60%
			5745	6.194	46.990	5.936	48.275	4.35%	-2.66%
			5765	6.227	46.967	5.959	48.248	4.50%	-2.66%
			5785	6.250	46.914	5.982	48.220	4.48%	-2.71%
			5800	6.274	46.883	6.000	48.200	4.57%	-2.73%
			5805	6.282	46.875	6.006	48.193	4.60%	-2.73%
			5825	6.312	46.851	6.029	48.166	4.69%	-2.73%

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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9.2 Test System Verification

Prior to SAR assessment, the system is verified to ±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 – 1g

System Verification TARGET & MEASURED												
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR_{1g} (W/kg)	1 W Target SAR_{1g} (W/kg)	1 W Normalized SAR_{1g} (W/kg)	$Deviation_{1g}$ (%)
AM8	750	BODY	07/29/2020	20.5	20.3	0.200	1097	7532	1.730	8.560	8.650	1.05%
AM8	750	BODY	07/31/2020	22.1	19.4	0.200	1097	7532	1.770	8.560	8.850	3.39%
AM6	835	BODY	07/27/2020	22.5	21.5	0.200	4d180	3837	2.040	9.590	10.200	6.36%
AM4	850	BODY	07/27/2020	22.5	22.1	0.200	1010	7421	2.120	10.200	10.600	3.92%
AM4	850	BODY	07/29/2020	22.7	22.5	0.200	1010	7421	2.120	10.200	10.600	3.92%
AM1	1750	BODY	07/30/2020	23.3	21.8	0.100	1104	7427	3.950	36.600	39.500	7.92%
AM1	1750	BODY	08/03/2020	22.9	20.9	0.100	1104	7427	3.900	36.600	39.000	6.56%
AM1	1750	BODY	08/13/2020	22.5	21.0	0.100	1092	7427	3.830	36.400	38.300	5.22%
AM7	1900	BODY	07/28/2020	22.1	23.5	0.100	5d181	7490	3.930	39.500	39.300	-0.51%
AM7	1900	BODY	08/07/2020	22.5	24.0	0.100	5d181	7490	3.880	39.500	38.800	-1.77%
AM6	1900	BODY	08/09/2020	20.5	20.4	0.100	5d030	3837	4.290	39.900	42.900	7.52%
AM5	2300	BODY	07/27/2020	22.5	21.5	0.100	1038	7416	4.970	46.700	49.700	6.42%
AM5	2450	BODY	07/31/2020	21.1	20.1	0.100	921	7416	5.010	50.800	50.100	-1.38%
AM5	2450	BODY	08/05/2020	20.8	19.8	0.100	750	7416	4.930	51.000	49.300	-3.33%
AM8	2450	BODY	08/10/2020	22.4	22.1	0.100	945	7532	5.170	49.400	51.700	4.66%
AM5	2450	BODY	08/13/2020	22.1	21.5	0.100	750	7416	5.090	51.000	50.900	-0.20%
AM5	2600	BODY	07/31/2020	21.1	20.1	0.100	1069	7416	5.380	55.300	53.800	-2.71%
AM5	2600	BODY	08/05/2020	20.8	19.8	0.100	1042	7416	5.350	55.200	53.500	-3.08%
AM4	3500	BODY	08/03/2020	19.5	20.0	0.100	1055	7421	6.170	65.000	61.700	-5.08%
AM4	3700	BODY	08/03/2020	19.5	20.0	0.100	1002	7421	6.210	64.700	62.100	-4.02%
AM2	5250	BODY	08/18/2020	21.9	21.5	0.050	1123	7420	3.480	74.000	69.600	-5.95%
AM2	5600	BODY	08/18/2020	21.9	21.5	0.050	1123	7420	4.000	77.600	80.000	3.09%
AM2	5750	BODY	08/18/2020	21.9	21.5	0.050	1123	7420	3.530	74.700	70.600	-5.49%

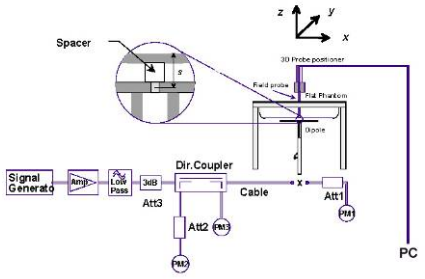


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 Standalone SAR Data

Table 10-1
GPRS 850 MHz Ant 4 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)	(W/kg)	
824.20	128	GSM 850	GPRS	28.2	28.18	-0.04	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	back	1.130	1.005	1.136	0.569	0.572	A1
836.60	190	GSM 850	GPRS	28.2	28.18	0.07	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	back	1.050	1.005	1.055	0.520	0.523	
848.80	251	GSM 850	GPRS	28.2	28.15	-0.02	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	back	0.983	1.012	0.995	0.481	0.487	
824.20	128	GSM 850	GPRS	28.2	28.18	0.00	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	top	0.949	1.005	0.954	0.427	0.429	
836.60	190	GSM 850	GPRS	28.2	28.18	0.02	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	top	0.883	1.005	0.887	0.414	0.416	
848.80	251	GSM 850	GPRS	28.2	28.15	0.02	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	top	0.931	1.012	0.942	0.415	0.420	
836.60	190	GSM 850	GPRS	28.2	28.18	0.09	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	bottom	0.022	1.005	0.022	0.009	0.009	
836.60	190	GSM 850	GPRS	28.2	28.18	0.00	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	right	0.040	1.005	0.040	0.021	0.021	
824.20	128	GSM 850	GPRS	28.2	28.18	-0.02	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	left	0.879	1.005	0.883	0.363	0.365	
836.60	190	GSM 850	GPRS	28.2	28.18	0.06	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	left	0.936	1.005	0.941	0.397	0.399	
848.80	251	GSM 850	GPRS	28.2	28.15	0.03	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	left	0.947	1.012	0.958	0.405	0.410	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-2
GPRS 850 MHz Ant 3B 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)	(W/kg)	
824.20	128	GSM 850	GPRS	24.8	24.74	0.13	Body	0 mm	Ant 3B	DLXD1010Q8MW	2	1:4.15	back	1.040	1.014	1.055	0.524	0.531	
836.60	190	GSM 850	GPRS	24.8	24.69	0.11	Body	0 mm	Ant 3B	DLXD1010Q8MW	2	1:4.15	back	1.060	1.026	1.088	0.536	0.550	
848.80	251	GSM 850	GPRS	24.8	24.72	0.16	Body	0 mm	Ant 3B	DLXD1010Q8MW	2	1:4.15	back	1.090	1.019	1.111	0.549	0.559	
824.20	128	GSM 850	GPRS	24.8	24.74	-0.03	Body	0 mm	Ant 3B	DLXD1010Q8MW	2	1:4.15	top	0.925	1.014	0.938	0.425	0.431	
836.60	190	GSM 850	GPRS	24.8	24.69	0.00	Body	0 mm	Ant 3B	DLXD1010Q8MW	2	1:4.15	top	0.884	1.026	0.907	0.401	0.411	
848.80	251	GSM 850	GPRS	24.8	24.72	-0.02	Body	0 mm	Ant 3B	DLXD1010Q8MW	2	1:4.15	top	0.852	1.019	0.868	0.383	0.390	
836.60	190	GSM 850	GPRS	24.8	24.69	0.00	Body	0 mm	Ant 3B	DLXD1010Q8MW	2	1:4.15	bottom	0.005	1.026	0.005	0.001	0.001	
836.60	190	GSM 850	GPRS	24.8	24.69	0.00	Body	0 mm	Ant 3B	DLXD1010Q8MW	2	1:4.15	right	0.032	1.026	0.033	0.015	0.015	
836.60	190	GSM 850	GPRS	24.8	24.69	0.00	Body	0 mm	Ant 3B	DLXD1010Q8MW	2	1:4.15	left	0.026	1.026	0.027	0.011	0.011	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-3
GPRS 1900 MHz Ant 4 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)	(W/kg)	
1850.20	512	GSM 1900	GPRS	23.0	22.81	-0.02	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	back	1.120	1.045	1.170	0.430	0.449	A2
1880.00	661	GSM 1900	GPRS	23.0	22.84	-0.02	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	back	1.090	1.038	1.131	0.416	0.432	
1909.80	810	GSM 1900	GPRS	23.0	22.84	-0.03	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	back	1.090	1.038	1.131	0.412	0.428	
1880.00	661	GSM 1900	GPRS	23.0	22.84	-0.02	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	top	0.533	1.038	0.553	0.220	0.228	
1880.00	661	GSM 1900	GPRS	23.0	22.84	0.00	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	bottom	0.000	1.038	0.000	0.000	0.000	
1880.00	661	GSM 1900	GPRS	23.0	22.84	0.19	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	right	0.017	1.038	0.018	0.008	0.008	
1880.00	661	GSM 1900	GPRS	23.0	22.84	-0.08	Body	0 mm	Ant 4	DLXD100QQ8MQ	2	1:4.15	left	0.231	1.038	0.240	0.081	0.084	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

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

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Position	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1850.20	512	GSM 1900	GPRS	21.2	20.98	0.01	Body	0 mm	Ant 2A	DLXD100QQ8MQ	2	1:4.15	back	0.928	1.052	0.976	0.418	0.440	
1880.00	661	GSM 1900	GPRS	21.2	20.86	-0.05	Body	0 mm	Ant 2A	DLXD100QQ8MQ	2	1:4.15	back	0.888	1.081	0.960	0.399	0.431	
1909.80	810	GSM 1900	GPRS	21.2	20.70	0.00	Body	0 mm	Ant 2A	DLXD100QQ8MQ	2	1:4.15	back	0.922	1.122	1.034	0.405	0.454	
1880.00	661	GSM 1900	GPRS	21.2	20.86	0.05	Body	0 mm	Ant 2A	DLXD100QQ8MQ	2	1:4.15	top	0.019	1.081	0.021	0.009	0.010	
1880.00	661	GSM 1900	GPRS	21.2	20.86	-0.16	Body	0 mm	Ant 2A	DLXD100QQ8MQ	2	1:4.15	bottom	0.541	1.081	0.585	0.179	0.193	
1880.00	661	GSM 1900	GPRS	21.2	20.86	-0.07	Body	0 mm	Ant 2A	DLXD100QQ8MQ	2	1:4.15	right	0.666	1.081	0.720	0.258	0.279	
1880.00	661	GSM 1900	GPRS	21.2	20.86	0.02	Body	0 mm	Ant 2A	DLXD100QQ8MQ	2	1:4.15	left	0.001	1.081	0.001	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-5
GPRS 1900 MHz Ant 1A 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)	(W/kg)	
1850.20	512	GSM 1900	GPRS	22.0	21.78	0.01	Body	0 mm	Ant 1A	DLXD100QQ8MQ	2	1:4.15	back	0.947	1.052	0.996	0.440	0.463	
1880.00	661	GSM 1900	GPRS	22.0	21.70	-0.07	Body	0 mm	Ant 1A	DLXD100QQ8MQ	2	1:4.15	back	0.981	1.072	1.052	0.454	0.487	
1909.80	810	GSM 1900	GPRS	22.0	21.76	0.02	Body	0 mm	Ant 1A	DLXD100QQ8MQ	2	1:4.15	back	0.987	1.057	1.043	0.484	0.512	
1880.00	661	GSM 1900	GPRS	22.0	21.70	0.08	Body	0 mm	Ant 1A	DLXD100QQ8MQ	2	1:4.15	top	0.018	1.072	0.019	0.008	0.009	
1880.00	661	GSM 1900	GPRS	22.0	21.70	-0.08	Body	0 mm	Ant 1A	DLXD100QQ8MQ	2	1:4.15	bottom	0.478	1.072	0.512	0.166	0.178	
1880.00	661	GSM 1900	GPRS	22.0	21.70	0.00	Body	0 mm	Ant 1A	DLXD100QQ8MQ	2	1:4.15	right	0.000	1.072	0.000	0.000	0.000	
1850.20	512	GSM 1900	GPRS	22.0	21.78	-0.02	Body	0 mm	Ant 1A	DLXD100QQ8MQ	2	1:4.15	left	0.869	1.052	0.914	0.337	0.355	
1880.00	661	GSM 1900	GPRS	22.0	21.70	-0.02	Body	0 mm	Ant 1A	DLXD100QQ8MQ	2	1:4.15	left	0.950	1.072	1.018	0.373	0.400	
1909.80	810	GSM 1900	GPRS	22.0	21.76	0.00	Body	0 mm	Ant 1A	DLXD100QQ8MQ	2	1:4.15	left	1.100	1.057	1.163	0.428	0.452	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-6
GPRS 1900 MHz Ant 3A 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)	(W/kg)	
1880.00	661	GSM 1900	GPRS	20.4	20.24	-0.04	Body	0 mm	Ant 3A	DLXD1010Q8MW	2	1:4.15	back	0.515	1.038	0.535	0.242	0.251	
1880.00	661	GSM 1900	GPRS	20.4	20.24	-0.07	Body	0 mm	Ant 3A	DLXD1010Q8MW	2	1:4.15	top	0.384	1.038	0.399	0.128	0.133	
1880.00	661	GSM 1900	GPRS	20.4	20.24	0.14	Body	0 mm	Ant 3A	DLXD1010Q8MW	2	1:4.15	bottom	0.006	1.038	0.006	0.002	0.002	
1850.20	512	GSM 1900	GPRS	20.4	20.26	-0.08	Body	0 mm	Ant 3A	DLXD1010Q8MW	2	1:4.15	right	0.844	1.033	0.872	0.344	0.355	
1880.00	661	GSM 1900	GPRS	20.4	20.24	-0.09	Body	0 mm	Ant 3A	DLXD1010Q8MW	2	1:4.15	right	0.829	1.038	0.861	0.329	0.342	
1909.80	810	GSM 1900	GPRS	20.4	20.29	-0.07	Body	0 mm	Ant 3A	DLXD1010Q8MW	2	1:4.15	right	0.810	1.026	0.831	0.319	0.327	
1880.00	661	GSM 1900	GPRS	20.4	20.24	0.02	Body	0 mm	Ant 3A	DLXD1010Q8MW	2	1:4.15	left	0.005	1.038	0.005	0.001	0.001	
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 10-7
UMTS 850 MHz Ant 4 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)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
826.40	4132	UMTS 850	RMC	21.1	20.95	0.02	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	back	1.100	1.035	1.139	0.444	0.460	A3
836.60	4183	UMTS 850	RMC	21.1	20.98	0.02	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	back	1.090	1.028	1.121	0.444	0.456	
846.60	4233	UMTS 850	RMC	21.1	20.84	0.02	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	back	0.956	1.062	1.015	0.389	0.413	
826.40	4132	UMTS 850	RMC	21.1	20.95	0.05	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	top	0.803	1.035	0.831	0.367	0.380	
836.60	4183	UMTS 850	RMC	21.1	20.98	-0.05	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	top	0.943	1.028	0.969	0.404	0.415	
846.60	4233	UMTS 850	RMC	21.1	20.84	-0.06	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	top	0.846	1.062	0.898	0.380	0.404	
836.60	4183	UMTS 850	RMC	21.1	20.98	0.00	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	bottom	0.022	1.028	0.023	0.010	0.010	
836.60	4183	UMTS 850	RMC	21.1	20.98	0.08	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	right	0.038	1.028	0.039	0.019	0.020	
826.40	4132	UMTS 850	RMC	21.1	20.95	-0.04	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	left	0.928	1.035	0.960	0.379	0.392	
836.60	4183	UMTS 850	RMC	21.1	20.98	-0.03	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	left	1.000	1.028	1.028	0.413	0.425	
846.60	4233	UMTS 850	RMC	21.1	20.84	0.01	Body	0 mm	Ant 4	DLXD101EQ8MQ	1:1	left	0.958	1.062	1.017	0.404	0.429	
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 3B 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)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
826.40	4132	UMTS 850	RMC	18.1	18.09	0.16	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	back	0.982	1.002	0.984	0.495	0.496	
836.60	4183	UMTS 850	RMC	18.1	18.00	0.11	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	back	0.996	1.023	1.019	0.501	0.513	
846.60	4233	UMTS 850	RMC	18.1	18.10	0.12	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	back	1.090	1.000	1.090	0.530	0.530	
826.40	4132	UMTS 850	RMC	18.1	18.09	0.01	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	top	0.806	1.002	0.808	0.397	0.398	
836.60	4183	UMTS 850	RMC	18.1	18.00	-0.06	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	top	0.836	1.023	0.855	0.392	0.401	
846.60	4233	UMTS 850	RMC	18.1	18.10	-0.01	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	top	0.804	1.000	0.804	0.390	0.390	
836.60	4183	UMTS 850	RMC	18.1	18.00	0.09	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	bottom	0.007	1.023	0.007	0.002	0.002	
836.60	4183	UMTS 850	RMC	18.1	18.00	0.05	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	right	0.103	1.023	0.105	0.050	0.051	
836.60	4183	UMTS 850	RMC	18.1	18.00	0.03	Body	0 mm	Ant 3B	DLXD1010Q8MW	1:1	left	0.011	1.023	0.011	0.005	0.005	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-9
UMTS 1750 MHz Ant 4 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)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1712.40	1312	UMTS 1750	RMC	15.5	15.49	-0.02	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	back	1.020	1.002	1.022	0.423	0.424	
1732.40	1412	UMTS 1750	RMC	15.5	15.32	-0.03	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	back	1.030	1.042	1.073	0.424	0.442	
1752.60	1513	UMTS 1750	RMC	15.5	15.43	-0.01	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	back	1.170	1.016	**1.189**	0.463	**0.470**	A4
1732.40	1412	UMTS 1750	RMC	15.5	15.32	-0.02	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	top	0.641	1.042	0.668	0.269	0.280	
1732.40	1412	UMTS 1750	RMC	15.5	15.32	-0.17	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	bottom	0.001	1.042	0.001	0.001	0.001	
1732.40	1412	UMTS 1750	RMC	15.5	15.32	0.11	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	right	0.027	1.042	0.028	0.014	0.015	
1732.40	1412	UMTS 1750	RMC	15.5	15.32	0.11	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	left	0.570	1.042	0.594	0.230	0.240	
1752.60	1513	UMTS 1750	RMC	15.5	15.43	-0.01	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	back	1.050	1.016	1.067	0.430	0.437	
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 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 (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1712.40	1312	UMTS 1750	RMC	14.9	14.61	-0.15	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	back	0.996	1.069	1.065	0.450	0.481	
1732.40	1412	UMTS 1750	RMC	14.9	14.80	-0.17	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	back	1.020	1.023	1.043	0.446	0.456	
1752.60	1513	UMTS 1750	RMC	14.9	14.65	-0.19	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	back	0.947	1.059	1.003	0.415	0.439	
1732.40	1412	UMTS 1750	RMC	14.9	14.80	0.01	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	top	0.020	1.023	0.020	0.010	0.010	
1732.40	1412	UMTS 1750	RMC	14.9	14.80	0.01	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	bottom	0.462	1.023	0.473	0.154	0.158	
1732.40	1412	UMTS 1750	RMC	14.9	14.80	0.01	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	right	0.686	1.023	0.702	0.278	0.284	
1732.40	1412	UMTS 1750	RMC	14.9	14.80	0.07	Body	0 mm	Ant 2A	DLXD1004Q8MW	1:1	left	0.000	1.023	0.000	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-11
UMTS 1750 MHz Ant 1A 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)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1712.40	1312	UMTS 1750	RMC	15.1	14.64	-0.11	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	back	0.966	1.112	1.074	0.475	0.528	
1732.40	1412	UMTS 1750	RMC	15.1	14.73	0.02	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	back	0.951	1.089	1.036	0.471	0.513	
1752.60	1513	UMTS 1750	RMC	15.1	14.43	0.03	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	back	0.865	1.167	1.009	0.416	0.485	
1732.40	1412	UMTS 1750	RMC	15.1	14.73	0.13	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	top	0.019	1.089	0.021	0.009	0.010	
1732.40	1412	UMTS 1750	RMC	15.1	14.73	-0.13	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	bottom	0.374	1.089	0.407	0.133	0.145	
1732.40	1412	UMTS 1750	RMC	15.1	14.73	0.07	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	right	0.002	1.089	0.002	0.001	0.001	
1712.40	1312	UMTS 1750	RMC	15.1	14.64	0.06	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	left	0.994	1.112	1.105	0.401	0.446	
1732.40	1412	UMTS 1750	RMC	15.1	14.73	0.05	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	left	0.957	1.089	1.042	0.384	0.418	
1752.60	1513	UMTS 1750	RMC	15.1	14.43	0.04	Body	0 mm	Ant 1A	DLXD100LQ8MQ	1:1	left	0.850	1.167	0.992	0.341	0.398	
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 3A 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)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1732.40	1412	UMTS 1750	RMC	14.0	13.99	0.02	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	back	0.467	1.002	0.468	0.215	0.215	
1732.40	1412	UMTS 1750	RMC	14.0	13.99	0.06	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	top	0.316	1.002	0.317	0.107	0.107	
1732.40	1412	UMTS 1750	RMC	14.0	13.99	0.12	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	bottom	0.011	1.002	0.011	0.005	0.005	
1712.40	1312	UMTS 1750	RMC	14.0	13.82	0.04	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	right	0.999	1.042	1.041	0.405	0.422	
1732.40	1412	UMTS 1750	RMC	14.0	13.99	-0.04	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	right	1.060	1.002	1.062	0.424	0.425	
1752.60	1513	UMTS 1750	RMC	14.0	13.73	-0.02	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	right	1.030	1.064	1.096	0.409	0.435	
1732.40	1412	UMTS 1750	RMC	14.0	13.99	0.19	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	left	0.001	1.002	0.001	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-13
UMTS 1900 MHz Ant 4 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)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	16.3	16.27	0.00	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	back	1.080	1.007	1.088	0.406	0.409	
1880.00	9400	UMTS 1900	RMC	16.3	16.27	0.00	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	back	0.875	1.007	0.881	0.361	0.364	
1907.60	9538	UMTS 1900	RMC	16.3	16.28	-0.01	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	back	0.866	1.005	0.870	0.355	0.357	
1880.00	9400	UMTS 1900	RMC	16.3	16.27	-0.01	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	top	0.591	1.007	0.595	0.242	0.244	
1880.00	9400	UMTS 1900	RMC	16.3	16.27	0.15	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	bottom	0.000	1.007	0.000	0.000	0.000	
1880.00	9400	UMTS 1900	RMC	16.3	16.27	0.02	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	right	0.012	1.007	0.012	0.005	0.005	
1880.00	9400	UMTS 1900	RMC	16.3	16.27	-0.02	Body	0 mm	Ant 4	DLXD1005Q8MW	1:1	left	0.303	1.007	0.305	0.107	0.108	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-14
UMTS 1900 MHz Ant 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 (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	14.8	14.66	0.01	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	back	1.090	1.033	1.126	0.485	0.501	
1880.00	9400	UMTS 1900	RMC	14.8	14.58	0.05	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	back	1.030	1.052	1.084	0.453	0.477	
1907.60	9538	UMTS 1900	RMC	14.8	14.51	-0.01	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	back	1.040	1.069	1.112	0.452	0.483	
1880.00	9400	UMTS 1900	RMC	14.8	14.58	0.02	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	top	0.019	1.052	0.020	0.008	0.008	
1880.00	9400	UMTS 1900	RMC	14.8	14.58	-0.16	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	bottom	0.623	1.052	0.655	0.206	0.217	
1852.40	9262	UMTS 1900	RMC	14.8	14.66	-0.02	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	right	0.796	1.033	0.822	0.321	0.332	
1880.00	9400	UMTS 1900	RMC	14.8	14.58	-0.02	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	right	0.779	1.052	0.820	0.315	0.331	
1907.60	9538	UMTS 1900	RMC	14.8	14.51	-0.01	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	right	0.766	1.069	0.819	0.307	0.328	
1880.00	9400	UMTS 1900	RMC	14.8	14.58	-0.05	Body	0 mm	Ant 2A	DLXD101EQ8MQ	1:1	left	0.002	1.052	0.002	0.001	0.001	
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 1A 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)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1852.40	9262	UMTS 1900	RMC	14.8	14.59	0.00	Body	0 mm	Ant 1A	DLXD100DQ8MW	1:1	back	0.732	1.050	0.769	0.350	0.368	
1880.00	9400	UMTS 1900	RMC	14.8	14.48	-0.01	Body	0 mm	Ant 1A	DLXD100DQ8MW	1:1	back	0.830	1.076	0.893	0.395	0.425	
1907.60	9538	UMTS 1900	RMC	14.8	14.61	-0.01	Body	0 mm	Ant 1A	DLXD100DQ8MW	1:1	back	0.959	1.045	1.002	0.445	0.465	
1880.00	9400	UMTS 1900	RMC	14.8	14.48	0.09	Body	0 mm	Ant 1A	DLXD100DQ8MW	1:1	top	0.017	1.076	0.018	0.008	0.009	
1880.00	9400	UMTS 1900	RMC	14.8	14.48	0.11	Body	0 mm	Ant 1A	DLXD100DQ8MW	1:1	bottom	0.414	1.076	0.445	0.148	0.159	
1880.00	9400	UMTS 1900	RMC	14.8	14.48	0.04	Body	0 mm	Ant 1A	DLXD100DQ8MW	1:1	right	0.000	1.076	0.000	0.000	0.000	
1852.40	9262	UMTS 1900	RMC	14.8	14.59	0.04	Body	0 mm	Ant 1A	DLXD100DQ8MW	1:1	left	0.787	1.050	0.826	0.318	0.334	
1880.00	9400	UMTS 1900	RMC	14.8	14.48	-0.10	Body	0 mm	Ant 1A	DLXD100DQ8MW	1:1	left	0.980	1.076	1.054	0.381	0.410	
1907.60	9538	UMTS 1900	RMC	14.8	14.61	0.04	Body	0 mm	Ant 1A	DLXD100DQ8MW	1:1	left	1.110	1.045	1.160	0.431	0.450	A5
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 10-16
UMTS 1900 MHz Ant 3A 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)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1880.00	9400	UMTS 1900	RMC	14.2	13.99	-0.01	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	back	0.651	1.050	0.684	0.304	0.319	
1880.00	9400	UMTS 1900	RMC	14.2	13.99	-0.13	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	top	0.438	1.050	0.460	0.144	0.151	
1880.00	9400	UMTS 1900	RMC	14.2	13.99	0.05	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	bottom	0.007	1.050	0.007	0.003	0.003	
1852.40	9262	UMTS 1900	RMC	14.2	14.20	0.03	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	right	1.090	1.000	1.090	0.432	0.432	
1880.00	9400	UMTS 1900	RMC	14.2	13.99	0.06	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	right	1.030	1.050	1.082	0.407	0.427	
1907.60	9538	UMTS 1900	RMC	14.2	14.07	0.04	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	right	1.060	1.030	1.092	0.421	0.434	
1880.00	9400	UMTS 1900	RMC	14.2	13.99	0.06	Body	0 mm	Ant 3A	DLXD101EQ8MQ	1:1	left	0.005	1.050	0.005	0.001	0.001	
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 4 Body SAR

MEASUREMENT RESULTS																							
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
680.50	133297	Mid	LTE Band 71	20	22.5	22.45	-0.03	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	back	1:1	0.996	1.012	1.008	0.487	0.493	
680.50	133297	Mid	LTE Band 71	20	22.5	22.27	-0.07	0	Ant 4	DLXD101EQ8MQ	QPSK	50	25	0 mm	back	1:1	0.800	1.054	0.843	0.399	0.421	
680.50	133297	Mid	LTE Band 71	20	22.5	22.25	-0.04	0	Ant 4	DLXD101EQ8MQ	QPSK	100	0	0 mm	back	1:1	0.813	1.059	0.861	0.407	0.431	
680.50	133297	Mid	LTE Band 71	20	22.5	22.45	-0.02	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	top	1:1	0.799	1.012	0.809	0.358	0.362	
680.50	133297	Mid	LTE Band 71	20	22.5	22.27	0.00	0	Ant 4	DLXD101EQ8MQ	QPSK	50	25	0 mm	top	1:1	0.724	1.054	0.763	0.318	0.335	
680.50	133297	Mid	LTE Band 71	20	22.5	22.25	-0.01	0	Ant 4	DLXD101EQ8MQ	QPSK	100	0	0 mm	top	1:1	0.737	1.059	0.780	0.322	0.341	
680.50	133297	Mid	LTE Band 71	20	22.5	22.45	-0.07	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	bottom	1:1	0.020	1.012	0.020	0.009	0.009	
680.50	133297	Mid	LTE Band 71	20	22.5	22.27	0.05	0	Ant 4	DLXD101EQ8MQ	QPSK	50	25	0 mm	bottom	1:1	0.022	1.054	0.023	0.009	0.009	
680.50	133297	Mid	LTE Band 71	20	22.5	22.45	0.02	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	right	1:1	0.042	1.012	0.043	0.018	0.018	
680.50	133297	Mid	LTE Band 71	20	22.5	22.27	0.03	0	Ant 4	DLXD101EQ8MQ	QPSK	50	25	0 mm	right	1:1	0.040	1.054	0.042	0.018	0.019	
680.50	133297	Mid	LTE Band 71	20	22.5	22.45	-0.06	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	left	1:1	0.974	1.012	0.986	0.363	0.367	
680.50	133297	Mid	LTE Band 71	20	22.5	22.27	0.02	0	Ant 4	DLXD101EQ8MQ	QPSK	50	25	0 mm	left	1:1	0.771	1.054	0.813	0.295	0.311	
680.50	133297	Mid	LTE Band 71	20	22.5	22.25	0.01	0	Ant 4	DLXD101EQ8MQ	QPSK	100	0	0 mm	left	1:1	0.777	1.059	0.823	0.299	0.317	
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 3B Body SAR

MEASUREMENT RESULTS																							
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
680.50	133297	Mid	LTE Band 71	20	20.1	20.00	0.01	0	Ant 3B	DLXD1010Q8MW	QPSK	1	99	0 mm	back	1:1	1.060	1.023	1.084	0.538	0.550	
680.50	133297	Mid	LTE Band 71	20	20.1	20.03	0.05	0	Ant 3B	DLXD1010Q8MW	QPSK	50	50	0 mm	back	1:1	1.060	1.016	1.077	0.536	0.545	
680.50	133297	Mid	LTE Band 71	20	20.1	19.93	0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	100	0	0 mm	back	1:1	1.070	1.040	1.113	0.539	0.561	
680.50	133297	Mid	LTE Band 71	20	20.1	20.00	0.05	0	Ant 3B	DLXD1010Q8MW	QPSK	1	99	0 mm	top	1:1	1.120	1.023	1.146	0.537	0.549	
680.50	133297	Mid	LTE Band 71	20	20.1	20.03	-0.04	0	Ant 3B	DLXD1010Q8MW	QPSK	50	50	0 mm	top	1:1	1.170	1.016	**1.189**	0.536	**0.545**	A6
680.50	133297	Mid	LTE Band 71	20	20.1	19.93	-0.01	0	Ant 3B	DLXD1010Q8MW	QPSK	100	0	0 mm	top	1:1	1.120	1.040	1.165	0.536	0.557	
680.50	133297	Mid	LTE Band 71	20	20.1	20.00	0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	1	99	0 mm	bottom	1:1	0.012	1.023	0.012	0.005	0.005	
680.50	133297	Mid	LTE Band 71	20	20.1	20.03	0.12	0	Ant 3B	DLXD1010Q8MW	QPSK	50	50	0 mm	bottom	1:1	0.008	1.016	0.008	0.003	0.003	
680.50	133297	Mid	LTE Band 71	20	20.1	20.00	0.03	0	Ant 3B	DLXD1010Q8MW	QPSK	1	99	0 mm	right	1:1	0.129	1.023	0.132	0.056	0.057	
680.50	133297	Mid	LTE Band 71	20	20.1	20.03	-0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	50	50	0 mm	right	1:1	0.126	1.016	0.128	0.055	0.056	
680.50	133297	Mid	LTE Band 71	20	20.1	20.00	0.04	0	Ant 3B	DLXD1010Q8MW	QPSK	1	99	0 mm	left	1:1	0.013	1.023	0.013	0.006	0.006	
680.50	133297	Mid	LTE Band 71	20	20.1	20.03	0.20	0	Ant 3B	DLXD1010Q8MW	QPSK	50	50	0 mm	left	1:1	0.016	1.016	0.016	0.008	0.008	
680.50	133297	Mid	LTE Band 71	20	20.1	20.03	-0.04	0	Ant 3B	DLXD1010Q8MW	QPSK	50	50	0 mm	top	1:1	1.140	1.016	1.158	0.540	0.549	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram													

Note: Blue entry represents variability measurement.

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Table 10-19
LTE Band 12 Ant 4 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
707.50	23095	Mid	LTE Band 12	10	20.9	20.50	0.05	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	back	1:1	0.955	1.096	1.047	0.419	0.459	A7
707.50	23095	Mid	LTE Band 12	10	20.9	20.45	0.00	0	Ant 4	DLXD1010Q8MW	QPSK	25	25	0 mm	back	1:1	0.901	1.109	0.999	0.397	0.440	
707.50	23095	Mid	LTE Band 12	10	20.9	20.39	0.01	0	Ant 4	DLXD1010Q8MW	QPSK	50	0	0 mm	back	1:1	0.881	1.125	0.991	0.384	0.432	
707.50	23095	Mid	LTE Band 12	10	20.9	20.50	0.04	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	top	1:1	0.661	1.096	0.724	0.275	0.301	
707.50	23095	Mid	LTE Band 12	10	20.9	20.45	0.01	0	Ant 4	DLXD1010Q8MW	QPSK	25	25	0 mm	top	1:1	0.611	1.109	0.678	0.264	0.293	
707.50	23095	Mid	LTE Band 12	10	20.9	20.39	0.01	0	Ant 4	DLXD1010Q8MW	QPSK	50	0	0 mm	top	1:1	0.601	1.125	0.676	0.257	0.289	
707.50	23095	Mid	LTE Band 12	10	20.9	20.50	0.07	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	bottom	1:1	0.024	1.096	0.026	0.010	0.011	
707.50	23095	Mid	LTE Band 12	10	20.9	20.45	0.08	0	Ant 4	DLXD1010Q8MW	QPSK	25	25	0 mm	bottom	1:1	0.030	1.109	0.033	0.013	0.014	
707.50	23095	Mid	LTE Band 12	10	20.9	20.50	0.03	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	right	1:1	0.026	1.096	0.028	0.012	0.013	
707.50	23095	Mid	LTE Band 12	10	20.9	20.45	0.04	0	Ant 4	DLXD1010Q8MW	QPSK	25	25	0 mm	right	1:1	0.032	1.109	0.035	0.014	0.016	
707.50	23095	Mid	LTE Band 12	10	20.9	20.50	-0.02	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	left	1:1	0.691	1.096	0.757	0.253	0.277	
707.50	23095	Mid	LTE Band 12	10	20.9	20.45	0.00	0	Ant 4	DLXD1010Q8MW	QPSK	25	25	0 mm	left	1:1	0.701	1.109	0.777	0.261	0.289	
707.50	23095	Mid	LTE Band 12	10	20.9	20.39	-0.02	0	Ant 4	DLXD1010Q8MW	QPSK	50	0	0 mm	left	1:1	0.664	1.125	0.747	0.250	0.281	
707.50	23095	Mid	LTE Band 12	10	17.9	17.75	-0.04	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	back	1:1	0.542	1.035	0.561	0.243	0.252	
707.50	23095	Mid	LTE Band 12	10	17.9	17.47	-0.04	0	Ant 4	DLXD1010Q8MW	QPSK	25	25	0 mm	back	1:1	0.471	1.104	0.520	0.212	0.234	
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 10-20
LTE Band 12 Ant 3B Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
707.50	23095	Mid	LTE Band 12	10	18.9	18.31	0.00	0	Ant 3B	DLXD1010Q8MW	QPSK	1	49	0 mm	back	1:1	0.753	1.146	0.863	0.369	0.423	
707.50	23095	Mid	LTE Band 12	10	18.9	18.20	-0.05	0	Ant 3B	DLXD1010Q8MW	QPSK	25	25	0 mm	back	1:1	0.731	1.175	0.859	0.357	0.419	
707.50	23095	Mid	LTE Band 12	10	18.9	18.12	0.11	0	Ant 3B	DLXD1010Q8MW	QPSK	50	0	0 mm	back	1:1	0.868	1.197	1.039	0.432	0.517	
707.50	23095	Mid	LTE Band 12	10	18.9	18.31	-0.01	0	Ant 3B	DLXD1010Q8MW	QPSK	1	49	0 mm	top	1:1	0.936	1.146	1.073	0.435	0.499	
707.50	23095	Mid	LTE Band 12	10	18.9	18.20	0.00	0	Ant 3B	DLXD1010Q8MW	QPSK	25	25	0 mm	top	1:1	0.943	1.175	1.108	0.427	0.502	
707.50	23095	Mid	LTE Band 12	10	18.9	18.12	-0.01	0	Ant 3B	DLXD1010Q8MW	QPSK	50	0	0 mm	top	1:1	0.908	1.197	1.087	0.418	0.500	
707.50	23095	Mid	LTE Band 12	10	18.9	18.31	0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	1	49	0 mm	bottom	1:1	0.005	1.146	0.006	0.002	0.002	
707.50	23095	Mid	LTE Band 12	10	18.9	18.20	0.06	0	Ant 3B	DLXD1010Q8MW	QPSK	25	25	0 mm	bottom	1:1	0.005	1.175	0.006	0.002	0.002	
707.50	23095	Mid	LTE Band 12	10	18.9	18.31	0.04	0	Ant 3B	DLXD1010Q8MW	QPSK	1	49	0 mm	right	1:1	0.086	1.146	0.099	0.039	0.045	
707.50	23095	Mid	LTE Band 12	10	18.9	18.20	0.05	0	Ant 3B	DLXD1010Q8MW	QPSK	25	25	0 mm	right	1:1	0.087	1.175	0.102	0.039	0.046	
707.50	23095	Mid	LTE Band 12	10	18.9	18.31	0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	1	49	0 mm	left	1:1	0.010	1.146	0.011	0.004	0.005	
707.50	23095	Mid	LTE Band 12	10	18.9	18.20	0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	25	25	0 mm	left	1:1	0.010	1.175	0.012	0.004	0.005	
707.50	23095	Mid	LTE Band 12	10	15.9	15.90	-0.03	0	Ant 3B	DLXD1010Q8MW	QPSK	1	49	0 mm	back	1:1	0.473	1.000	0.473	0.236	0.236	
707.50	23095	Mid	LTE Band 12	10	15.9	15.90	0.00	0	Ant 3B	DLXD1010Q8MW	QPSK	25	25	0 mm	back	1:1	0.463	1.000	0.463	0.230	0.230	
707.50	23095	Mid	LTE Band 12	10	15.9	15.90	0.04	0	Ant 3B	DLXD1010Q8MW	QPSK	1	49	0 mm	top	1:1	0.532	1.000	0.532	0.251	0.251	
707.50	23095	Mid	LTE Band 12	10	15.9	15.90	0.04	0	Ant 3B	DLXD1010Q8MW	QPSK	25	25	0 mm	top	1:1	0.537	1.000	0.537	0.250	0.250	
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 10-21
LTE Band 13 Ant 4 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
782.00	23230	Mid	LTE Band 13	10	21.1	20.88	-0.03	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	back	1:1	1.040	1.052	1.094	0.504	0.530	
782.00	23230	Mid	LTE Band 13	10	21.1	20.70	-0.07	0	Ant 4	DLXD1010Q8MW	QPSK	25	25	0 mm	back	1:1	0.956	1.096	1.048	0.453	0.496	
782.00	23230	Mid	LTE Band 13	10	21.1	20.69	-0.01	0	Ant 4	DLXD1010Q8MW	QPSK	50	0	0 mm	back	1:1	0.993	1.099	1.091	0.470	0.517	
782.00	23230	Mid	LTE Band 13	10	21.1	20.88	0.06	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	top	1:1	0.720	1.052	0.757	0.329	0.346	
782.00	23230	Mid	LTE Band 13	10	21.1	20.70	0.02	0	Ant 4	DLXD1010Q8MW	QPSK	25	25	0 mm	top	1:1	0.660	1.096	0.723	0.294	0.322	
782.00	23230	Mid	LTE Band 13	10	21.1	20.88	0.06	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	bottom	1:1	0.023	1.052	0.024	0.010	0.011	
782.00	23230	Mid	LTE Band 13	10	21.1	20.70	0.04	0	Ant 4	DLXD1010Q8MW	QPSK	25	25	0 mm	bottom	1:1	0.017	1.096	0.019	0.007	0.008	
782.00	23230	Mid	LTE Band 13	10	21.1	20.88	-0.07	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	right	1:1	0.032	1.052	0.034	0.016	0.017	
782.00	23230	Mid	LTE Band 13	10	21.1	20.70	0.03	0	Ant 4	DLXD1010Q8MW	QPSK	25	25	0 mm	right	1:1	0.033	1.096	0.036	0.016	0.018	
782.00	23230	Mid	LTE Band 13	10	21.1	20.88	-0.10	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	left	1:1	0.715	1.052	0.752	0.297	0.312	
782.00	23230	Mid	LTE Band 13	10	21.1	20.70	0.11	0	Ant 4	DLXD1010Q8MW	QPSK	25	25	0 mm	left	1:1	0.679	1.096	0.744	0.297	0.326	
782.00	23230	Mid	LTE Band 13	10	18.1	18.05	-0.04	0	Ant 4	DLXD1010Q8MW	QPSK	1	49	0 mm	back	1:1	0.492	1.012	0.498	0.240	0.243	
782.00	23230	Mid	LTE Band 13	10	18.1	18.10	0.04	0	Ant 4	DLXD1010Q8MW	QPSK	25	25	0 mm	back	1:1	0.364	1.000	0.364	0.204	0.204	
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 10-22
LTE Band 13 Ant 3B Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																								
782.00	23230	Mid	LTE Band 13	10	19.2	19.20	0.00	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	back	1:1	1.090	1.000	1.090	0.552	0.552	
782.00	23230	Mid	LTE Band 13	10	19.2	19.20	0.00	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	back	1:1	1.120	1.000	1.120	0.565	0.565	
782.00	23230	Mid	LTE Band 13	10	19.2	19.15	0.01	0	Ant 3B	DLXD1010Q8MW	QPSK	50	0	0 mm	back	1:1	1.120	1.012	1.133	0.564	0.571	A8
782.00	23230	Mid	LTE Band 13	10	19.2	19.20	-0.07	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	top	1:1	0.883	1.000	0.883	0.408	0.408	
782.00	23230	Mid	LTE Band 13	10	19.2	19.20	-0.06	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	top	1:1	0.872	1.000	0.872	0.407	0.407	
782.00	23230	Mid	LTE Band 13	10	19.2	19.15	-0.06	0	Ant 3B	DLXD1010Q8MW	QPSK	50	0	0 mm	top	1:1	0.873	1.012	0.883	0.405	0.410	
782.00	23230	Mid	LTE Band 13	10	19.2	19.20	0.04	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	bottom	1:1	0.009	1.000	0.009	0.004	0.004	
782.00	23230	Mid	LTE Band 13	10	19.2	19.20	0.03	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	bottom	1:1	0.004	1.000	0.004	0.002	0.002	
782.00	23230	Mid	LTE Band 13	10	19.2	19.20	-0.03	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	right	1:1	0.149	1.000	0.149	0.071	0.071	
782.00	23230	Mid	LTE Band 13	10	19.2	19.20	-0.01	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	right	1:1	0.134	1.000	0.134	0.064	0.064	
782.00	23230	Mid	LTE Band 13	10	19.2	19.20	0.18	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	left	1:1	0.017	1.000	0.017	0.008	0.008	
782.00	23230	Mid	LTE Band 13	10	19.2	19.20	0.03	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	left	1:1	0.017	1.000	0.017	0.008	0.008	
782.00	23230	Mid	LTE Band 13	10	16.2	16.10	0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	back	1:1	0.538	1.023	0.550	0.270	0.276	
782.00	23230	Mid	LTE Band 13	10	16.2	16.07	0.13	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	back	1:1	0.539	1.030	0.555	0.270	0.278	
782.00	23230	Mid	LTE Band 13	10	16.2	16.10	-0.07	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	top	1:1	0.491	1.023	0.502	0.220	0.225	
782.00	23230	Mid	LTE Band 13	10	16.2	16.07	-0.05	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	top	1:1	0.480	1.030	0.494	0.216	0.222	
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 10-23
LTE Band 14 Ant 4 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																								
793.00	23330	Mid	LTE Band 14	10	21.1	20.87	-0.10	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	back	1:1	0.759	1.054	0.800	0.407	0.429	
793.00	23330	Mid	LTE Band 14	10	21.1	20.93	-0.06	0	Ant 4	DLXD101EQ8MQ	QPSK	25	0	0 mm	back	1:1	0.731	1.040	0.760	0.392	0.408	
793.00	23330	Mid	LTE Band 14	10	21.1	20.86	-0.13	0	Ant 4	DLXD101EQ8MQ	QPSK	50	0	0 mm	back	1:1	0.723	1.057	0.764	0.387	0.409	
793.00	23330	Mid	LTE Band 14	10	21.1	20.87	0.03	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	top	1:1	0.747	1.054	0.787	0.331	0.349	
793.00	23330	Mid	LTE Band 14	10	21.1	20.93	-0.02	0	Ant 4	DLXD101EQ8MQ	QPSK	25	0	0 mm	top	1:1	0.723	1.040	0.752	0.316	0.329	
793.00	23330	Mid	LTE Band 14	10	21.1	20.87	0.02	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	bottom	1:1	0.023	1.054	0.024	0.010	0.011	
793.00	23330	Mid	LTE Band 14	10	21.1	20.93	-0.08	0	Ant 4	DLXD101EQ8MQ	QPSK	25	0	0 mm	bottom	1:1	0.025	1.040	0.026	0.011	0.011	
793.00	23330	Mid	LTE Band 14	10	21.1	20.87	0.19	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	right	1:1	0.038	1.054	0.040	0.018	0.019	
793.00	23330	Mid	LTE Band 14	10	21.1	20.93	0.08	0	Ant 4	DLXD101EQ8MQ	QPSK	25	0	0 mm	right	1:1	0.040	1.040	0.042	0.019	0.020	
793.00	23330	Mid	LTE Band 14	10	21.1	20.87	0.03	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	left	1:1	0.762	1.054	0.803	0.327	0.345	
793.00	23330	Mid	LTE Band 14	10	21.1	20.93	0.05	0	Ant 4	DLXD101EQ8MQ	QPSK	25	0	0 mm	left	1:1	0.762	1.040	0.792	0.325	0.338	
793.00	23330	Mid	LTE Band 14	10	21.1	20.86	0.02	0	Ant 4	DLXD101EQ8MQ	QPSK	50	0	0 mm	left	1:1	0.902	1.057	0.953	0.340	0.359	
793.00	23330	Mid	LTE Band 14	10	18.1	17.88	-0.01	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	back	1:1	0.358	1.052	0.377	0.172	0.181	
793.00	23330	Mid	LTE Band 14	10	18.1	17.95	0.01	0	Ant 4	DLXD101EQ8MQ	QPSK	25	0	0 mm	back	1:1	0.344	1.035	0.356	0.167	0.173	
793.00	23330	Mid	LTE Band 14	10	18.1	17.88	-0.03	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	left	1:1	0.397	1.052	0.418	0.159	0.167	
793.00	23330	Mid	LTE Band 14	10	18.1	17.95	0.02	0	Ant 4	DLXD101EQ8MQ	QPSK	25	0	0 mm	left	1:1	0.390	1.035	0.404	0.157	0.162	
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 10-24
LTE Band 14 Ant 3B Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																								
793.00	23330	Mid	LTE Band 14	10	19.2	18.75	-0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	back	1:1	0.939	1.109	1.041	0.477	0.529	
793.00	23330	Mid	LTE Band 14	10	19.2	18.82	0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	back	1:1	0.966	1.091	1.054	0.487	0.531	
793.00	23330	Mid	LTE Band 14	10	19.2	18.74	0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	50	0	0 mm	back	1:1	0.974	1.112	1.083	0.491	0.546	A9
793.00	23330	Mid	LTE Band 14	10	19.2	18.75	-0.01	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	top	1:1	0.854	1.109	0.947	0.398	0.441	
793.00	23330	Mid	LTE Band 14	10	19.2	18.82	-0.01	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	top	1:1	0.851	1.091	0.928	0.396	0.432	
793.00	23330	Mid	LTE Band 14	10	19.2	18.74	0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	50	0	0 mm	top	1:1	0.849	1.112	0.944	0.397	0.441	
793.00	23330	Mid	LTE Band 14	10	19.2	18.75	0.08	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	bottom	1:1	0.005	1.109	0.006	0.002	0.002	
793.00	23330	Mid	LTE Band 14	10	19.2	18.82	-0.11	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	bottom	1:1	0.006	1.091	0.007	0.003	0.003	
793.00	23330	Mid	LTE Band 14	10	19.2	18.75	0.03	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	right	1:1	0.124	1.109	0.138	0.060	0.067	
793.00	23330	Mid	LTE Band 14	10	19.2	18.82	0.07	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	right	1:1	0.119	1.091	0.130	0.057	0.062	
793.00	23330	Mid	LTE Band 14	10	19.2	18.75	0.16	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	left	1:1	0.018	1.109	0.020	0.009	0.010	
793.00	23330	Mid	LTE Band 14	10	19.2	18.82	0.04	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	left	1:1	0.018	1.091	0.020	0.008	0.009	
793.00	23330	Mid	LTE Band 14	10	16.2	16.17	0.11	0	Ant 3B	DLXD1010Q8MW	QPSK	1	49	0 mm	back	1:1	0.629	1.007	0.633	0.316	0.318	
793.00	23330	Mid	LTE Band 14	10	16.2	16.20	0.07	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	back	1:1	0.615	1.000	0.615	0.307	0.307	
793.00	23330	Mid	LTE Band 14	10	16.2	16.17	-0.05	0	Ant 3B	DLXD1010Q8MW	QPSK	1	49	0 mm	top	1:1	0.538	1.007	0.542	0.247	0.249	
793.00	23330	Mid	LTE Band 14	10	16.2	16.20	-0.05	0	Ant 3B	DLXD1010Q8MW	QPSK	25	12	0 mm	top	1:1	0.536	1.000	0.536	0.245	0.245	
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 10-25
LTE Band 26 (Cell) Ant 4 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
819.00	26740	Low	LTE Band 26 (Cell)	10	21.1	20.91	-0.14	0	Ant 4	DLXD101EQ8MQ	QPSK	1	49	0 mm	back	1:1	0.861	1.045	0.900	0.439	0.459	
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.1	20.87	-0.14	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	back	1:1	0.835	1.054	0.880	0.427	0.450	
844.00	26990	High	LTE Band 26 (Cell)	10	21.1	20.85	-0.13	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	back	1:1	0.786	1.059	0.832	0.404	0.428	
819.00	26740	Low	LTE Band 26 (Cell)	10	21.1	20.89	-0.12	0	Ant 4	DLXD101EQ8MQ	QPSK	25	25	0 mm	back	1:1	0.898	1.050	0.943	0.458	0.481	
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.1	20.82	-0.01	0	Ant 4	DLXD101EQ8MQ	QPSK	25	0	0 mm	back	1:1	0.829	1.067	0.885	0.424	0.452	
844.00	26990	High	LTE Band 26 (Cell)	10	21.1	21.04	-0.14	0	Ant 4	DLXD101EQ8MQ	QPSK	25	12	0 mm	back	1:1	0.766	1.014	0.777	0.395	0.401	
819.00	26740	Low	LTE Band 26 (Cell)	10	21.1	20.90	-0.01	0	Ant 4	DLXD101EQ8MQ	QPSK	50	0	0 mm	back	1:1	0.831	1.047	0.870	0.445	0.466	
819.00	26740	Low	LTE Band 26 (Cell)	10	21.1	20.91	0.00	0	Ant 4	DLXD101EQ8MQ	QPSK	1	49	0 mm	top	1:1	0.908	1.045	0.949	0.406	0.424	
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.1	20.87	0.01	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	top	1:1	0.908	1.054	0.957	0.406	0.428	
844.00	26990	High	LTE Band 26 (Cell)	10	21.1	20.85	-0.01	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	top	1:1	0.949	1.059	1.005	0.421	0.446	
819.00	26740	Low	LTE Band 26 (Cell)	10	21.1	20.89	-0.02	0	Ant 4	DLXD101EQ8MQ	QPSK	25	25	0 mm	top	1:1	0.915	1.050	0.961	0.406	0.426	
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.1	20.82	0.01	0	Ant 4	DLXD101EQ8MQ	QPSK	25	0	0 mm	top	1:1	0.929	1.067	0.991	0.412	0.440	
844.00	26990	High	LTE Band 26 (Cell)	10	21.1	21.04	-0.02	0	Ant 4	DLXD101EQ8MQ	QPSK	25	12	0 mm	top	1:1	0.962	1.014	0.975	0.423	0.429	
819.00	26740	Low	LTE Band 26 (Cell)	10	21.1	20.90	0.02	0	Ant 4	DLXD101EQ8MQ	QPSK	50	0	0 mm	top	1:1	0.909	1.047	0.952	0.404	0.423	
819.00	26740	Low	LTE Band 26 (Cell)	10	21.1	20.91	0.16	0	Ant 4	DLXD101EQ8MQ	QPSK	1	49	0 mm	bottom	1:1	0.027	1.045	0.028	0.012	0.013	
844.00	26990	High	LTE Band 26 (Cell)	10	21.1	21.04	0.04	0	Ant 4	DLXD101EQ8MQ	QPSK	25	12	0 mm	bottom	1:1	0.040	1.014	0.041	0.019	0.019	
819.00	26740	Low	LTE Band 26 (Cell)	10	21.1	20.91	0.03	0	Ant 4	DLXD101EQ8MQ	QPSK	1	49	0 mm	right	1:1	0.033	1.045	0.034	0.016	0.017	
844.00	26990	High	LTE Band 26 (Cell)	10	21.1	21.04	0.05	0	Ant 4	DLXD101EQ8MQ	QPSK	25	12	0 mm	right	1:1	0.052	1.014	0.053	0.026	0.026	
819.00	26740	Low	LTE Band 26 (Cell)	10	21.1	20.91	0.03	0	Ant 4	DLXD101EQ8MQ	QPSK	1	49	0 mm	left	1:1	1.120	1.045	1.170	0.452	0.472	
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.1	20.87	0.01	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	left	1:1	1.030	1.054	1.086	0.456	0.481	
844.00	26990	High	LTE Band 26 (Cell)	10	21.1	20.85	0.05	0	Ant 4	DLXD101EQ8MQ	QPSK	1	0	0 mm	left	1:1	1.100	1.059	1.165	0.462	0.489	
819.00	26740	Low	LTE Band 26 (Cell)	10	21.1	20.89	0.03	0	Ant 4	DLXD101EQ8MQ	QPSK	25	25	0 mm	left	1:1	1.120	1.050	1.176	0.451	0.474	
831.50	26865	Mid	LTE Band 26 (Cell)	10	21.1	20.82	0.03	0	Ant 4	DLXD101EQ8MQ	QPSK	25	0	0 mm	left	1:1	1.030	1.067	1.099	0.447	0.477	
844.00	26990	High	LTE Band 26 (Cell)	10	21.1	21.04	0.05	0	Ant 4	DLXD101EQ8MQ	QPSK	25	12	0 mm	left	1:1	1.170	1.014	**1.186**	0.476	**0.483**	A10
819.00	26740	Low	LTE Band 26 (Cell)	10	21.1	20.90	0.05	0	Ant 4	DLXD101EQ8MQ	QPSK	50	0	0 mm	left	1:1	1.120	1.047	1.173	0.449	0.470	
844.00	26990	High	LTE Band 26 (Cell)	10	21.1	21.04	0.05	0	Ant 4	DLXD101EQ8MQ	QPSK	25	12	0 mm	left	1:1	1.130	1.014	1.146	0.470	0.477	
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 10-26
LTE Band 26 (Cell) Ant 3B Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.9	17.88	0.09	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	back	1:1	0.997	1.005	1.002	0.508	0.511	
831.50	26865	Mid	LTE Band 26 (Cell)	10	17.9	17.89	0.14	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	back	1:1	1.080	1.002	1.082	0.544	0.545	
844.00	26990	High	LTE Band 26 (Cell)	10	17.9	17.90	-0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	1	25	0 mm	back	1:1	0.992	1.000	0.992	0.479	0.479	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.9	17.84	-0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	25	0	0 mm	back	1:1	0.982	1.014	0.996	0.471	0.478	
831.50	26865	Mid	LTE Band 26 (Cell)	10	17.9	17.89	0.15	0	Ant 3B	DLXD1010Q8MW	QPSK	25	0	0 mm	back	1:1	1.080	1.002	1.082	0.546	0.547	
844.00	26990	High	LTE Band 26 (Cell)	10	17.9	17.90	0.13	0	Ant 3B	DLXD1010Q8MW	QPSK	25	0	0 mm	back	1:1	1.110	1.000	1.110	0.556	0.556	
831.50	26865	Mid	LTE Band 26 (Cell)	10	17.9	17.89	-0.03	0	Ant 3B	DLXD1010Q8MW	QPSK	50	0	0 mm	back	1:1	1.060	1.002	1.062	0.519	0.520	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.9	17.88	-0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	top	1:1	0.885	1.005	0.889	0.430	0.432	
831.50	26865	Mid	LTE Band 26 (Cell)	10	17.9	17.89	-0.04	0	Ant 3B	DLXD1010Q8MW	QPSK	1	0	0 mm	top	1:1	0.853	1.002	0.855	0.414	0.415	
844.00	26990	High	LTE Band 26 (Cell)	10	17.9	17.90	-0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	1	25	0 mm	top	1:1	0.887	1.000	0.887	0.406	0.406	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.9	17.84	-0.04	0	Ant 3B	DLXD1010Q8MW	QPSK	25	0	0 mm	top	1:1	0.866	1.014	0.878	0.420	0.426	
831.50	26865	Mid	LTE Band 26 (Cell)	10	17.9	17.89	-0.06	0	Ant 3B	DLXD1010Q8MW	QPSK	25	0	0 mm	top	1:1	0.892	1.002	0.894	0.425	0.426	
844.00	26990	High	LTE Band 26 (Cell)	10	17.9	17.90	-0.04	0	Ant 3B	DLXD1010Q8MW	QPSK	25	0	0 mm	top	1:1	0.901	1.000	0.901	0.412	0.412	
831.50	26865	Mid	LTE Band 26 (Cell)	10	17.9	17.89	-0.04	0	Ant 3B	DLXD1010Q8MW	QPSK	50	0	0 mm	top	1:1	0.889	1.002	0.891	0.410	0.411	
844.00	26990	High	LTE Band 26 (Cell)	10	17.9	17.90	0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	1	25	0 mm	bottom	1:1	0.003	1.000	0.003	0.001	0.001	
844.00	26990	High	LTE Band 26 (Cell)	10	17.9	17.90	0.03	0	Ant 3B	DLXD1010Q8MW	QPSK	25	0	0 mm	bottom	1:1	0.007	1.000	0.007	0.002	0.002	
844.00	26990	High	LTE Band 26 (Cell)	10	17.9	17.90	-0.07	0	Ant 3B	DLXD1010Q8MW	QPSK	1	25	0 mm	right	1:1	0.123	1.000	0.123	0.061	0.061	
844.00	26990	High	LTE Band 26 (Cell)	10	17.9	17.90	-0.02	0	Ant 3B	DLXD1010Q8MW	QPSK	25	0	0 mm	right	1:1	0.122	1.000	0.122	0.061	0.061	
844.00	26990	High	LTE Band 26 (Cell)	10	17.9	17.90	0.15	0	Ant 3B	DLXD1010Q8MW	QPSK	1	25	0 mm	left	1:1	0.017	1.000	0.017	0.007	0.007	
844.00	26990	High	LTE Band 26 (Cell)	10	17.9	17.90	0.08	0	Ant 3B	DLXD1010Q8MW	QPSK	25	0	0 mm	left	1:1	0.017	1.000	0.017	0.007	0.007	
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 10-27
LTE Band 5 (Cell) Ant 4 Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.83	-0.06	0	Ant 4	DLXD100QQ8MQ	QPSK	1	25	0 mm	back	1:1	1.060	1.064	1.128	0.576	0.613	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.81	-0.04	0	Ant 4	DLXD100QQ8MQ	QPSK	25	25	0 mm	back	1:1	1.050	1.069	1.122	0.575	0.615	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.80	-0.04	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	1.100	1.072	1.179	0.448	0.480	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.93	0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	1.140	1.040	**1.186**	0.475	**0.494**	
829.30	20453	Mid	LTE Band 5 (Cell)	5								25	0									
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.83	-0.07	0	Ant 4	DLXD100QQ8MQ	QPSK	1	25	0 mm	top	1:1	0.944	1.064	1.004	0.404	0.430	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.81	-0.06	0	Ant 4	DLXD100QQ8MQ	QPSK	25	25	0 mm	top	1:1	0.968	1.069	1.035	0.411	0.439	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.80	-0.07	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	top	1:1	0.956	1.072	1.025	0.407	0.436	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.83	-0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	1	25	0 mm	bottom	1:1	0.025	1.064	0.027	0.013	0.014	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.81	0.15	0	Ant 4	DLXD100QQ8MQ	QPSK	25	25	0 mm	bottom	1:1	0.035	1.069	0.037	0.017	0.018	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.83	0.09	0	Ant 4	DLXD100QQ8MQ	QPSK	1	25	0 mm	right	1:1	0.047	1.064	0.050	0.023	0.024	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.81	0.08	0	Ant 4	DLXD100QQ8MQ	QPSK	25	25	0 mm	right	1:1	0.056	1.069	0.060	0.027	0.029	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.83	0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	1	25	0 mm	left	1:1	1.010	1.064	1.075	0.454	0.483	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.81	0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	25	25	0 mm	left	1:1	1.030	1.069	1.101	0.462	0.494	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.1	20.80	0.04	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	left	1:1	1.020	1.072	1.093	0.455	0.488	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.1	18.04	0.05	0	Ant 4	DLXD100QQ8MQ	QPSK	1	25	0 mm	back	1:1	0.464	1.014	0.470	0.228	0.231	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.1	17.99	-0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	25	12	0 mm	back	1:1	0.465	1.026	0.477	0.227	0.233	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.1	18.04	-0.09	0	Ant 4	DLXD100QQ8MQ	QPSK	1	25	0 mm	top	1:1	0.412	1.014	0.418	0.185	0.188	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.1	17.99	-0.06	0	Ant 4	DLXD100QQ8MQ	QPSK	25	12	0 mm	top	1:1	0.408	1.026	0.419	0.183	0.188	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.1	18.04	-0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	1	25	0 mm	left	1:1	0.388	1.014	0.393	0.174	0.176	
836.50	20525	Mid	LTE Band 5 (Cell)	10	18.1	17.99	-0.04	0	Ant 4	DLXD100QQ8MQ	QPSK	25	12	0 mm	left	1:1	0.385	1.026	0.395	0.172	0.176	
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 10-28
LTE Band 5 (Cell) Ant 3B Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.9	17.79	0.15	0	Ant 3B	DLXD1010Q8MV	QPSK	1	49	0 mm	back	1:1	1.090	1.026	1.118	0.543	0.557	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.9	17.78	0.17	0	Ant 3B	DLXD1010Q8MV	QPSK	25	25	0 mm	back	1:1	1.070	1.028	1.100	0.534	0.549	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.9	17.76	0.18	0	Ant 3B	DLXD1010Q8MV	QPSK	50	0	0 mm	back	1:1	1.150	1.033	**1.188**	0.549	**0.567**	A11
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.9	17.55	0.10	0	Ant 3B	DLXD1010Q8MV	QPSK	50	0	0 mm	back	1:1	1.050	1.084	1.138	0.505	0.547	
829.30	20453	Mid	LTE Band 5 (Cell)	5								25	0									
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.9	17.79	-0.06	0	Ant 3B	DLXD1010Q8MV	QPSK	1	49	0 mm	top	1:1	0.870	1.026	0.893	0.391	0.401	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.9	17.78	-0.09	0	Ant 3B	DLXD1010Q8MV	QPSK	25	25	0 mm	top	1:1	0.875	1.028	0.900	0.394	0.405	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.9	17.76	-0.07	0	Ant 3B	DLXD1010Q8MV	QPSK	50	0	0 mm	top	1:1	0.872	1.033	0.901	0.396	0.409	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.9	17.79	0.09	0	Ant 3B	DLXD1010Q8MV	QPSK	1	49	0 mm	bottom	1:1	0.007	1.026	0.007	0.003	0.003	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.9	17.78	-0.13	0	Ant 3B	DLXD1010Q8MV	QPSK	25	25	0 mm	bottom	1:1	0.007	1.028	0.007	0.003	0.003	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.9	17.79	-0.06	0	Ant 3B	DLXD1010Q8MV	QPSK	1	49	0 mm	right	1:1	0.084	1.026	0.086	0.043	0.044	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.9	17.78	0.02	0	Ant 3B	DLXD1010Q8MV	QPSK	25	25	0 mm	right	1:1	0.076	1.028	0.078	0.038	0.039	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.9	17.79	-0.17	0	Ant 3B	DLXD1010Q8MV	QPSK	1	49	0 mm	left	1:1	0.020	1.026	0.021	0.009	0.009	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.9	17.78	0.05	0	Ant 3B	DLXD1010Q8MV	QPSK	25	25	0 mm	left	1:1	0.017	1.028	0.017	0.007	0.007	
836.50	20525	Mid	LTE Band 5 (Cell)	10	14.9	14.90	0.06	0	Ant 3B	DLXD1010Q8MV	QPSK	1	0	0 mm	back	1:1	0.481	1.000	0.481	0.240	0.240	
836.50	20525	Mid	LTE Band 5 (Cell)	10	14.9	14.87	0.10	0	Ant 3B	DLXD1010Q8MV	QPSK	25	25	0 mm	back	1:1	0.472	1.007	0.475	0.234	0.236	
836.50	20525	Mid	LTE Band 5 (Cell)	10	14.9	14.90	-0.10	0	Ant 3B	DLXD1010Q8MV	QPSK	1	0	0 mm	top	1:1	0.347	1.000	0.347	0.161	0.161	
836.50	20525	Mid	LTE Band 5 (Cell)	10	14.9	14.87	-0.08	0	Ant 3B	DLXD1010Q8MV	QPSK	25	25	0 mm	top	1:1	0.343	1.007	0.345	0.158	0.159	
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 10-29
LTE Band 4 (AWS) Ant 4 Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.4	13.30	-0.10	0	Ant 4	DLXD1005Q8MV	QPSK	1	0	0 mm	back	1:1	0.794	1.288	1.023	0.323	0.416	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.4	13.36	-0.13	0	Ant 4	DLXD1005Q8MV	QPSK	50	0	0 mm	back	1:1	0.797	1.271	1.013	0.322	0.409	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.4	13.29	-0.10	0	Ant 4	DLXD1005Q8MV	QPSK	100	0	0 mm	back	1:1	0.870	1.291	1.123	0.348	0.449	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.4	13.30	0.02	0	Ant 4	DLXD1005Q8MV	QPSK	1	0	0 mm	top	1:1	0.413	1.288	0.532	0.178	0.229	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.4	13.36	0.02	0	Ant 4	DLXD1005Q8MV	QPSK	50	0	0 mm	top	1:1	0.404	1.271	0.513	0.174	0.221	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.4	13.30	-0.04	0	Ant 4	DLXD1005Q8MV	QPSK	1	0	0 mm	bottom	1:1	0.000	1.288	0.000	0.000	0.000	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.4	13.36	0.04	0	Ant 4	DLXD1005Q8MV	QPSK	50	0	0 mm	bottom	1:1	0.000	1.271	0.000	0.000	0.000	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.4	13.30	-0.13	0	Ant 4	DLXD1005Q8MV	QPSK	1	0	0 mm	right	1:1	0.014	1.288	0.018	0.007	0.009	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.4	13.36	0.05	0	Ant 4	DLXD1005Q8MV	QPSK	50	0	0 mm	right	1:1	0.016	1.271	0.020	0.008	0.010	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.4	13.30	-0.14	0	Ant 4	DLXD1005Q8MV	QPSK	1	0	0 mm	left	1:1	0.337	1.288	0.434	0.135	0.174	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.4	13.36	-0.13	0	Ant 4	DLXD1005Q8MV	QPSK	50	0	0 mm	left	1:1	0.332	1.271	0.422	0.133	0.169	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.4	10.90	0.01	0	Ant 4	DLXD1005Q8MV	QPSK	1	50	0 mm	back	1:1	0.464	1.122	0.521	0.228	0.256	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.4	10.87	0.02	0	Ant 4	DLXD1005Q8MV	QPSK	50	25	0 mm	back	1:1	0.465	1.130	0.525	0.227	0.257	
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 10-30
LTE Band 4 (AWS) Ant 2A Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
1732.50	20175	Mid	LTE Band 4 (AWS)	20	15.3	15.30	-0.02	0	Ant 2A	DLXD1004Q8MV	QPSK	1	99	0 mm	back	1:1	1.060	1.000	1.060	0.485	0.485	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	15.3	15.29	-0.02	0	Ant 2A	DLXD1004Q8MW	QPSK	50	50	0 mm	back	1:1	1.110	1.002	1.112	0.506	0.507	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	15.3	15.28	-0.02	0	Ant 2A	DLXD1004Q8MW	QPSK	100	0	0 mm	back	1:1	1.140	1.005	1.146	0.515	0.518	A12
1732.50	20175	Mid	LTE Band 4 (AWS)	20	15.3	15.30	0.03	0	Ant 2A	DLXD1004Q8MV	QPSK	1	99	0 mm	top	1:1	0.028	1.000	0.028	0.013	0.013	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	15.3	15.29	0.02	0	Ant 2A	DLXD1004Q8MW	QPSK	50	50	0 mm	top	1:1	0.028	1.002	0.028	0.014	0.014	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	15.3	15.30	-0.12	0	Ant 2A	DLXD1004Q8MV	QPSK	1	99	0 mm	bottom	1:1	0.535	1.000	0.535	0.186	0.186	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	15.3	15.29	-0.05	0	Ant 2A	DLXD1004Q8MW	QPSK	50	50	0 mm	bottom	1:1	0.543	1.002	0.544	0.188	0.188	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	15.3	15.30	-0.03	0	Ant 2A	DLXD1004Q8MV	QPSK	1	99	0 mm	right	1:1	0.755	1.000	0.755	0.310	0.310	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	15.3	15.29	-0.06	0	Ant 2A	DLXD1004Q8MW	QPSK	50	50	0 mm	right	1:1	0.793	1.002	0.795	0.325	0.326	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	15.3	15.30	-0.03	0	Ant 2A	DLXD1004Q8MV	QPSK	1	99	0 mm	left	1:1	0.004	1.000	0.004	0.001	0.001	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	15.3	15.29	-0.09	0	Ant 2A	DLXD1004Q8MW	QPSK	50	50	0 mm	left	1:1	0.004	1.002	0.004	0.002	0.002	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	12.3	12.15	-0.10	0	Ant 2A	DLXD1004Q8MW	QPSK	1	50	0 mm	back	1:1	0.641	1.035	0.663	0.297	0.307	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	12.3	12.28	0.02	0	Ant 2A	DLXD1004Q8MW	QPSK	50	25	0 mm	back	1:1	0.624	1.005	0.627	0.290	0.291	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	12.3	12.15	0.04	0	Ant 2A	DLXD1004Q8MW	QPSK	1	50	0 mm	right	1:1	0.376	1.035	0.389	0.160	0.166	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	12.3	12.28	-0.06	0	Ant 2A	DLXD1004Q8MW	QPSK	50	25	0 mm	right	1:1	0.366	1.005	0.368	0.157	0.158	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram													

Table 10-31
LTE Band 4 (AWS) Ant 1A Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.8	14.55	-0.01	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	50	0 mm	back	1:1	0.940	1.059	0.995	0.452	0.479	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.8	14.60	-0.08	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	back	1:1	0.998	1.047	1.045	0.479	0.502	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.8	14.54	-0.09	0	Ant 1A	DLXD100LQ8MQ	QPSK	100	0	0 mm	back	1:1	0.930	1.062	0.988	0.448	0.476	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.8	14.55	-0.01	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	50	0 mm	top	1:1	0.018	1.059	0.019	0.008	0.008	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.8	14.60	0.04	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	top	1:1	0.017	1.047	0.018	0.008	0.008	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.8	14.55	-0.05	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	50	0 mm	bottom	1:1	0.354	1.059	0.375	0.124	0.131	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.8	14.60	-0.05	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	bottom	1:1	0.362	1.047	0.379	0.127	0.133	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.8	14.55	0.07	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	50	0 mm	right	1:1	0.000	1.059	0.000	0.000	0.000	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.8	14.60	0.09	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	right	1:1	0.001	1.047	0.001	0.000	0.000	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.8	14.55	-0.04	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	50	0 mm	left	1:1	0.851	1.059	0.901	0.360	0.381	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.8	14.60	-0.12	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	left	1:1	0.914	1.047	0.957	0.382	0.400	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.8	14.54	0.12	0	Ant 1A	DLXD100LQ8MQ	QPSK	100	0	0 mm	left	1:1	0.919	1.062	0.976	0.378	0.401	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.8	11.70	0.04	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	back	1:1	0.417	1.023	0.427	0.200	0.205	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.8	11.67	0.05	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	25	0 mm	back	1:1	0.427	1.030	0.440	0.209	0.215	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.8	11.70	0.00	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	left	1:1	0.419	1.023	0.429	0.167	0.171	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.8	11.67	0.00	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	25	0 mm	left	1:1	0.438	1.030	0.451	0.173	0.178	
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 10-32
LTE Band 4 (AWS) Ant 3A Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.1	13.64	-0.04	0	Ant 3A	DLXD1010Q8MV	QPSK	1	0	0 mm	back	1:1	0.435	1.112	0.484	0.191	0.212	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.1	13.50	-0.02	0	Ant 3A	DLXD1010Q8MW	QPSK	50	50	0 mm	back	1:1	0.461	1.148	0.529	0.202	0.232	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.1	13.64	-0.03	0	Ant 3A	DLXD1010Q8MV	QPSK	1	0	0 mm	top	1:1	0.264	1.112	0.294	0.090	0.100	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.1	13.50	0.00	0	Ant 3A	DLXD1010Q8MW	QPSK	50	50	0 mm	top	1:1	0.284	1.148	0.326	0.096	0.110	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.1	13.64	-0.06	0	Ant 3A	DLXD1010Q8MV	QPSK	1	0	0 mm	bottom	1:1	0.007	1.112	0.008	0.002	0.002	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.1	13.50	-0.15	0	Ant 3A	DLXD1010Q8MW	QPSK	50	50	0 mm	bottom	1:1	0.008	1.148	0.009	0.002	0.002	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.1	13.64	0.00	0	Ant 3A	DLXD1010Q8MV	QPSK	1	0	0 mm	right	1:1	0.869	1.112	0.966	0.359	0.399	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.1	13.50	0.03	0	Ant 3A	DLXD1010Q8MW	QPSK	50	50	0 mm	right	1:1	0.930	1.148	1.068	0.375	0.431	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.1	13.45	0.02	0	Ant 3A	DLXD1010Q8MW	QPSK	100	0	0 mm	right	1:1	0.881	1.161	1.023	0.363	0.421	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.1	13.64	-0.03	0	Ant 3A	DLXD1010Q8MV	QPSK	1	0	0 mm	left	1:1	0.001	1.112	0.001	0.000	0.000	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	14.1	13.50	0.04	0	Ant 3A	DLXD1010Q8MW	QPSK	50	50	0 mm	left	1:1	0.001	1.148	0.001	0.000	0.000	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.1	10.87	-0.06	0	Ant 3A	DLXD1010Q8MV	QPSK	1	50	0 mm	right	1:1	0.478	1.054	0.504	0.192	0.202	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	11.1	10.82	-0.02	0	Ant 3A	DLXD1010Q8MW	QPSK	50	25	0 mm	right	1:1	0.480	1.067	0.512	0.193	0.206	
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 10-33
LTE Band 66 (AWS) Ant 4 Body SAR

MEASUREMENT RESULTS																								
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.62	0.03	0	Ant 4	DLXD1005Q8MW	QPSK	1	0	0 mm	back	1:1	0.827	1.197	0.990	0.334	0.400	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.4	13.39	0.04	0	Ant 4	DLXD1005Q8MW	QPSK	1	50	0 mm	back	1:1	0.744	1.262	0.939	0.308	0.389	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.4	13.44	0.04	0	Ant 4	DLXD1005Q8MW	QPSK	1	50	0 mm	back	1:1	0.730	1.247	0.910	0.300	0.374	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.58	0.02	0	Ant 4	DLXD1005Q8MW	QPSK	50	0	0 mm	back	1:1	0.736	1.208	0.889	0.308	0.372	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.4	13.40	0.01	0	Ant 4	DLXD1005Q8MW	QPSK	50	25	0 mm	back	1:1	0.723	1.259	0.910	0.306	0.385	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.4	13.51	-0.02	0	Ant 4	DLXD1005Q8MW	QPSK	50	0	0 mm	back	1:1	0.712	1.227	0.874	0.299	0.367	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.48	0.01	0	Ant 4	DLXD1005Q8MW	QPSK	100	0	0 mm	back	1:1	0.854	1.236	1.056	0.343	0.424	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.62	-0.02	0	Ant 4	DLXD1005Q8MW	QPSK	1	0	0 mm	top	1:1	0.458	1.197	0.548	0.197	0.236	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.58	-0.05	0	Ant 4	DLXD1005Q8MW	QPSK	50	0	0 mm	top	1:1	0.445	1.208	0.538	0.192	0.232	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.62	-0.03	0	Ant 4	DLXD1005Q8MW	QPSK	1	0	0 mm	bottom	1:1	0.000	1.197	0.000	0.000	0.000	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.58	-0.02	0	Ant 4	DLXD1005Q8MW	QPSK	50	0	0 mm	bottom	1:1	0.000	1.208	0.000	0.000	0.000	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.62	0.05	0	Ant 4	DLXD1005Q8MW	QPSK	1	0	0 mm	right	1:1	0.013	1.197	0.016	0.007	0.008	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.58	0.16	0	Ant 4	DLXD1005Q8MW	QPSK	50	0	0 mm	right	1:1	0.013	1.208	0.016	0.007	0.008	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.62	-0.04	0	Ant 4	DLXD1005Q8MW	QPSK	1	0	0 mm	left	1:1	0.377	1.197	0.451	0.145	0.174	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.4	13.58	-0.02	0	Ant 4	DLXD1005Q8MW	QPSK	50	0	0 mm	left	1:1	0.364	1.208	0.440	0.141	0.170	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	11.4	11.28	-0.04	0	Ant 4	DLXD1005Q8MW	QPSK	1	0	0 mm	back	1:1	0.430	1.028	0.442	0.182	0.187	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	11.4	11.14	-0.06	0	Ant 4	DLXD1005Q8MW	QPSK	50	0	0 mm	back	1:1	0.404	1.062	0.429	0.172	0.183	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram														

Table 10-34
LTE Band 66 (AWS) Ant 2A Body SAR

MEASUREMENT RESULTS																								
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.17	-0.02	0	Ant 2A	DLXD1004Q8MW	QPSK	1	0	0 mm	back	1:1	1.100	1.030	1.133	0.497	0.512	A13
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.3	15.10	-0.12	0	Ant 2A	DLXD1004Q8MW	QPSK	1	0	0 mm	back	1:1	1.080	1.047	1.131	0.493	0.516	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.3	15.12	0.07	0	Ant 2A	DLXD1004Q8MW	QPSK	1	99	0 mm	back	1:1	1.000	1.042	1.042	0.446	0.465	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.20	-0.17	0	Ant 2A	DLXD1004Q8MW	QPSK	50	0	0 mm	back	1:1	1.010	1.023	1.033	0.469	0.480	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.3	15.05	-0.11	0	Ant 2A	DLXD1004Q8MW	QPSK	50	50	0 mm	back	1:1	1.030	1.059	1.091	0.469	0.497	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.3	15.11	-0.18	0	Ant 2A	DLXD1004Q8MW	QPSK	50	50	0 mm	back	1:1	0.997	1.045	1.042	0.431	0.450	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.3	15.09	-0.02	0	Ant 2A	DLXD1004Q8MW	QPSK	100	0	0 mm	back	1:1	0.976	1.050	1.025	0.429	0.450	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.17	0.02	0	Ant 2A	DLXD1004Q8MW	QPSK	1	0	0 mm	top	1:1	0.028	1.030	0.029	0.014	0.014	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.20	-0.04	0	Ant 2A	DLXD1004Q8MW	QPSK	50	0	0 mm	top	1:1	0.030	1.023	0.031	0.015	0.015	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.17	0.17	0	Ant 2A	DLXD1004Q8MW	QPSK	1	0	0 mm	bottom	1:1	0.503	1.030	0.518	0.174	0.179	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.20	-0.03	0	Ant 2A	DLXD1004Q8MW	QPSK	50	0	0 mm	bottom	1:1	0.504	1.023	0.516	0.176	0.180	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.17	0.10	0	Ant 2A	DLXD1004Q8MW	QPSK	1	0	0 mm	right	1:1	0.789	1.030	0.813	0.322	0.332	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.3	15.10	0.08	0	Ant 2A	DLXD1004Q8MW	QPSK	1	0	0 mm	right	1:1	0.744	1.047	0.779	0.301	0.315	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.3	15.12	0.10	0	Ant 2A	DLXD1004Q8MW	QPSK	1	99	0 mm	right	1:1	0.647	1.042	0.674	0.255	0.266	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.20	0.09	0	Ant 2A	DLXD1004Q8MW	QPSK	50	0	0 mm	right	1:1	0.791	1.023	0.809	0.321	0.328	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	15.3	15.05	0.15	0	Ant 2A	DLXD1004Q8MW	QPSK	50	50	0 mm	right	1:1	0.701	1.059	0.742	0.280	0.297	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.3	15.11	0.10	0	Ant 2A	DLXD1004Q8MW	QPSK	50	50	0 mm	right	1:1	0.660	1.045	0.690	0.260	0.272	
1770.00	132572	High	LTE Band 66 (AWS)	20	15.3	15.09	0.06	0	Ant 2A	DLXD1004Q8MW	QPSK	100	0	0 mm	right	1:1	0.644	1.050	0.676	0.255	0.268	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.17	0.02	0	Ant 2A	DLXD1004Q8MW	QPSK	1	0	0 mm	left	1:1	0.004	1.030	0.004	0.001	0.001	
1720.00	132072	Low	LTE Band 66 (AWS)	20	15.3	15.20	0.03	0	Ant 2A	DLXD1004Q8MW	QPSK	50	0	0 mm	left	1:1	0.004	1.023	0.004	0.001	0.001	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.3	12.19	-0.03	0	Ant 2A	DLXD1004Q8MW	QPSK	1	50	0 mm	back	1:1	0.588	1.026	0.603	0.272	0.279	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.3	12.22	-0.01	0	Ant 2A	DLXD1004Q8MW	QPSK	50	25	0 mm	back	1:1	0.590	1.019	0.601	0.273	0.278	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.3	12.19	0.15	0	Ant 2A	DLXD1004Q8MW	QPSK	1	50	0 mm	right	1:1	0.427	1.026	0.438	0.164	0.168	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	12.3	12.22	0.13	0	Ant 2A	DLXD1004Q8MW	QPSK	50	25	0 mm	right	1:1	0.429	1.019	0.437	0.165	0.168	
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 10-35
LTE Band 66 (AWS) Ant 1A Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.8	14.73	-0.07	0	Ant 1A	DLXD100L Q8MQ	QPSK	1	99	0 mm	back	1:1	1.020	1.016	1.036	0.495	0.503	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.8	14.80	-0.05	0	Ant 1A	DLXD100L Q8MQ	QPSK	1	0	0 mm	back	1:1	0.974	1.000	0.974	0.455	0.455	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.8	14.73	-0.13	0	Ant 1A	DLXD100L Q8MQ	QPSK	1	0	0 mm	back	1:1	0.902	1.016	0.916	0.422	0.429	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.8	14.78	-0.09	0	Ant 1A	DLXD100L Q8MQ	QPSK	50	25	0 mm	back	1:1	1.030	1.005	1.035	0.481	0.483	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.8	14.69	-0.10	0	Ant 1A	DLXD100L Q8MQ	QPSK	50	0	0 mm	back	1:1	0.948	1.026	0.973	0.444	0.456	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.8	14.57	-0.09	0	Ant 1A	DLXD100L Q8MQ	QPSK	50	0	0 mm	back	1:1	0.868	1.054	0.915	0.402	0.424	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.8	14.74	-0.14	0	Ant 1A	DLXD100L Q8MQ	QPSK	100	0	0 mm	back	1:1	1.020	1.014	1.034	0.479	0.486	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.8	14.80	-0.05	0	Ant 1A	DLXD100L Q8MQ	QPSK	1	0	0 mm	top	1:1	0.020	1.000	0.020	0.009	0.009	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.8	14.78	0.03	0	Ant 1A	DLXD100L Q8MQ	QPSK	50	25	0 mm	top	1:1	0.017	1.005	0.017	0.008	0.008	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.8	14.80	-0.02	0	Ant 1A	DLXD100L Q8MQ	QPSK	1	0	0 mm	bottom	1:1	0.391	1.000	0.391	0.135	0.135	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.8	14.78	0.02	0	Ant 1A	DLXD100L Q8MQ	QPSK	50	25	0 mm	bottom	1:1	0.386	1.005	0.388	0.135	0.136	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.8	14.80	-0.04	0	Ant 1A	DLXD100L Q8MQ	QPSK	1	0	0 mm	right	1:1	0.002	1.000	0.002	0.001	0.001	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.8	14.78	0.05	0	Ant 1A	DLXD100L Q8MQ	QPSK	50	25	0 mm	right	1:1	0.002	1.005	0.002	0.001	0.001	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.8	14.73	0.00	0	Ant 1A	DLXD100L Q8MQ	QPSK	1	99	0 mm	left	1:1	0.975	1.016	0.991	0.396	0.402	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.8	14.80	-0.01	0	Ant 1A	DLXD100L Q8MQ	QPSK	1	0	0 mm	left	1:1	0.945	1.000	0.945	0.382	0.382	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.8	14.73	-0.03	0	Ant 1A	DLXD100L Q8MQ	QPSK	1	0	0 mm	left	1:1	0.844	1.016	0.858	0.340	0.345	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.8	14.78	0.03	0	Ant 1A	DLXD100L Q8MQ	QPSK	50	25	0 mm	left	1:1	1.000	1.005	1.005	0.406	0.408	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.8	14.69	-0.02	0	Ant 1A	DLXD100L Q8MQ	QPSK	50	0	0 mm	left	1:1	0.916	1.026	0.940	0.369	0.379	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.8	14.57	-0.01	0	Ant 1A	DLXD100L Q8MQ	QPSK	50	0	0 mm	left	1:1	0.807	1.054	0.851	0.323	0.340	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.8	14.74	-0.08	0	Ant 1A	DLXD100L Q8MQ	QPSK	100	0	0 mm	left	1:1	1.010	1.014	1.024	0.408	0.414	
1770.00	132572	High	LTE Band 66 (AWS)	20	11.8	11.80	-0.03	0	Ant 1A	DLXD100L Q8MQ	QPSK	1	0	0 mm	back	1:1	0.459	1.000	0.459	0.217	0.217	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.8	11.80	0.03	0	Ant 1A	DLXD100L Q8MQ	QPSK	50	25	0 mm	back	1:1	0.461	1.000	0.461	0.215	0.215	
1770.00	132572	High	LTE Band 66 (AWS)	20	11.8	11.80	-0.14	0	Ant 1A	DLXD100L Q8MQ	QPSK	1	0	0 mm	left	1:1	0.450	1.000	0.450	0.178	0.178	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.8	11.80	0.02	0	Ant 1A	DLXD100L Q8MQ	QPSK	50	25	0 mm	left	1:1	0.472	1.000	0.472	0.187	0.187	
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 10-36
LTE Band 66 (AWS) Ant 3A Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.1	13.76	-0.13	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1	0.418	1.081	0.452	0.193	0.209	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.1	13.75	-0.02	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	0.429	1.084	0.465	0.198	0.215	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.1	13.76	-0.03	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	0	0 mm	top	1:1	0.293	1.081	0.317	0.098	0.106	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.1	13.75	-0.05	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	0	0 mm	top	1:1	0.297	1.084	0.322	0.099	0.107	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.1	13.76	0.08	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	0	0 mm	bottom	1:1	0.010	1.081	0.011	0.002	0.002	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.1	13.75	-0.04	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	0	0 mm	bottom	1:1	0.012	1.084	0.013	0.004	0.004	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.1	13.72	-0.05	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	99	0 mm	right	1:1	0.881	1.091	0.961	0.359	0.392	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.1	13.76	-0.03	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	0	0 mm	right	1:1	0.937	1.081	1.013	0.381	0.412	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.1	13.54	-0.02	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	0	0 mm	right	1:1	0.902	1.138	1.026	0.365	0.415	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.1	13.73	-0.03	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	50	0 mm	right	1:1	0.857	1.089	0.933	0.348	0.379	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.1	13.75	-0.03	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	0	0 mm	right	1:1	0.936	1.084	1.015	0.379	0.411	
1770.00	132572	High	LTE Band 66 (AWS)	20	14.1	13.42	-0.02	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	0	0 mm	right	1:1	0.934	1.169	1.092	0.381	0.445	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.1	13.70	-0.02	0	Ant 3A	DLXD100QQ8MQ	QPSK	100	0	0 mm	right	1:1	0.894	1.096	0.980	0.362	0.397	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.1	13.76	0.02	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	0	0 mm	left	1:1	0.001	1.081	0.001	0.000	0.000	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.1	13.75	0.19	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	0	0 mm	left	1:1	0.001	1.084	0.001	0.000	0.000	
1770.00	132572	High	LTE Band 66 (AWS)	20	11.1	10.90	-0.06	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	50	0 mm	right	1:1	0.593	1.047	0.621	0.236	0.247	
1770.00	132572	High	LTE Band 66 (AWS)	20	11.1	10.96	-0.02	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	0	0 mm	right	1:1	0.565	1.033	0.584	0.223	0.230	
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 10-37
LTE Band 2 (PCS) Ant 4 Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1860.00	18700	Low	LTE Band 2 (PCS)	20	16.0	15.87	0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1	1.060	1.030	1.092	0.421	0.434	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	16.0	15.80	0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1	1.040	1.047	1.089	0.411	0.430	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	16.00	0.05	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1	1.060	1.000	1.060	0.416	0.416	
1860.00	18700	Low	LTE Band 2 (PCS)	20	16.0	15.83	0.05	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1	1.040	1.040	1.082	0.411	0.427	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	16.0	15.79	0.05	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	1.020	1.050	1.071	0.403	0.423	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.99	-0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1	1.120	1.002	1.122	0.439	0.440	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.97	0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	100	0	0 mm	back	1:1	1.180	1.007	**1.188**	0.442	**0.445**	A14
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	16.00	0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	top	1:1	0.541	1.000	0.541	0.217	0.217	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.99	0.00	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	top	1:1	0.563	1.002	0.564	0.227	0.227	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	16.00	0.00	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	bottom	1:1	0.000	1.000	0.000	0.000	0.000	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.99	0.00	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	bottom	1:1	0.000	1.002	0.000	0.000	0.000	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	16.00	-0.05	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	right	1:1	0.002	1.000	0.002	0.000	0.000	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.99	0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	right	1:1	0.006	1.002	0.006	0.001	0.001	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	16.00	-0.07	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	left	1:1	0.179	1.000	0.179	0.067	0.067	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.99	-0.11	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	left	1:1	0.186	1.002	0.186	0.071	0.071	
1900.00	19100	High	LTE Band 2 (PCS)	20	13.0	12.66	-0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	1	50	0 mm	back	1:1	0.464	1.081	0.502	0.182	0.197	
1900.00	19100	High	LTE Band 2 (PCS)	20	13.0	12.82	0.05	0	Ant 4	DLXD100QQ8MQ	QPSK	50	25	0 mm	back	1:1	0.512	1.042	0.534	0.199	0.207	
1900.00	19100	High	LTE Band 2 (PCS)	20	16.0	15.97	0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	100	0	0 mm	back	1:1	1.170	1.007	1.178	0.435	0.438	
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 10-38
LTE Band 2 (PCS) Ant 2A Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.4	14.39	0.00	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1	0.982	1.002	0.984	0.484	0.485	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.4	13.99	-0.07	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1	0.927	1.099	1.019	0.450	0.495	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.34	-0.05	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1	0.980	1.014	0.994	0.476	0.483	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.4	14.15	-0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	0.915	1.059	0.969	0.456	0.483	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.4	14.07	-0.05	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	25	0 mm	back	1:1	0.906	1.079	0.978	0.448	0.483	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.34	-0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	25	0 mm	back	1:1	1.030	1.014	1.044	0.487	0.494	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.33	0.00	0	Ant 2A	DLXD100QQ8MQ	QPSK	100	0	0 mm	back	1:1	1.020	1.016	1.036	0.483	0.491	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.4	14.39	-0.08	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	top	1:1	0.001	1.002	0.001	0.000	0.000	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.34	-0.09	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	25	0 mm	top	1:1	0.016	1.014	0.016	0.008	0.008	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.4	14.39	-0.06	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	bottom	1:1	0.486	1.002	0.487	0.168	0.168	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.34	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	25	0 mm	bottom	1:1	0.500	1.014	0.507	0.173	0.175	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.4	14.39	0.06	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	right	1:1	0.743	1.002	0.744	0.294	0.295	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.34	0.03	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	25	0 mm	right	1:1	0.753	1.014	0.764	0.293	0.297	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.4	14.39	0.03	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	left	1:1	0.005	1.002	0.005	0.002	0.002	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.4	14.34	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	25	0 mm	left	1:1	0.002	1.014	0.002	0.001	0.001	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.4	11.35	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	50	0 mm	back	1:1	0.633	1.012	0.641	0.280	0.283	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.4	11.37	0.00	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1	0.639	1.007	0.643	0.282	0.284	
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 10-39
LTE Band 2 (PCS) Ant 1A Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.6	14.00	0.02	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	0	0 mm	back	1:1	0.753	1.148	0.864	0.359	0.412	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.6	14.22	-0.02	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	99	0 mm	back	1:1	0.744	1.091	0.812	0.345	0.376	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.50	0.04	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	50	0 mm	back	1:1	0.827	1.023	0.846	0.383	0.392	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.6	13.95	-0.01	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	0	0 mm	back	1:1	0.748	1.161	0.868	0.357	0.414	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.6	14.15	-0.19	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	0	0 mm	back	1:1	0.748	1.109	0.830	0.359	0.398	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.41	0.03	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	25	0 mm	back	1:1	0.813	1.045	0.850	0.377	0.394	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.40	-0.08	0	Ant 1A	DLXD101EQ8MQ	QPSK	100	0	0 mm	back	1:1	0.807	1.047	0.845	0.373	0.391	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.50	0.16	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	50	0 mm	top	1:1	0.012	1.023	0.012	0.005	0.005	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.41	0.18	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	25	0 mm	top	1:1	0.012	1.045	0.013	0.005	0.005	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.50	0.02	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	50	0 mm	bottom	1:1	0.376	1.023	0.385	0.132	0.135	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.41	0.02	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	25	0 mm	bottom	1:1	0.391	1.045	0.409	0.136	0.142	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.50	0.07	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	50	0 mm	right	1:1	0.001	1.023	0.001	0.000	0.000	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.41	0.05	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	25	0 mm	right	1:1	0.001	1.045	0.001	0.000	0.000	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.6	14.00	0.01	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	0	0 mm	left	1:1	0.797	1.148	0.915	0.306	0.351	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.6	14.22	0.01	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	99	0 mm	left	1:1	0.922	1.091	1.006	0.354	0.386	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.50	0.02	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	50	0 mm	left	1:1	1.010	1.023	1.033	0.391	0.400	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.6	13.95	0.01	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	0	0 mm	left	1:1	0.858	1.161	0.996	0.329	0.382	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.6	14.15	0.01	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	0	0 mm	left	1:1	0.929	1.109	1.030	0.356	0.395	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.41	0.01	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	25	0 mm	left	1:1	1.030	1.045	1.076	0.396	0.414	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.40	0.02	0	Ant 1A	DLXD101EQ8MQ	QPSK	100	0	0 mm	left	1:1	1.020	1.047	1.068	0.390	0.408	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.6	11.33	-0.02	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	50	0 mm	back	1:1	0.467	1.064	0.497	0.220	0.234	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.6	11.45	-0.09	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	25	0 mm	back	1:1	0.461	1.035	0.477	0.217	0.225	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.6	11.33	-0.09	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	50	0 mm	left	1:1	0.533	1.064	0.567	0.208	0.221	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.6	11.45	-0.08	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	25	0 mm	left	1:1	0.524	1.035	0.542	0.205	0.212	
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 10-40
LTE Band 2 (PCS) Ant 3A Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.58	0.05	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	50	0 mm	back	1:1	0.753	1.005	0.757	0.332	0.334	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.60	-0.02	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	25	0 mm	back	1:1	0.764	1.000	0.764	0.334	0.334	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.58	-0.08	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	50	0 mm	top	1:1	0.473	1.005	0.475	0.161	0.162	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.60	-0.10	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	25	0 mm	top	1:1	0.462	1.000	0.462	0.157	0.157	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.58	0.04	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	50	0 mm	bottom	1:1	0.010	1.005	0.010	0.005	0.005	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.60	0.01	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	25	0 mm	bottom	1:1	0.010	1.000	0.010	0.005	0.005	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.6	14.42	0.05	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	0	0 mm	right	1:1	1.050	1.042	1.094	0.426	0.444	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.6	14.35	0.05	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	99	0 mm	right	1:1	0.954	1.059	1.010	0.389	0.412	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.58	0.00	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	50	0 mm	right	1:1	0.976	1.005	0.981	0.398	0.400	
1860.00	18700	Low	LTE Band 2 (PCS)	20	14.6	14.33	0.02	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	50	0 mm	right	1:1	0.928	1.064	0.987	0.381	0.405	
1880.00	18900	Mid	LTE Band 2 (PCS)	20	14.6	14.41	0.05	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	25	0 mm	right	1:1	0.955	1.045	0.998	0.389	0.407	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.60	0.01	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	25	0 mm	right	1:1	0.985	1.000	0.985	0.400	0.400	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.56	0.03	0	Ant 3A	DLXD101EQ8MQ	QPSK	100	0	0 mm	right	1:1	0.990	1.009	0.999	0.400	0.404	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.58	-0.14	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	50	0 mm	left	1:1	0.006	1.005	0.006	0.002	0.002	
1900.00	19100	High	LTE Band 2 (PCS)	20	14.6	14.60	0.04	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	25	0 mm	left	1:1	0.006	1.000	0.006	0.002	0.002	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.6	11.37	0.02	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	50	0 mm	right	1:1	0.576	1.054	0.607	0.222	0.234	
1900.00	19100	High	LTE Band 2 (PCS)	20	11.6	11.53	-0.09	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	25	0 mm	right	1:1	0.564	1.016	0.573	0.217	0.220	
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 10-41
LTE Band 25 (PCS) Ant 4 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.0	15.71	-0.05	0	Ant 4	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1	1.110	1.069	1.187	0.436	0.466	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	16.0	15.47	0.00	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1	0.972	1.130	1.098	0.380	0.429	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.0	15.88	0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	1	50	0 mm	back	1:1	1.010	1.028	1.038	0.398	0.409	
1860.00	26140	Low	LTE Band 25 (PCS)	20	16.0	15.61	-0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	1.020	1.094	1.116	0.405	0.443	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	16.0	15.54	-0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	0.974	1.112	1.083	0.382	0.425	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.0	15.91	-0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	1.070	1.021	1.092	0.418	0.427	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.0	15.74	-0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	100	0	0 mm	back	1:1	1.030	1.062	1.094	0.402	0.427	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.0	15.88	0.00	0	Ant 4	DLXD100QQ8MQ	QPSK	1	50	0 mm	top	1:1	0.540	1.028	0.555	0.222	0.228	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.0	15.91	0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	top	1:1	0.552	1.021	0.564	0.228	0.233	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.0	15.88	0.00	0	Ant 4	DLXD100QQ8MQ	QPSK	1	50	0 mm	bottom	1:1	0.000	1.028	0.000	0.000	0.000	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.0	15.91	0.00	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	bottom	1:1	0.000	1.021	0.000	0.000	0.000	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.0	15.88	-0.05	0	Ant 4	DLXD100QQ8MQ	QPSK	1	50	0 mm	right	1:1	0.002	1.028	0.002	0.000	0.000	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.0	15.91	-0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	right	1:1	0.006	1.021	0.006	0.001	0.001	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.0	15.88	0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	1	50	0 mm	left	1:1	0.225	1.028	0.231	0.079	0.081	
1905.00	26590	High	LTE Band 25 (PCS)	20	16.0	15.91	0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	left	1:1	0.242	1.021	0.247	0.086	0.088	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram															

Table 10-42
LTE Band 25 (PCS) Ant 2A Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.4	14.39	0.05	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1	1.140	1.002	1.142	0.515	0.516	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.4	14.35	-0.04	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1	1.090	1.012	1.103	0.489	0.495	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.4	14.40	-0.03	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	50	0 mm	back	1:1	1.090	1.000	1.090	0.490	0.490	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.4	14.33	-0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	1.110	1.016	1.128	0.498	0.506	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.4	14.33	-0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	25	0 mm	back	1:1	1.090	1.016	1.107	0.487	0.495	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.4	14.40	-0.06	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	1.160	1.000	1.160	0.517	0.517	A15
1905.00	26590	High	LTE Band 25 (PCS)	20	14.4	14.39	-0.09	0	Ant 2A	DLXD100QQ8MQ	QPSK	100	0	0 mm	back	1:1	1.100	1.002	1.102	0.491	0.492	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.4	14.40	-0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	50	0 mm	top	1:1	0.021	1.000	0.021	0.010	0.010	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.4	14.40	0.11	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	top	1:1	0.023	1.000	0.023	0.010	0.010	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.4	14.40	-0.09	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	50	0 mm	bottom	1:1	0.694	1.000	0.694	0.232	0.232	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.4	14.40	-0.08	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	bottom	1:1	0.692	1.000	0.692	0.230	0.230	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.4	14.39	-0.03	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	right	1:1	0.827	1.002	0.829	0.335	0.336	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.4	14.35	-0.06	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	right	1:1	0.792	1.012	0.802	0.317	0.321	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.4	14.40	-0.06	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	50	0 mm	right	1:1	0.810	1.000	0.810	0.341	0.341	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.4	14.33	0.03	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	right	1:1	0.810	1.016	0.823	0.328	0.333	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.4	14.33	-0.04	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	25	0 mm	right	1:1	0.790	1.016	0.803	0.316	0.321	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.4	14.40	-0.20	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	right	1:1	0.817	1.000	0.817	0.342	0.342	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.4	14.39	-0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	100	0	0 mm	right	1:1	0.818	1.002	0.820	0.343	0.344	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.4	14.40	0.06	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	50	0 mm	left	1:1	0.005	1.000	0.005	0.002	0.002	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.4	14.40	-0.11	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	left	1:1	0.007	1.000	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 10-43
LTE Band 25 (PCS) Ant 1A Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.6	14.22	-0.02	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	0	0 mm	back	1:1	0.844	1.091	0.921	0.387	0.422	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.6	14.32	-0.01	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	99	0 mm	back	1:1	0.958	1.067	1.022	0.437	0.466	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.38	-0.06	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	0	0 mm	back	1:1	0.988	1.052	1.039	0.460	0.484	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.6	13.99	-0.02	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	25	0 mm	back	1:1	0.847	1.151	0.975	0.390	0.449	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.6	14.24	-0.01	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	50	0 mm	back	1:1	0.894	1.086	0.971	0.408	0.443	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.48	-0.04	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	0	0 mm	back	1:1	0.987	1.028	1.015	0.462	0.475	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.37	0.00	0	Ant 1A	DLXD101EQ8MQ	QPSK	100	0	0 mm	back	1:1	1.030	1.054	1.086	0.475	0.501	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.38	0.16	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	0	0 mm	top	1:1	0.014	1.052	0.015	0.006	0.006	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.48	0.05	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	0	0 mm	top	1:1	0.013	1.028	0.013	0.006	0.006	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.38	-0.09	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	0	0 mm	bottom	1:1	0.333	1.052	0.350	0.123	0.129	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.48	-0.06	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	0	0 mm	bottom	1:1	0.334	1.028	0.343	0.123	0.126	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.38	0.00	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	0	0 mm	right	1:1	0.000	1.052	0.000	0.000	0.000	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.48	0.00	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	0	0 mm	right	1:1	0.000	1.028	0.000	0.000	0.000	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.6	14.22	-0.05	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	0	0 mm	left	1:1	0.768	1.091	0.838	0.309	0.337	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.6	14.32	-0.03	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	99	0 mm	left	1:1	0.940	1.067	1.003	0.374	0.399	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.38	-0.01	0	Ant 1A	DLXD101EQ8MQ	QPSK	1	0	0 mm	left	1:1	0.946	1.052	0.995	0.378	0.398	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.6	13.99	-0.03	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	25	0 mm	left	1:1	0.799	1.151	0.920	0.320	0.368	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.6	14.24	-0.04	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	50	0 mm	left	1:1	0.876	1.086	0.951	0.349	0.379	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.48	0.04	0	Ant 1A	DLXD101EQ8MQ	QPSK	50	0	0 mm	left	1:1	0.997	1.028	1.025	0.398	0.409	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.37	0.05	0	Ant 1A	DLXD101EQ8MQ	QPSK	100	0	0 mm	left	1:1	1.020	1.054	1.075	0.406	0.428	
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 10-44
LTE Band 25 (PCS) Ant 3A Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.6	14.53	-0.03	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	99	0 mm	back	1:1	0.791	1.016	0.804	0.353	0.359	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.6	14.59	-0.01	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	99	0 mm	back	1:1	0.799	1.002	0.801	0.358	0.359	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.60	0.01	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	0	0 mm	back	1:1	0.838	1.000	0.838	0.376	0.376	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.6	14.41	0.02	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	50	0 mm	back	1:1	0.780	1.045	0.815	0.348	0.364	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.6	14.37	0.02	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	50	0 mm	back	1:1	0.780	1.054	0.822	0.349	0.368	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.60	0.01	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	0	0 mm	back	1:1	0.828	1.000	0.828	0.370	0.370	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.52	0.00	0	Ant 3A	DLXD101EQ8MQ	QPSK	100	0	0 mm	back	1:1	0.801	1.019	0.816	0.359	0.366	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.60	0.05	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	0	0 mm	top	1:1	0.472	1.000	0.472	0.163	0.163	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.60	-0.04	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	0	0 mm	top	1:1	0.471	1.000	0.471	0.163	0.163	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.60	0.00	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	0	0 mm	bottom	1:1	0.010	1.000	0.010	0.005	0.005	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.60	0.03	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	0	0 mm	bottom	1:1	0.009	1.000	0.009	0.004	0.004	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.6	14.53	0.06	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	99	0 mm	right	1:1	0.920	1.016	0.935	0.392	0.398	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.6	14.59	0.01	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	99	0 mm	right	1:1	0.926	1.002	0.928	0.391	0.392	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.60	-0.03	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	0	0 mm	right	1:1	0.914	1.000	0.914	0.385	0.385	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.6	14.41	-0.20	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	50	0 mm	right	1:1	0.909	1.045	0.950	0.387	0.404	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.6	14.37	-0.02	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	50	0 mm	right	1:1	0.892	1.054	0.940	0.377	0.397	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.60	-0.02	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	0	0 mm	right	1:1	0.940	1.000	0.940	0.393	0.393	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.52	-0.01	0	Ant 3A	DLXD101EQ8MQ	QPSK	100	0	0 mm	right	1:1	0.929	1.019	0.947	0.391	0.398	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.60	-0.05	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	0	0 mm	left	1:1	0.003	1.000	0.003	0.001	0.001	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.6	14.60	-0.14	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	0	0 mm	left	1:1	0.003	1.000	0.003	0.001	0.001	
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 10-45
LTE Band 30 Ant 4 Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.45	-0.04	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	back	1:1	0.920	1.059	0.974	0.362	0.383	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.56	-0.02	0	Ant 4	DLXD1010Q8MW	QPSK	25	0	0 mm	back	1:1	1.000	1.033	1.033	0.381	0.394	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.44	-0.02	0	Ant 4	DLXD1010Q8MW	QPSK	50	0	0 mm	back	1:1	0.979	1.062	1.040	0.372	0.395	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.45	-0.03	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	top	1:1	0.486	1.059	0.515	0.183	0.194	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.56	0.01	0	Ant 4	DLXD1010Q8MW	QPSK	25	0	0 mm	top	1:1	0.454	1.033	0.469	0.141	0.146	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.44	-0.04	0	Ant 4	DLXD1010Q8MW	QPSK	50	0	0 mm	top	1:1	0.449	1.062	0.477	0.139	0.148	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.45	0.09	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	bottom	1:1	0.023	1.059	0.024	0.010	0.011	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.56	0.12	0	Ant 4	DLXD1010Q8MW	QPSK	25	0	0 mm	bottom	1:1	0.024	1.033	0.025	0.010	0.010	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.45	-0.03	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	right	1:1	0.011	1.059	0.012	0.004	0.004	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.56	0.02	0	Ant 4	DLXD1010Q8MW	QPSK	25	0	0 mm	right	1:1	0.012	1.033	0.012	0.005	0.005	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.45	0.05	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	left	1:1	0.860	1.059	0.911	0.311	0.329	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.56	0.01	0	Ant 4	DLXD1010Q8MW	QPSK	25	0	0 mm	left	1:1	0.838	1.033	0.866	0.303	0.313	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.44	0.03	0	Ant 4	DLXD1010Q8MW	QPSK	50	0	0 mm	left	1:1	0.831	1.062	0.883	0.301	0.320	
2310.00	27710	Mid	LTE Band 30	10	10.7	10.50	0.02	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	back	1:1	0.452	1.047	0.473	0.176	0.184	
2310.00	27710	Mid	LTE Band 30	10	10.7	10.52	0.01	0	Ant 4	DLXD1010Q8MW	QPSK	25	0	0 mm	back	1:1	0.462	1.042	0.481	0.178	0.185	
2310.00	27710	Mid	LTE Band 30	10	10.7	10.50	0.04	0	Ant 4	DLXD1010Q8MW	QPSK	1	0	0 mm	left	1:1	0.389	1.047	0.407	0.140	0.147	
2310.00	27710	Mid	LTE Band 30	10	10.7	10.52	0.02	0	Ant 4	DLXD1010Q8MW	QPSK	25	0	0 mm	left	1:1	0.404	1.042	0.421	0.144	0.150	
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 10-46
LTE Band 30 Ant 2A Body SAR

MEASUREMENT RESULTS																									
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	13.5	12.77	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1	0.920	1.183	1.088	0.386	0.457	
2310.00	27710	Mid	LTE Band 30	10	13.5	12.86	-0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	25	25	0 mm	back	1:1	0.975	1.159	1.130	0.410	0.475	
2310.00	27710	Mid	LTE Band 30	10	13.5	12.76	-0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	0.950	1.186	1.127	0.400	0.474	
2310.00	27710	Mid	LTE Band 30	10	13.5	12.77	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	top	1:1	0.020	1.183	0.024	0.009	0.011	
2310.00	27710	Mid	LTE Band 30	10	13.5	12.86	0.17	0	Ant 2A	DLXD100QQ8MQ	QPSK	25	25	0 mm	top	1:1	0.029	1.159	0.034	0.012	0.014	
2310.00	27710	Mid	LTE Band 30	10	13.5	12.77	0.03	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	bottom	1:1	0.600	1.183	0.710	0.191	0.226	
2310.00	27710	Mid	LTE Band 30	10	13.5	12.86	-0.04	0	Ant 2A	DLXD100QQ8MQ	QPSK	25	25	0 mm	bottom	1:1	0.594	1.159	0.688	0.187	0.217	
2310.00	27710	Mid	LTE Band 30	10	13.5	12.77	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	right	1:1	0.522	1.183	0.618	0.204	0.241	
2310.00	27710	Mid	LTE Band 30	10	13.5	12.86	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	25	25	0 mm	right	1:1	0.508	1.159	0.589	0.196	0.227	
2310.00	27710	Mid	LTE Band 30	10	13.5	12.77	-0.07	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	left	1:1	0.011	1.183	0.013	0.004	0.005	
2310.00	27710	Mid	LTE Band 30	10	13.5	12.86	0.08	0	Ant 2A	DLXD100QQ8MQ	QPSK	25	25	0 mm	left	1:1	0.011	1.159	0.013	0.003	0.003	
2310.00	27710	Mid	LTE Band 30	10	10.5	9.85	-0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1	0.510	1.161	0.592	0.200	0.232	
2310.00	27710	Mid	LTE Band 30	10	10.5	9.83	0.19	0	Ant 2A	DLXD100QQ8MQ	QPSK	25	0	0 mm	back	1:1	0.532	1.167	0.621	0.212	0.247	
2310.00	27710	Mid	LTE Band 30	10	10.5	9.85	-0.16	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	right	1:1	0.273	1.161	0.317	0.098	0.114	
2310.00	27710	Mid	LTE Band 30	10	10.5	9.83	0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	25	0	0 mm	right	1:1	0.276	1.167	0.322	0.100	0.117	
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 10-47
LTE Band 30 Ant 1A Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	14.5	14.36	-0.09	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	49	0 mm	back	1:1	1.150	1.033	**1.188**	0.487	**0.503**	A16
2310.00	27710	Mid	LTE Band 30	10	14.5	14.36	-0.07	0	Ant 1A	DLXD100LQ8MQ	QPSK	25	25	0 mm	back	1:1	1.130	1.033	1.167	0.489	0.505	
2310.00	27710	Mid	LTE Band 30	10	14.5	14.35	-0.08	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	back	1:1	1.140	1.035	1.180	0.491	0.508	
2310.00	27710	Mid	LTE Band 30	10	14.5	14.36	0.09	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	49	0 mm	top	1:1	0.027	1.033	0.028	0.011	0.011	
2310.00	27710	Mid	LTE Band 30	10	14.5	14.36	0.03	0	Ant 1A	DLXD100LQ8MQ	QPSK	25	25	0 mm	top	1:1	0.029	1.033	0.030	0.012	0.012	
2310.00	27710	Mid	LTE Band 30	10	14.5	14.36	0.04	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	49	0 mm	bottom	1:1	0.456	1.033	0.471	0.150	0.155	
2310.00	27710	Mid	LTE Band 30	10	14.5	14.36	0.02	0	Ant 1A	DLXD100LQ8MQ	QPSK	25	25	0 mm	bottom	1:1	0.468	1.033	0.483	0.151	0.156	
2310.00	27710	Mid	LTE Band 30	10	14.5	14.36	-0.13	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	49	0 mm	right	1:1	0.003	1.033	0.003	0.001	0.001	
2310.00	27710	Mid	LTE Band 30	10	14.5	14.36	-0.02	0	Ant 1A	DLXD100LQ8MQ	QPSK	25	25	0 mm	right	1:1	0.003	1.033	0.003	0.001	0.001	
2310.00	27710	Mid	LTE Band 30	10	14.5	14.36	0.08	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	49	0 mm	left	1:1	0.939	1.033	0.970	0.339	0.350	
2310.00	27710	Mid	LTE Band 30	10	14.5	14.36	-0.04	0	Ant 1A	DLXD100LQ8MQ	QPSK	25	25	0 mm	left	1:1	0.953	1.033	0.984	0.343	0.354	
2310.00	27710	Mid	LTE Band 30	10	14.5	14.35	-0.01	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	left	1:1	0.938	1.035	0.971	0.338	0.350	
2310.00	27710	Mid	LTE Band 30	10	11.5	11.32	-0.09	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	back	1:1	0.528	1.042	0.550	0.230	0.240	
2310.00	27710	Mid	LTE Band 30	10	11.5	11.39	-0.09	0	Ant 1A	DLXD100LQ8MQ	QPSK	25	25	0 mm	back	1:1	0.532	1.026	0.546	0.231	0.237	
2310.00	27710	Mid	LTE Band 30	10	11.5	11.32	0.02	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	left	1:1	0.453	1.042	0.472	0.162	0.169	
2310.00	27710	Mid	LTE Band 30	10	11.5	11.39	0.03	0	Ant 1A	DLXD100LQ8MQ	QPSK	25	25	0 mm	left	1:1	0.441	1.026	0.452	0.158	0.162	
2310.00	27710	Mid	LTE Band 30	10	14.5	14.36	-0.16	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	49	0 mm	back	1:1	1.050	1.033	1.085	0.447	0.462	
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 10-48
LTE Band 30 Ant 3A Body SAR

MEASUREMENT RESULTS																									
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.11	-0.02	0	Ant 3A	DLXD1010Q8MW	QPSK	1	25	0 mm	back	1:1	0.388	1.146	0.445	0.175	0.201	
2310.00	27710	Mid	LTE Band 30	10	13.7	12.99	0.01	0	Ant 3A	DLXD1010Q8MW	QPSK	25	25	0 mm	back	1:1	0.401	1.178	0.472	0.181	0.213	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.11	0.02	0	Ant 3A	DLXD1010Q8MW	QPSK	1	25	0 mm	top	1:1	0.320	1.146	0.367	0.102	0.117	
2310.00	27710	Mid	LTE Band 30	10	13.7	12.99	-0.01	0	Ant 3A	DLXD1010Q8MW	QPSK	25	25	0 mm	top	1:1	0.330	1.178	0.389	0.105	0.124	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.11	-0.05	0	Ant 3A	DLXD1010Q8MW	QPSK	1	25	0 mm	bottom	1:1	0.003	1.146	0.003	0.001	0.001	
2310.00	27710	Mid	LTE Band 30	10	13.7	12.99	-0.03	0	Ant 3A	DLXD1010Q8MW	QPSK	25	25	0 mm	bottom	1:1	0.006	1.178	0.007	0.002	0.002	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.11	0.05	0	Ant 3A	DLXD1010Q8MW	QPSK	1	25	0 mm	right	1:1	0.894	1.146	1.025	0.316	0.362	
2310.00	27710	Mid	LTE Band 30	10	13.7	12.99	0.01	0	Ant 3A	DLXD1010Q8MW	QPSK	25	25	0 mm	right	1:1	0.952	1.178	1.121	0.335	0.395	
2310.00	27710	Mid	LTE Band 30	10	13.7	12.89	0.00	0	Ant 3A	DLXD1010Q8MW	QPSK	50	0	0 mm	right	1:1	0.911	1.205	1.098	0.320	0.386	
2310.00	27710	Mid	LTE Band 30	10	13.7	13.11	0.00	0	Ant 3A	DLXD1010Q8MW	QPSK	1	25	0 mm	left	1:1	0.000	1.146	0.000	0.000	0.000	
2310.00	27710	Mid	LTE Band 30	10	13.7	12.99	0.06	0	Ant 3A	DLXD1010Q8MW	QPSK	25	25	0 mm	left	1:1	0.001	1.178	0.001	0.000	0.000	
2310.00	27710	Mid	LTE Band 30	10	10.7	10.04	0.03	0	Ant 3A	DLXD1010Q8MW	QPSK	1	25	0 mm	right	1:1	0.463	1.164	0.539	0.169	0.197	
2310.00	27710	Mid	LTE Band 30	10	10.7	10.15	0.07	0	Ant 3A	DLXD1010Q8MW	QPSK	25	25	0 mm	right	1:1	0.490	1.135	0.556	0.179	0.203	
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 10-49
LTE Band 7 Ant 4 Body SAR

MEASUREMENT RESULTS																												
# CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
		MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.7	13.64	-0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	1	50	0 mm	back	1:1	1.070	1.014	1.085	0.379	0.384	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.7	13.61	-0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1	1.020	1.021	1.041	0.360	0.368	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.7	13.63	0.09	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1	1.010	1.016	1.026	0.354	0.360	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.7	13.70	-0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1	1.110	1.000	1.110	0.393	0.393	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.7	13.40	0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	1.000	1.072	1.072	0.352	0.377	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.7	13.48	0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1	1.000	1.052	1.052	0.350	0.368	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.7	13.62	0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	100	0	0 mm	back	1:1	1.100	1.019	1.121	0.387	0.394	
2 CC Uplink	PCC	2510.00	20850	Low	LTE Band 7	20	13.7	13.20	0.00	0	Ant 4	DLXD100QQ8MQ	QPSK	100	0	0 mm	back	1:1	0.950	1.122	1.066	0.337	0.378	
2 CC Uplink	SCC	2529.80	21048	Low	LTE Band 7	20								100	0									
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.7	13.64	-0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	1	50	0 mm	top	1:1	0.436	1.014	0.442	0.160	0.162	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.7	13.70	-0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	top	1:1	0.439	1.000	0.439	0.161	0.161	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.7	13.64	-0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	1	50	0 mm	bottom	1:1	0.004	1.014	0.004	0.001	0.001	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.7	13.70	0.05	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	bottom	1:1	0.004	1.000	0.004	0.001	0.001	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.7	13.64	-0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	1	50	0 mm	right	1:1	0.007	1.014	0.007	0.003	0.003	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.7	13.70	0.07	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	right	1:1	0.008	1.000	0.008	0.003	0.003	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.7	13.64	-0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	1	50	0 mm	left	1:1	0.856	1.014	0.868	0.288	0.292	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.7	13.61	-0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	1	0	0 mm	left	1:1	0.804	1.021	0.821	0.269	0.275	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.7	13.63	0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	left	1:1	0.877	1.016	0.891	0.290	0.295	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.7	13.70	-0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	left	1:1	0.873	1.000	0.873	0.293	0.293	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.7	13.40	0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	left	1:1	0.814	1.072	0.873	0.271	0.291	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.7	13.48	-0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	left	1:1	0.886	1.052	0.932	0.293	0.308	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.7	13.62	0.13	0	Ant 4	DLXD100QQ8MQ	QPSK	100	0	0 mm	left	1:1	0.878	1.019	0.895	0.296	0.302	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	10.7	10.67	-0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1	0.486	1.007	0.489	0.182	0.183	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	10.7	10.63	-0.13	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	0.477	1.016	0.485	0.177	0.180	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	10.7	10.67	-0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	left	1:1	0.421	1.007	0.424	0.142	0.143	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	10.7	10.63	-0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	left	1:1	0.414	1.016	0.421	0.138	0.140	
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 10-50
LTE Band 7 Ant 2A Body SAR

MEASUREMENT RESULTS																										
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
2510.00	20850	Low	LTE Band 7	20	14.6	14.52	0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1	1.120	1.019	1.141	0.416	0.424	
2535.00	21100	Mid	LTE Band 7	20	14.6	14.38	-0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1	1.030	1.052	1.084	0.378	0.398	
2560.00	21350	High	LTE Band 7	20	14.6	14.51	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1	1.050	1.021	1.072	0.382	0.390	
2510.00	20850	Low	LTE Band 7	20	14.6	14.48	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1	1.130	1.028	1.162	0.418	0.430	A17
2535.00	21100	Mid	LTE Band 7	20	14.6	14.39	0.03	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	1.070	1.050	1.124	0.391	0.411	
2560.00	21350	High	LTE Band 7	20	14.6	14.24	0.00	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1	1.020	1.086	1.108	0.372	0.404	
2510.00	20850	Low	LTE Band 7	20	14.6	14.18	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	100	0	0 mm	back	1:1	1.070	1.102	1.179	0.407	0.449	
2510.00	20850	Low	LTE Band 7	20	14.6	14.40	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	100	0	0 mm	back	1:1	1.120	1.047	1.173	0.401	0.420	
2529.80	21048	Low	LTE Band 7	20								100	0									
2510.00	20850	Low	LTE Band 7	20	14.6	14.52	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	top	1:1	0.039	1.019	0.040	0.016	0.016	
2510.00	20850	Low	LTE Band 7	20	14.6	14.48	0.00	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	top	1:1	0.043	1.028	0.044	0.016	0.016	
2510.00	20850	Low	LTE Band 7	20	14.6	14.52	0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	bottom	1:1	0.638	1.019	0.650	0.201	0.205	
2510.00	20850	Low	LTE Band 7	20	14.6	14.48	0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	bottom	1:1	0.653	1.028	0.671	0.203	0.209	
2510.00	20850	Low	LTE Band 7	20	14.6	14.52	0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	right	1:1	0.675	1.019	0.688	0.229	0.233	
2510.00	20850	Low	LTE Band 7	20	14.6	14.48	-0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	right	1:1	0.683	1.028	0.702	0.229	0.235	
2510.00	20850	Low	LTE Band 7	20	14.6	14.52	0.07	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	left	1:1	0.003	1.019	0.003	0.000	0.000	
2510.00	20850	Low	LTE Band 7	20	14.6	14.48	-0.04	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	left	1:1	0.001	1.028	0.001	0.000	0.000	
2535.00	21100	Mid	LTE Band 7	20	11.6	11.50	-0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1	0.633	1.023	0.648	0.241	0.247	
2535.00	21100	Mid	LTE Band 7	20	11.6	11.27	-0.09	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	25	0 mm	back	1:1	0.592	1.079	0.639	0.229	0.247	

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 10-51
LTE Band 7 Ant 1A Body SAR

MEASUREMENT RESULTS																											
1 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
		MHz	Ch.																(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.9	13.76	-0.11	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	99	0 mm	back	1:1	0.812	1.033	0.839	0.358	0.370	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.9	13.84	-0.05	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	back	1:1	0.904	1.014	0.917	0.394	0.400	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.9	13.51	-0.05	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	back	1:1	0.807	1.094	0.883	0.350	0.383	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.9	13.61	-0.01	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	25	0 mm	back	1:1	1.030	1.069	1.101	0.443	0.474	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.9	13.59	-0.02	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	50	0 mm	back	1:1	1.030	1.074	1.106	0.422	0.453	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.9	13.64	-0.07	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	50	0 mm	back	1:1	0.880	1.062	0.935	0.380	0.404	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.9	13.41	-0.03	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	back	1:1	0.783	1.119	0.876	0.342	0.383	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.9	13.60	-0.08	0	Ant 1A	DLXD100LQ8MQ	QPSK	100	0	0 mm	back	1:1	0.858	1.072	0.920	0.373	0.400	
2 CC Uplink	PCC	2510.00	20850	Low	LTE Band 7	20	13.9	13.60	-0.02	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	50	0 mm	back	1:1	1.030	1.072	1.104	0.421	0.451	
2 CC Uplink	SCC	2529.80	21048	Low	LTE Band 7	20								50	0									
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.9	13.84	0.07	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	top	1:1	0.029	1.014	0.029	0.010	0.010	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.9	13.64	0.04	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	50	0 mm	top	1:1	0.026	1.062	0.028	0.010	0.011	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.9	13.84	-0.02	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	bottom	1:1	0.498	1.014	0.505	0.150	0.152	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.9	13.64	-0.04	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	50	0 mm	bottom	1:1	0.474	1.062	0.503	0.142	0.151	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.9	13.84	0.19	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	right	1:1	0.001	1.014	0.001	0.000	0.000	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.9	13.64	-0.04	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	50	0 mm	right	1:1	0.001	1.062	0.001	0.000	0.000	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.9	13.76	0.06	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	99	0 mm	left	1:1	0.864	1.033	0.893	0.291	0.301	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.9	13.84	-0.01	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	left	1:1	0.865	1.014	0.877	0.289	0.293	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.9	13.51	-0.06	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	left	1:1	0.814	1.094	0.891	0.270	0.295	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	13.9	13.61	-0.01	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	25	0 mm	left	1:1	0.882	1.069	0.943	0.295	0.315	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.9	13.64	0.02	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	50	0 mm	left	1:1	0.813	1.062	0.863	0.289	0.286	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	13.9	13.41	-0.01	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	left	1:1	0.772	1.119	0.864	0.254	0.284	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	13.9	13.60	0.01	0	Ant 1A	DLXD100LQ8MQ	QPSK	100	0	0 mm	left	1:1	0.815	1.072	0.874	0.269	0.288	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	10.9	10.90	0.14	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	back	1:1	0.519	1.000	0.519	0.215	0.215	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	10.9	10.79	0.02	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	25	0 mm	back	1:1	0.530	1.026	0.544	0.220	0.226	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	10.9	10.90	-0.02	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	left	1:1	0.376	1.000	0.376	0.127	0.127	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	10.9	10.79	0.01	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	25	0 mm	left	1:1	0.384	1.026	0.394	0.129	0.132	

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 10-52
LTE Band 7 Ant 3A Body SAR

MEASUREMENT RESULTS																												
1 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
		MHz	Ch.																									
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.69	-0.03	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1	0.361	1.074	0.388	0.151	0.162	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.62	0.01	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	25	0 mm	back	1:1	0.359	1.091	0.392	0.150	0.164	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.69	-0.01	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	0	0 mm	top	1:1	0.265	1.074	0.285	0.082	0.088	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.62	-0.04	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	25	0 mm	top	1:1	0.255	1.091	0.278	0.078	0.085	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.69	0.17	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	0	0 mm	bottom	1:1	0.006	1.074	0.006	0.002	0.002	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.62	0.15	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	25	0 mm	bottom	1:1	0.006	1.091	0.007	0.002	0.002	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.0	11.48	0.03	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	99	0 mm	right	1:1	0.984	1.127	1.109	0.333	0.375	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.69	-0.01	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	0	0 mm	right	1:1	0.992	1.074	1.065	0.335	0.360	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.0	11.65	0.02	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	0	0 mm	right	1:1	0.991	1.084	1.074	0.332	0.360	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	12.0	11.60	-0.04	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	50	0 mm	right	1:1	0.906	1.096	0.993	0.309	0.339	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.62	-0.02	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	25	0 mm	right	1:1	0.995	1.091	1.086	0.334	0.364	
1 CC Uplink	N/A	2560.00	21350	High	LTE Band 7	20	12.0	11.41	0.01	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	0	0 mm	right	1:1	0.999	1.146	1.145	0.336	0.385	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.61	0.06	0	Ant 3A	DLXD100QQ8MQ	QPSK	100	0	0 mm	right	1:1	0.989	1.094	1.082	0.333	0.364	
2 CC Uplink	PCC	2560.00	21350	High	LTE Band 7	20	12.0	11.35	0.01	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	0	0 mm	right	1:1	1.010	1.161	1.173	0.328	0.381	
2 CC Uplink	SCC	2540.20	21152	High	LTE Band 7	20								50	50									
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.69	-0.04	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	0	0 mm	left	1:1	0.000	1.074	0.000	0.000	0.000	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	12.0	11.62	-0.09	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	25	0 mm	left	1:1	0.001	1.091	0.001	0.000	0.000	
1 CC Uplink	N/A	2535.00	21100	Mid	LTE Band 7	20	9.0	9.00	-0.18	0	Ant 3A	DLXD100QQ8MQ	QPSK	1	0	0 mm	right	1:1	0.398	1.000	0.398	0.138	0.138	
1 CC Uplink	N/A	2510.00	20850	Low	LTE Band 7	20	9.0	8.76	-0.14	0	Ant 3A	DLXD100QQ8MQ	QPSK	50	25	0 mm	right	1:1	0.415	1.057	0.439	0.142	0.150	
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 10-53
LTE Band 41 Ant 4 Body SAR

MEASUREMENT RESULTS																								
1 CC Uplink | 2CC Uplink, Power Class	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
		MHz	Ch.																				
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.6	15.50	0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1.58	0.972	1.023	0.994	0.345	0.353	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.6	15.52	0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1.58	0.913	1.019	0.930	0.321	0.327	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.6	15.24	0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1.58	0.886	1.086	0.962	0.310	0.337	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.6	15.30	0.08	0	Ant 4	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1.58	0.845	1.072	0.906	0.293	0.314	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.6	15.26	-0.05	0	Ant 4	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1.58	0.803	1.081	0.868	0.279	0.302	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.6	15.48	0.08	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1.58	1.020	1.028	1.049	0.355	0.365	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.6	15.49	0.00	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1.58	0.838	1.026	0.860	0.294	0.302	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.6	15.22	0.00	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1.58	0.890	1.091	0.971	0.310	0.338	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.6	15.36	0.06	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1.58	0.882	1.057	0.932	0.305	0.322	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.6	15.26	0.07	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1.58	0.763	1.081	0.825	0.262	0.283	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.6	15.44	0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	100	0	0 mm	back	1:1.58	0.834	1.038	0.866	0.294	0.305	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	15.6	15.29	-0.06	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:2.31	0.615	1.074	0.661	0.220	0.236	
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	LTE Band 41	20	15.6	15.52	0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1.58	0.981	1.019	1.000	0.347	0.354	
2 CC Uplink - Power Class 3	SCC	2525.80	39948	Low	LTE Band 41	20								50	0									
2 CC Uplink - Power Class 2	PCC	2506.00	39750	Low	LTE Band 41	20	15.6	15.29	0.04	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:2.31	0.594	1.074	0.638	0.209	0.224	
2 CC Uplink - Power Class 2	SCC	2525.80	39948	Low	LTE Band 41	20								50	0									
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.6	15.52	-0.03	0	Ant 4	DLXD100QQ8MQ	QPSK	1	0	0 mm	top	1:1.58	0.385	1.019	0.392	0.120	0.122	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.6	15.49	-0.08	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	top	1:1.58	0.381	1.026	0.391	0.119	0.122	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.6	15.52	-0.04	0	Ant 4	DLXD100QQ8MQ	QPSK	1	0	0 mm	bottom	1:1.58	0.017	1.019	0.017	0.007	0.007	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.6	15.49	0.11	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	bottom	1:1.58	0.016	1.026	0.016	0.006	0.006	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.6	15.52	0.09	0	Ant 4	DLXD100QQ8MQ	QPSK	1	0	0 mm	right	1:1.58	0.012	1.019	0.012	0.003	0.003	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.6	15.49	0.04	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	right	1:1.58	0.013	1.026	0.013	0.004	0.004	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.6	15.50	0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	left	1:1.58	0.758	1.023	0.775	0.255	0.261	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.6	15.52	0.02	0	Ant 4	DLXD100QQ8MQ	QPSK	1	0	0 mm	left	1:1.58	0.731	1.019	0.745	0.242	0.247	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.6	15.24	0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	1	99	0 mm	left	1:1.58	0.833	1.086	0.905	0.272	0.295	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.6	15.30	0.06	0	Ant 4	DLXD100QQ8MQ	QPSK	1	0	0 mm	left	1:1.58	0.811	1.072	0.869	0.266	0.285	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.6	15.26	-0.12	0	Ant 4	DLXD100QQ8MQ	QPSK	1	0	0 mm	left	1:1.58	0.820	1.081	0.886	0.263	0.284	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.6	15.48	0.18	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	left	1:1.58	0.710	1.028	0.730	0.238	0.245	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.6	15.49	-0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	left	1:1.58	0.733	1.026	0.752	0.242	0.248	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.6	15.22	0.01	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	left	1:1.58	0.752	1.091	0.820	0.248	0.271	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.6	15.36	0.06	0	Ant 4	DLXD100QQ8MQ	QPSK	50	50	0 mm	left	1:1.58	0.783	1.057	0.828	0.255	0.270	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.6	15.26	0.06	0	Ant 4	DLXD100QQ8MQ	QPSK	50	0	0 mm	left	1:1.58	0.797	1.081	0.862	0.255	0.276	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.6	15.44	0.14	0	Ant 4	DLXD100QQ8MQ	QPSK	100	0	0 mm	left	1:1.58	0.732	1.038	0.760	0.242	0.251	
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 10-54
LTE Band 41 Ant 2A Body SAR

MEASUREMENT RESULTS																									
1 CC Uplink | 2CC Uplink, Power Class	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
		MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.56	0.03	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1.58	1.140	1.009	1.150	0.421	0.425	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	16.6	16.37	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1.58	1.120	1.054	1.180	0.417	0.440	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	16.6	16.30	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1.58	0.982	1.072	1.053	0.351	0.376	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	16.6	16.36	0.04	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1.58	0.904	1.057	0.956	0.320	0.338	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	16.6	16.28	0.05	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	back	1:1.58	0.850	1.076	0.915	0.301	0.324	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.55	0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1.58	1.150	1.012	1.164	0.424	0.429	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	16.6	16.39	0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	back	1:1.58	1.120	1.050	1.176	0.407	0.427	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	16.6	16.30	0.09	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1.58	0.977	1.072	1.047	0.351	0.376	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	16.6	16.41	0.05	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1.58	0.922	1.045	0.963	0.327	0.342	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	16.6	16.32	0.06	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	back	1:1.58	0.864	1.067	0.922	0.304	0.324	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.54	0.09	0	Ant 2A	DLXD100QQ8MQ	QPSK	100	0	0 mm	back	1:1.58	1.150	1.014	1.166	0.436	0.442	A18
1 CC Uplink - Power Class 2	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	16.6	16.04	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:2.31	0.696	1.138	0.792	0.264	0.289	
2 CC Uplink - Power Class 3	PCC	2549.50	40185	Low-Mid	LTE Band 41	20	16.6	15.90	0.11	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1.58	0.973	1.175	1.143	0.361	0.424	
2 CC Uplink - Power Class 3	SCC	2569.30	40383	Low-Mid	LTE Band 41	20								1	0									
2 CC Uplink - Power Class 2	PCC	2549.50	40185	Low-Mid	LTE Band 41	20	16.6	15.79	0.16	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:2.31	0.634	1.205	0.764	0.232	0.280	
2 CC Uplink - Power Class 2	SCC	2569.30	40383	Low-Mid	LTE Band 41	20								1	0									
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.56	0.03	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	top	1:1.58	0.016	1.009	0.016	0.007	0.007	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.55	0.04	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	top	1:1.58	0.017	1.012	0.017	0.007	0.007	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.56	-0.07	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	bottom	1:1.58	0.602	1.009	0.607	0.188	0.190	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	16.6	16.37	-0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	bottom	1:1.58	0.648	1.054	0.683	0.202	0.213	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	16.6	16.30	-0.03	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	bottom	1:1.58	0.640	1.072	0.686	0.198	0.212	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	16.6	16.36	-0.05	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	bottom	1:1.58	0.669	1.057	0.707	0.207	0.219	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	16.6	16.28	-0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	bottom	1:1.58	0.558	1.076	0.600	0.167	0.180	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.55	-0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	bottom	1:1.58	0.611	1.012	0.618	0.189	0.191	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	16.6	16.39	-0.04	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	bottom	1:1.58	0.645	1.050	0.677	0.202	0.212	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	16.6	16.30	-0.03	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	bottom	1:1.58	0.644	1.072	0.690	0.199	0.213	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	16.6	16.41	-0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	bottom	1:1.58	0.668	1.045	0.698	0.207	0.216	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	16.6	16.32	0.00	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	bottom	1:1.58	0.553	1.067	0.590	0.164	0.175	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.54	-0.05	0	Ant 2A	DLXD100QQ8MQ	QPSK	100	0	0 mm	bottom	1:1.58	0.651	1.014	0.660	0.206	0.209	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.56	-0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	right	1:1.58	0.654	1.009	0.660	0.225	0.227	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	16.6	16.37	0.00	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	right	1:1.58	0.644	1.054	0.679	0.218	0.230	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	16.6	16.30	-0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	right	1:1.58	0.633	1.072	0.679	0.212	0.227	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	16.6	16.36	-0.08	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	right	1:1.58	0.579	1.057	0.612	0.191	0.202	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	16.6	16.28	0.14	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	0	0 mm	right	1:1.58	0.565	1.076	0.608	0.185	0.199	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.55	-0.04	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	right	1:1.58	0.666	1.012	0.674	0.230	0.233	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	16.6	16.39	0.00	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	0	0 mm	right	1:1.58	0.640	1.050	0.672	0.218	0.229	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	16.6	16.30	-0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	right	1:1.58	0.629	1.072	0.674	0.210	0.225	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	16.6	16.41	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	right	1:1.58	0.591	1.045	0.618	0.194	0.203	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	16.6	16.32	-0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	right	1:1.58	0.571	1.067	0.609	0.185	0.197	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.54	-0.01	0	Ant 2A	DLXD100QQ8MQ	QPSK	100	0	0 mm	right	1:1.58	0.667	1.014	0.676	0.230	0.233	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.56	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	left	1:1.58	0.005	1.009	0.005	0.000	0.000	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.55	-0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	50	50	0 mm	left	1:1.58	0.005	1.012	0.005	0.000	0.000	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	16.6	16.54	-0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	100	0	0 mm	back	1:1.58	1.130	1.014	1.146	0.429	0.435	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	16.6	16.37	0.02	0	Ant 2A	DLXD100QQ8MQ	QPSK	1	99	0 mm	back	1:1.58	1.080	1.054	1.138	0.394	0.415	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram												

Note: Blue entry represents variability measurement.

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Table 10-55
LTE Band 41 Ant 1A Body SAR

MEASUREMENT RESULTS																														
1 CC Uplink | 2CC Uplink, Power Class	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
		MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.0	14.99	-0.07	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	back	1:1.58	0.899	1.002	0.901	0.380	0.381	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	14.96	-0.03	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	back	1:1.58	0.795	1.009	0.802	0.331	0.334	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	15.00	-0.04	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	back	1:1.58	0.825	1.000	0.825	0.337	0.337	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.0	14.99	0.03	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	50	0 mm	back	1:1.58	0.814	1.002	0.816	0.335	0.336	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.0	14.98	-0.06	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	99	0 mm	back	1:1.58	0.989	1.005	0.994	0.401	0.403	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.0	14.98	0.02	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	back	1:1.58	0.862	1.005	0.866	0.361	0.363	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	14.94	-0.03	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	25	0 mm	back	1:1.58	0.791	1.014	0.802	0.328	0.333	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	15.00	-0.03	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	back	1:1.58	0.828	1.000	0.828	0.341	0.341	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.0	14.94	-0.11	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	25	0 mm	back	1:1.58	0.848	1.014	0.860	0.347	0.352	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.0	14.95	0.01	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	back	1:1.58	1.040	1.012	1.052	0.417	0.422	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	14.97	-0.05	0	Ant 1A	DLXD100LQ8MQ	QPSK	100	0	0 mm	back	1:1.58	0.824	1.007	0.830	0.339	0.341	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	15.0	14.70	0.00	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	back	1:2.31	0.632	1.072	0.678	0.246	0.264	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20	15.0	14.30	-0.05	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	back	1:1.58	0.932	1.175	1.095	0.364	0.428	
2 CC Uplink - Power Class 3	SCC	2660.20	41292	High	LTE Band 41	20								50	50									
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	LTE Band 41	20	15.0	14.45	-0.08	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	back	1:2.31	0.616	1.135	0.699	0.241	0.274	
2 CC Uplink - Power Class 2	SCC	2660.20	41292	High	LTE Band 41	20								50	50									
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	15.00	0.02	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	top	1:1.58	0.020	1.000	0.020	0.007	0.007	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	15.00	0.03	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	top	1:1.58	0.020	1.000	0.020	0.007	0.007	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	15.00	0.04	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	bottom	1:1.58	0.368	1.000	0.368	0.109	0.109	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	15.00	0.01	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	bottom	1:1.58	0.368	1.000	0.368	0.109	0.109	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	15.00	-0.13	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	right	1:1.58	0.002	1.000	0.002	0.001	0.001	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	15.00	0.07	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	right	1:1.58	0.001	1.000	0.001	0.001	0.001	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.0	14.99	0.05	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	left	1:1.58	0.712	1.002	0.713	0.242	0.242	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	14.96	0.01	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	left	1:1.58	0.607	1.009	0.612	0.202	0.204	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	15.00	0.02	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	0	0 mm	left	1:1.58	0.640	1.000	0.640	0.213	0.213	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.0	14.99	0.00	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	50	0 mm	left	1:1.58	0.708	1.002	0.709	0.230	0.230	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.0	14.98	0.00	0	Ant 1A	DLXD100LQ8MQ	QPSK	1	99	0 mm	left	1:1.58	0.838	1.005	0.842	0.269	0.270	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	15.0	14.98	0.08	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	left	1:1.58	0.695	1.005	0.698	0.235	0.236	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	15.0	14.94	-0.04	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	25	0 mm	left	1:1.58	0.600	1.014	0.608	0.199	0.202	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	15.00	0.03	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	left	1:1.58	0.656	1.000	0.656	0.217	0.217	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	15.0	14.94	0.00	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	25	0 mm	left	1:1.58	0.708	1.014	0.718	0.230	0.233	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	15.0	14.95	-0.03	0	Ant 1A	DLXD100LQ8MQ	QPSK	50	0	0 mm	left	1:1.58	0.843	1.012	0.853	0.271	0.274	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	15.0	14.97	0.02	0	Ant 1A	DLXD100LQ8MQ	QPSK	100	0	0 mm	left	1:1.58	0.637	1.007	0.641	0.207	0.208	
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 10-56
LTE Band 41 Ant 3A Body SAR

MEASUREMENT RESULTS																														
1 CC Uplink | 2CC Uplink, Power Class	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
		MHz	Ch.															(W/kg)		(W/kg)	(W/kg)	(W/kg)	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.20	0.02	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	0	0 mm	back	1:1.58	0.371	1.000	0.371	0.159	0.159	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.12	-0.02	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	0	0 mm	back	1:1.58	0.382	1.019	0.389	0.163	0.166	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.20	-0.01	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	0	0 mm	top	1:1.58	0.287	1.000	0.287	0.090	0.090	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.12	0.00	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	0	0 mm	top	1:1.58	0.291	1.019	0.297	0.091	0.093	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.20	0.02	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	0	0 mm	bottom	1:1.58	0.005	1.000	0.005	0.002	0.002	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.12	0.05	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	0	0 mm	bottom	1:1.58	0.006	1.019	0.006	0.003	0.003	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.20	0.03	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	0	0 mm	right	1:1.58	1.010	1.000	1.010	0.340	0.340	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	14.05	0.08	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	99	0 mm	right	1:1.58	1.010	1.035	1.045	0.335	0.347	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.08	0.01	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	99	0 mm	right	1:1.58	1.070	1.028	1.100	0.349	0.359	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.2	14.15	0.00	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	0	0 mm	right	1:1.58	1.030	1.012	1.042	0.333	0.337	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.2	14.03	0.01	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	99	0 mm	right	1:1.58	1.010	1.040	1.050	0.322	0.335	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.12	-0.07	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	0	0 mm	right	1:1.58	0.977	1.019	0.996	0.326	0.332	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	14.2	14.08	0.03	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	50	0 mm	right	1:1.58	1.030	1.028	1.059	0.337	0.346	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.09	0.02	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	0	0 mm	right	1:1.58	1.040	1.028	1.067	0.341	0.350	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	14.2	14.08	0.02	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	0	0 mm	right	1:1.58	1.040	1.028	1.069	0.337	0.346	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	14.2	14.04	0.01	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	25	0 mm	right	1:1.58	1.010	1.038	1.048	0.324	0.336	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.08	-0.06	0	Ant 3A	DLXD101EQ8MQ	QPSK	100	0	0 mm	right	1:1.58	1.060	1.028	1.090	0.344	0.354	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	LTE Band 41	20	14.2	14.09	0.01	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	99	0 mm	right	1:2.31	0.711	1.026	0.729	0.233	0.239	
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	LTE Band 41	20	14.2	13.72	0.05	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	99	0 mm	right	1:1.58	0.964	1.117	1.077	0.311	0.347	
2 CC Uplink - Power Class 3	SCC	2612.80	40818	Mid	LTE Band 41	20								1	0									
2 CC Uplink - Power Class 2	PCC	2593.00	40620	Mid	LTE Band 41	20	14.2	13.77	0.04	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	99	0 mm	right	1:2.31	0.640	1.104	0.707	0.207	0.229	
2 CC Uplink - Power Class 2	SCC	2612.80	40818	Mid	LTE Band 41	20								1	0									
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.20	0.06	0	Ant 3A	DLXD101EQ8MQ	QPSK	1	0	0 mm	left	1:1.58	0.002	1.000	0.002	0.001	0.001	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	14.2	14.12	0.02	0	Ant 3A	DLXD101EQ8MQ	QPSK	50	0	0 mm	left	1:1.58	0.001	1.019	0.001	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram												

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Table 10-57
LTE Band 48 Ant 4 Body SAR

MEASUREMENT RESULTS																				
Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
LTE Band 48	20	16.5	16.48	-0.04	0	Ant 4	DLXD1004Q8MW	QPSK	1	0	0 mm	back	1:1.58	1.100	1.005	1.106	0.324	0.326	
LTE Band 48	20	16.5	16.41	0.03	0	Ant 4	DLXD1004Q8MW	QPSK	1	0	0 mm	back	1:1.58	1.010	1.021	1.031	0.297	0.303	
LTE Band 48	20	16.5	16.42	0.02	0	Ant 4	DLXD1004Q8MW	QPSK	1	0	0 mm	back	1:1.58	1.100	1.019	1.121	0.321	0.327	
LTE Band 48	20	16.5	16.33	0.00	0	Ant 4	DLXD1004Q8MW	QPSK	1	99	0 mm	back	1:1.58	1.110	1.040	1.154	0.320	0.333	A19
LTE Band 48	20	16.5	16.50	0.03	0	Ant 4	DLXD1004Q8MW	QPSK	50	25	0 mm	back	1:1.58	1.100	1.000	1.100	0.321	0.321	
LTE Band 48	20	16.5	16.31	0.02	0	Ant 4	DLXD1004Q8MW	QPSK	50	0	0 mm	back	1:1.58	1.030	1.045	1.076	0.298	0.311	
LTE Band 48	20	16.5	16.31	-0.03	0	Ant 4	DLXD1004Q8MW	QPSK	50	50	0 mm	back	1:1.58	1.080	1.045	1.129	0.313	0.327	
LTE Band 48	20	16.5	16.26	-0.19	0	Ant 4	DLXD1004Q8MW	QPSK	50	50	0 mm	back	1:1.58	1.080	1.057	1.142	0.311	0.329	
LTE Band 48	20	16.5	16.35	0.04	0	Ant 4	DLXD1004Q8MW	QPSK	100	0	0 mm	back	1:1.58	1.110	1.035	1.149	0.328	0.339	
LTE Band 48	20	16.5	16.48	-0.02	0	Ant 4	DLXD1004Q8MW	QPSK	1	0	0 mm	top	1:1.58	0.300	1.005	0.302	0.085	0.085	
LTE Band 48	20	16.5	16.50	0.07	0	Ant 4	DLXD1004Q8MW	QPSK	50	25	0 mm	top	1:1.58	0.265	1.000	0.265	0.081	0.081	
LTE Band 48	20	16.5	16.48	0.15	0	Ant 4	DLXD1004Q8MW	QPSK	1	0	0 mm	bottom	1:1.58	0.005	1.005	0.005	0.001	0.001	
LTE Band 48	20	16.5	16.50	-0.02	0	Ant 4	DLXD1004Q8MW	QPSK	50	25	0 mm	bottom	1:1.58	0.005	1.000	0.005	0.001	0.001	
LTE Band 48	20	16.5	16.48	0.00	0	Ant 4	DLXD1004Q8MW	QPSK	1	0	0 mm	right	1:1.58	0.000	1.005	0.000	0.000	0.000	
LTE Band 48	20	16.5	16.50	0.00	0	Ant 4	DLXD1004Q8MW	QPSK	50	25	0 mm	right	1:1.58	0.000	1.000	0.000	0.000	0.000	
LTE Band 48	20	16.5	16.48	0.09	0	Ant 4	DLXD1004Q8MW	QPSK	1	0	0 mm	left	1:1.58	0.558	1.005	0.561	0.146	0.147	
LTE Band 48	20	16.5	16.41	0.03	0	Ant 4	DLXD1004Q8MW	QPSK	1	0	0 mm	left	1:1.58	0.605	1.021	0.618	0.161	0.164	
LTE Band 48	20	16.5	16.42	0.12	0	Ant 4	DLXD1004Q8MW	QPSK	1	0	0 mm	left	1:1.58	0.665	1.019	0.678	0.175	0.178	
LTE Band 48	20	16.5	16.33	-0.11	0	Ant 4	DLXD1004Q8MW	QPSK	1	99	0 mm	left	1:1.58	0.728	1.040	0.757	0.193	0.201	
LTE Band 48	20	16.5	16.50	-0.02	0	Ant 4	DLXD1004Q8MW	QPSK	50	25	0 mm	left	1:1.58	0.561	1.000	0.561	0.147	0.147	
LTE Band 48	20	16.5	16.31	0.02	0	Ant 4	DLXD1004Q8MW	QPSK	50	0	0 mm	left	1:1.58	0.586	1.045	0.612	0.153	0.160	
LTE Band 48	20	16.5	16.31	0.01	0	Ant 4	DLXD1004Q8MW	QPSK	50	50	0 mm	left	1:1.58	0.638	1.045	0.667	0.168	0.176	
LTE Band 48	20	16.5	16.26	-0.04	0	Ant 4	DLXD1004Q8MW	QPSK	50	50	0 mm	left	1:1.58	0.663	1.057	0.701	0.174	0.184	
LTE Band 48	20	16.5	16.35	0.00	0	Ant 4	DLXD1004Q8MW	QPSK	100	0	0 mm	left	1:1.58	0.572	1.035	0.592	0.152	0.157	
LTE Band 48	20	16.5	16.35	0.02	0	Ant 4	DLXD1004Q8MW	QPSK	100	0	0 mm	back	1:1.58	1.020	1.035	1.056	0.303	0.314	
LTE Band 48	20	16.5	16.33	-0.03	0	Ant 4	DLXD1004Q8MW	QPSK	1	99	0 mm	back	1:1.58	1.060	1.040	1.102	0.303	0.315	
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 10-58
LTE Band 48 Ant 3B Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																				
3560.00	55340	Low	LTE Band 48	20	16.2	15.50	-0.17	0	Ant 3B	DLXD1004Q8MW	QPSK	1	99	0 mm	back	1:1.58	0.956	1.175	1.123	0.265	0.311	
3603.30	55773	Low-Mid	LTE Band 48	20	16.2	15.58	-0.16	0	Ant 3B	DLXD1004Q8MW	QPSK	1	99	0 mm	back	1:1.58	0.910	1.153	1.049	0.250	0.288	
3646.70	56207	Mid-High	LTE Band 48	20	16.2	15.49	-0.17	0	Ant 3B	DLXD1004Q8MW	QPSK	1	0	0 mm	back	1:1.58	0.926	1.178	1.091	0.257	0.303	
3690.00	56640	High	LTE Band 48	20	16.2	15.67	-0.12	0	Ant 3B	DLXD1004Q8MW	QPSK	1	99	0 mm	back	1:1.58	0.899	1.130	1.016	0.252	0.285	
3560.00	55340	Low	LTE Band 48	20	16.2	15.58	-0.03	0	Ant 3B	DLXD1004Q8MW	QPSK	50	25	0 mm	back	1:1.58	0.954	1.153	1.100	0.264	0.304	
3603.30	55773	Low-Mid	LTE Band 48	20	16.2	15.46	-0.03	0	Ant 3B	DLXD1004Q8MW	QPSK	50	50	0 mm	back	1:1.58	0.881	1.186	1.045	0.243	0.288	
3646.70	56207	Mid-High	LTE Band 48	20	16.2	15.38	-0.15	0	Ant 3B	DLXD1004Q8MW	QPSK	50	0	0 mm	back	1:1.58	0.858	1.208	1.036	0.236	0.285	
3690.00	56640	High	LTE Band 48	20	16.2	15.59	-0.19	0	Ant 3B	DLXD1004Q8MW	QPSK	50	50	0 mm	back	1:1.58	0.878	1.151	1.011	0.246	0.283	
3690.00	56640	High	LTE Band 48	20	16.2	15.56	-0.02	0	Ant 3B	DLXD1004Q8MW	QPSK	100	0	0 mm	back	1:1.58	0.900	1.159	1.043	0.252	0.292	
3560.00	55340	Low	LTE Band 48	20	16.2	15.50	-0.13	0	Ant 3B	DLXD1004Q8MW	QPSK	1	99	0 mm	top	1:1.58	0.808	1.175	0.949	0.238	0.280	
3603.30	55773	Low-Mid	LTE Band 48	20	16.2	15.58	-0.04	0	Ant 3B	DLXD1004Q8MW	QPSK	1	99	0 mm	top	1:1.58	0.767	1.153	0.884	0.228	0.263	
3646.70	56207	Mid-High	LTE Band 48	20	16.2	15.49	-0.05	0	Ant 3B	DLXD1004Q8MW	QPSK	1	0	0 mm	top	1:1.58	0.735	1.178	0.866	0.221	0.260	
3690.00	56640	High	LTE Band 48	20	16.2	15.67	-0.13	0	Ant 3B	DLXD1004Q8MW	QPSK	1	99	0 mm	top	1:1.58	0.773	1.130	0.873	0.222	0.251	
3560.00	55340	Low	LTE Band 48	20	16.2	15.58	-0.10	0	Ant 3B	DLXD1004Q8MW	QPSK	50	25	0 mm	top	1:1.58	0.817	1.153	0.942	0.242	0.279	
3603.30	55773	Low-Mid	LTE Band 48	20	16.2	15.46	-0.17	0	Ant 3B	DLXD1004Q8MW	QPSK	50	50	0 mm	top	1:1.58	0.737	1.186	0.874	0.217	0.257	
3646.70	56207	Mid-High	LTE Band 48	20	16.2	15.38	-0.02	0	Ant 3B	DLXD1004Q8MW	QPSK	50	0	0 mm	top	1:1.58	0.706	1.208	0.853	0.210	0.254	
3690.00	56640	High	LTE Band 48	20	16.2	15.59	-0.08	0	Ant 3B	DLXD1004Q8MW	QPSK	50	50	0 mm	top	1:1.58	0.747	1.151	0.860	0.216	0.249	
3690.00	56640	High	LTE Band 48	20	16.2	15.56	-0.08	0	Ant 3B	DLXD1004Q8MW	QPSK	100	0	0 mm	top	1:1.58	0.751	1.159	0.870	0.220	0.255	
3690.00	56640	High	LTE Band 48	20	16.2	15.67	0.00	0	Ant 3B	DLXD1004Q8MW	QPSK	1	99	0 mm	bottom	1:1.58	0.000	1.130	0.000	0.000	0.000	
3690.00	56640	High	LTE Band 48	20	16.2	15.59	0.00	0	Ant 3B	DLXD1004Q8MW	QPSK	50	50	0 mm	bottom	1:1.58	0.000	1.151	0.000	0.000	0.000	
3690.00	56640	High	LTE Band 48	20	16.2	15.67	-0.02	0	Ant 3B	DLXD1004Q8MW	QPSK	1	99	0 mm	right	1:1.58	0.071	1.130	0.080	0.015	0.017	
3690.00	56640	High	LTE Band 48	20	16.2	15.59	0.16	0	Ant 3B	DLXD1004Q8MW	QPSK	50	50	0 mm	right	1:1.58	0.072	1.151	0.083	0.016	0.018	
3690.00	56640	High	LTE Band 48	20	16.2	15.67	0.02	0	Ant 3B	DLXD1004Q8MW	QPSK	1	99	0 mm	left	1:1.58	0.010	1.130	0.011	0.001	0.001	
3690.00	56640	High	LTE Band 48	20	16.2	15.59	0.08	0	Ant 3B	DLXD1004Q8MW	QPSK	50	50	0 mm	left	1:1.58	0.010	1.151	0.012	0.001	0.001	
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 10-59
2.4 GHz WLAN Ant 3A Body SAR

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	(W/kg)	(W/kg)	
2437	6	802.11b	DSSS	22	13.00	11.80	0.10	0 mm	Ant 3A	V1	DLXD101EQ8MQ	1	back	100.0	0.342	1.318	1.000	0.451	0.155	0.204	
2437	6	802.11b	DSSS	22	13.00	11.80	0.12	0 mm	Ant 3A	V1	DLXD101EQ8MQ	1	top	100.0	0.305	1.318	1.000	0.402	0.093	0.123	
2437	6	802.11b	DSSS	22	13.00	11.80	-0.03	0 mm	Ant 3A	V1	DLXD101EQ8MQ	1	bottom	100.0	0.000	1.318	1.000	0.000	0.000	0.000	
2412	1	802.11b	DSSS	22	13.00	11.69	-0.04	0 mm	Ant 3A	V1	DLXD101EQ8MQ	1	right	100.0	0.645	1.352	1.000	0.872	0.228	0.308	
2437	6	802.11b	DSSS	22	13.00	11.80	0.00	0 mm	Ant 3A	V1	DLXD101EQ8MQ	1	right	100.0	0.795	1.318	1.000	1.048	0.281	0.370	
2437	6	802.11b	DSSS	22	13.00	11.65	-0.01	0 mm	Ant 3A	V2	DLXD100DQ8MW	1	right	100.0	0.745	1.365	1.000	1.017	0.268	0.366	
2462	11	802.11b	DSSS	22	13.00	11.73	-0.06	0 mm	Ant 3A	V1	DLXD101EQ8MQ	1	right	100.0	0.696	1.340	1.000	0.933	0.245	0.328	
2437	6	802.11b	DSSS	22	13.00	11.80	0.07	0 mm	Ant 3A	V1	DLXD101EQ8MQ	1	left	100.0	0.000	1.318	1.000	0.000	0.000	0.000	
2412	1	802.11b	DSSS	22	6.00	5.95	-0.07	0 mm	Ant 3A	V1	DLXD101EQ8MQ	1	back	100.0	0.095	1.012	1.000	0.096	0.039	0.039	
2412	1	802.11b	DSSS	22	6.00	5.95	0.00	0 mm	Ant 3A	V1	DLXD101EQ8MQ	1	top	100.0	0.074	1.012	1.000	0.075	0.020	0.020	
2412	1	802.11b	DSSS	22	6.00	5.95	0.04	0 mm	Ant 3A	V1	DLXD101EQ8MQ	1	right	100.0	0.192	1.012	1.000	0.194	0.067	0.068	
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 10-60
2.4 GHz WLAN Ant 1A Body SAR

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	(W/kg)	(W/kg)	
2412	1	802.11b	DSSS	22	13.75	12.28	-0.15	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	back	100.0	0.656	1.403	1.000	0.920	0.288	0.404	
2437	6	802.11b	DSSS	22	13.75	12.30	0.06	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	back	100.0	0.819	1.396	1.000	**1.143**	0.362	**0.505**	A20
2437	6	802.11b	DSSS	22	13.75	12.23	0.08	0 mm	Ant 1A	V2	DLXD1010Q8MW	1	back	100.0	0.762	1.419	1.000	1.081	0.335	0.475	
2462	11	802.11b	DSSS	22	13.75	12.31	0.02	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	back	100.0	0.662	1.393	1.000	0.922	0.289	0.403	
2462	11	802.11b	DSSS	22	13.75	12.31	0.10	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	top	100.0	0.008	1.393	1.000	0.011	0.003	0.004	
2462	11	802.11b	DSSS	22	13.75	12.31	0.14	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	bottom	100.0	0.313	1.393	1.000	0.436	0.095	0.132	
2462	11	802.11b	DSSS	22	13.75	12.31	-0.03	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	right	100.0	0.000	1.393	1.000	0.000	0.000	0.000	
2412	1	802.11b	DSSS	22	13.75	12.28	0.02	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	left	100.0	0.745	1.403	1.000	1.045	0.251	0.352	
2437	6	802.11b	DSSS	22	13.75	12.30	-0.04	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	left	100.0	0.728	1.396	1.000	1.016	0.252	0.352	
2462	11	802.11b	DSSS	22	13.75	12.31	0.04	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	left	100.0	0.696	1.393	1.000	0.970	0.224	0.312	
2412	1	802.11b	DSSS	22	6.75	6.72	-0.02	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	back	100.0	0.138	1.007	1.000	0.139	0.060	0.060	
2412	1	802.11b	DSSS	22	6.75	6.72	-0.01	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	top	100.0	0.000	1.007	1.000	0.000	0.000	0.000	
2412	1	802.11b	DSSS	22	6.75	6.72	-0.05	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	bottom	100.0	0.074	1.007	1.000	0.075	0.023	0.023	
2412	1	802.11b	DSSS	22	6.75	6.72	-0.08	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	right	100.0	0.000	1.007	1.000	0.000	0.000	0.000	
2412	1	802.11b	DSSS	22	6.75	6.72	-0.11	0 mm	Ant 1A	V1	DLXD101EQ8MQ	1	left	100.0	0.162	1.007	1.000	0.163	0.056	0.056	
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 10-61
5 GHz WLAN Ant 2A Body SAR

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	(W/kg)	(W/kg)	
5210	42	802.11ac	OFDM	80	10.50	9.35	-0.02	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	back	95.5	0.812	1.303	1.047	1.108	0.212	0.289	
5210	42	802.11ac	OFDM	80	10.50	9.52	0.07	0 mm	Ant 2A	V2	DLXD100DQ8MW	29.3	back	96.0	0.834	1.253	1.042	1.089	0.217	0.283	
5210	42	802.11ac	OFDM	80	10.50	9.35	-0.05	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	top	95.5	0.009	1.303	1.047	0.012	0.001	0.001	
5210	42	802.11ac	OFDM	80	10.50	9.35	0.12	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	bottom	95.5	0.070	1.303	1.047	0.095	0.019	0.026	
5210	42	802.11ac	OFDM	80	10.50	9.35	0.06	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	right	95.5	0.245	1.303	1.047	0.334	0.060	0.082	
5210	42	802.11ac	OFDM	80	10.50	9.35	0.00	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	left	95.5	0.000	1.303	1.047	0.000	0.000	0.000	
5210	42	802.11ac	OFDM	80	3.50	3.48	0.04	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	back	95.5	0.156	1.005	1.047	0.164	0.040	0.042	
5210	42	802.11ac	OFDM	80	3.50	3.48	-0.12	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	bottom	95.5	0.012	1.005	1.047	0.013	0.003	0.003	
5210	42	802.11ac	OFDM	80	3.50	3.48	-0.19	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	right	95.5	0.043	1.005	1.047	0.045	0.008	0.008	
5530	106	802.11ac	OFDM	80	10.75	9.16	0.05	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	back	95.5	0.840	1.442	1.047	0.966	0.165	0.249	
5530	106	802.11ac	OFDM	80	10.75	9.04	0.01	0 mm	Ant 2A	V2	DLXD1004Q8MW	29.3	back	96.0	0.572	1.483	1.042	0.884	0.168	0.260	
5610	122	802.11ac	OFDM	80	10.75	9.14	0.06	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	back	95.5	0.561	1.449	1.047	0.851	0.157	0.238	
5690	138	802.11ac	OFDM	80	10.75	9.07	-0.13	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	back	95.5	0.364	1.472	1.047	0.561	0.093	0.143	
5530	106	802.11ac	OFDM	80	10.75	9.16	0.06	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	top	95.5	0.023	1.442	1.047	0.035	0.005	0.008	
5530	106	802.11ac	OFDM	80	10.75	9.16	0.00	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	bottom	95.5	0.106	1.442	1.047	0.160	0.031	0.047	
5530	106	802.11ac	OFDM	80	10.75	9.16	0.02	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	right	95.5	0.187	1.442	1.047	0.282	0.043	0.065	
5530	106	802.11ac	OFDM	80	10.75	9.16	0.00	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	left	95.5	0.000	1.442	1.047	0.000	0.000	0.000	
5530	106	802.11ac	OFDM	80	3.75	3.73	0.07	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	back	95.5	0.163	1.005	1.047	0.172	0.042	0.044	
5530	106	802.11ac	OFDM	80	3.75	3.73	0.05	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	bottom	95.5	0.021	1.005	1.047	0.022	0.006	0.006	
5530	106	802.11ac	OFDM	80	3.75	3.73	0.08	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	right	95.5	0.042	1.005	1.047	0.044	0.009	0.009	
5775	155	802.11ac	OFDM	80	11.25	10.18	0.08	0 mm	Ant 2A	V1	DLXD101BQ8MQ	29.3	back	95.5	0.701	1.279	1.047	0.939	0.178	0.238	
5775	155	802.11ac	OFDM	80	11.25	10.30	0.02	0 mm	Ant 2A	V2	DLXD100DQ8MW	29.3	back	96.0	0.775	1.245	1.042	1.005	0.201	0.261	
5775	155	802.11ac	OFDM	80	11.25	10.30	0.04	0 mm	Ant 2A	V2	DLXD100DQ8MW	29.3	top	96.0	0.000	1.245	1.042	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	11.25	10.30	0.06	0 mm	Ant 2A	V2	DLXD100DQ8MW	29.3	bottom	96.0	0.070	1.245	1.042	0.091	0.020	0.026	
5775	155	802.11ac	OFDM	80	11.25	10.30	0.08	0 mm	Ant 2A	V2	DLXD100DQ8MW	29.3	right	96.0	0.184	1.245	1.042	0.239	0.042	0.054	
5775	155	802.11ac	OFDM	80	11.25	10.30	0.00	0 mm	Ant 2A	V2	DLXD100DQ8MW	29.3	left	96.0	0.000	1.245	1.042	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	4.25	4.09	-0.18	0 mm	Ant 2A	V2	DLXD100DQ8MW	29.3	back	96.0	0.192	1.038	1.042	0.208	0.052	0.056	
5775	155	802.11ac	OFDM	80	4.25	4.09	0.06	0 mm	Ant 2A	V2	DLXD100DQ8MW	29.3	bottom	96.0	0.021	1.038	1.042	0.023	0.006	0.006	
5775	155	802.11ac	OFDM	80	4.25	4.09	0.05	0 mm	Ant 2A	V2	DLXD100DQ8MW	29.3	right	96.0	0.062	1.038	1.042	0.067	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						

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Table 10-62
5 GHz WLAN Ant 2B Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																				
5290	58	802.11ac	OFDM	80	11.50	10.52	0.16	0 mm	Ant 2B	V1	DLXD100LQ8MQ	29.3	back	95.3	0.835	1.253	1.049	1.098	0.252	0.331	
5290	58	802.11ac	OFDM	80	11.50	10.54	0.18	0 mm	Ant 2B	V2	DLXD1004Q8MV	29.3	back	96.0	0.873	1.247	1.042	1.134	0.269	0.350	
5290	58	802.11ac	OFDM	80	11.50	10.54	0.02	0 mm	Ant 2B	V2	DLXD1004Q8MV	29.3	top	96.0	0.000	1.247	1.042	0.000	0.000	0.000	
5290	58	802.11ac	OFDM	80	11.50	10.54	-0.17	0 mm	Ant 2B	V2	DLXD1004Q8MV	29.3	bottom	96.0	0.683	1.247	1.042	0.887	0.159	0.207	
5290	58	802.11ac	OFDM	80	11.50	10.54	0.00	0 mm	Ant 2B	V2	DLXD1004Q8MV	29.3	right	96.0	0.021	1.247	1.042	0.027	0.004	0.005	
5290	58	802.11ac	OFDM	80	11.50	10.54	0.08	0 mm	Ant 2B	V2	DLXD1004Q8MV	29.3	left	96.0	0.016	1.247	1.042	0.021	0.004	0.005	
5290	58	802.11ac	OFDM	80	4.50	4.43	0.03	0 mm	Ant 2B	V2	DLXD1004Q8MV	29.3	back	96.0	0.176	1.016	1.042	0.186	0.049	0.052	
5290	58	802.11ac	OFDM	80	4.50	4.43	-0.16	0 mm	Ant 2B	V2	DLXD1004Q8MV	29.3	bottom	96.0	0.124	1.016	1.042	0.131	0.026	0.028	
5530	106	802.11ac	OFDM	80	10.25	10.24	0.01	0 mm	Ant 2B	V1	DLXD101BQ8MQ	29.3	back	95.3	1.080	1.002	1.049	**1.135**	0.327	**0.344**	
5610	122	802.11ac	OFDM	80	10.25	10.25	-0.04	0 mm	Ant 2B	V1	DLXD101BQ8MQ	29.3	back	95.3	1.090	1.000	1.049	**1.143**	0.326	**0.342**	A21
5610	122	802.11ac	OFDM	80	10.25	10.25	0.06	0 mm	Ant 2B	V2	DLXD1005Q8MV	29.3	back	96.0	1.060	1.000	1.042	1.105	0.306	0.319	
5690	138	802.11ac	OFDM	80	10.25	10.20	0.01	0 mm	Ant 2B	V1	DLXD101BQ8MQ	29.3	back	95.3	1.020	1.012	1.049	1.083	0.280	0.297	
5610	122	802.11ac	OFDM	80	10.25	10.25	0.09	0 mm	Ant 2B	V1	DLXD101BQ8MQ	29.3	top	95.3	0.013	1.000	1.049	0.014	0.004	0.004	
5610	122	802.11ac	OFDM	80	10.25	10.25	-0.01	0 mm	Ant 2B	V1	DLXD101BQ8MQ	29.3	bottom	95.3	0.690	1.000	1.049	0.724	0.163	0.171	
5610	122	802.11ac	OFDM	80	10.25	10.25	-0.02	0 mm	Ant 2B	V1	DLXD101BQ8MQ	29.3	right	95.3	0.064	1.000	1.049	0.067	0.013	0.014	
5610	122	802.11ac	OFDM	80	10.25	10.25	-0.03	0 mm	Ant 2B	V1	DLXD101BQ8MQ	29.3	left	95.3	0.014	1.000	1.049	0.015	0.002	0.002	
5610	122	802.11ac	OFDM	80	3.25	3.21	-0.15	0 mm	Ant 2B	V1	DLXD101BQ8MQ	29.3	back	95.3	0.147	1.009	1.049	0.156	0.032	0.034	
5610	122	802.11ac	OFDM	80	3.25	3.21	0.03	0 mm	Ant 2B	V1	DLXD101BQ8MQ	29.3	bottom	95.3	0.121	1.009	1.049	0.128	0.026	0.028	
5775	155	802.11ac	OFDM	80	9.75	9.39	0.15	0 mm	Ant 2B	V1	DLXD100LQ8MQ	29.3	back	95.3	0.930	1.086	1.049	1.059	0.260	0.296	
5775	155	802.11ac	OFDM	80	9.75	9.05	0.18	0 mm	Ant 2B	V2	DLXD1004Q8MV	29.3	back	96.0	0.743	1.175	1.042	0.910	0.211	0.258	
5775	155	802.11ac	OFDM	80	9.75	9.39	0.12	0 mm	Ant 2B	V1	DLXD100LQ8MQ	29.3	top	95.3	0.000	1.086	1.049	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	9.75	9.39	-0.07	0 mm	Ant 2B	V1	DLXD100LQ8MQ	29.3	bottom	95.3	0.578	1.086	1.049	0.658	0.134	0.153	
5775	155	802.11ac	OFDM	80	9.75	9.39	-0.09	0 mm	Ant 2B	V1	DLXD100LQ8MQ	29.3	right	95.3	0.031	1.086	1.049	0.035	0.006	0.007	
5775	155	802.11ac	OFDM	80	9.75	9.39	0.04	0 mm	Ant 2B	V1	DLXD100LQ8MQ	29.3	left	95.3	0.005	1.086	1.049	0.006	0.001	0.001	
5775	155	802.11ac	OFDM	80	2.75	2.45	0.04	0 mm	Ant 2B	V1	DLXD100LQ8MQ	29.3	back	95.3	0.083	1.072	1.049	0.093	0.025	0.028	
5775	155	802.11ac	OFDM	80	2.75	2.45	0.02	0 mm	Ant 2B	V1	DLXD100LQ8MQ	29.3	bottom	95.3	0.089	1.072	1.049	0.100	0.018	0.020	
5290	58	802.11ac	OFDM	80	11.50	10.54	0.03	0 mm	Ant 2B	V2	DLXD1004Q8MV	29.3	back	96.0	0.861	1.247	1.042	1.119	0.255	0.331	
5610	122	802.11ac	OFDM	80	10.25	10.25	-0.04	0 mm	Ant 2B	V1	DLXD101BQ8MQ	29.3	back	95.3	1.010	1.000	1.049	1.059	0.297	0.312	
5775	155	802.11ac	OFDM	80	9.75	9.39	0.06	0 mm	Ant 2B	V1	DLXD100LQ8MQ	29.3	back	95.3	0.925	1.086	1.049	1.054	0.246	0.280	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram			

Note: Blue entry represents variability measurement.

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Table 10-63
5 GHz WLAN Ant 1B Body SAR

MEASUREMENT RESULTS																								
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																				
5210	42	802.11ac	OFDM	80	11.50	10.30	-0.04	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	back	95.5	0.670	1.318	1.047	0.925	0.206	0.284	
5210	42	802.11ac	OFDM	80	11.50	10.25	-0.04	0 mm	Ant 1B	V2	DLXD100DQ8MW	29.3	back	95.5	0.766	1.334	1.047	1.070	0.242	0.338	
5210	42	802.11ac	OFDM	80	11.50	10.25	-0.02	0 mm	Ant 1B	V2	DLXD100DQ8MW	29.3	top	95.5	0.001	1.334	1.047	0.001	0.000	0.000	
5210	42	802.11ac	OFDM	80	11.50	10.25	0.02	0 mm	Ant 1B	V2	DLXD100DQ8MW	29.3	bottom	95.5	0.670	1.334	1.047	0.936	0.156	0.218	
5210	42	802.11ac	OFDM	80	11.50	10.25	-0.03	0 mm	Ant 1B	V2	DLXD100DQ8MW	29.3	right	95.5	0.001	1.334	1.047	0.001	0.000	0.000	
5210	42	802.11ac	OFDM	80	11.50	10.25	-0.07	0 mm	Ant 1B	V2	DLXD100DQ8MW	29.3	left	95.5	0.051	1.334	1.047	0.071	0.011	0.015	
5210	42	802.11ac	OFDM	80	4.50	4.42	-0.03	0 mm	Ant 1B	V2	DLXD100DQ8MW	29.3	back	95.5	0.180	1.019	1.047	0.192	0.050	0.053	
5210	42	802.11ac	OFDM	80	4.50	4.42	0.07	0 mm	Ant 1B	V2	DLXD100DQ8MW	29.3	bottom	95.5	0.165	1.019	1.047	0.176	0.034	0.036	
5530	106	802.11ac	OFDM	80	10.25	9.27	-0.17	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	back	95.5	0.701	1.253	1.047	0.920	0.208	0.273	
5610	122	802.11ac	OFDM	80	10.25	9.36	-0.08	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	back	95.5	0.886	1.227	1.047	1.138	0.259	0.333	
5610	122	802.11ac	OFDM	80	10.25	9.31	0.03	0 mm	Ant 1B	V2	DLXD100DQ8MW	29.3	back	95.5	0.769	1.242	1.047	1.000	0.223	0.290	
5690	138	802.11ac	OFDM	80	10.25	9.25	0.01	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	back	95.5	0.759	1.259	1.047	1.000	0.216	0.285	
5610	122	802.11ac	OFDM	80	10.25	9.36	-0.05	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	top	95.5	0.000	1.227	1.047	0.000	0.000	0.000	
5530	106	802.11ac	OFDM	80	10.25	9.27	-0.04	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	bottom	95.5	0.516	1.253	1.047	0.677	0.114	0.150	
5610	122	802.11ac	OFDM	80	10.25	9.36	0.05	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	bottom	95.5	0.641	1.227	1.047	0.823	0.150	0.193	
5610	122	802.11ac	OFDM	80	10.25	9.36	0.03	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	right	95.5	0.004	1.227	1.047	0.005	0.000	0.000	
5610	122	802.11ac	OFDM	80	10.25	9.36	-0.02	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	left	95.5	0.103	1.227	1.047	0.132	0.020	0.026	
5530	106	802.11ac	OFDM	80	3.25	3.23	-0.04	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	back	95.5	0.172	1.005	1.047	0.181	0.051	0.054	
5530	106	802.11ac	OFDM	80	3.25	3.23	-0.17	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	bottom	95.5	0.136	1.005	1.047	0.143	0.031	0.033	
5530	106	802.11ac	OFDM	80	3.25	3.23	-0.05	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	left	95.5	0.001	1.005	1.047	0.001	0.000	0.000	
5775	155	802.11ac	OFDM	80	10.25	9.27	0.04	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	back	95.5	0.745	1.253	1.047	0.977	0.206	0.270	
5775	155	802.11ac	OFDM	80	10.25	9.18	0.13	0 mm	Ant 1B	V2	DLXD1010Q8MW	29.3	back	95.5	0.675	1.279	1.047	0.904	0.212	0.284	
5775	155	802.11ac	OFDM	80	10.25	9.27	0.00	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	top	95.5	0.000	1.253	1.047	0.000	0.000	0.000	
5775	155	802.11ac	OFDM	80	10.25	9.27	-0.11	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	bottom	95.5	0.489	1.253	1.047	0.642	0.110	0.144	
5775	155	802.11ac	OFDM	80	10.25	9.27	0.08	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	right	95.5	0.001	1.253	1.047	0.001	0.000	0.000	
5775	155	802.11ac	OFDM	80	10.25	9.27	0.05	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	left	95.5	0.041	1.253	1.047	0.054	0.008	0.010	
5775	155	802.11ac	OFDM	80	3.25	3.09	-0.09	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	back	95.5	0.173	1.038	1.047	0.188	0.046	0.050	
5775	155	802.11ac	OFDM	80	3.25	3.09	-0.12	0 mm	Ant 1B	V1	DLXD101BQ8MQ	29.3	bottom	95.5	0.100	1.038	1.047	0.109	0.021	0.023	
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 10-64
5 GHz WLAN Body SAR – Ant 2B and 2A MIMO

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Cube	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																					
5290	58	802.11ac	OFDM	80	11.50	10.87	1	0.09	0 mm	MIMO	V1	DLXD101BQ8MQ	58.5	back	95.7	0.756	1.156	1.045	0.913	0.226	0.273	
					9.75	8.80	2	0.03							95.6	0.461	1.245	1.046	0.600	0.124	0.161	
5290	58	802.11ac	OFDM	80	11.50	10.70	1	0.10	0 mm	MIMO	V2	DLXD1010Q8MW	58.5	back	95.6	0.873	1.202	1.046	1.098	0.265	0.333	
					9.75	8.80	2	-0.18							95.7	0.430	1.245	1.045	0.559	0.118	0.154	
5530	106	802.11ac	OFDM	80	10.25	9.61	1	-0.05	0 mm	MIMO	V1	DLXD100LQ8MQ	58.5	back	95.7	0.841	1.159	1.045	1.019	0.261	0.316	
					10.75	9.97	2	-0.05							95.6	0.691	1.197	1.046	0.865	0.190	0.238	
5530	106	802.11ac	OFDM	80	10.25	9.60	1	-0.04	0 mm	MIMO	V2	DLXD1005Q8MW	58.5	back	95.6	0.926	1.161	1.046	1.125	0.271	0.329	
					10.75	9.91	2	0.18							95.7	0.702	1.213	1.045	0.890	0.180	0.228	
5610	122	802.11ac	OFDM	80	10.25	9.44	1	-0.08	0 mm	MIMO	V2	DLXD1005Q8MW	58.5	back	95.6	0.778	1.205	1.046	0.981	0.230	0.290	
					10.75	9.81	2	-0.06							95.7	0.604	1.242	1.045	0.784	0.150	0.195	
5690	138	802.11ac	OFDM	80	10.25	9.66	1	0.08	0 mm	MIMO	V2	DLXD1005Q8MW	58.5	back	95.6	0.887	1.146	1.046	1.063	0.260	0.312	
					10.75	9.84	2	0.08							95.7	0.575	1.233	1.045	0.741	0.147	0.189	
5775	155	802.11ac	OFDM	80	9.75	9.28	1	-0.05	0 mm	MIMO	V1	DLXD101BQ8MQ	58.5	back	95.7	0.792	1.114	1.045	0.922	0.218	0.254	
					11.25	10.33	2	-0.05							95.6	0.735	1.236	1.046	0.950	0.182	0.235	
5775	155	802.11ac	OFDM	80	9.75	9.25	1	-0.01	0 mm	MIMO	V2	DLXD100GQ8NF	58.5	back	95.6	0.896	1.122	1.046	1.052	0.260	0.305	
					11.25	10.27	2	0.01							95.7	0.660	1.253	1.045	0.864	0.180	0.236	
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: Due to the spatial separation of Antenna 2B and Antenna 2A, two measurement cubes were evaluated during MIMO SAR testing. Cube 1 and 2 are located over the SAR distributions produced by Antenna 2B and 2A, respectively. Due to the spatial separation of the distributions, the conducted power of each antenna was individually considered for each measurement cube to determine the reported SAR.

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Table 10-65
5 GHz WLAN Body SAR – Ant 2B and 1B MIMO

MEASUREMENT RESULTS																							
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Cube	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																						
5210	42	802.11ac	OFDM	80	10.50	9.54	1	-0.10	0 mm	MIMO	V1	DLXD100EQ8MQ	58.5	bottom	95.6	0.579	1.247	1.046	0.755	0.137	0.179	
					11.50	10.57	2	-0.10							95.7	0.753	1.239	1.045	0.975	0.170	0.220	
5210	42	802.11ac	OFDM	80	10.50	9.48	1	-0.07	0 mm	MIMO	V2	DLXD100DQ8MW	58.5	bottom	95.6	0.499	1.265	1.046	0.660	0.116	0.153	
					11.50	10.52	2	-0.07							95.6	0.672	1.253	1.046	0.881	0.150	0.197	
5530	106	802.11ac	OFDM	80	10.25	9.35	1	-0.10	0 mm	MIMO	V1	DLXD100LQ8MQ	58.5	bottom	95.6	0.612	1.230	1.046	0.787	0.154	0.198	
					10.25	9.36	2	-0.10							95.7	0.584	1.227	1.045	0.749	0.136	0.174	
5530	106	802.11ac	OFDM	80	10.25	9.40	1	-0.07	0 mm	MIMO	V2	DLXD1005Q8MW	58.5	bottom	95.6	0.524	1.216	1.046	0.666	0.102	0.130	
					10.25	9.37	2	-0.07							95.6	0.559	1.225	1.046	0.716	0.135	0.173	
5775	155	802.11ac	OFDM	80	9.75	8.86	1	-0.14	0 mm	MIMO	V1	DLXD100LQ8MQ	58.5	bottom	95.6	0.534	1.227	1.046	0.685	0.130	0.167	
					10.25	9.39	2	-0.14							95.7	0.481	1.219	1.045	0.613	0.112	0.143	
5775	155	802.11ac	OFDM	80	9.75	9.32	1	-0.01	0 mm	MIMO	V2	DLXD1005Q8MW	58.5	bottom	95.6	0.562	1.104	1.046	0.649	0.132	0.152	
					10.25	9.32	2	0.01							95.6	0.553	1.239	1.046	0.717	0.128	0.166	
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: Due to the spatial separation of Antenna 2B and Antenna 1B, two measurement cubes were evaluated during MIMO SAR testing. Cube 1 and 2 are located over the SAR distributions produced by Antenna 2B and 1B, respectively. Due to the spatial separation of the distributions, the conducted power of each antenna was individually considered for each measurement cube to determine the reported SAR.

Table 10-66
Bluetooth Ant 3A Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																			
2402	0	Bluetooth	FHSS	13.75	12.62	-0.01	0 mm	Ant 3A	V1	DLXD100LQ8MQ	1	back	77.1	0.534	1.297	1.005	0.696	0.238	0.310	
2402	0	Bluetooth	FHSS	13.75	12.62	0.05	0 mm	Ant 3A	V1	DLXD100LQ8MQ	1	top	77.1	0.369	1.297	1.005	0.481	0.113	0.147	
2402	0	Bluetooth	FHSS	13.75	12.62	0.08	0 mm	Ant 3A	V1	DLXD100LQ8MQ	1	bottom	77.1	0.020	1.297	1.005	0.026	0.006	0.008	
2402	0	Bluetooth	FHSS	13.75	12.62	0.00	0 mm	Ant 3A	V1	DLXD100LQ8MQ	1	right	77.1	0.693	1.297	1.005	0.903	0.247	0.322	
2441	39	Bluetooth	FHSS	13.75	12.27	-0.03	0 mm	Ant 3A	V1	DLXD100LQ8MQ	1	right	77.1	0.672	1.406	1.005	0.950	0.236	0.333	
2480	78	Bluetooth	FHSS	13.75	12.30	-0.05	0 mm	Ant 3A	V1	DLXD100LQ8MQ	1	right	77.1	0.716	1.396	1.005	1.005	0.248	0.348	
2480	78	Bluetooth	FHSS	13.75	12.36	-0.03	0 mm	Ant 3A	V2	DLXD100DQ8MW	1	right	76.8	0.636	1.377	1.009	0.884	0.219	0.304	
2402	0	Bluetooth	FHSS	13.75	12.62	0.00	0 mm	Ant 3A	V1	DLXD100LQ8MQ	1	left	77.1	0.000	1.297	1.005	0.000	0.000	0.000	
2441	39	Bluetooth	FHSS	6.75	6.69	0.04	0 mm	Ant 3A	V1	DLXD100LQ8MQ	1	back	77.1	0.144	1.014	1.005	0.147	0.065	0.066	
2441	39	Bluetooth	FHSS	6.75	6.69	0.04	0 mm	Ant 3A	V1	DLXD100LQ8MQ	1	top	77.1	0.115	1.014	1.005	0.117	0.036	0.037	
2441	39	Bluetooth	FHSS	6.75	6.69	-0.05	0 mm	Ant 3A	V1	DLXD100LQ8MQ	1	right	77.1	0.203	1.014	1.005	0.207	0.072	0.073	
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 10-67
Bluetooth Ant 1A Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																			
2402	0	Bluetooth	FHSS	13.75	12.70	0.01	0 mm	Ant 1A	V1	DLXD101BQ8MQ	1	back	76.9	0.804	1.274	1.008	1.032	0.334	0.429	
2441	39	Bluetooth	FHSS	13.75	13.10	-0.03	0 mm	Ant 1A	V1	DLXD101BQ8MQ	1	back	76.9	0.993	1.161	1.008	1.162	0.418	0.489	
2480	78	Bluetooth	FHSS	13.75	13.46	-0.03	0 mm	Ant 1A	V1	DLXD101BQ8MQ	1	back	76.9	1.100	1.069	1.008	**1.185**	0.457	**0.492**	A22
2480	78	Bluetooth	FHSS	13.75	12.22	-0.02	0 mm	Ant 1A	V2	DLXD100DQ8MW	1	back	76.5	0.697	1.422	1.013	1.004	0.293	0.422	
2480	78	Bluetooth	FHSS	13.75	13.46	-0.15	0 mm	Ant 1A	V1	DLXD101BQ8MQ	1	top	76.9	0.001	1.069	1.008	0.001	0.000	0.000	
2480	78	Bluetooth	FHSS	13.75	13.46	0.06	0 mm	Ant 1A	V1	DLXD101BQ8MQ	1	bottom	76.9	0.181	1.069	1.008	0.195	0.053	0.057	
2480	78	Bluetooth	FHSS	13.75	13.46	0.00	0 mm	Ant 1A	V1	DLXD101BQ8MQ	1	right	76.9	0.000	1.069	1.008	0.000	0.000	0.000	
2480	78	Bluetooth	FHSS	13.75	13.46	0.05	0 mm	Ant 1A	V1	DLXD101BQ8MQ	1	left	76.9	0.491	1.069	1.008	0.529	0.166	0.179	
2402	0	Bluetooth	FHSS	6.75	6.56	-0.02	0 mm	Ant 1A	V1	DLXD101BQ8MQ	1	back	76.9	0.181	1.045	1.008	0.191	0.082	0.086	
2402	0	Bluetooth	FHSS	6.75	6.56	-0.02	0 mm	Ant 1A	V1	DLXD101BQ8MQ	1	bottom	76.9	0.089	1.045	1.008	0.094	0.028	0.029	
2402	0	Bluetooth	FHSS	6.75	6.56	0.12	0 mm	Ant 1A	V1	DLXD101BQ8MQ	1	left	76.9	0.154	1.045	1.008	0.162	0.054	0.057	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per the manufacturer.

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10.2 SAR Test Notes

General Notes:

1. 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.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
6. Per FCC KDB 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.
7. 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.
8. This device utilizes power reduction for some wireless modes and technologies, as outlined in Section 1.3. The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous transmission scenarios.

GSM Test Notes:

1. 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.
2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel was used.

UMTS Notes:

1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel was used.

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 7.5.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

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4. Per FCC KDB Publication 447498 D01v06, when the reported LTE Band 41 and LTE Band 48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions. Please see Section 13 for linearity results.
8. For LTE Band 5, LTE Band 7, 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.
11. 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 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.

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.

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4. When the maximum reported 1g averaged SAR is ≤0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
6. The time-averaged mechanism for WLAN operations was disabled for the above SAR measurements. The SAR was scaled to the maximum time-averaged output power.

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 8.8 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 a physical test configuration is ≤1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

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.

To determine simultaneous transmission analysis for cellular band Antenna 4 Inter-band ULCA, the highest SAR value across all modes was used for summation.

*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 was 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 4 Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	2.4 GHz WLAN Ant 3A SAR (W/kg)	2.4 GHz WLAN Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.189	0.451	1.143	1.189*	1.189*	1.189*
	Top	1.035	0.402	0.011	1.437	1.046	**1.448**
	Bottom	0.041	0.000	0.436	0.041	0.477	0.477
	Right	0.060	1.048	0.000	1.108	0.060	1.108
	Left	1.186	0.000	1.045	1.186	1.186*	1.186*

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

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	0.096	1.143	**1.284**	1.188*	1.284*
	Top	1.189	0.075	0.011	1.264	1.200	1.275
	Bottom	0.012	0.000	0.436	0.012	0.448	0.448
	Right	0.149	0.194	0.000	0.343	0.149	0.343
	Left	0.027	0.000	1.045	0.027	1.072	1.072

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

Simult Tx	Configuration	Cellular Band Ant 3A SAR (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.838	0.096	1.143	0.934	1.143*	1.143*
	Top	0.475	0.075	0.011	0.550	0.486	0.561
	Bottom	0.013	0.000	0.436	0.013	0.449	0.449
	Right	1.173	0.194	0.000	**1.367**	1.173	1.367
	Left	0.006	0.000	1.045	0.006	1.051	1.051

Table 11-4
Cellular Band Ant 1A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 1A SAR (W/kg)	2.4 GHz WLAN Ant 3A SAR (W/kg)	2.4 GHz WLAN Ant 1A Reduced at 6.75dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	0.451	0.139	1.188*	**1.327**	1.327*
	Top	0.030	0.402	0.000	0.432	0.030	0.432
	Bottom	0.512	0.000	0.075	0.512	0.587	0.587
	Right	0.003	1.048	0.000	1.051	0.003	1.051
	Left	1.163	0.000	0.163	1.163	1.326	1.326

Table 11-5
Cellular Band Ant 2A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 2A SAR (W/kg)	2.4 GHz WLAN Ant 3A SAR (W/kg)	2.4 GHz WLAN Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.180	0.451	1.143	1.180*	1.180*	1.180*
	Top	0.044	0.402	0.011	0.446	0.055	0.457
	Bottom	0.710	0.000	0.436	0.710	**1.146**	**1.146**
	Right	0.829	1.048	0.000	1.048*	0.829	1.048*
	Left	0.013	0.000	1.045	0.013	1.058	1.058

Table 11-6
Cellular Band Ant 4 Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+2+4
Body SAR	Back	1.189	1.143	1.108	1.138	1.189*	1.189*	1.189*	See Table Below	1.189*
	Top	1.035	0.014	0.035	0.001	1.049	1.070	1.036	1.084	1.050
	Bottom	0.041	0.887	0.160	0.936	0.928	0.201	0.977	1.088	See Table Below
	Right	0.060	0.067	0.334	0.005	0.127	0.394	0.065	0.461	0.132
	Left	1.186	0.021	0.000	0.132	1.207	1.186	1.318	1.207	**1.339**

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body SAR	Back	1.189	1.125	1.189*

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	5 GHz WLAN Ant 1B & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body SAR	Bottom	0.041	0.975	1.016

Table 11-7
Cellular Band Ant 3B Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+2+4
Body SAR	Back	1.188	1.143	1.108	1.138	1.188*	1.188*	1.188*	See Table Below	1.188*
	Top	1.189	0.014	0.035	0.001	1.203	1.224	1.190	**1.238**	1.204
	Bottom	0.012	0.887	0.160	0.936	0.899	0.172	0.948	1.059	See Table Below
	Right	0.149	0.067	0.334	0.005	0.216	0.483	0.154	0.550	0.221
	Left	0.027	0.021	0.000	0.132	0.048	0.027	0.159	0.048	0.180

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body SAR	Back	1.188	1.125	1.188*

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	5 GHz WLAN Ant 1B & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body SAR	Bottom	0.012	0.975	0.987

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Table 11-8
Cellular Band Ant 3A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3A SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+2+4
Body SAR	Back	0.838	1.143	1.108	1.138	1.143*	1.108*	1.138*	See Table Below	1.143*
	Top	0.475	0.014	0.035	0.001	0.489	0.510	0.476	0.524	0.490
	Bottom	0.013	0.887	0.160	0.936	0.900	0.173	0.949	1.060	See Table Below
	Right	1.173	0.067	0.334	0.005	1.240	1.507	1.178	**1.574**	1.245
	Left	0.006	0.021	0.000	0.132	0.027	0.006	0.138	0.027	0.159

Simult Tx	Configuration	Cellular Band Ant 3A SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body SAR	Back	0.838	1.125	1.125*

Simult Tx	Configuration	Cellular Band Ant 1A SAR (W/kg)	5 GHz WLAN Ant 1B & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body SAR	Bottom	0.013	0.975	0.988

Table 11-9
Cellular Band Ant 1A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 1A SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+2+4
Body SAR	Back	1.188	1.143	1.108	0.192	1.188*	1.188*	1.380	See Table Below	1.38*
	Top	0.030	0.014	0.035	0.001	0.044	0.065	0.031	0.079	0.045
	Bottom	0.512	0.887	0.160	0.176	1.399	0.672	0.688	1.559	**1.575**
	Right	0.003	0.067	0.334	0.005	0.070	0.337	0.008	0.404	0.075
	Left	1.163	0.021	0.000	0.071	1.184	1.163	1.234	1.184	1.255

Simult Tx	Configuration	Cellular Band Ant 1A SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body SAR	Back	1.188	1.125	1.188*

Table 11-10
Cellular Band Ant 2A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 2A SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+2+4
Body SAR	Back	1.180	0.186	0.208	1.138	1.366	1.388	1.180*	**1.574**	1.366*
	Top	0.044	0.014	0.035	0.001	0.058	0.079	0.045	0.093	0.059
	Bottom	0.710	0.131	0.023	0.936	0.841	0.733	0.936*	0.864	1.067*
	Right	0.829	0.067	0.067	0.005	0.896	0.896	0.834	0.963	0.901
	Left	0.013	0.021	0.000	0.132	0.034	0.013	0.145	0.034	0.166

Table 11-11
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.189	0.696	1.185	1.189*	1.189*	1.189*
	Top	1.035	0.481	0.001	1.516	1.036	**1.517**
	Bottom	0.041	0.026	0.195	0.067	0.236	0.262
	Right	0.060	1.005	0.000	1.065	0.060	1.065
	Left	1.186	0.000	0.529	1.186	1.186*	1.186*

Table 11-12
Cellular Band Ant 3B Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	0.147	1.185	**1.335**	1.188*	1.335*
	Top	1.189	0.117	0.001	1.306	1.190	1.307
	Bottom	0.012	0.026	0.195	0.038	0.207	0.233
	Right	0.149	0.207	0.000	0.356	0.149	0.356
	Left	0.027	0.000	0.529	0.027	0.556	0.556

Table 11-13
Cellular Band Ant 3A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 3A SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	0.838	0.147	1.185	0.985	1.185*	1.185*
	Top	0.475	0.117	0.001	0.592	0.476	0.593
	Bottom	0.013	0.026	0.195	0.039	0.208	0.234
	Right	1.173	0.207	0.000	**1.380**	1.173	1.380
	Left	0.006	0.000	0.529	0.006	0.535	0.535

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Table 11-14
Cellular Band Ant 1A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 1A SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.188	0.696	0.191	1.188*	**1.379**	1.379*
	Top	0.030	0.481	0.001	0.511	0.031	0.512
	Bottom	0.512	0.026	0.094	0.538	0.606	0.632
	Right	0.003	1.005	0.000	1.008	0.003	1.008
	Left	1.163	0.000	0.162	1.163	1.325	1.325

Table 11-15
Cellular Band Ant 2A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 2A SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Body SAR	Back	1.180	0.696	1.185	1.180*	1.185*	1.185*
	Top	0.044	0.481	0.001	0.525	0.045	0.526
	Bottom	0.710	0.026	0.195	0.736	0.905	**0.931**
	Right	0.829	1.005	0.000	1.005*	0.829	1.005*
	Left	0.013	0.000	0.529	0.013	0.542	0.542

Table 11-16
Cellular Band Ant 4 Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6
Body SAR	Back	1.189	0.696	0.191	1.143	1.108	1.138	See table below	1.329*
	Top	1.035	0.481	0.001	0.014	0.035	0.001	**1.566**	1.532
	Bottom	0.041	0.026	0.094	0.887	0.160	0.936	1.208	See table below
	Right	0.060	1.005	0.000	0.067	0.334	0.005	1.466	1.137
	Left	1.186	0.000	0.162	0.021	0.000	0.132	1.369	1.501

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	1.189	0.696	0.191	1.125	1.189*

Simult Tx	Configuration	Cellular Band Ant 4 SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 1B & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Bottom	0.041	0.026	0.094	0.975	1.136

Table 11-17
Cellular Band Ant 3A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3A SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6
Body SAR	Back	0.838	0.147	0.191	1.143	1.108	1.138	See table below	1.329*
	Top	0.475	0.117	0.001	0.014	0.035	0.001	0.642	0.608
	Bottom	0.013	0.026	0.094	0.887	0.160	0.936	1.180	See table below
	Right	1.173	0.207	0.000	0.067	0.334	0.005	1.447*	**1.452**
	Left	0.006	0.000	0.162	0.021	0.000	0.132	0.189	0.321

Simult Tx	Configuration	Cellular Band Ant 3A SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.838	0.147	0.191	1.125	1.125*

Simult Tx	Configuration	Cellular Band Ant 3A SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 1B & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Bottom	0.013	0.026	0.094	0.975	1.108

Table 11-18
Cellular Band Ant 3B Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6
Body SAR	Back	1.188	0.147	0.191	1.143	1.108	1.138	See table below	1.335*
	Top	1.189	0.117	0.001	0.014	0.035	0.001	**1.356**	1.322
	Bottom	0.012	0.026	0.094	0.887	0.160	0.936	1.179	See table below
	Right	0.149	0.207	0.000	0.067	0.334	0.005	0.757	0.428
	Left	0.027	0.000	0.162	0.021	0.000	0.132	0.210	0.342

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	1.188	0.147	0.191	1.125	1.335*

Simult Tx	Configuration	Cellular Band Ant 3B SAR (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 1B & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Bottom	0.012	0.026	0.094	0.975	1.107

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Table 11-19
Cellular Band Ant 1A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 1A SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B SAR (W/kg)	5 GHz WLAN Ant 2A SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	1+2+3+4+5	1+2+3+4+6
Body SAR	Back	1.188	0.696	0.191	1.143	1.108	0.192	See table below	1.571*
	Top	0.030	0.481	0.001	0.014	0.035	0.001	0.561	0.527
	Bottom	0.512	0.026	0.094	0.887	0.160	0.176	1.073*	1.089*
	Right	0.003	1.005	0.000	0.067	0.334	0.005	1.409	1.080
	Left	1.163	0.000	0.162	0.021	0.000	0.071	1.346	**1.417**

Simult Tx	Configuration	Cellular Band Ant 1A SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2A & 2B MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	1.188	0.696	0.191	1.125	1.379*

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 Ant 2A SAR (W/kg)	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+6
Body SAR	Back	1.180	0.696	0.191	0.186	0.208	1.138	1.366*
	Top	0.044	0.481	0.001	0.014	0.035	0.001	0.541
	Bottom	0.710	0.026	0.094	0.131	0.023	0.936	1.093*
	Right	0.829	1.005	0.000	0.067	0.067	0.005	1.077*
	Left	0.013	0.000	0.162	0.021	0.000	0.132	0.328

Table 11-21
Inter-band ULCA Cellular Band Ant 4 and 3B Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A 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	0.561	0.633	0.096	0.139	1.290	1.333	**1.429**
	Top	0.787	0.542	0.075	0.000	1.404	1.329	1.404
	Bottom	0.037	0.009	0.000	0.075	0.046	0.121	0.121
	Right	0.060	0.149	0.194	0.000	0.403	0.209	0.403
	Left	0.777	0.021	0.000	0.163	0.798	0.961	0.961

Table 11-22
Inter-band ULCA Cellular Band Ant 4 and 2A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 2A Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A 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	0.561	0.663	0.096	0.139	1.320	1.363	**1.459**
	Top	0.787	0.044	0.075	0.000	0.906	0.831	0.906
	Bottom	0.037	0.710	0.000	0.075	0.747	0.822	0.822
	Right	0.060	0.764	0.194	0.000	1.018	0.824	1.018
	Left	0.777	0.013	0.000	0.163	0.790	0.953	0.953

Table 11-23
Inter-band ULCA Cellular Band Ant 4 and 1A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A 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	0.561	0.550	0.096	0.139	1.207	1.250	1.346
	Top	0.787	0.030	0.075	0.000	0.892	0.817	0.892
	Bottom	0.037	0.505	0.000	0.075	0.542	0.617	0.617
	Right	0.060	0.003	0.194	0.000	0.257	0.063	0.257
	Left	0.777	0.567	0.000	0.163	1.344	**1.507**	1.507

Table 11-24
Inter-band ULCA Cellular Band Ant 4 and 3A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A 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	0.561	0.764	0.096	0.139	1.421	1.464	**1.560**
	Top	0.787	0.475	0.075	0.000	1.337	1.262	1.337
	Bottom	0.037	0.013	0.000	0.075	0.050	0.125	0.125
	Right	0.060	0.621	0.194	0.000	0.875	0.681	0.875
	Left	0.777	0.006	0.000	0.163	0.783	0.946	0.946

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Table 11-25
Inter-band ULCA Cellular Band Ant 3B and 1A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A 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	0.633	0.550	0.096	0.139	1.279	1.322	**1.418**
	Top	0.542	0.030	0.075	0.000	0.647	0.572	0.647
	Bottom	0.009	0.505	0.000	0.075	0.514	0.589	0.589
	Right	0.149	0.003	0.194	0.000	0.346	0.152	0.346
	Left	0.021	0.567	0.000	0.163	0.588	0.751	0.751

Table 11-26
Inter-band ULCA Cellular Band Ant 3B and 3A Simultaneous Transmission Scenario with 2.4 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	2.4 GHz WLAN Ant 3A Reduced at 6dBm SAR (W/kg)	2.4 GHz WLAN Ant 1A 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	0.633	0.764	0.096	0.139	1.493	**1.536**	1.493*
	Top	0.542	0.475	0.075	0.000	1.092	1.017	1.092
	Bottom	0.009	0.013	0.000	0.075	0.022	0.097	0.097
	Right	0.149	0.621	0.194	0.000	0.964	0.770	0.964
	Left	0.021	0.006	0.000	0.163	0.027	0.190	0.190

Table 11-27
Inter-band ULCA Cellular Band Ant 4 and 3B Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5
Body SAR	Back	0.561	0.633	0.186	0.208	0.192	1.380	1.402	1.386	**1.588**	1.572
	Top	0.787	0.542	0.014	0.035	0.001	1.343	1.364	1.330	1.378	1.344
	Bottom	0.037	0.009	0.131	0.023	0.176	0.177	0.069	0.222	0.200	0.353
	Right	0.060	0.149	0.067	0.067	0.005	0.276	0.276	0.214	0.343	0.281
	Left	0.777	0.021	0.021	0.000	0.071	0.819	0.798	0.869	0.819	0.890

Table 11-28
Inter-band ULCA Cellular Band Ant 4 and 2A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 2A Inter-band ULCA Active (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5
Body SAR	Back	0.561	0.663	0.186	0.208	0.192	1.410	**1.432**	1.416	1.057*	0.849*
	Top	0.787	0.044	0.014	0.035	0.001	0.845	0.866	0.832	0.880	0.846
	Bottom	0.037	0.710	0.131	0.023	0.176	0.878	0.770	0.923	0.901	1.054
	Right	0.060	0.764	0.067	0.067	0.005	0.891	0.891	0.829	0.958	0.896
	Left	0.777	0.013	0.021	0.000	0.071	0.811	0.790	0.861	0.811	0.882

Table 11-29
Inter-band ULCA Cellular Band Ant 4 and 1A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5
Body SAR	Back	0.561	0.550	0.186	0.208	0.192	1.297	1.319	1.303	1.505	1.489
	Top	0.787	0.030	0.014	0.035	0.001	0.831	0.852	0.818	0.866	0.832
	Bottom	0.037	0.505	0.131	0.023	0.176	0.673	0.565	0.718	0.696	0.849
	Right	0.060	0.003	0.067	0.067	0.005	0.130	0.130	0.068	0.197	0.135
	Left	0.777	0.567	0.021	0.000	0.071	1.365	1.344	**1.415**	1.365	1.436

Table 11-30
Inter-band ULCA Cellular Band Ant 4 and 3A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5
Body SAR	Back	0.561	0.764	0.186	0.208	0.192	1.511	**1.533**	1.517	0.764*	0.764*
	Top	0.787	0.475	0.014	0.035	0.001	1.276	1.297	1.263	1.311	1.277
	Bottom	0.037	0.013	0.131	0.023	0.176	0.181	0.073	0.226	0.204	0.357
	Right	0.060	0.621	0.067	0.067	0.005	0.748	0.748	0.696	0.815	0.753
	Left	0.777	0.006	0.021	0.000	0.071	0.804	0.783	0.854	0.804	0.875

Table 11-31
Inter-band ULCA Cellular Band Ant 3B and 1A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5
Body SAR	Back	0.633	0.550	0.186	0.208	0.192	1.369	1.391	1.375	**1.577**	1.561
	Top	0.542	0.030	0.014	0.035	0.001	0.586	0.607	0.573	0.621	0.587
	Bottom	0.009	0.505	0.131	0.023	0.176	0.645	0.537	0.690	0.668	0.821
	Right	0.149	0.003	0.067	0.067	0.005	0.219	0.219	0.157	0.286	0.224
	Left	0.021	0.567	0.021	0.000	0.071	0.609	0.588	0.659	0.609	0.680

Table 11-32
Inter-band ULCA Cellular Band Ant 3B and 3A Simultaneous Transmission Scenario with 5 GHz WLAN

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)				
		1	2	3	4	5	1+2+3	1+2+4	1+2+5	1+2+3+4	1+2+3+5
Body SAR	Back	0.633	0.764	0.186	0.208	0.192	1.583	1.397*	**1.589**	1.397*	1.397*
	Top	0.542	0.475	0.014	0.035	0.001	1.031	1.052	1.018	1.066	1.032
	Bottom	0.009	0.013	0.131	0.023	0.176	0.153	0.045	0.198	0.176	0.329
	Right	0.149	0.621	0.067	0.067	0.005	0.837	0.837	0.775	0.904	0.842
	Left	0.021	0.006	0.021	0.000	0.071	0.048	0.027	0.098	0.048	0.119

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Table 11-33
Inter-band ULCA Cellular Band Ant 4 and 3B Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 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	0.561	0.633	0.147	0.191	1.341	1.385	1.532
	Top	0.787	0.542	0.117	0.001	**1.446**	1.330	1.447
	Bottom	0.037	0.009	0.026	0.094	0.072	0.140	0.166
	Right	0.060	0.149	0.207	0.000	0.416	0.209	0.416
	Left	0.777	0.021	0.000	0.162	0.798	0.960	0.960

Table 11-34
Inter-band ULCA Cellular Band Ant 4 and 2A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 2A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 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	0.561	0.663	0.147	0.191	1.371	**1.415**	1.562
	Top	0.787	0.044	0.117	0.001	0.948	0.832	0.949
	Bottom	0.037	0.710	0.026	0.094	0.773	0.841	0.867
	Right	0.060	0.764	0.207	0.000	1.031	0.824	1.031
	Left	0.777	0.013	0.000	0.162	0.790	0.952	0.952

Table 11-35
Inter-band ULCA Cellular Band Ant 4 and 1A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 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	0.561	0.550	0.147	0.191	1.258	1.302	1.449
	Top	0.787	0.030	0.117	0.001	0.934	0.818	0.935
	Bottom	0.037	0.505	0.026	0.094	0.568	0.636	0.662
	Right	0.060	0.003	0.207	0.000	0.270	0.063	0.270
	Left	0.777	0.567	0.000	0.162	1.344	**1.506**	1.506

Table 11-36
Inter-band ULCA Cellular Band Ant 4 and 3A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 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	0.561	0.764	0.147	0.191	1.472	**1.516**	0.911*
	Top	0.787	0.475	0.117	0.001	1.379	1.263	1.380
	Bottom	0.037	0.013	0.026	0.094	0.076	0.144	0.170
	Right	0.060	0.621	0.207	0.000	0.888	0.681	0.888
	Left	0.777	0.006	0.000	0.162	0.783	0.945	0.945

Table 11-37
Inter-band ULCA Cellular Band Ant 3B and 1A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 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	0.633	0.550	0.147	0.191	1.330	**1.374**	1.521
	Top	0.542	0.030	0.117	0.001	0.689	0.573	0.690
	Bottom	0.009	0.505	0.026	0.094	0.540	0.608	0.634
	Right	0.149	0.003	0.207	0.000	0.359	0.152	0.359
	Left	0.021	0.567	0.000	0.162	0.588	0.750	0.750

Table 11-38
Inter-band ULCA Cellular Band Ant 3B and 3A Simultaneous Transmission Scenario with 2.4 GHz BT

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 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	0.633	0.764	0.147	0.191	1.544	**1.588**	1.544*
	Top	0.542	0.475	0.117	0.001	1.134	1.018	1.135
	Bottom	0.009	0.013	0.026	0.094	0.048	0.116	0.142
	Right	0.149	0.621	0.207	0.000	0.977	0.770	0.977
	Left	0.021	0.006	0.000	0.162	0.027	0.189	0.189

Table 11-39
Inter-band ULCA Cellular Band Ant 4 and 3B Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	7	1+2+3+4+5+6	1+2+3+4+5+7
Body SAR	Back	0.561	0.633	0.147	0.191	0.186	0.208	0.192	1.194*	1.194*
	Top	0.787	0.542	0.117	0.001	0.014	0.035	0.001	**1.496**	1.462
	Bottom	0.037	0.009	0.026	0.094	0.131	0.023	0.176	0.320	0.473
	Right	0.060	0.149	0.207	0.000	0.067	0.067	0.005	0.550	0.488
	Left	0.777	0.021	0.000	0.162	0.021	0.000	0.071	0.981	1.052

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Table 11-40
Inter-band ULCA Cellular Band Ant 4 and 2A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 2A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	7	1+2+3+4+5+6	1+2+3+4+5+7
Body SAR	Back	0.561	0.663	0.147	0.191	0.186	0.208	0.192	1.057*	0.849*
	Top	0.787	0.044	0.117	0.001	0.014	0.035	0.001	0.998	0.964
	Bottom	0.037	0.710	0.026	0.094	0.131	0.023	0.176	1.021	**1.174**
	Right	0.060	0.764	0.207	0.000	0.067	0.067	0.005	1.165	1.103
	Left	0.777	0.013	0.000	0.162	0.021	0.000	0.071	0.973	1.044

Table 11-41
Inter-band ULCA Cellular Band Ant 4 and 1A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	7	1+2+3+4+5+6	1+2+3+4+5+7
Body SAR	Back	0.561	0.550	0.147	0.191	0.186	0.208	0.192	0.741*	0.933*
	Top	0.787	0.030	0.117	0.001	0.014	0.035	0.001	0.984	0.950
	Bottom	0.037	0.505	0.026	0.094	0.131	0.023	0.176	0.816	0.969
	Right	0.060	0.003	0.207	0.000	0.067	0.067	0.005	0.404	0.342
	Left	0.777	0.567	0.000	0.162	0.021	0.000	0.071	**1.527**	0.869*

Table 11-42
Inter-band ULCA Cellular Band Ant 4 and 3A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 4 Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	7	1+2+3+4+5+6	1+2+3+4+5+7
Body SAR	Back	0.561	0.764	0.147	0.191	0.186	0.208	0.192	0.911*	0.911*
	Top	0.787	0.475	0.117	0.001	0.014	0.035	0.001	**1.429**	1.395
	Bottom	0.037	0.013	0.026	0.094	0.131	0.023	0.176	0.324	0.477
	Right	0.060	0.621	0.207	0.000	0.067	0.067	0.005	1.022	0.960
	Left	0.777	0.006	0.000	0.162	0.021	0.000	0.071	0.966	1.037

Table 11-43
Inter-band ULCA Cellular Band Ant 3B and 1A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 1A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	7	1+2+3+4+5+6	1+2+3+4+5+7
Body SAR	Back	0.633	0.550	0.147	0.191	0.186	0.208	0.192	0.780*	0.933*
	Top	0.542	0.030	0.117	0.001	0.014	0.035	0.001	0.739	0.705
	Bottom	0.009	0.505	0.026	0.094	0.131	0.023	0.176	0.788	**0.941**
	Right	0.149	0.003	0.207	0.000	0.067	0.067	0.005	0.493	0.431
	Left	0.021	0.567	0.000	0.162	0.021	0.000	0.071	0.771	0.842

Table 11-44
Inter-band ULCA Cellular Band Ant 3B and 3A Simultaneous Transmission Scenario with 2.4 GHz BT MIMO and 5 GHz WLAN MIMO

Simult Tx	Configuration	Cellular Band Ant 3B Inter-band ULCA Active (W/kg)	Cellular Band Ant 3A Inter-band ULCA Active (W/kg)	Bluetooth Ant 3A at 6.75 dBm SAR (W/kg)	Bluetooth Ant 1A at 6.75 dBm SAR (W/kg)	5 GHz WLAN Ant 2B Reduced SAR (W/kg)	5 GHz WLAN Ant 2A Reduced SAR (W/kg)	5 GHz WLAN Ant 1B Reduced SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	5	6	7	1+2+3+4+5+6	1+2+3+4+5+7
Body SAR	Back	0.633	0.764	0.147	0.191	0.186	0.208	0.192	1.544*	1.544*
	Top	0.542	0.475	0.117	0.001	0.014	0.035	0.001	**1.184**	1.150
	Bottom	0.009	0.013	0.026	0.094	0.131	0.023	0.176	0.296	0.449
	Right	0.149	0.621	0.207	0.000	0.067	0.067	0.005	1.111	1.049
	Left	0.021	0.006	0.000	0.162	0.021	0.000	0.071	0.210	0.281

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Table 11-45
Simultaneous Transmission Scenario with 2.4 GHz Bluetooth

Simult Tx	Configuration	Bluetooth Ant 3A SAR (W/kg)	Bluetooth Ant 1A SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body SAR	Back	0.696	1.185	1.185*
	Top	0.481	0.001	0.482
	Bottom	0.026	0.195	0.221
	Right	1.005	0.000	**1.005**
	Left	0.000	0.529	0.529

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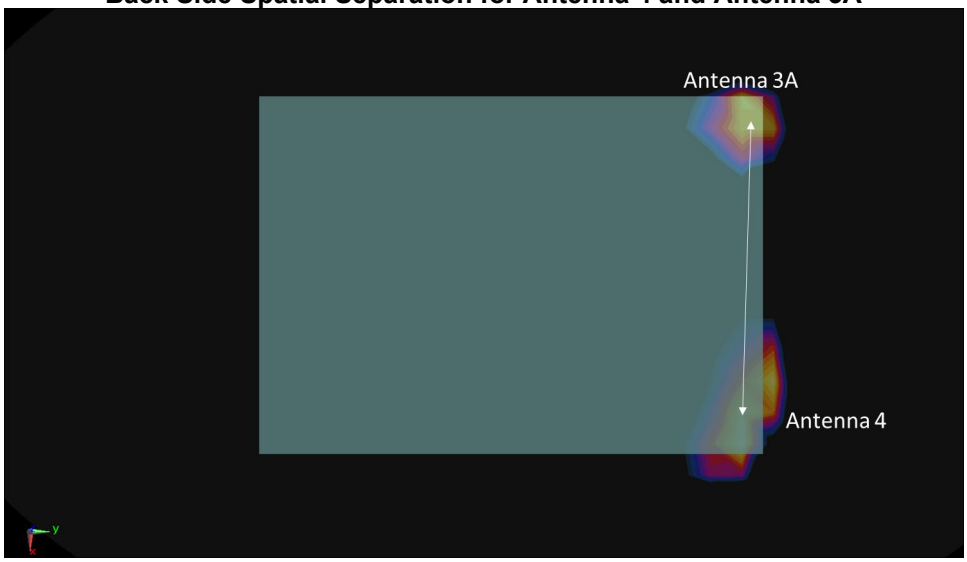
11.4 Spatial Separation Analysis

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 4 and Antenna 3A



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

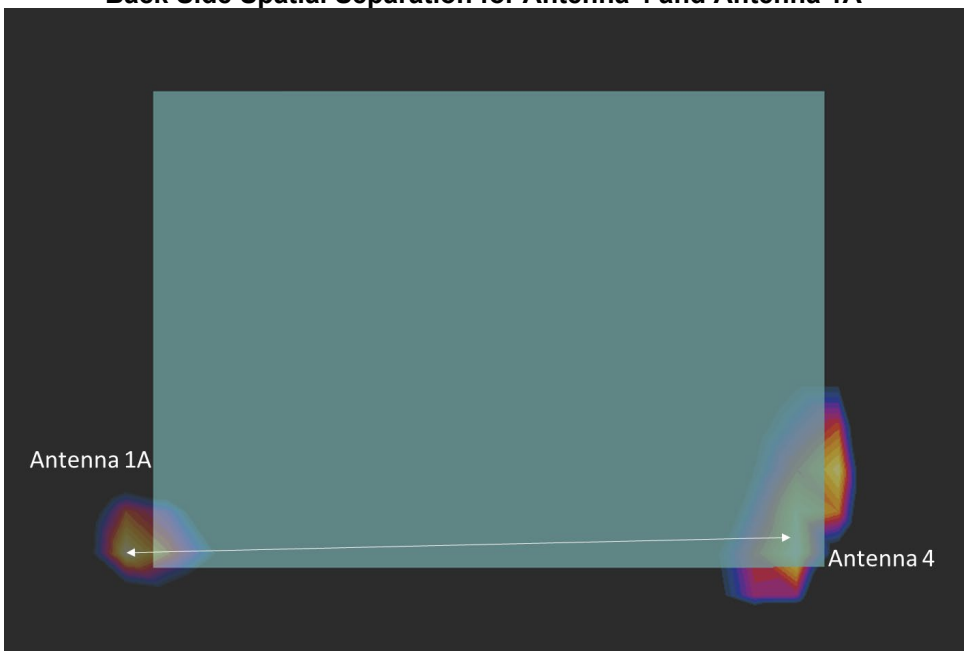
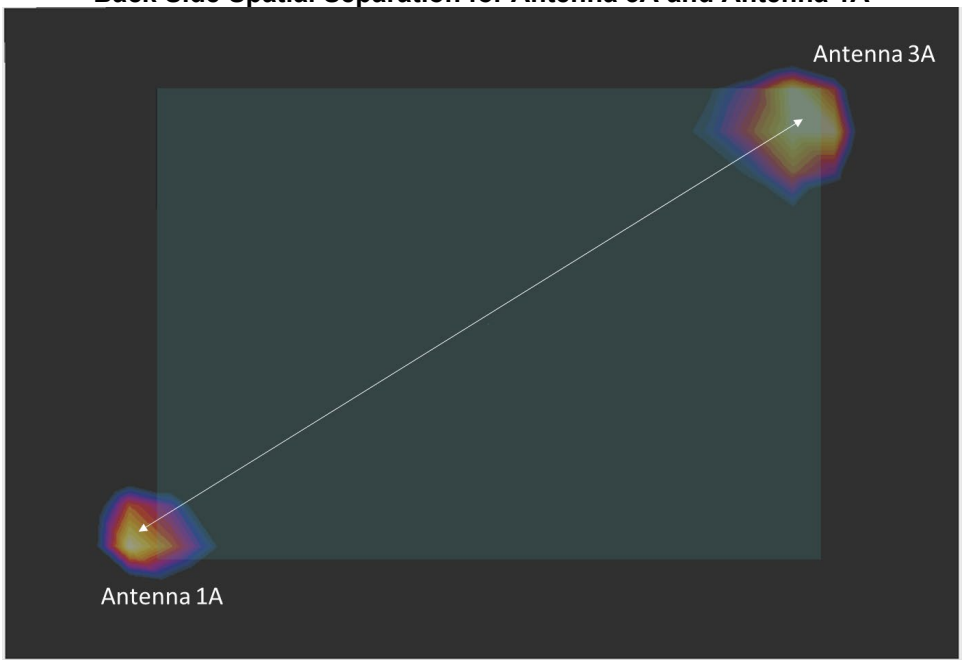


Figure 11-3
Back Side Spatial Separation for Antenna 3A and Antenna 1A



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

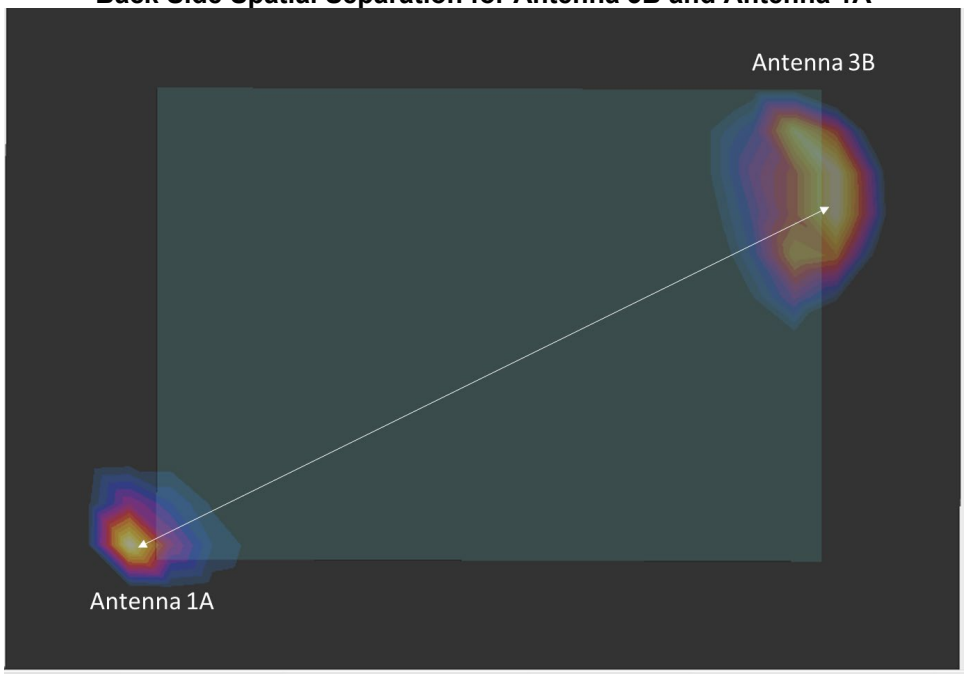
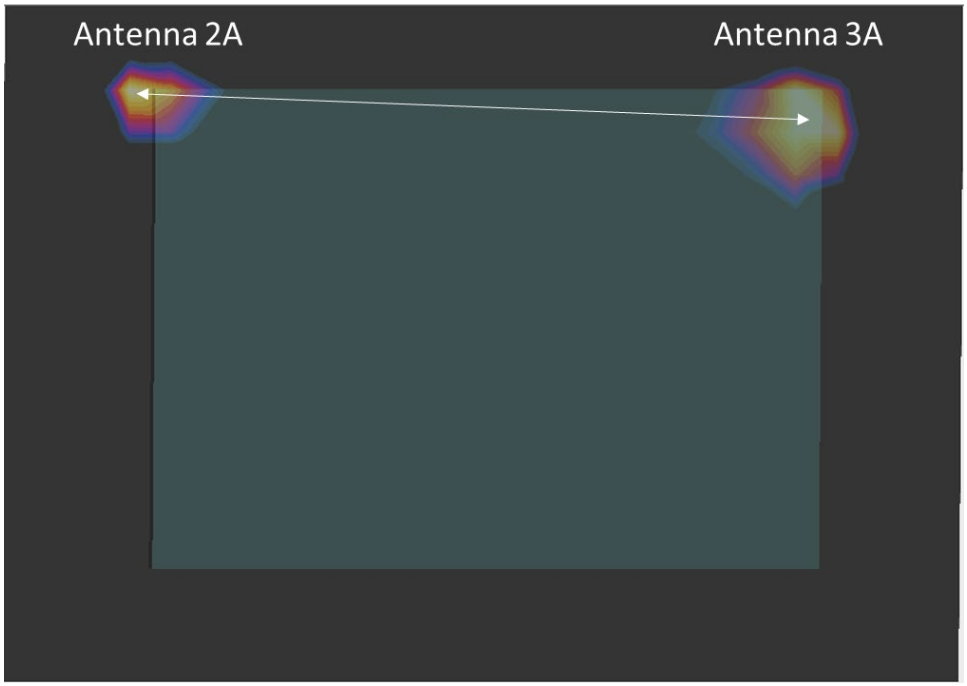


Figure 11-5
Back Side Spatial Separation for Antenna 2A and Antenna 3A



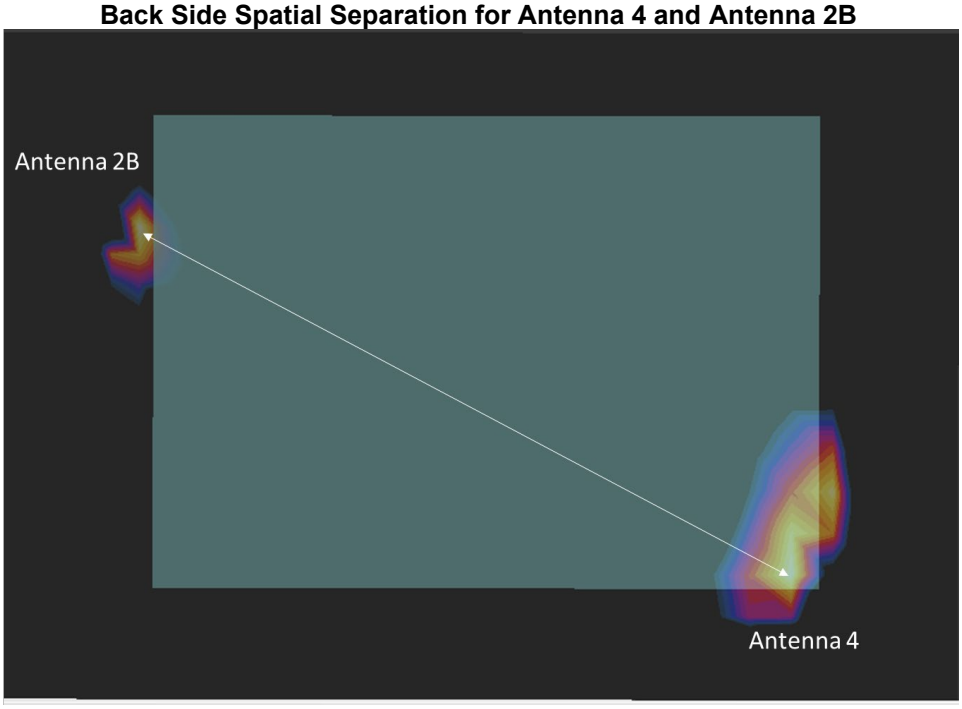
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Figure 11-6
Back Side Spatial Separation for Antenna 2A and Antenna 1A



Figure 11-7
Back Side Spatial Separation for Antenna 4 and Antenna 2B



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

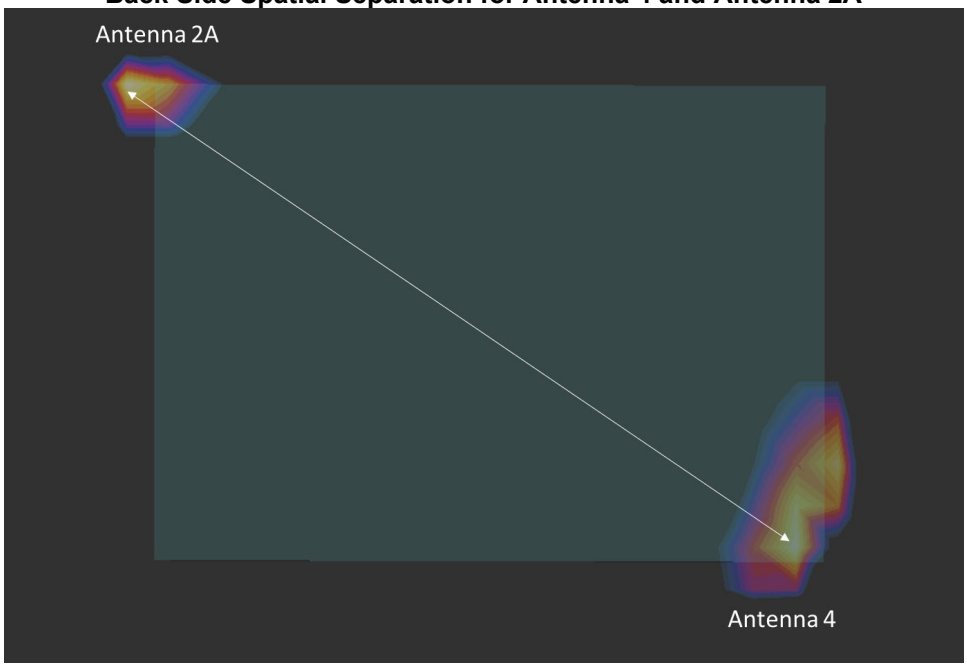
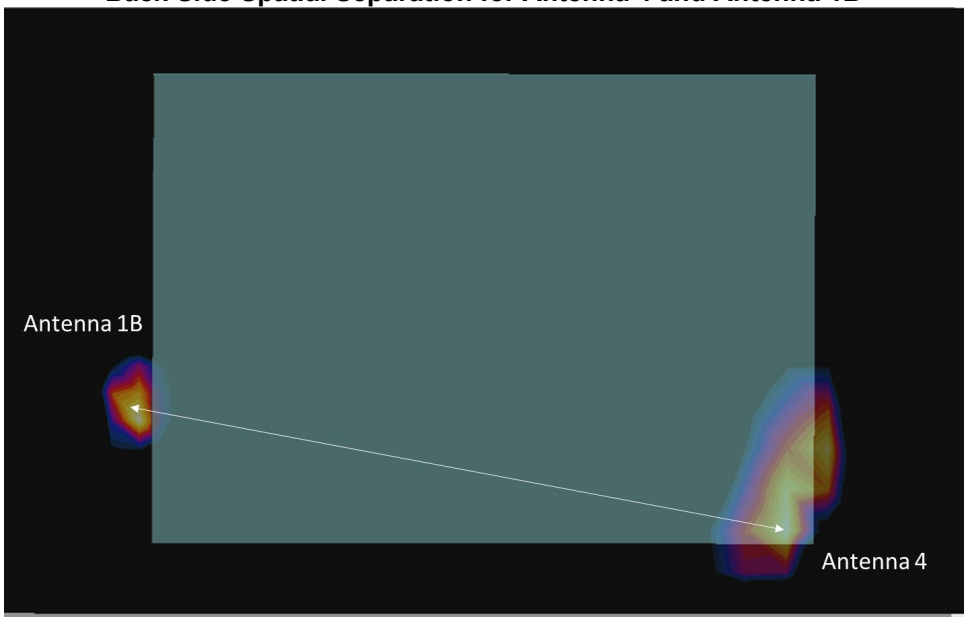


Figure 11-9
Back Side Spatial Separation for Antenna 4 and Antenna 1B



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Figure 11-10
Back Side Spatial Separation for Antenna 3B and Antenna 2A

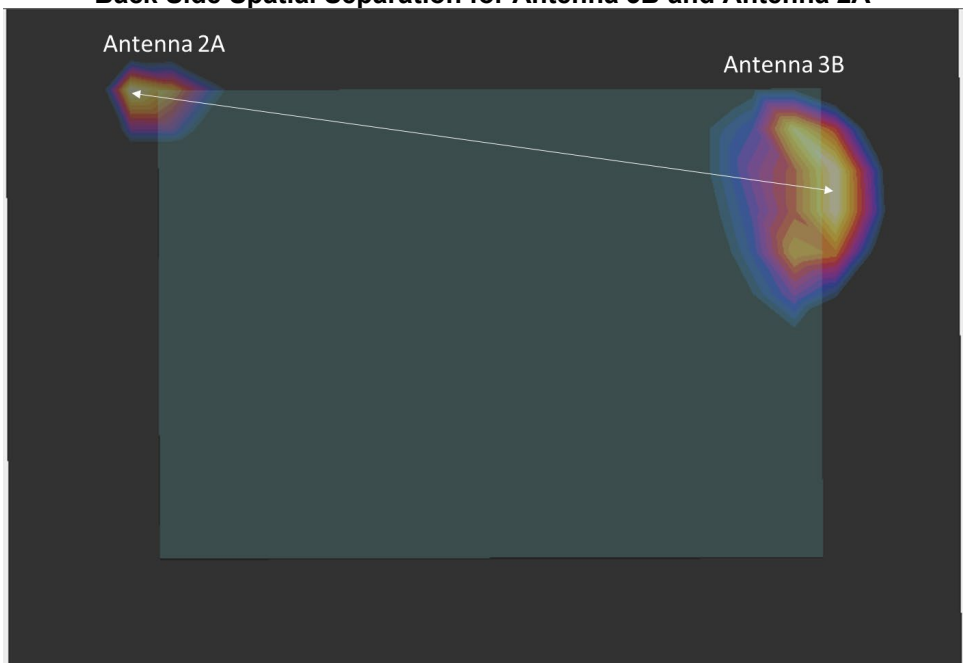
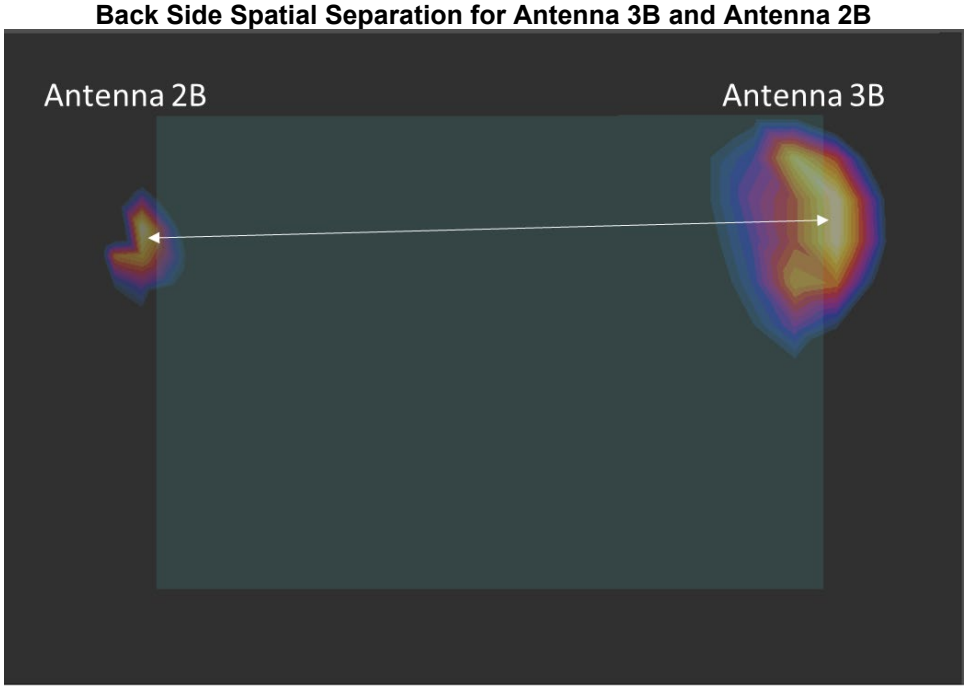


Figure 11-11
Back Side Spatial Separation for Antenna 3B and Antenna 2B



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Figure 11-12
Back Side Spatial Separation for Antenna 3B and Antenna 1B

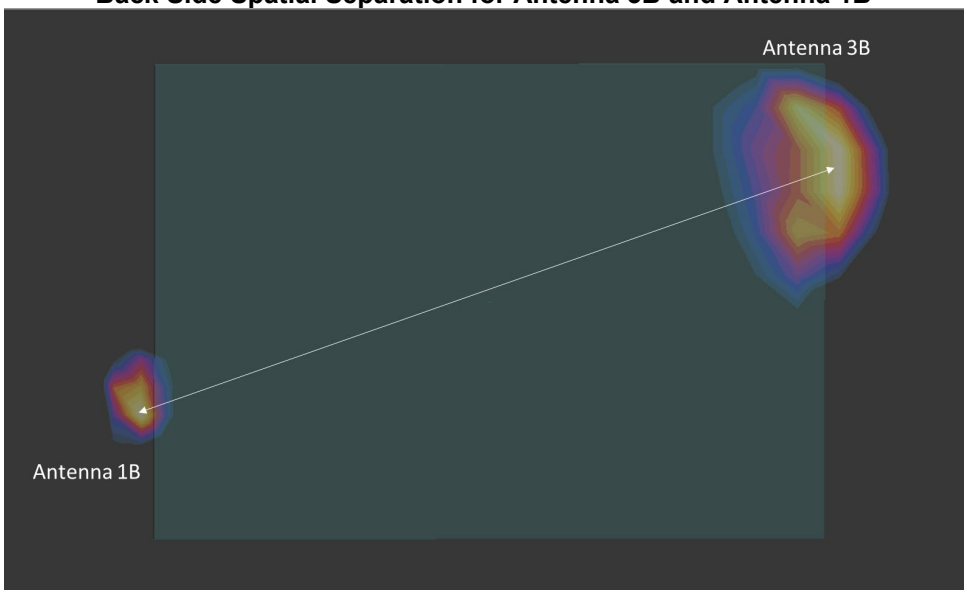
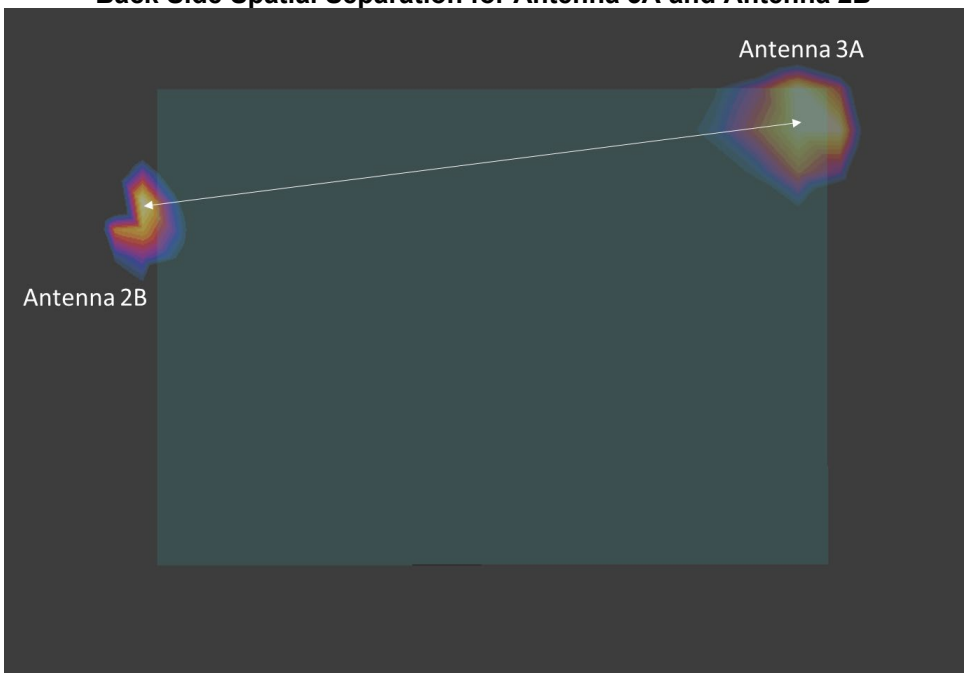


Figure 11-13
Back Side Spatial Separation for Antenna 3A and Antenna 2B



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Figure 11-14
Back Side Spatial Separation for Antenna 3A and Antenna 1B

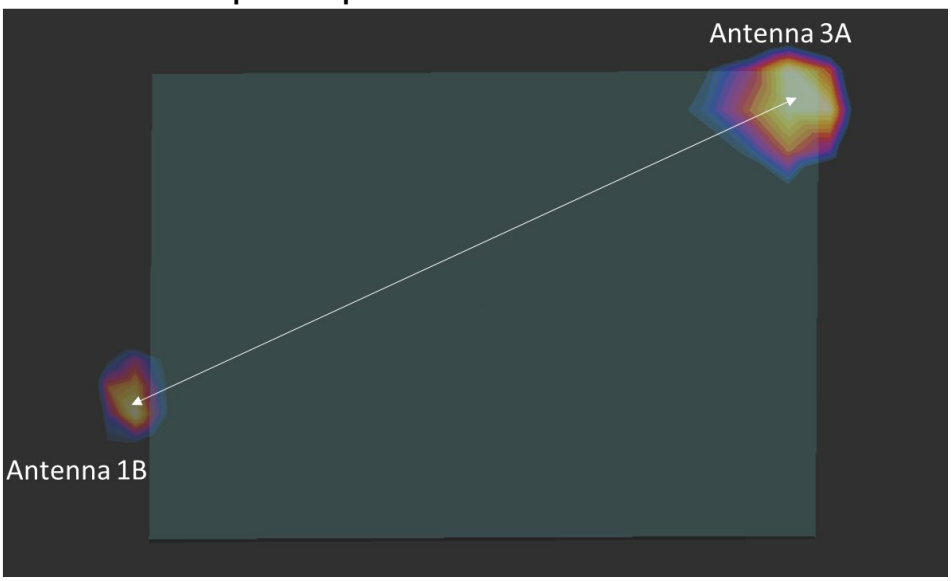
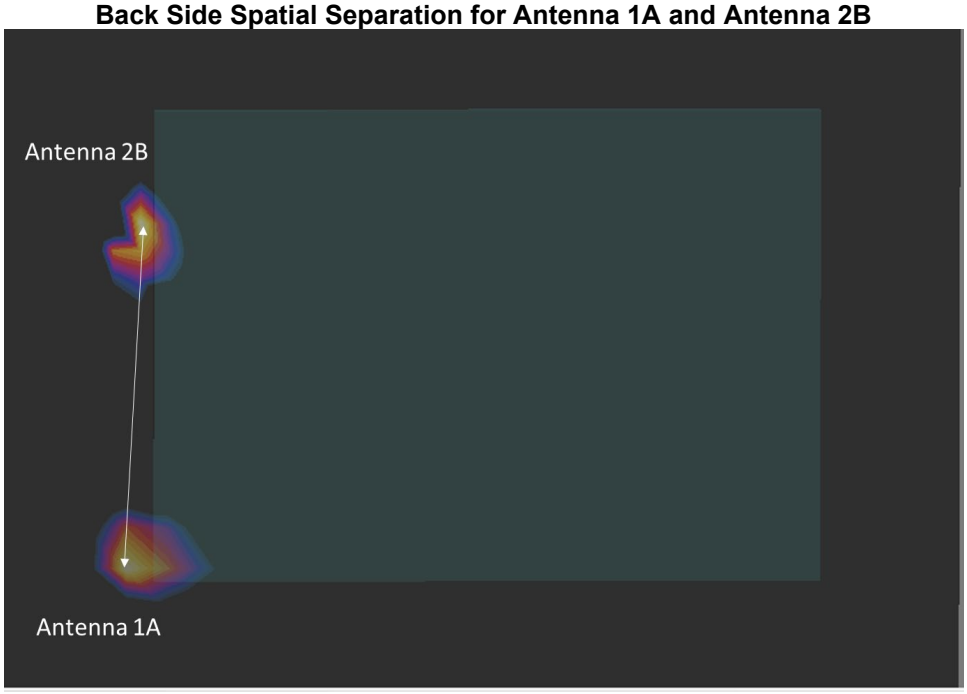


Figure 11-15
Back Side Spatial Separation for Antenna 1A and Antenna 2B



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Figure 11-16
Back Side Spatial Separation for Antenna 2A and Antenna 1B

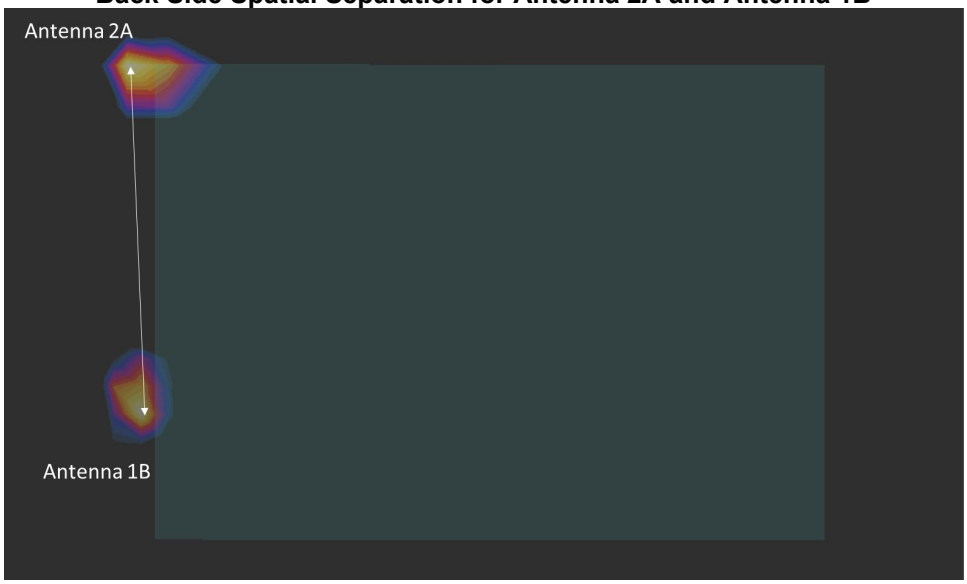
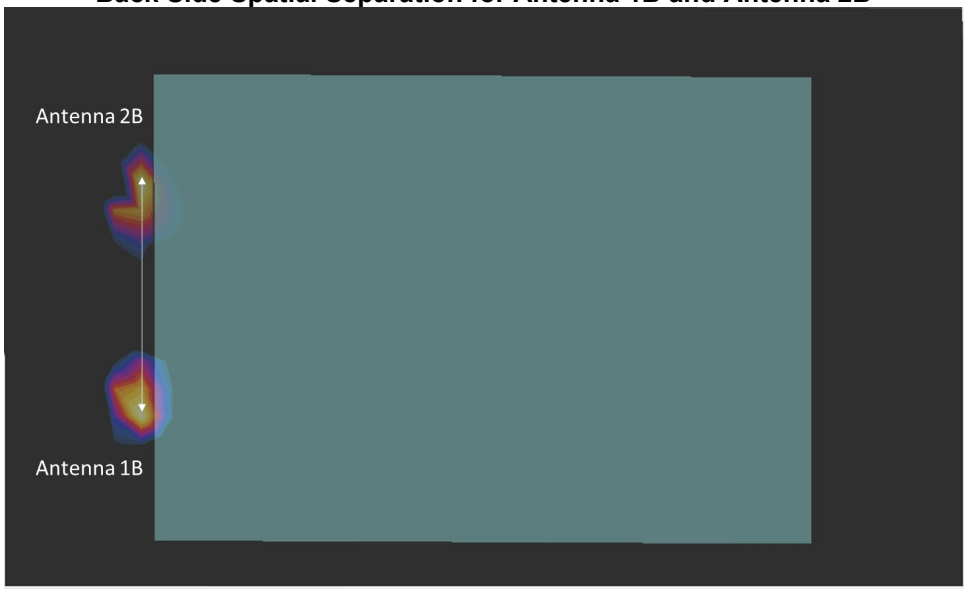


Figure 11-17
Back Side Spatial Separation for Antenna 1B and Antenna 2B



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11.4.2 Bottom Edge Spatial Separation Analysis

Figure 11-18
Bottom Side Spatial Separation for Antenna 2A and Antenna 1B

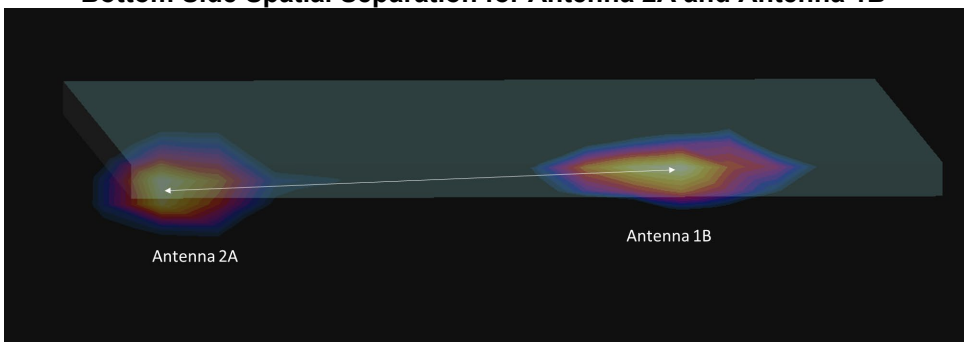
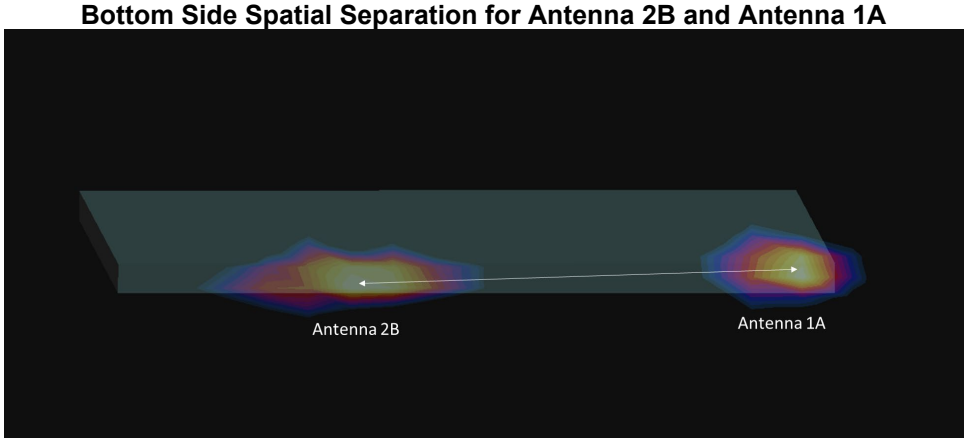
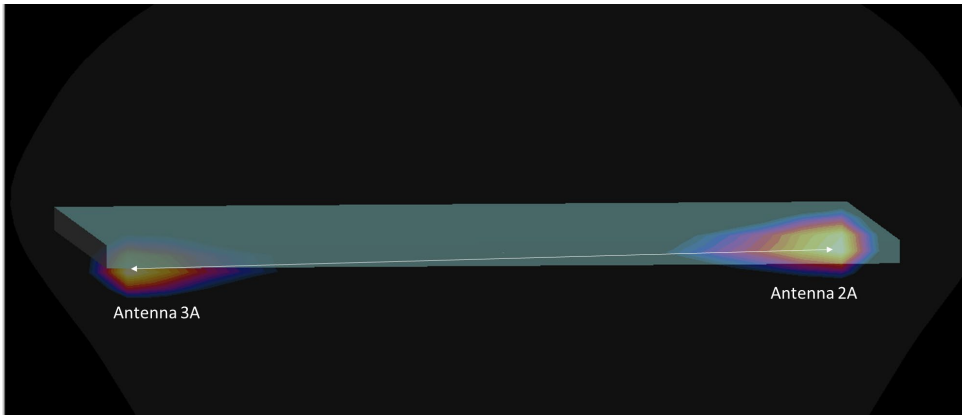


Figure 11-19
Bottom Side Spatial Separation for Antenna 2B and Antenna 1A



11.4.3 Right Edge Spatial Separation Analysis

Figure 11-20
Right Side Spatial Separation for Antenna 2A and Antenna 3A

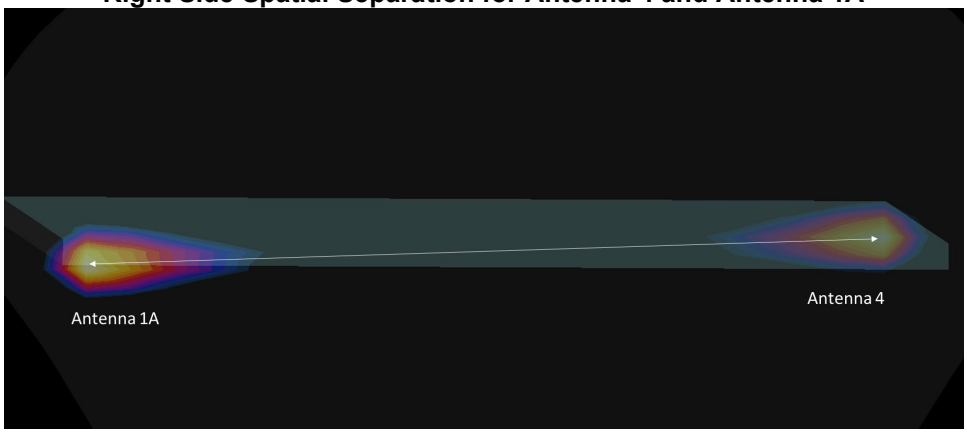


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11.4.4 Left Edge Spatial Separation Analysis

Figure 11-21
Right Side Spatial Separation for Antenna 4 and Antenna 1A



11.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013 Section 6.3.4.1.2.

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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

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

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

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

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Service	Antenna	Data Rate (Mbps)	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)	
750	680.50	133297	LTE Band 71, 20 MHz Bandwidth	QPSK, 50 RB, 50 RB Offset	3B	N/A	top	0 mm	1.170	1.140	1.03	N/A	N/A	N/A	N/A
850	844.00	26990	LTE Band 26 (Cell), 10 MHz Bandwidth	QPSK, 25 RB, 12 RB Offset	4	N/A	left	0 mm	1.170	1.130	1.04	N/A	N/A	N/A	N/A
1750	1752.60	1513	UMTS 1750	RMC	4	N/A	back	0 mm	1.170	1.050	1.11	N/A	N/A	N/A	N/A
1900	1900.00	19100	LTE Band 2 (PCS), 20 MHz Bandwidth	QPSK, 100 RB, 0 RB Offset	4	N/A	back	0 mm	1.180	1.170	1.01	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 1 RB, 49 RB Offset	1A	N/A	back	0 mm	1.150	1.050	1.10	N/A	N/A	N/A	N/A
2450	2506.00	39750	LTE Band 41, 20 MHz Bandwidth	QPSK, 100 RB, 0 RB Offset	2A	N/A	back	0 mm	1.150	1.130	1.02	N/A	N/A	N/A	N/A
2600	2549.50	40185	LTE Band 41, 20 MHz Bandwidth	QPSK, 1 RB, 99 RB Offset	2A	N/A	back	0 mm	1.120	1.080	1.04	N/A	N/A	N/A	N/A
3500	3560.00	55340	LTE Band 48, 20 MHz Bandwidth	QPSK, 100 RB, 0 RB Offset	4	N/A	back	0 mm	1.110	1.020	1.09	N/A	N/A	N/A	N/A
3700	3690.00	56640	LTE Band 48, 20 MHz Bandwidth	QPSK, 1 RB, 99 RB Offset	4	N/A	back	0 mm	1.110	1.060	1.05	N/A	N/A	N/A	N/A
5250	5290.00	58	802.11ac, 80 MHz Bandwidth	OFDM	2B	29.3	back	0 mm	0.873	0.861	1.01	N/A	N/A	N/A	N/A
5600	5610.00	122	802.11ac, 80 MHz Bandwidth	OFDM	2B	29.3	back	0 mm	1.090	1.010	1.08	N/A	N/A	N/A	N/A
5750	5775.00	155	802.11ac, 80 MHz Bandwidth	OFDM	2B	29.3	back	0 mm	0.930	0.925	1.01	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.2 Measurement Uncertainty

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

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13 ADDITIONAL TESTING PER FCC GUIDANCE

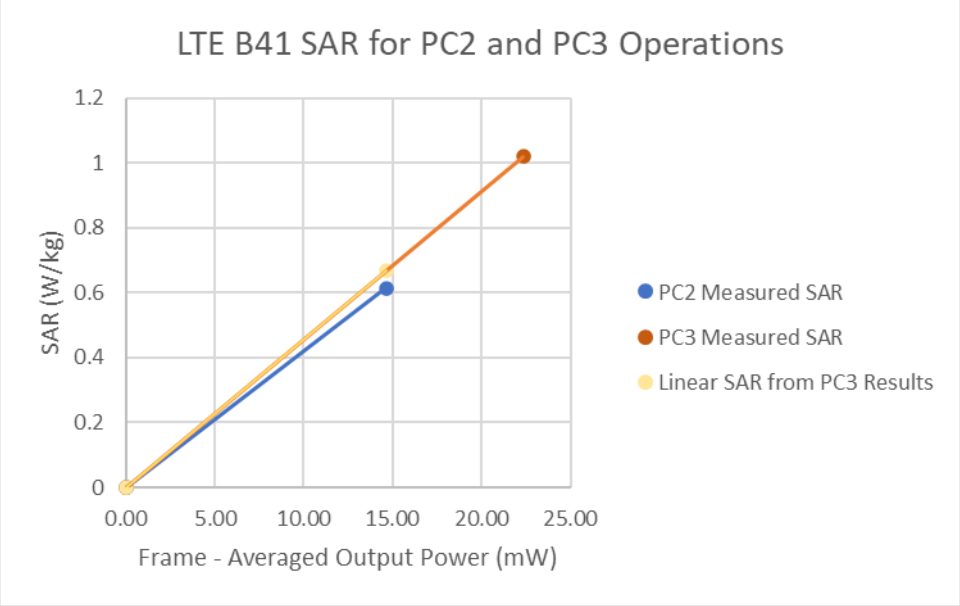
13.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

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

LTE Band 41 SAR testing 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.

Table 13-1
LTE Band 41 Body Linearity Data – Ant 4

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.6	15.6
Measured Output Power (dBm)	15.48	15.29
Measured SAR (W/kg)	1.02	0.615
Measured Power (mW)	35.32	33.81
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	22.36	14.64
% deviation from expected linearity		-7.91%

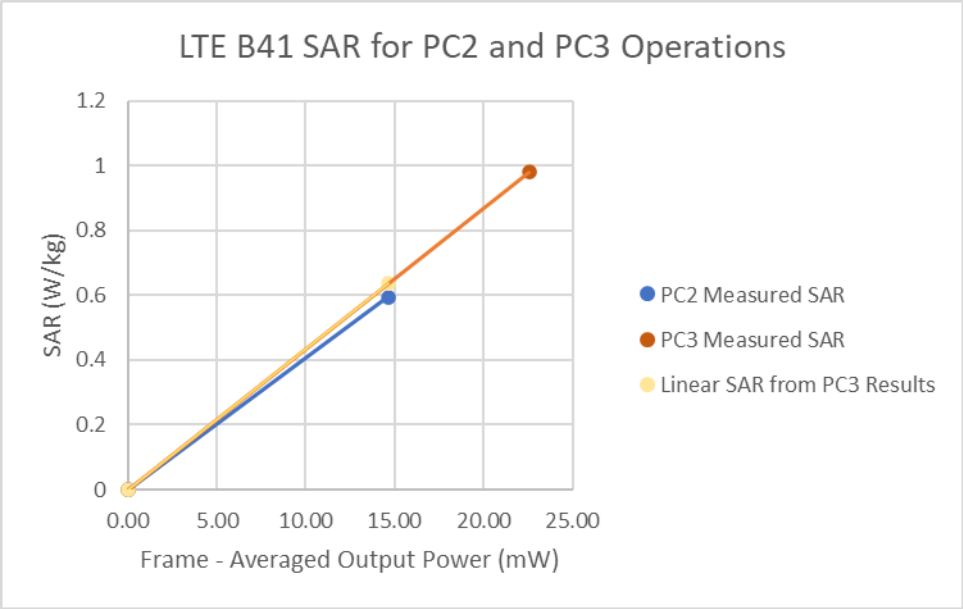


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Table 13-2
LTE Band 41 ULCA Body Linearity Data – Ant 4

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.6	15.6
Measured Output Power (dBm)	15.52	15.29
Measured SAR (W/kg)	0.981	0.594
Measured Power (mW)	35.65	33.81
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	22.56	14.64
% deviation from expected linearity		-6.67%

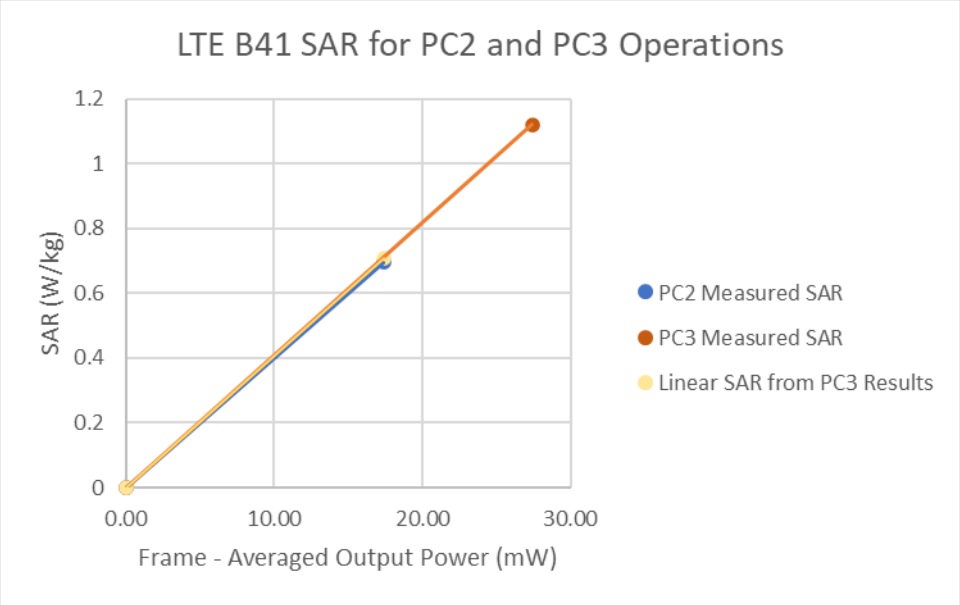


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Table 13-3
LTE Band 41 Body Linearity Data – Ant 2A

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.6	16.6
Measured Output Power (dBm)	16.37	16.04
Measured SAR (W/kg)	1.12	0.696
Measured Power (mW)	43.35	40.18
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	27.44	17.40
% deviation from expected linearity		-1.98%

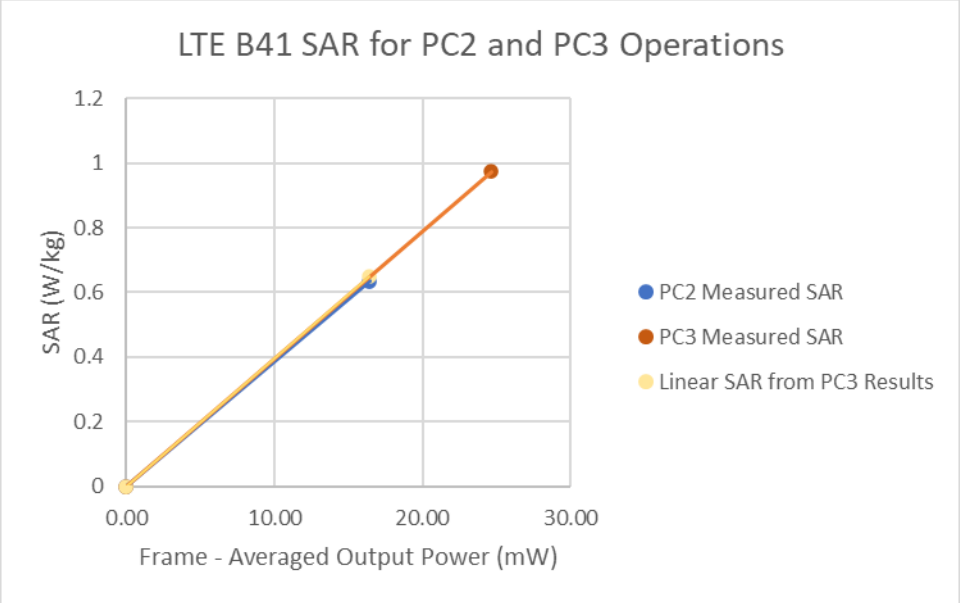


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Table 13-4
LTE Band 41 ULCA Body Linearity Data – Ant 2A

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.6	16.6
Measured Output Power (dBm)	15.9	15.79
Measured SAR (W/kg)	0.973	0.634
Measured Power (mW)	38.90	37.93
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	24.63	16.42
% deviation from expected linearity		-2.30%

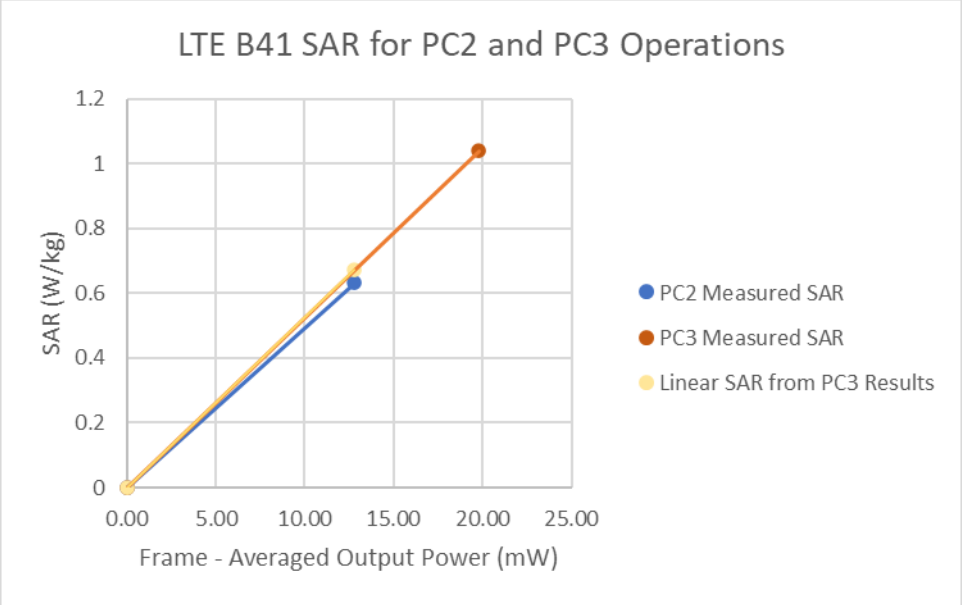


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Table 13-5
LTE Band 41 Body Linearity Data – Ant 1A

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15	15
Measured Output Power (dBm)	14.95	14.7
Measured SAR (W/kg)	1.04	0.632
Measured Power (mW)	31.26	29.51
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	19.79	12.78
% deviation from expected linearity		-5.90%

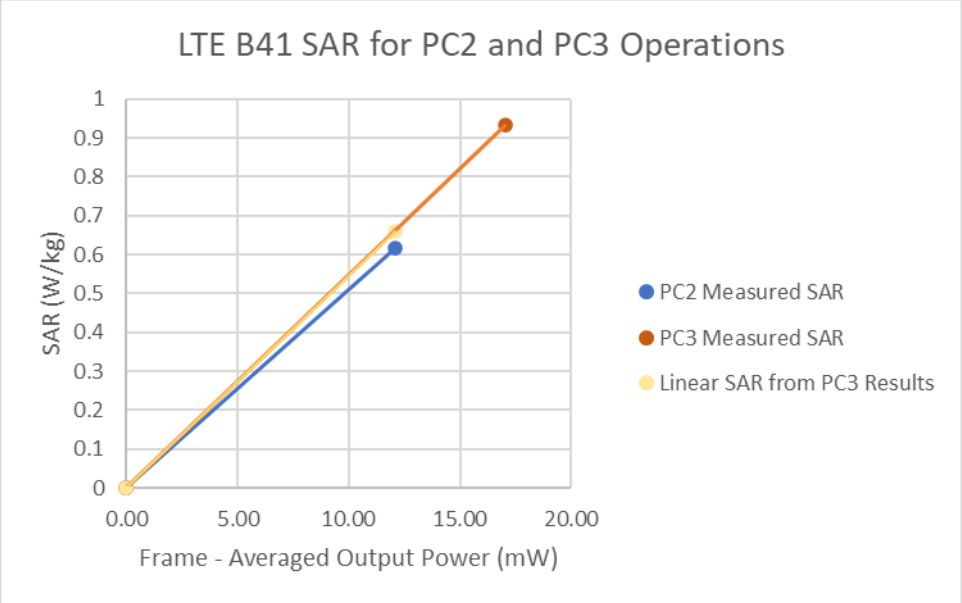


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Table 13-6
LTE Band 41 ULCA Body Linearity Data – Ant 1A

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15	15
Measured Output Power (dBm)	14.3	14.45
Measured SAR (W/kg)	0.932	0.616
Measured Power (mW)	26.92	27.86
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	17.04	12.06
% deviation from expected linearity		-6.66%

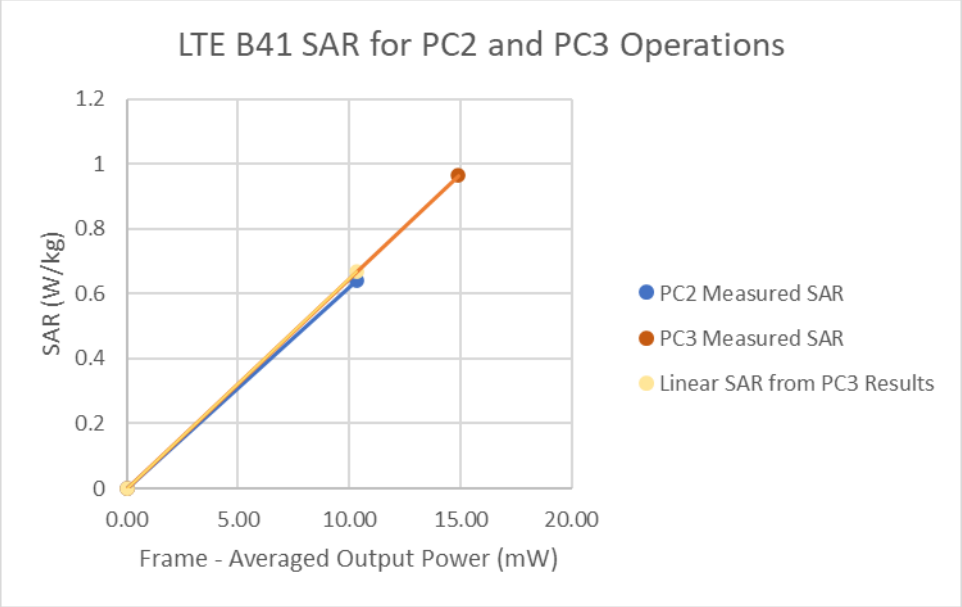


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Table 13-7
LTE Band 41 Body Linearity Data – Ant 3A

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	14.2
Measured Output Power (dBm)	13.72	13.77
Measured SAR (W/kg)	0.964	0.64
Measured Power (mW)	23.55	23.82
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.91	10.32
% deviation from expected linearity		-4.06%

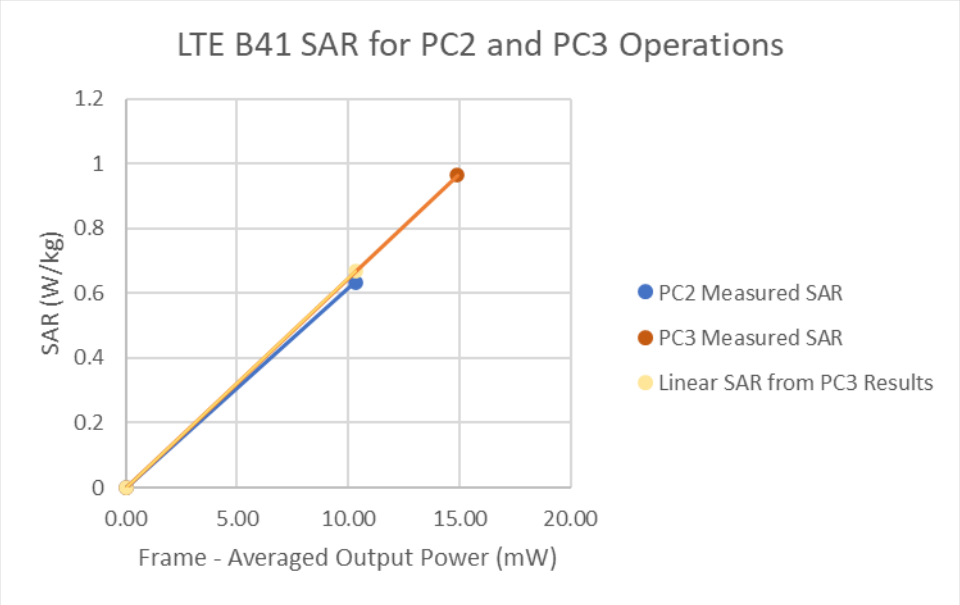


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Table 13-8
LTE Band 41 ULCA Body Linearity Data – Ant 3A

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	14.2
Measured Output Power (dBm)	13.72	13.77
Measured SAR (W/kg)	0.964	0.635
Measured Power (mW)	23.55	23.82
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.91	10.32
% deviation from expected linearity		-4.81%



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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4438C	ESG Vector Signal Generator	9/11/2019	Annual	9/11/2020	MY45093678
Agilent	E4438C	ESG Vector Signal Generator	9/30/2019	Annual	9/30/2020	US41460739
Agilent	E4438C	ESG Vector Signal Generator	9/13/2019	Annual	9/13/2020	MY42081752
Agilent	E5515C	Wireless Communications Test Set	5/18/2020	Biennial	5/18/2022	GB43193591
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343971
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1520503
Anritsu	MA24106A	USB Power Sensor	2/27/2020	Annual	2/27/2021	1520501
Anritsu	MA24106A	USB Power Sensor	8/27/2019	Annual	8/27/2020	1827531
Anritsu	MA24106A	USB Power Sensor	7/24/2020	Annual	7/24/2021	1231538
Anritsu	MA2411B	Pulse Power Sensor	1/21/2020	Annual	1/21/2021	1339007
Anritsu	ML2495A	Power Meter	11/15/2019	Annual	11/15/2020	1039008
Anritsu	ML2496A	Power Meter	12/17/2019	Annual	12/17/2020	1138001
Anritsu	MT8821C	Radio Communication Analyzer	3/10/2020	Annual	3/10/2021	6200901190
Anritsu	MT8821C	Radio Communication Analyzer	5/21/2020	Annual	5/21/2021	6201144419
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766816
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766817
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766801
Control Company	4352	Ultra Long Stem Thermometer	11/29/2018	Biennial	11/29/2020	181766777
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291470
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291455
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291460
Insize	1108-150	Digital Caliper	1/17/2020	Biennial	1/17/2022	0409193536
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
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	ZVC	Vector Network Analyzer	10/18/2018	Biennial	10/18/2020	100056
Rohde & Schwarz	FSP-7	Spectrum Analyzer	1/9/2020	Biennial	1/9/2022	100990
Rohde & Schwarz	CMW500	Radio Communication Tester	8/26/2019	Annual	8/26/2020	100976
Rohde & Schwarz	CMW500	Radio Communication Tester	8/20/2019	Annual	8/20/2020	106578
Rohde & Schwarz	CMW500	Radio Communication Tester	10/15/2019	Annual	10/15/2020	109366
Rohde & Schwarz	CMW500	Radio Communication Tester	8/27/2019	Annual	8/27/2020	116743
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2/4/2020	Annual	2/4/2021	162125
SPEAG	DAKS-3.5	Portable DAK	9/10/2019	Annual	9/10/2020	1045
SPEAG	D750V3	750 MHz SAR Dipole	9/8/2017	Triennial	9/8/2020	1097
SPEAG	D835V2	835 MHz SAR Dipole	5/18/2018	Triennial	5/18/2021	4d180
SPEAG	D850V2	850 MHz SAR Dipole	9/8/2017	Triennial	9/8/2020	1010
SPEAG	D1750V2	1750 MHz SAR Dipole	9/7/2017	Triennial	9/7/2020	1104
SPEAG	D1750V2	1750 MHz SAR Dipole	5/15/2018	Triennial	5/15/2021	1092
SPEAG	D1900V2	1900 MHz SAR Dipole	9/7/2017	Triennial	9/7/2020	5d181
SPEAG	D1900V2	1900 MHz SAR Dipole	6/19/2019	Biennial	6/19/2021	5d030
SPEAG	D2300V2	2300 MHz SAR Dipole	3/7/2018	Triennial	3/7/2021	1038
SPEAG	D2450V2	2450 MHz SAR Dipole	11/12/2018	Biennial	11/12/2020	921
SPEAG	D2450V2	2450 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	750
SPEAG	D2450V2	2450 MHz SAR Dipole	5/16/2018	Triennial	5/16/2021	945
SPEAG	D2600V2	2600 MHz SAR Dipole	9/11/2017	Triennial	9/11/2020	1069
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	1042
SPEAG	D3500V2	3500 MHz SAR Dipole	8/16/2019	Biennial	8/16/2021	1055
SPEAG	D3700V2	3700 MHz SAR Dipole	10/17/2019	Annual	10/17/2020	1002
SPEAG	D5GHzV2	5 GHz SAR Dipole	3/13/2018	Triennial	3/13/2021	1123
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2020	Annual	4/15/2021	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/14/2020	Annual	1/14/2021	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/19/2020	Annual	3/19/2021	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/13/2020	Annual	2/13/2021	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/14/2020	Annual	4/14/2021	1532
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/11/2020	Annual	6/11/2021	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/13/2019	Annual	11/13/2020	1213
SPEAG	EX3DV4	SAR Probe	4/20/2020	Annual	4/20/2021	7532
SPEAG	EX3DV4	SAR Probe	1/20/2020	Annual	1/20/2021	3837
SPEAG	EX3DV4	SAR Probe	3/20/2020	Annual	3/20/2021	7421
SPEAG	EX3DV4	SAR Probe	2/19/2020	Annual	2/19/2021	7427
SPEAG	EX3DV4	SAR Probe	12/13/2019	Annual	12/13/2020	7490
SPEAG	EX3DV4	SAR Probe	6/22/2020	Annual	6/22/2021	7416
SPEAG	EX3DV4	SAR Probe	11/21/2019	Annual	11/21/2020	7420

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 Unceritainty	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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17 REFERENCES

[1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation, Aug. 1996.

[2] ANSI/IEEE C95.1-2005, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, 2006.

[3] ANSI/IEEE C95.1-1992, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, Sept. 1992.

[4] ANSI/IEEE C95.3-2002, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave, New York: IEEE, December 2002.

[5] IEEE Standards Coordinating Committee 39 –Standards Coordinating Committee 34 – IEEE Std. 1528-2013, IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

[6] NCRP, National Council on Radiation Protection and Measurements, Biological Effects and Exposure Criteria for RadioFrequency Electromagnetic Fields, NCRP Report No. 86, 1986. Reprinted Feb. 1995.

[7] T. Schmid, O. Egger, N. Kuster, Automated E-field scanning system for dosimetric assessments, IEEE Transaction on Microwave Theory and Techniques, vol. 44, Jan. 1996, pp. 105-113.

[8] K. Pokovic, T. Schmid, N. Kuster, Robust setup for precise calibration of E-field probes in tissue simulating liquids at mobile communications frequencies, ICECOM97, Oct. 1997, pp. 1 -124.

[9] K. Pokovic, T. Schmid, and N. Kuster, E-field Probe with improved isotropy in brain simulating liquids, Proceedings of the ELMAR, Zadar, Croatia, June 23-25, 1996, pp. 172-175.

[10] Schmid & Partner Engineering AG, Application Note: Data Storage and Evaluation, June 1998, p2.

[11] V. Hombach, K. Meier, M. Burkhardt, E. Kuhn, N. Kuster, The Dependence of EM Energy Absorption upon Human Modeling at 900 MHz, IEEE Transaction on Microwave Theory and Techniques, vol. 44 no. 10, Oct. 1996, pp. 1865-1873.

[12] N. Kuster and Q. Balzano, Energy absorption mechanism by biological bodies in the near field of dipole antennas above 300MHz, IEEE Transaction on Vehicular Technology, vol. 41, no. 1, Feb. 1992, pp. 17-23.

[13] G. Hartsgrove, A. Kraszewski, A. Surowiec, Simulated Biological Materials for Electromagnetic Radiation Absorption Studies, University of Ottawa, Bioelectromagnetics, Canada: 1987, pp. 29-36.

[14] Q. Balzano, O. Garay, T. Manning Jr., Electromagnetic Energy Exposure of Simulated Users of Portable Cellular Telephones, IEEE Transactions on Vehicular Technology, vol. 44, no.3, Aug. 1995.

[15] W. Gander, Computermathematick, Birkhaeuser, Basel, 1992.

[16] W.H. Press, S.A. Teukolsky, W.T. Vetterling, and B.P. Flannery, Numerical Recipes in C, The Art of Scientific Computing, Second edition, Cambridge University Press, 1992.

[17] N. Kuster, R. Kastle, T. Schmid, Dosimetric evaluation of mobile communications equipment with known precision, IEEE Transaction on Communications, vol. E80-B, no. 5, May 1997, pp. 645-652.

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[18] CENELEC CLC/SC111B, European Prestandard (prENV 50166-2), Human Exposure to Electromagnetic Fields High-frequency: 10kHz-300GHz, Jan. 1995.

[19] Prof. Dr. Niels Kuster, ETH, Eidgenössische Technische Hoschschule Zürich, Dosimetric Evaluation of the Cellular Phone.

[20] IEC 62209-1, Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz), July 2016.

[21] Innovation, Science, Economic Development Canada RSS-102 Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) Issue 5, March 2015.

[22] Health Canada Safety Code 6 Limits of Human Exposure to Radio Frequency Electromagnetic Fields in the Frequency Range from 3 kHz – 300 GHz, 2015

[23] FCC SAR Test Procedures for 2G-3G Devices, Mobile Hotspot and UMPC Devices KDB Publications 941225, D01-D07

[24] SAR Measurement Guidance for IEEE 802.11 Transmitters, KDB Publication 248227 D01

[25] FCC SAR Considerations for Handsets with Multiple Transmitters and Antennas, KDB Publications 648474 D03-D04

[26] FCC SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers, FCC KDB Publication 616217 D04

[27] FCC SAR Measurement and Reporting Requirements for 100MHz – 6 GHz, KDB Publications 865664 D01-D02

[28] FCC General RF Exposure Guidance and SAR Procedures for Dongles, KDB Publication 447498, D01-D02

[29] Anexo à Resolução No. 533, de 10 de Septembro de 2009.

[30] IEC 62209-2, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz), Mar. 2010.

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APPENDIX A: SAR TEST DATA

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PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100QQ8MQ

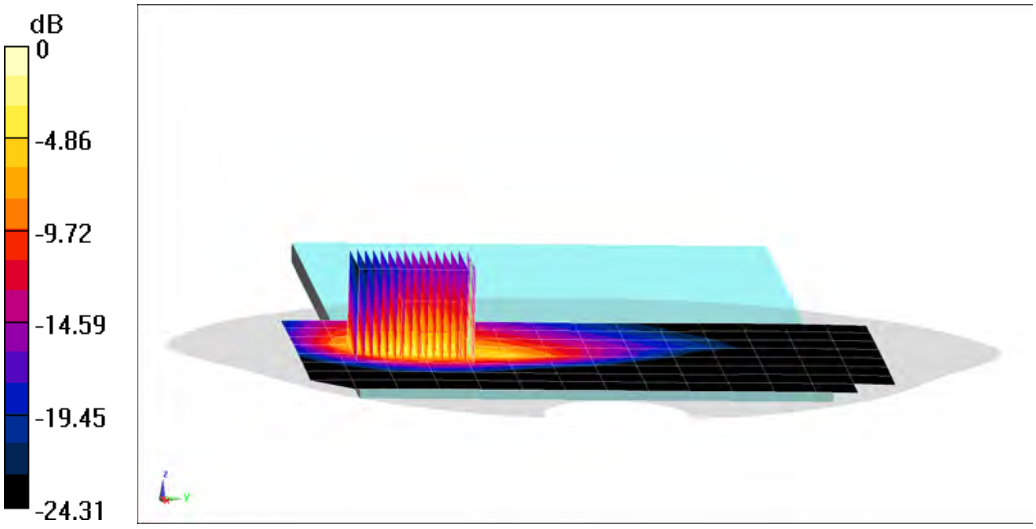
Communication System: UID 0, GSM GPRS; 2 Tx slots; Frequency: 824.2 MHz; Duty Cycle: 1:4.15
Medium: 835 Body Medium parameters used (interpolated):
f = 824.2 MHz; σ = 0.973 S/m; ε_r = 53.77; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-29-2020; Ambient Temp: 22.7°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 824.2 MHz; Calibrated: 3/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/19/2020
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: GPRS 850 Antenna 4, Body SAR, Back side, Low.ch, 2 Tx Slots

Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (13x16x8)/Cube 0: Measurement grid: dx=2.8mm, dy=2.8mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 31.81 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 7.56 W/kg
SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.569 W/kg



0 dB = 2.89 W/kg = 4.61 dBW/kg

PCTEST

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100QQ8MQ

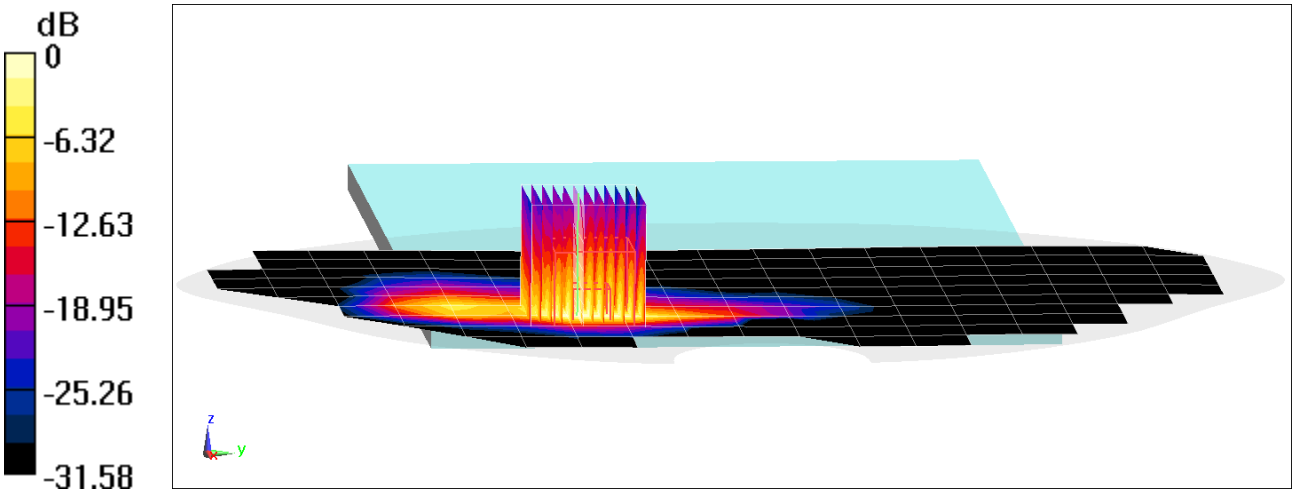
Communication System: UID 0, GSM GPRS; 2 Tx slots; Frequency: 1850.2 MHz; Duty Cycle: 1:4.15
Medium: 1900 Body Medium parameters used (interpolated):
f = 1850.2 MHz; σ = 1.496 S/m; ε_r = 51.852; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-09-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN3837; ConvF(7.68, 7.68, 7.68) @ 1850.2 MHz; Calibrated: 1/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 1/14/2020
Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: GPRS 1900 Antenna 4, Body SAR, Back side, Low.ch, 2 Tx Slots

Area Scan (11x19x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (12x12x8)/Cube 0: Measurement grid: dx=2.8mm, dy=2.8mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 29.62 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.91 W/kg
SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.430 W/kg



0 dB = 2.31 W/kg = 3.64 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD101EQ8MQ

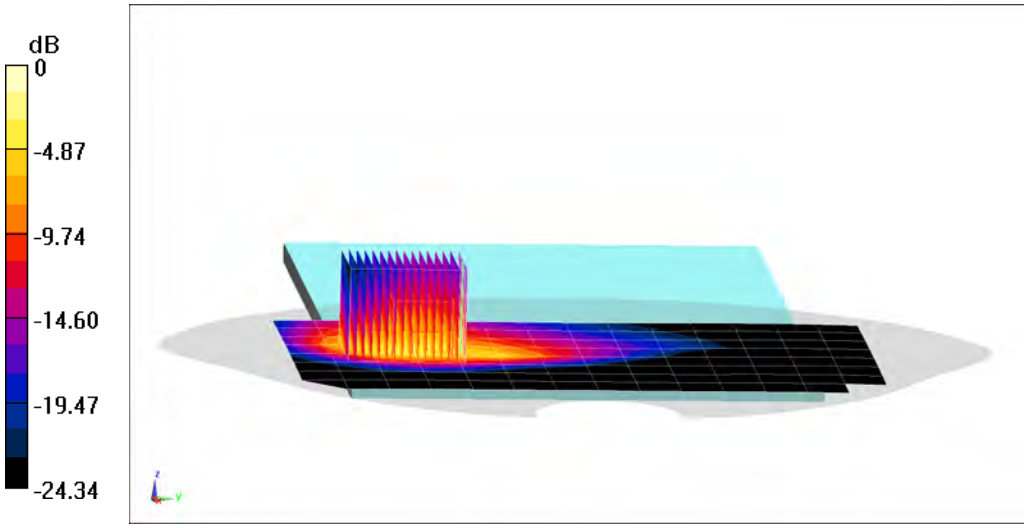
Communication System: UID 0, UMTS; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: 835 Body Medium parameters used (interpolated):
f = 826.4 MHz; σ = 0.988 S/m; ε_r = 53.601; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3837; ConvF(9.37, 9.37, 9.37) @ 826.4 MHz; Calibrated: 1/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 1/14/2020
Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 850 Antenna 4, Body SAR, Back side, Low.ch

Area Scan (15x7x1): Measurement grid: dx=5mm, dy=15mm
Zoom Scan (18x25x8)/Cube 0: Measurement grid: dx=1.9mm, dy=1.9mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 22.68 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 25.2 W/kg
SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.444 W/kg



0 dB = 4.01 W/kg = 6.03 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1005Q8MW

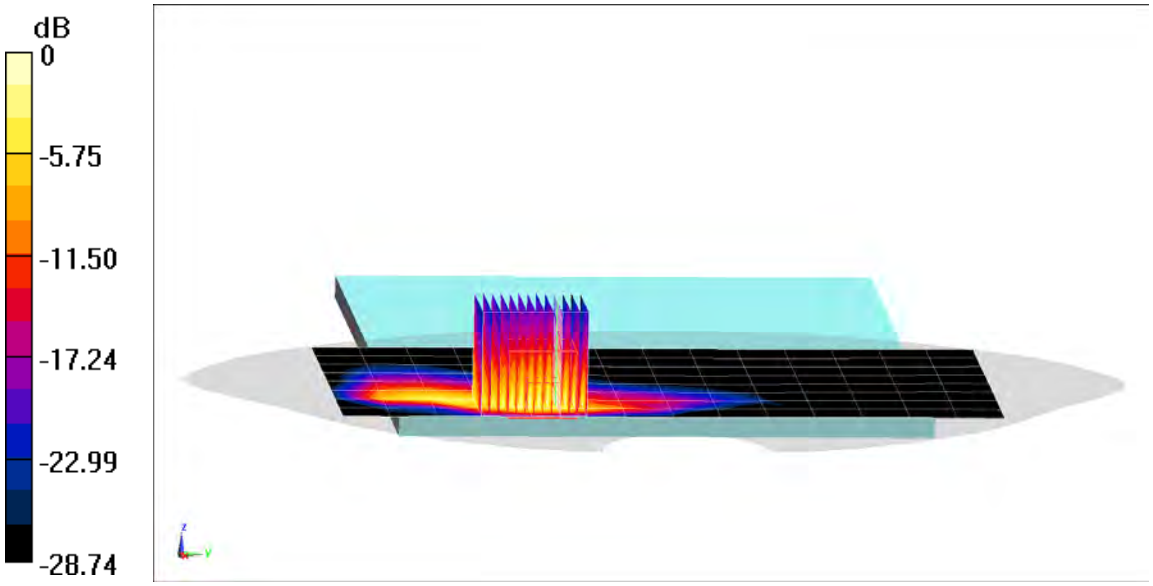
Communication System: UID 0, UMTS; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: 1750 Body Medium parameters used (interpolated):
f = 1752.6 MHz; σ = 1.5 S/m; ε_r = 51.547; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-13-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7427; ConvF(7.92, 7.92, 7.92) @ 1752.6 MHz; Calibrated: 2/19/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1403; Calibrated: 2/13/2020
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 1750 Antenna 4, Body SAR, Back side, High.ch

Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (13x13x8)/Cube 0: Measurement grid: dx=2.8mm, dy=2.8mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 29.88 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 5.00 W/kg
SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.463 W/kg



0 dB = 2.45 W/kg = 3.89 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100DQ8MW

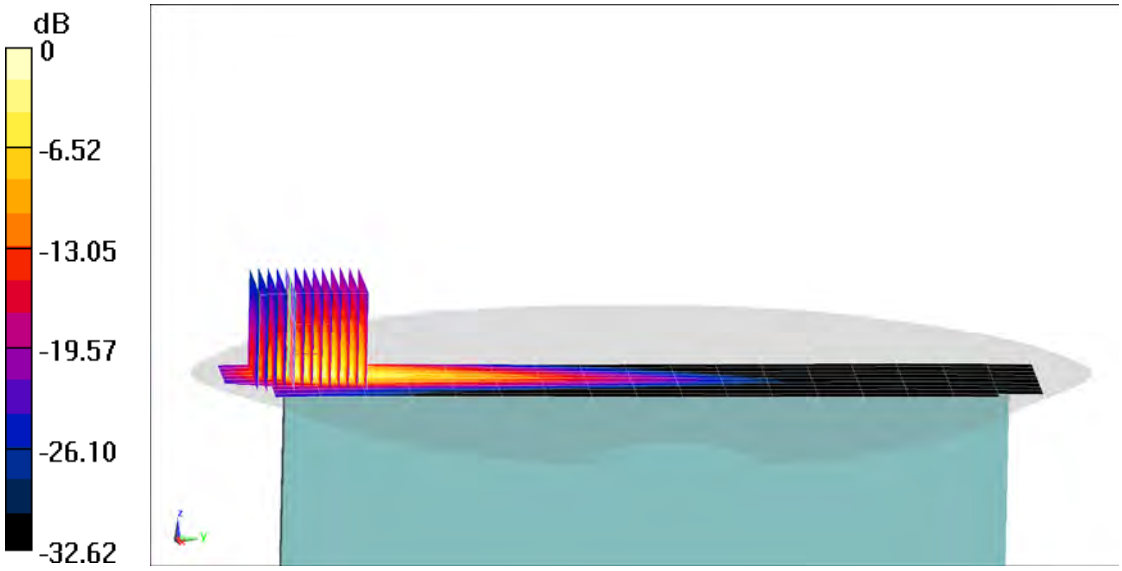
Communication System: UID 0, _UMTS; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: 1900 Body Medium parameters used (interpolated):
f = 1907.6 MHz; σ = 1.533 S/m; ε_r = 51.768; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-09-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN3837; ConvF(7.68, 7.68, 7.68) @ 1907.6 MHz; Calibrated: 1/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 1/14/2020
Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 1900 Antenna 1A, Body SAR, Left Edge, High.ch

Area Scan (10x19x1): Measurement grid: dx=5mm, dy=15mm
Zoom Scan (13x13x8)/Cube 0: Measurement grid: dx=3mm, dy=3mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 22.96 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 6.97 W/kg
SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.431 W/kg



0 dB = 2.78 W/kg = 4.44 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1010Q8MW

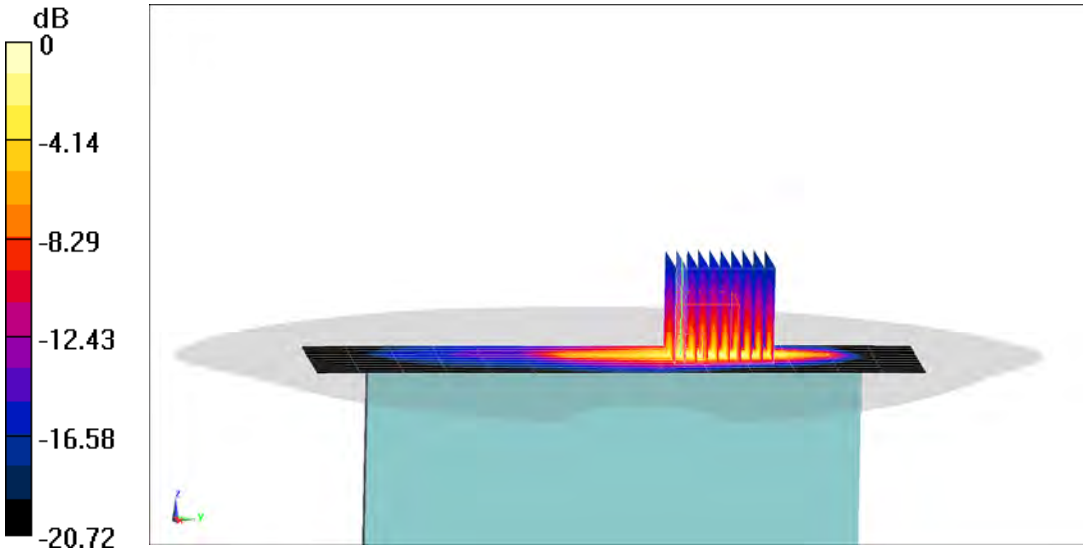
Communication System: UID 0, LTE Band 71; Frequency: 680.5 MHz; Duty Cycle: 1:1
Medium: 750 Body Medium parameters used (interpolated):
f = 680.5 MHz; σ = 0.949 S/m; ε_r = 54.419; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-29-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 680.5 MHz; Calibrated: 4/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/15/2020
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 71 Antenna 3B, Body SAR, Top Edge, Mid.ch, 20 MHz Bandwidth, QPSK, 50 RB, 50 RB Offset

Area Scan (11x15x1): Measurement grid: dx=5mm, dy=15mm
Zoom Scan (10x10x8)/Cube 0: Measurement grid: dx=3.8mm, dy=3.8mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 34.14 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 7.17 W/kg
SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.536 W/kg



0 dB = 2.85 W/kg = 4.55 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1010Q8MW

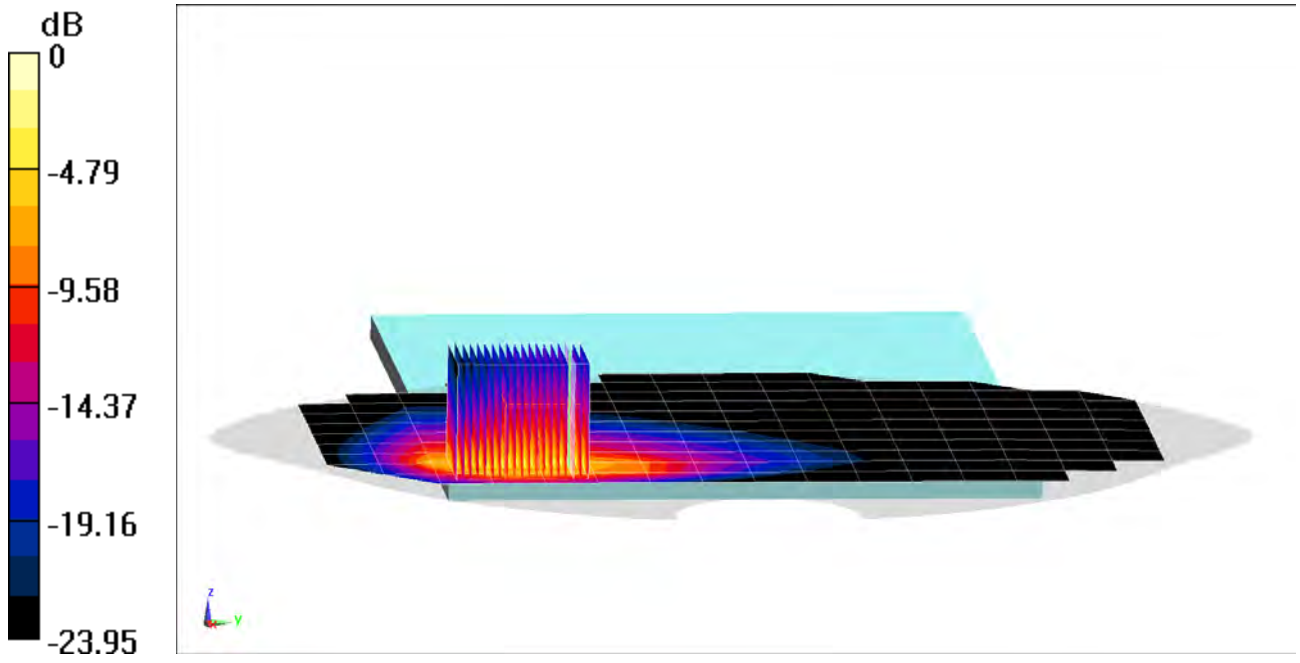
Communication System: UID 0, LTE Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium: 750 Body Medium parameters used (interpolated):
f = 707.5 MHz; σ = 0.958 S/m; ε_r = 53.451; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-31-2020; Ambient Temp: 22.1°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 707.5 MHz; Calibrated: 4/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/15/2020
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 12 Antenna 4, Body SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset

Area Scan (12x17x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (16x19x8)/Cube 0: Measurement grid: dx=2.1mm, dy=2.1mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 29.84 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 10.9 W/kg
SAR(1 g) = 0.955 W/kg; SAR(10 g) = 0.419 W/kg



0 dB = 2.71 W/kg = 4.33 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1010Q8MW

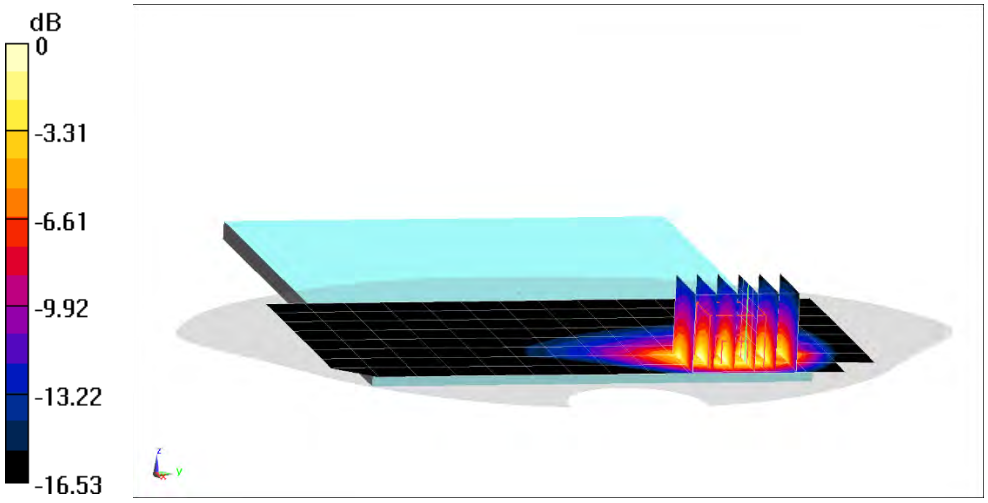
Communication System: UID 0, LTE Band 13; Frequency: 782 MHz; Duty Cycle: 1:1
Medium: 750 Body Medium parameters used (interpolated):
f = 782 MHz; σ = 0.986 S/m; ε_r = 54.216; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-29-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 782 MHz; Calibrated: 4/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/15/2020
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 13 Antenna 3B, Body SAR, Back side, Mid.ch, 10 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset

Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.63 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.57 W/kg
SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.564 W/kg



0 dB = 1.70 W/kg = 2.30 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1010Q8MW

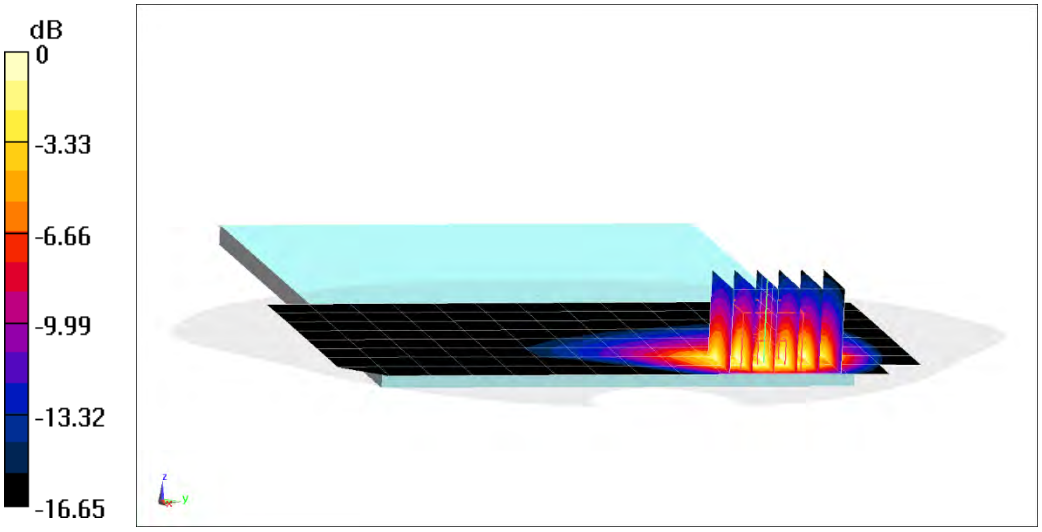
Communication System: UID 0, LTE Band 14; Frequency: 793 MHz; Duty Cycle: 1:1
Medium: 750 Body Medium parameters used (interpolated):
f = 793 MHz; σ = 0.99 S/m; ε_r = 54.182; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-29-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 793 MHz; Calibrated: 4/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/15/2020
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 14 Antenna 3B, Body SAR, Back side, Mid.ch, 10 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset

Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.44 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.28 W/kg
SAR(1 g) = 0.974 W/kg; SAR(10 g) = 0.491 W/kg



0 dB = 1.46 W/kg = 1.64 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD101EQ8MQ

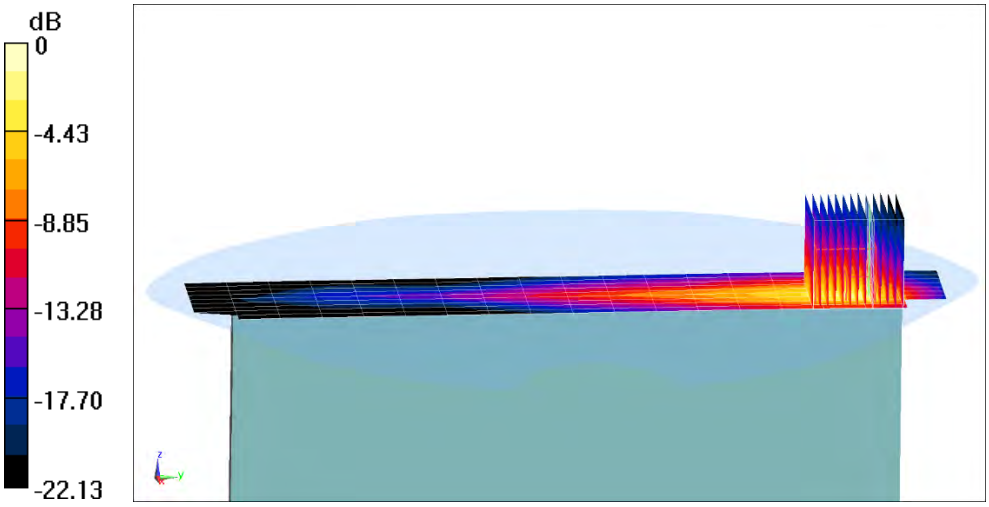
Communication System: UID 0, _LTE Band 26; Frequency: 844 MHz; Duty Cycle: 1:1
Medium: 835 Body Medium parameters used (interpolated):
f = 844 MHz; σ = 0.994 S/m; ε_r = 53.567; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3837; ConvF(9.37, 9.37, 9.37) @ 844 MHz; Calibrated: 1/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 1/14/2020
Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 26 (Cell.) Antenna 4, Body SAR, Left Edge, High.ch, 10 MHz Bandwidth, QPSK, 25 RB, 12 RB Offset

Area Scan (10x7x1): Measurement grid: dx=5mm, dy=15mm
Zoom Scan (13x13x8)/Cube 0: Measurement grid: dx=2.7mm, dy=2.7mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 32.45 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 11.2 W/kg
SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.476 W/kg



0 dB = 3.48 W/kg = 5.42 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1010Q8MW

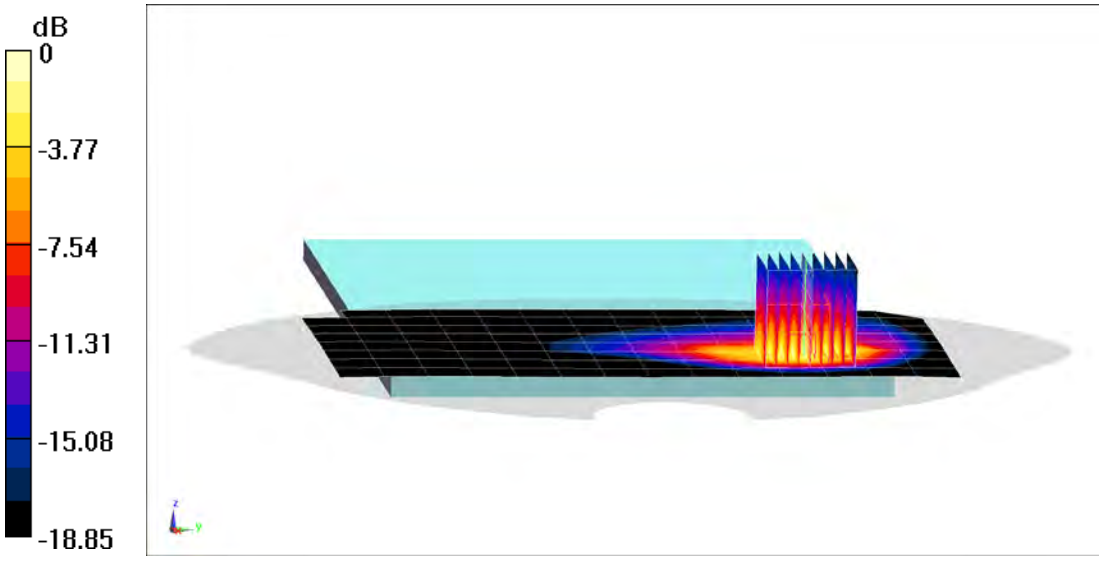
Communication System: UID 0, LTE Band 5; Frequency: 836.5 MHz; Duty Cycle: 1:1
Medium: 835 Body Medium parameters used (interpolated):
f = 836.5 MHz; σ = 0.98 S/m; ε_r = 52.904; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 836.5 MHz; Calibrated: 3/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/19/2020
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 5 (Cell.) Antenna 3B, Body SAR, Back side, Mid.ch, 10 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset

Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (9x9x8)/Cube 0: Measurement grid: dx=3.8mm, dy=3.8mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 34.14 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 2.99 W/kg
SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.549 W/kg



0 dB = 2.06 W/kg = 3.14 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1004Q8MW

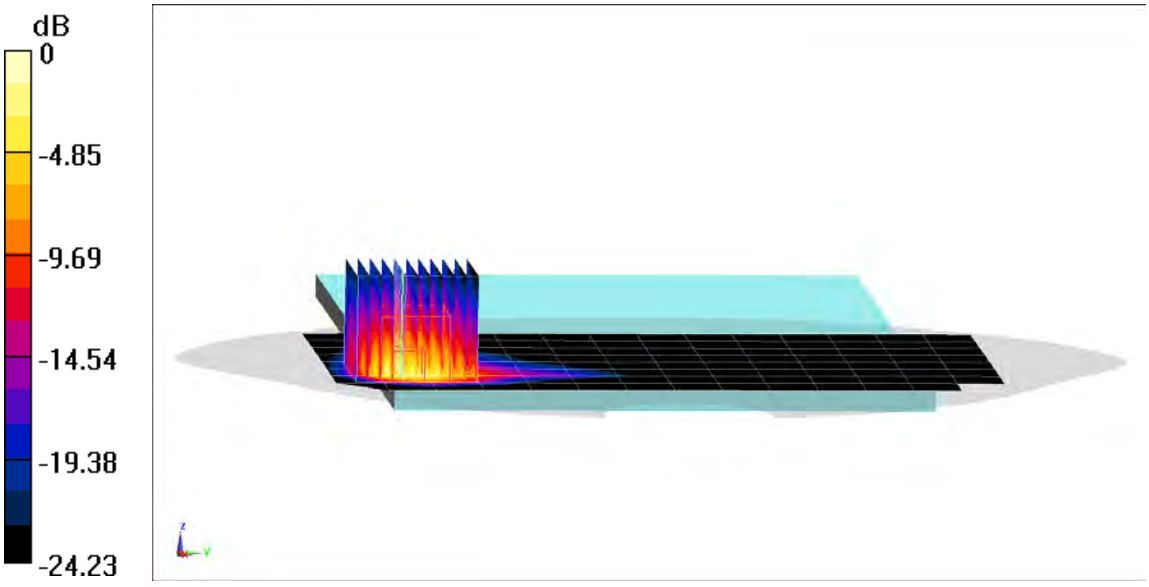
Communication System: UID 0, LTE Band 4 (AWS); Frequency: 1732.5 MHz; Duty Cycle: 1:1
Medium: 1750 Body Medium parameters used (interpolated):
f = 1732.5 MHz; σ = 1.485 S/m; ε_r = 51.252; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-03-2020; Ambient Temp: 22.9°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7427; ConvF(7.92, 7.92, 7.92) @ 1732.5 MHz; Calibrated: 2/19/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1403; Calibrated: 2/13/2020
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 4 (AWS) Antenna 2A, Body SAR, Back side, Mid.ch, 20 MHz Bandwidth, QPSK, 100 RB, 0 RB Offset

Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (11x11x8)/Cube 0: Measurement grid: dx=3.8mm, dy=3.8mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 26.09 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 4.35 W/kg
SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.515 W/kg



0 dB = 2.52 W/kg = 4.01 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1004Q8MW

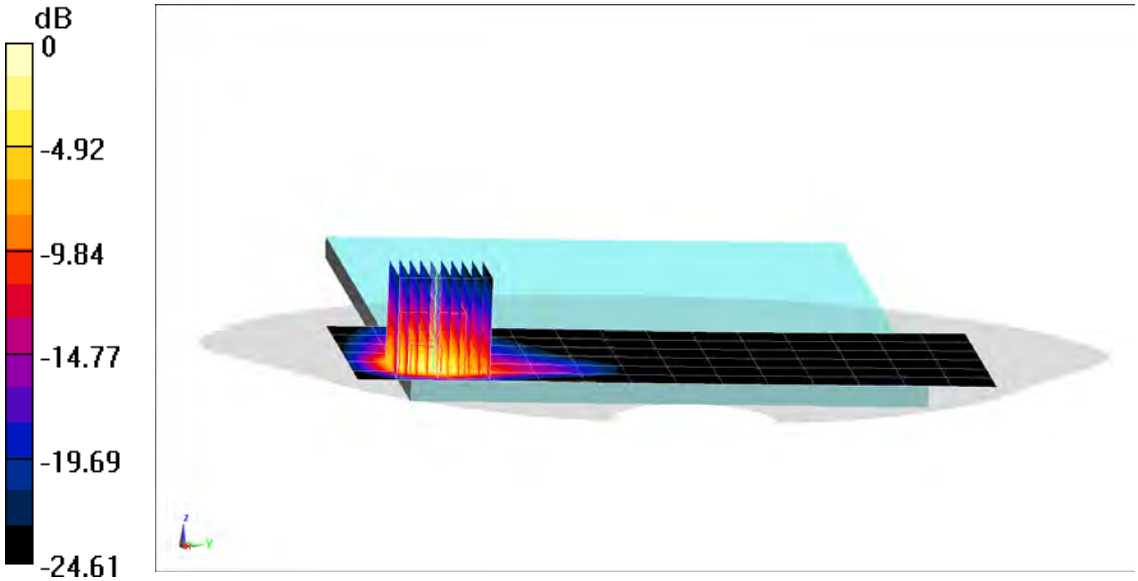
Communication System: UID 0, LTE Band 66 (AWS); Frequency: 1720 MHz; Duty Cycle: 1:1
Medium: 1750 Body Medium parameters used (interpolated):
f = 1720 MHz; σ = 1.459 S/m; ε_r = 51.35; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-30-2020; Ambient Temp: 23.3°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7427; ConvF(7.92, 7.92, 7.92) @ 1720 MHz; Calibrated: 2/19/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1403; Calibrated: 2/13/2020
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 66 (AWS) Antenna 2A, Body SAR, Back side, Low.ch, 20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (10x10x8)/Cube 0: Measurement grid: dx=3.4mm, dy=3.4mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 26.92 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 4.14 W/kg
SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.497 W/kg



0 dB = 2.46 W/kg = 3.91 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100QQ8MQ

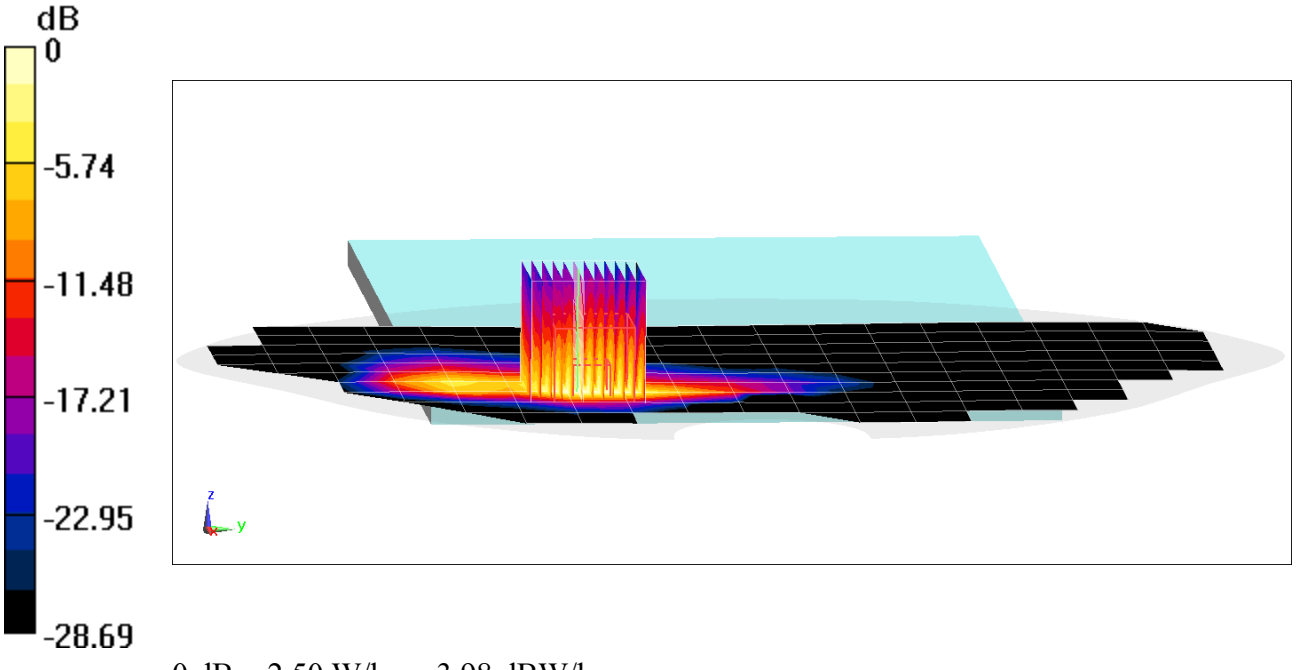
Communication System: UID 0, LTE Band 2 (PCS); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: 1900 Body Medium parameters used (interpolated):
f = 1900 MHz; σ = 1.584 S/m; ε_r = 51.807; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-07-2020; Ambient Temp: 22.5°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN7490; ConvF(8.22, 8.22, 8.22) @ 1900 MHz; Calibrated: 12/13/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1532; Calibrated: 12/5/2019
Phantom: Twin-SAM V4.0 SUB; Type: QD 000 P40 CC; Serial: 1403
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 2 (PCS) Antenna 4, Body SAR, Back side, High.ch, 20 MHz Bandwidth, QPSK, 100 RB, 0 RB Offset

Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (21x21x8)/Cube 0: Measurement grid: dx=1.5mm, dy=1.5mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 28.75 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.88 W/kg
SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.442 W/kg



0 dB = 2.50 W/kg = 3.98 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100QQ8MQ

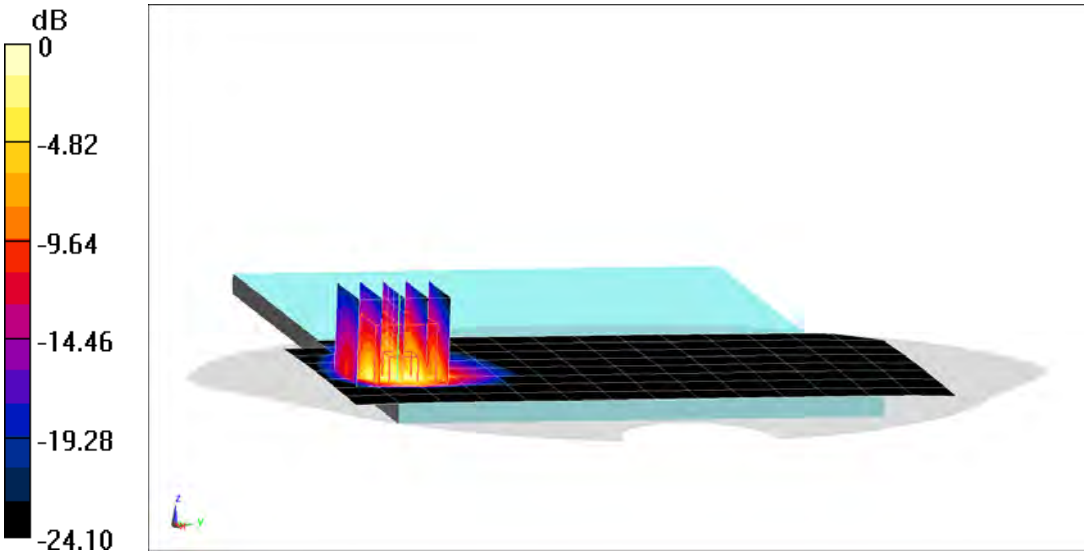
Communication System: UID 0, LTE Band 25 (PCS); Frequency: 1905 MHz; Duty Cycle: 1:1
Medium: 1900 Body Medium parameters used (interpolated):
f = 1905 MHz; σ = 1.589 S/m; ε_r = 51.588; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-28-2020; Ambient Temp: 22.1°C; Tissue Temp: 23.5°C

Probe: EX3DV4 - SN7490; ConvF(8.22, 8.22, 8.22) @ 1905 MHz; Calibrated: 12/13/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1532; Calibrated: 12/5/2019
Phantom: Twin-SAM V4.0 SUB; Type: QD 000 P40 CC; Serial: 1403
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 25 (PCS) Antenna 2A, Body SAR, Back side, High.ch, 20 MHz Bandwidth, QPSK, 50 RB, 0 RB Offset

Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.93 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 3.38 W/kg
SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.517 W/kg



0 dB = 2.21 W/kg = 3.44 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100LQ8MQ

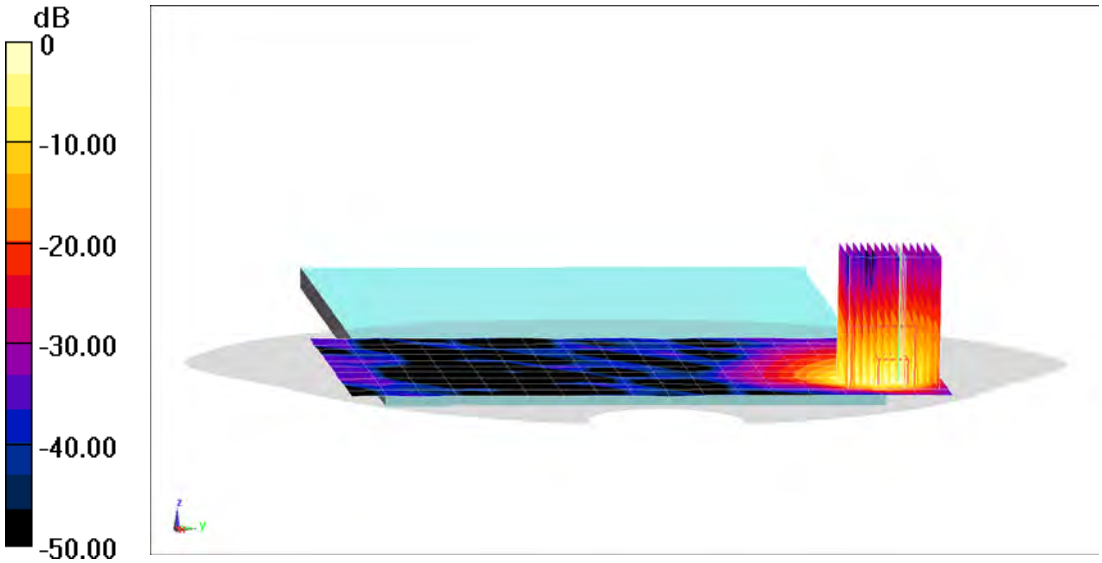
Communication System: UID 0, LTE Band 30; Frequency: 2310 MHz; Duty Cycle: 1:1
Medium: 2300 Body Medium parameters used:
f = 2310 MHz; σ = 1.852 S/m; ε_r = 52.278; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7416; ConvF(7.48, 7.48, 7.48) @ 2310 MHz; Calibrated: 6/22/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/11/2020
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 30 Antenna 1A, Body SAR, Back side, Mid.ch, 10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset

Area Scan (11x18x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (14x14x8)/Cube 0: Measurement grid: dx=2.4mm, dy=2.4mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 24.57 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 6.11 W/kg
SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.487 W/kg



0 dB = 2.96 W/kg = 4.71 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100QQ8MQ

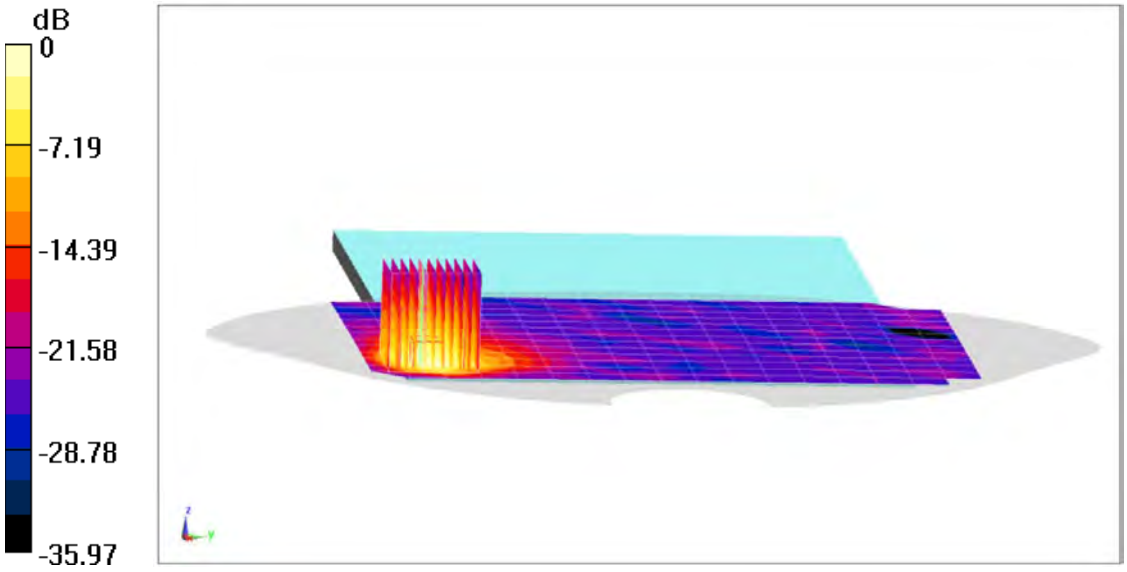
Communication System: UID 0, LTE Band 7; Frequency: 2510 MHz; Duty Cycle: 1:1
Medium: 2450 Body Medium parameters used (interpolated):
f = 2510 MHz; σ = 2.108 S/m; ε_r = 51.739; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 07-31-2020; Ambient Temp: 21.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2510 MHz; Calibrated: 6/22/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/11/2020
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 7 Antenna 2A, Body SAR, Back side, Low.ch, 20 MHz Bandwidth, QPSK, 50 RB, 50 RB Offset

Area Scan (10x10x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 23.09 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.55 W/kg
SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.418 W/kg



0 dB = 2.41 W/kg = 3.82 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD100QQ8MQ

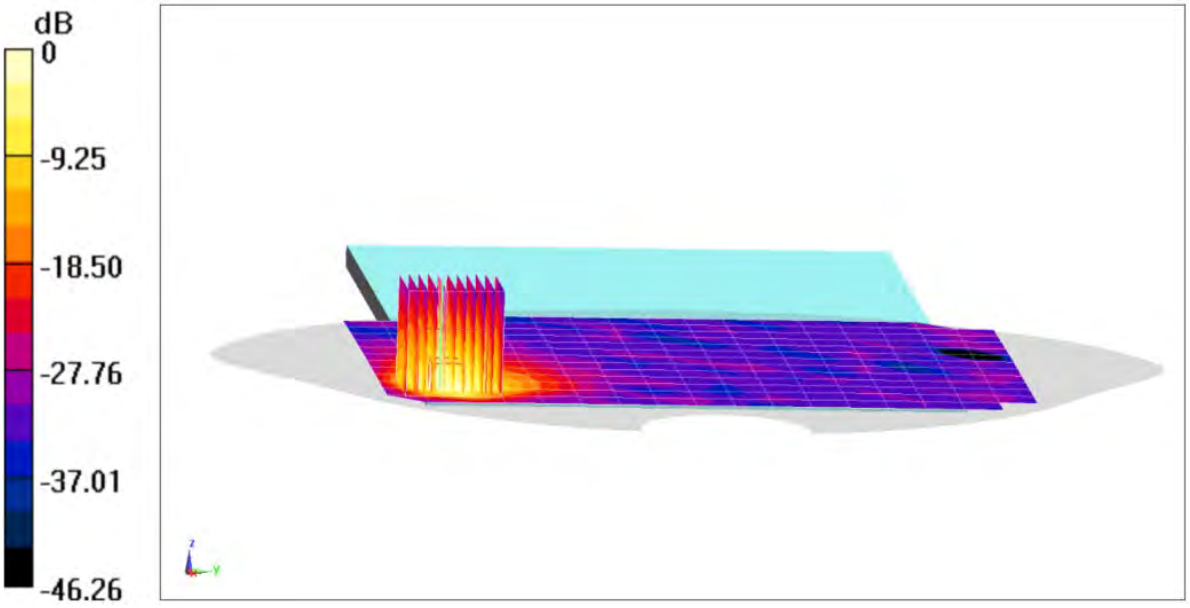
Communication System: UID 0, LTE Band 41 (Class 3); Frequency: 2506 MHz; Duty Cycle: 1:1.58
Medium: 2450 Body Medium parameters used (interpolated):
f = 2506 MHz; σ = 2.1 S/m; ε_r = 51.654; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-05-2020; Ambient Temp: 20.8°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2506 MHz; Calibrated: 6/22/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/11/2020
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 41 Antenna 2A, Body SAR, Back side, Low.ch, 20 MHz Bandwidth, QPSK, 100 RB, 0 RB Offset

Area Scan (10x10x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (13x13x8)/Cube 0: Measurement grid: dx=2.5mm, dy=2.5mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 24.91 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 4.82 W/kg
SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.436 W/kg



0 dB = 2.45 W/kg = 3.89 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD1004Q8MW

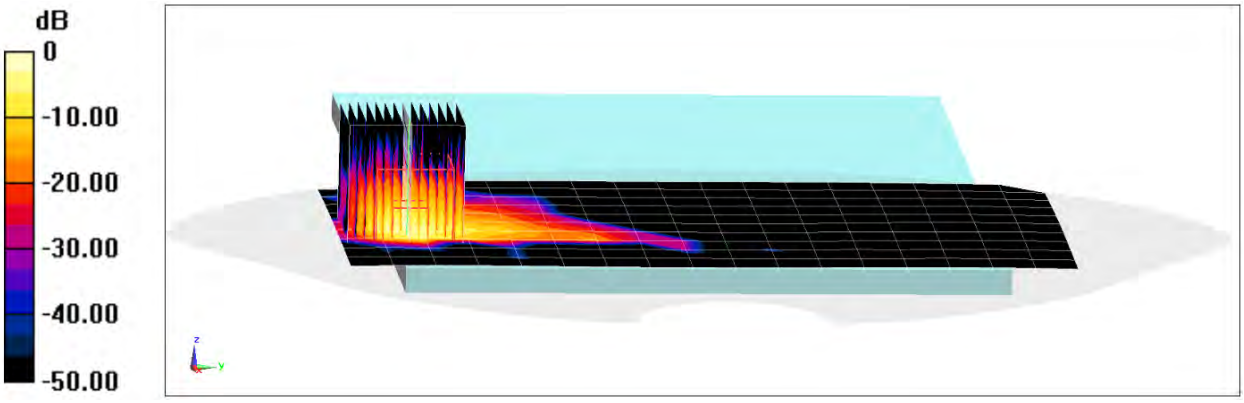
Communication System: UID 0, LTE Band 48; Frequency: 3690 MHz; Duty Cycle: 1:1.58
Medium: 3500-3700 Body Medium parameters used (interpolated):
f = 3690 MHz; σ = 3.614 S/m; ε_r = 49.587; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-03-2020; Ambient Temp: 19.5°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7421; ConvF(6.57, 6.57, 6.57) @ 3690 MHz; Calibrated: 3/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/19/2020
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: LTE Band 48 Antenna 4, Body SAR, Back side, High.ch, 20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset

Area Scan (11x18x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (14x14x8)/Cube 0: Measurement grid: dx=2.5mm, dy=2.5mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 16.66 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 5.55 W/kg
SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.320 W/kg



0 dB = 2.99 W/kg = 4.76 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD101EQ8MQ

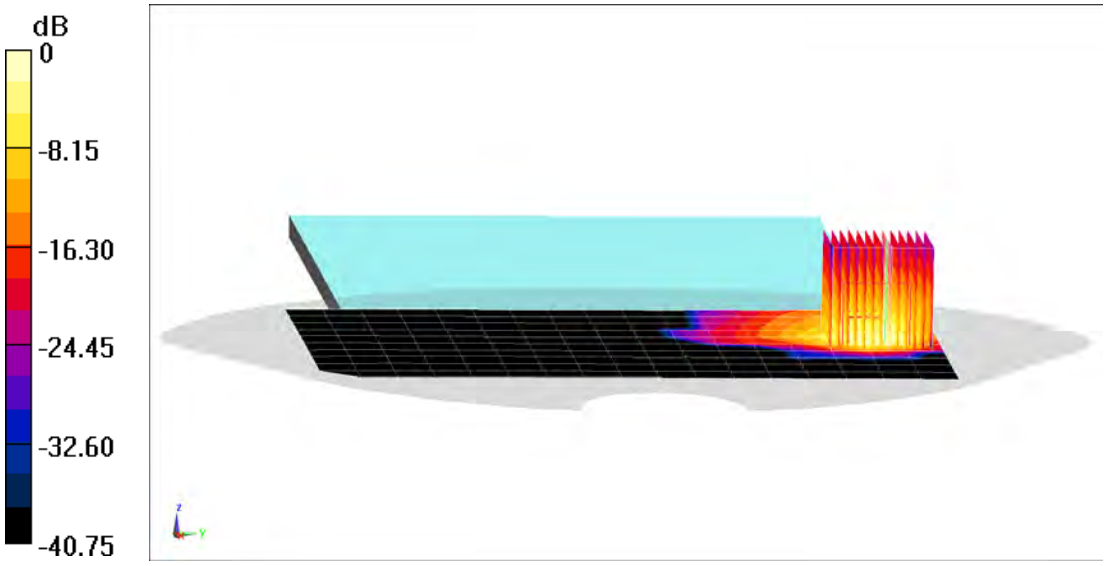
Communication System: UID 0, IEEE 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: 2450 Body Medium parameters used (interpolated):
f = 2437 MHz; σ = 2.017 S/m; ε_r = 50.451; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-10-2020; Ambient Temp: 22.4°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7532; ConvF(7.51, 7.51, 7.51) @ 2437 MHz; Calibrated: 4/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/15/2020
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: IEEE 802.11b Antenna 1A Variant 1, 22 MHz Bandwidth, Body SAR, Ch 6, 1 Mbps, Back Side

Area Scan (10x10x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (14x14x8)/Cube 0: Measurement grid: dx=2.4mm, dy=2.4mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 18.18 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 3.80 W/kg
SAR(1 g) = 0.819 W/kg; SAR(10 g) = 0.362 W/kg



0 dB = 2.00 W/kg = 3.01 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD101BQ8MQ

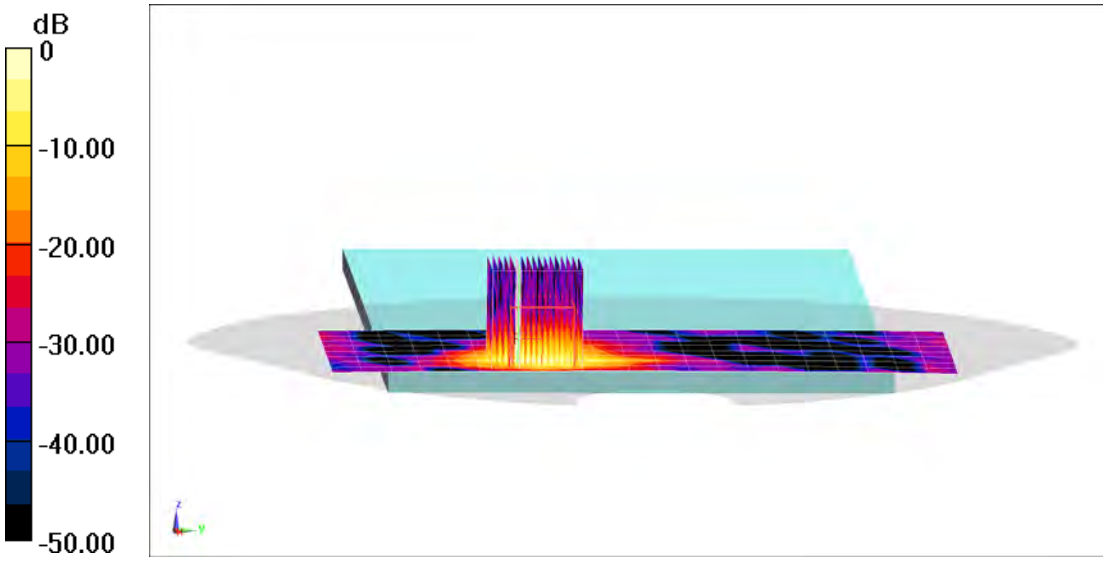
Communication System: UID 0, _IEEE 802.11ac; Frequency: 5610 MHz; Duty Cycle: 1:1
Medium: 5 GHz Body Medium parameters used (interpolated):
f = 5610 MHz; σ = 6.015 S/m; ε_r = 47.239; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-18-2020; Ambient Temp: 21.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7420; ConvF(4.1, 4.1, 4.1) @ 5610 MHz; Calibrated: 11/21/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1213; Calibrated: 11/13/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: IEEE 802.11ac Antenna 2B Variant 1, U-NII-2C, 80 MHz Bandwidth, Body SAR, Ch 122, 29.3 Mbps, Back Side

Area Scan (9x22x1): Measurement grid: dx=10mm, dy=10mm
Zoom Scan (17x17x8)/Cube 0: Measurement grid: dx=1.9mm, dy=1.9mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 11.99 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 7.85 W/kg
SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.326 W/kg



0 dB = 3.53 W/kg = 5.48 dBW/kg

DUT: BCGA2324; Type: Tablet Device; Serial: DLXD101BQ8MQ

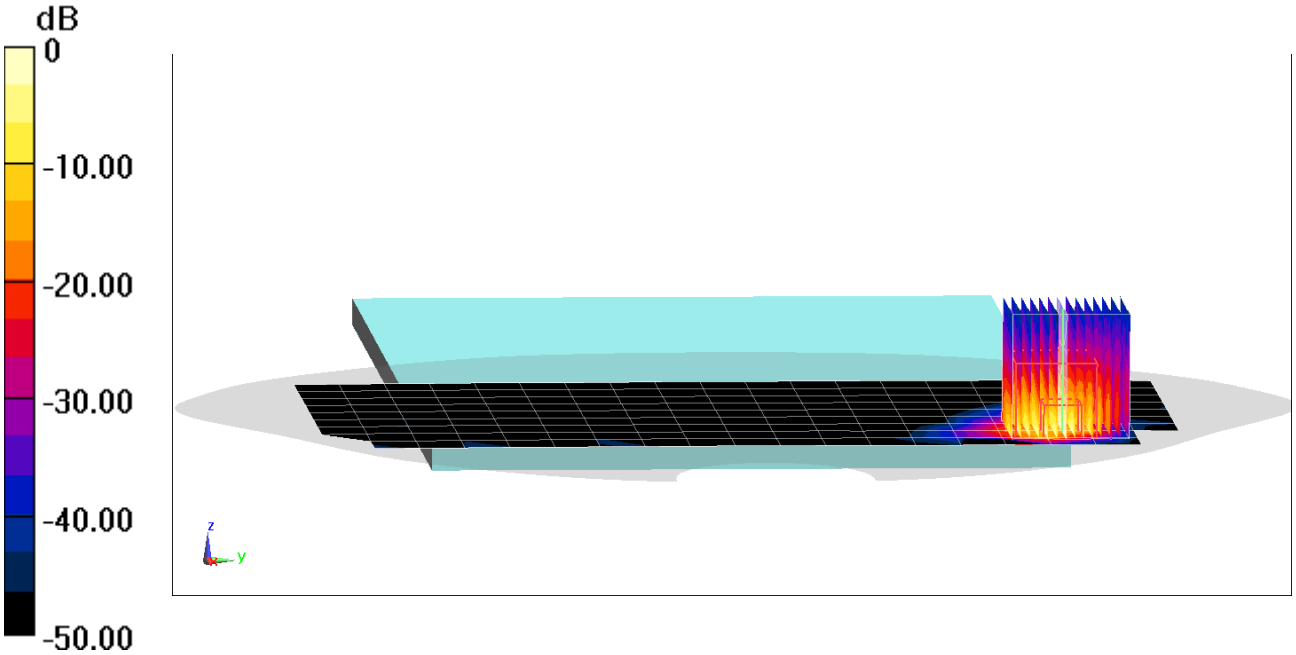
Communication System: UID 0, Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.300
Medium: 2450 Body Medium parameters used (interpolated):
f = 2480 MHz; σ = 2.06 S/m; ε_r = 51.491; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08-13-2020; Ambient Temp: 22.1°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2480 MHz; Calibrated: 6/22/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/11/2020
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: Bluetooth Antenna 1A Variant 1, Body SAR, Ch 78, 1 Mbps, Back Side

Area Scan (11x11x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (23x17x8)/Cube 0: Measurement grid: dx=1.8mm, dy=1.8mm, dz=1.4mm; Graded Ratio: 1.4
Reference Value = 19.78 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 5.75 W/kg
SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.457 W/kg



0 dB = 2.72 W/kg = 4.35 dBW/kg

APPENDIX B: SYSTEM VERIFICATION

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DUT: Dipole 750 MHz; Type: D750V3; Serial: 1097

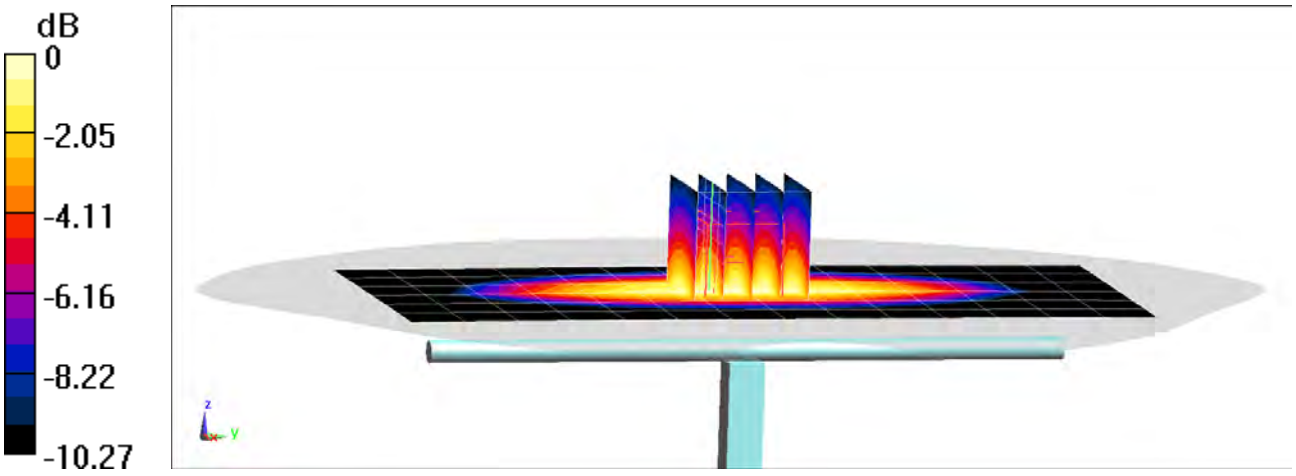
Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1
Medium: 750 Body Medium parameters used (interpolated):
f = 750 MHz; σ = 0.973 S/m; ε_r = 54.287; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-29-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 750 MHz; Calibrated: 4/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/15/2020
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 2.64 W/kg
SAR(1 g) = 1.73 W/kg; SAR(10 g) = 1.15 W/kg
Deviation(1 g) = 1.05%



0 dB = 2.32 W/kg = 3.65 dBW/kg

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DUT: Dipole 750 MHz; Type: D750V3; Serial: 1097

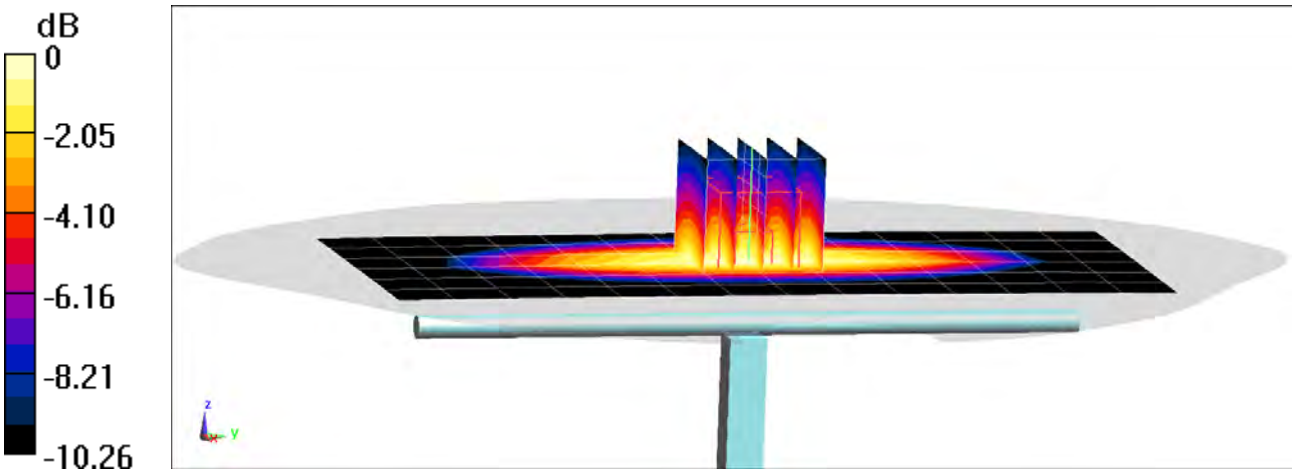
Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1
Medium: 750 Body Medium parameters used (interpolated):
f = 750 MHz; σ = 0.974 S/m; ε_r = 53.349; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-31-2020; Ambient Temp: 22.1°C; Tissue Temp: 19.4°C

Probe: EX3DV4 - SN7532; ConvF(10.43, 10.43, 10.43) @ 750 MHz; Calibrated: 4/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/15/2020
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 2.69 W/kg
SAR(1 g) = 1.77 W/kg; SAR(10 g) = 1.17 W/kg
Deviation(1 g) = 3.39%



0 dB = 2.37 W/kg = 3.75 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d180

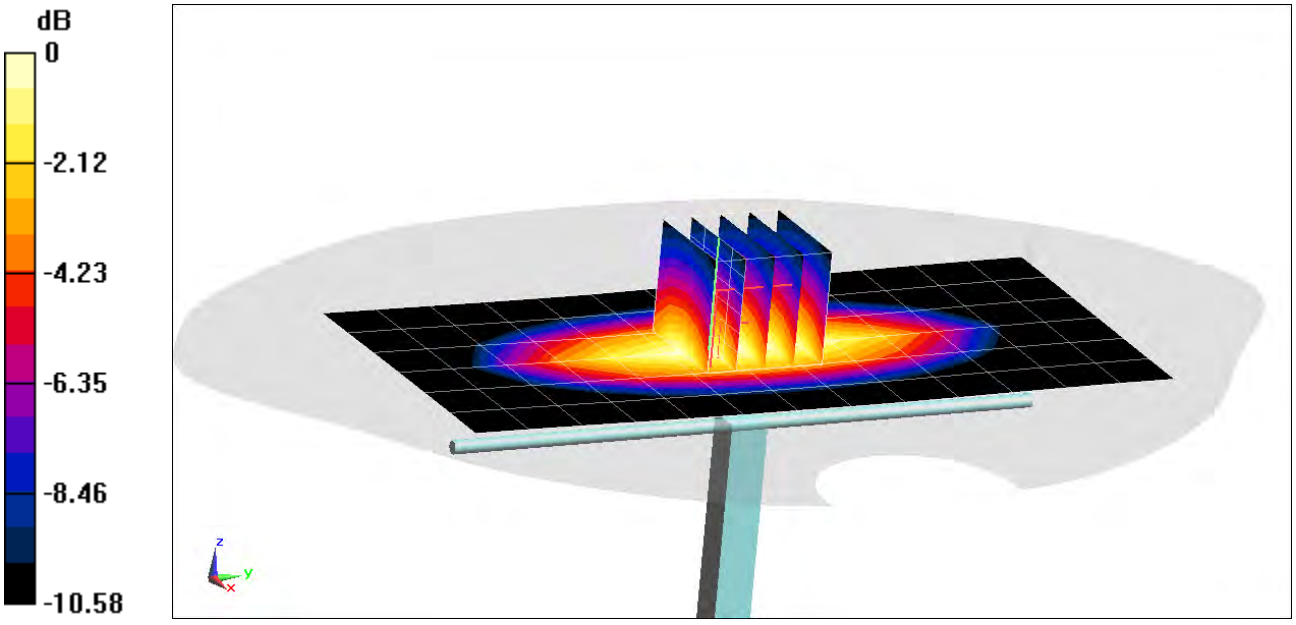
Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium: 835 Body Medium parameters used:
f = 835 MHz; σ = 0.991 S/m; ε_r = 53.581; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3837; ConvF(9.37, 9.37, 9.37) @ 835 MHz; Calibrated: 1/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 1/14/2020
Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

835 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 3.18 W/kg
SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.34 W/kg
Deviation(1 g) = 6.36%



0 dB = 2.76 W/kg = 4.41 dBW/kg

PCTEST

DUT: Dipole 850 MHz; Type: D850V2; Serial: 1010

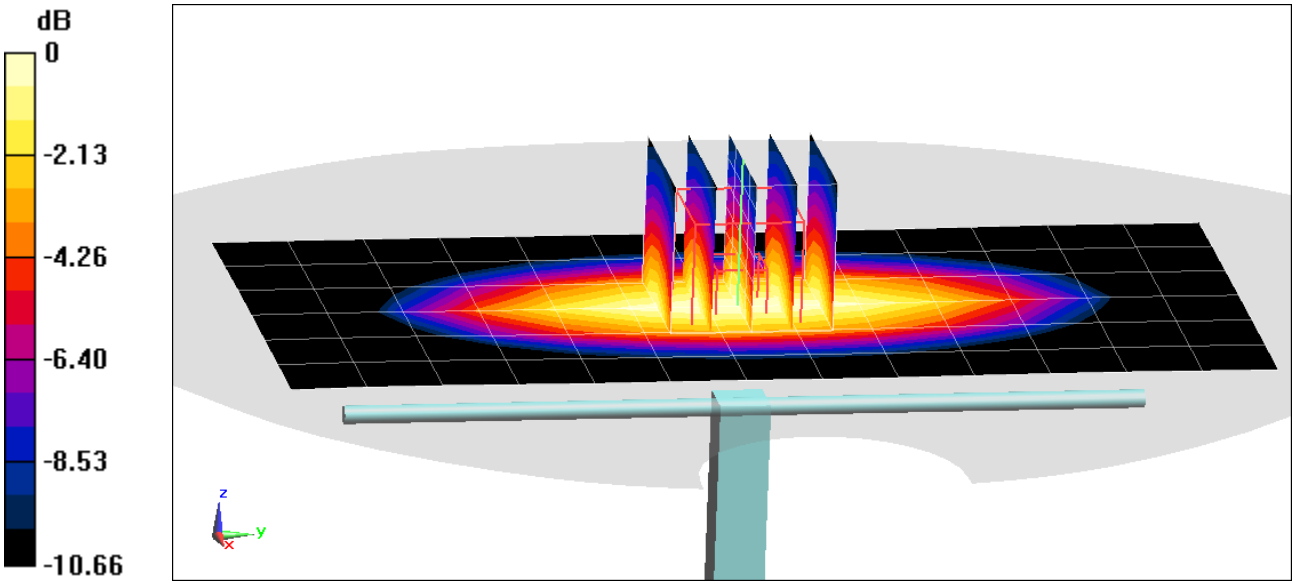
Communication System: UID 0, CW; Frequency: 850 MHz; Duty Cycle: 1:1
Medium: 835 Body Medium parameters used:
f = 850 MHz; σ = 0.994 S/m; ε_r = 52.773; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 850 MHz; Calibrated: 3/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/19/2020
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

850 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 3.16 W/kg
SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.39 W/kg
Deviation(1 g) = 3.92%



0 dB = 2.83 W/kg = 4.52 dBW/kg

DUT: Dipole 850 MHz; Type: D850V2; Serial: 1010

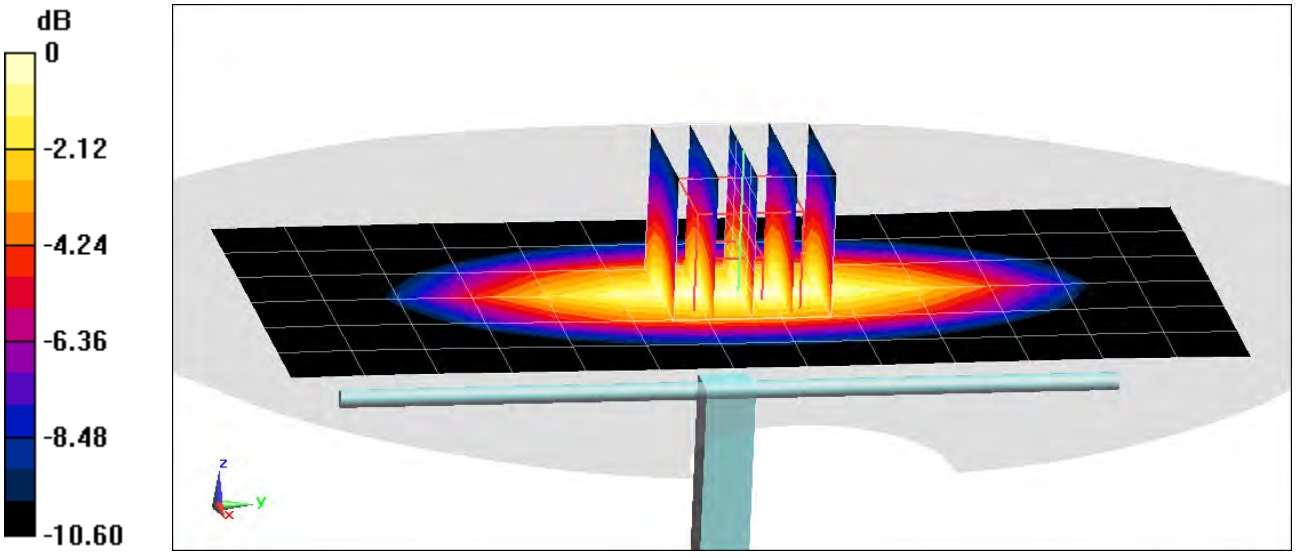
Communication System: UID 0, CW; Frequency: 850 MHz; Duty Cycle: 1:1
Medium: 835 Body Medium parameters used:
f = 850 MHz; σ = 0.999 S/m; ε_r = 53.519; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.5 cm

Test Date: 07-29-2020; Ambient Temp: 22.7°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN7421; ConvF(9.42, 9.42, 9.42) @ 850 MHz; Calibrated: 3/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/19/2020
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

850 MHz System Verification at 23.0 dBm (200 mW)

Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 3.16 W/kg
SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.39 W/kg
Deviation(1 g) = 3.92%



0 dB = 2.82 W/kg = 4.50 dBW/kg

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1104

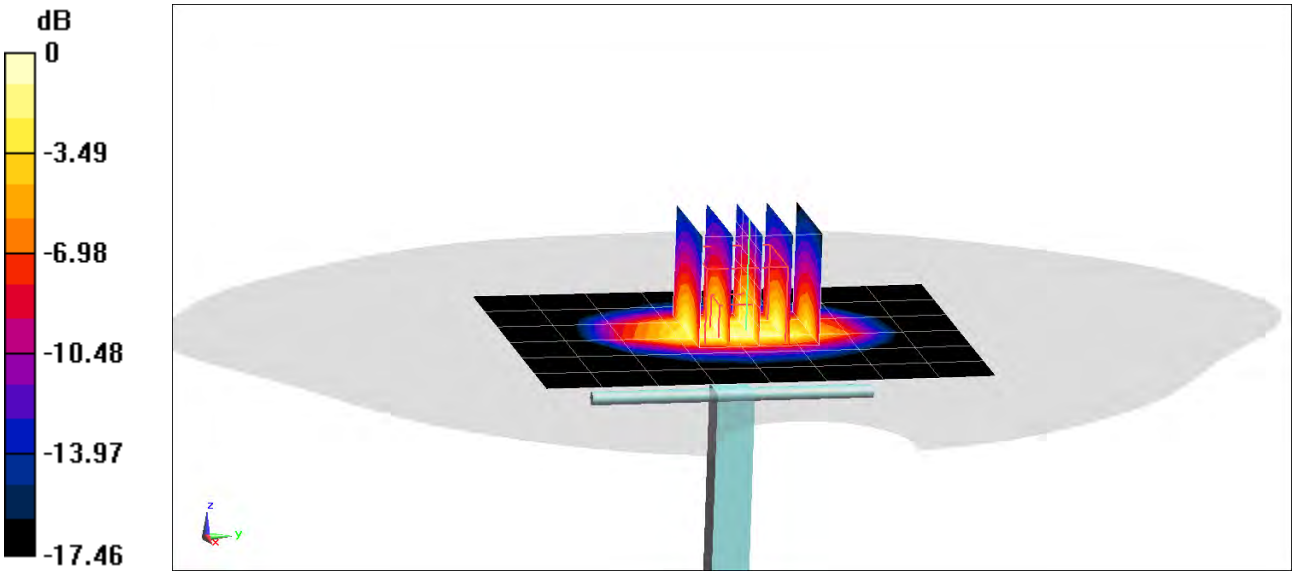
Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1
Medium: 1750 Body Medium parameters used:
f = 1750 MHz; σ = 1.487 S/m; ε_r = 51.262; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-30-2020; Ambient Temp: 23.3°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7427; ConvF(7.92, 7.92, 7.92) @ 1750 MHz; Calibrated: 2/19/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1403; Calibrated: 2/13/2020
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 7.05 W/kg
SAR(1 g) = 3.95 W/kg; SAR(10 g) = 2.09 W/kg
Deviation(1 g) = 7.92%



0 dB = 5.93 W/kg = 7.73 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1104

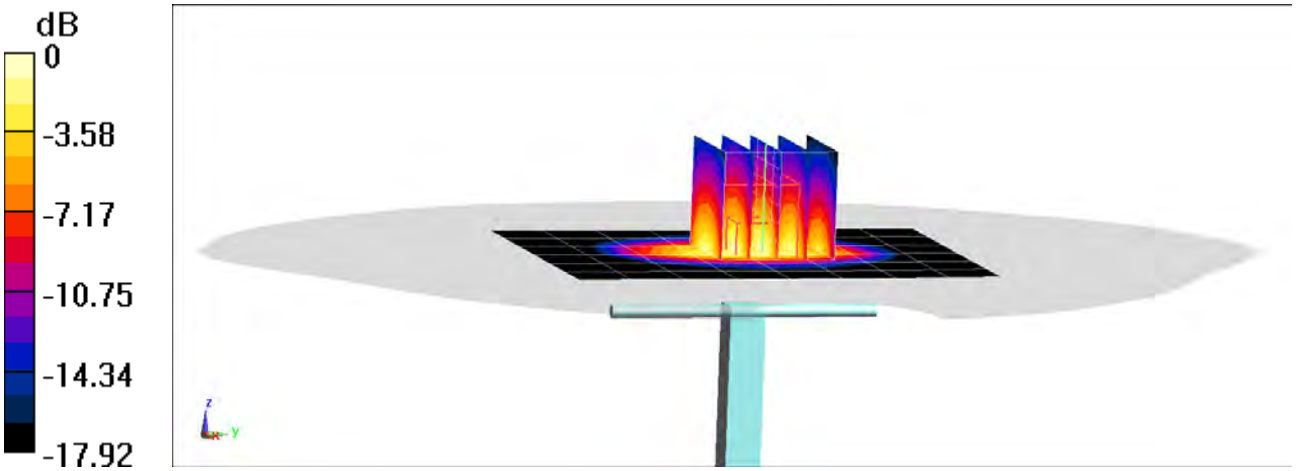
Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1
Medium: 1750 Body Medium parameters used:
f = 1750 MHz; σ = 1.5 S/m; ε_r = 51.199; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-03-2020; Ambient Temp: 22.9°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7427; ConvF(7.92, 7.92, 7.92) @ 1750 MHz; Calibrated: 2/19/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1403; Calibrated: 2/13/2020
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 7.01 W/kg
SAR(1 g) = 3.9 W/kg; SAR(10 g) = 2.06 W/kg
Deviation(1 g) = 6.56%



0 dB = 5.85 W/kg = 7.67 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1092

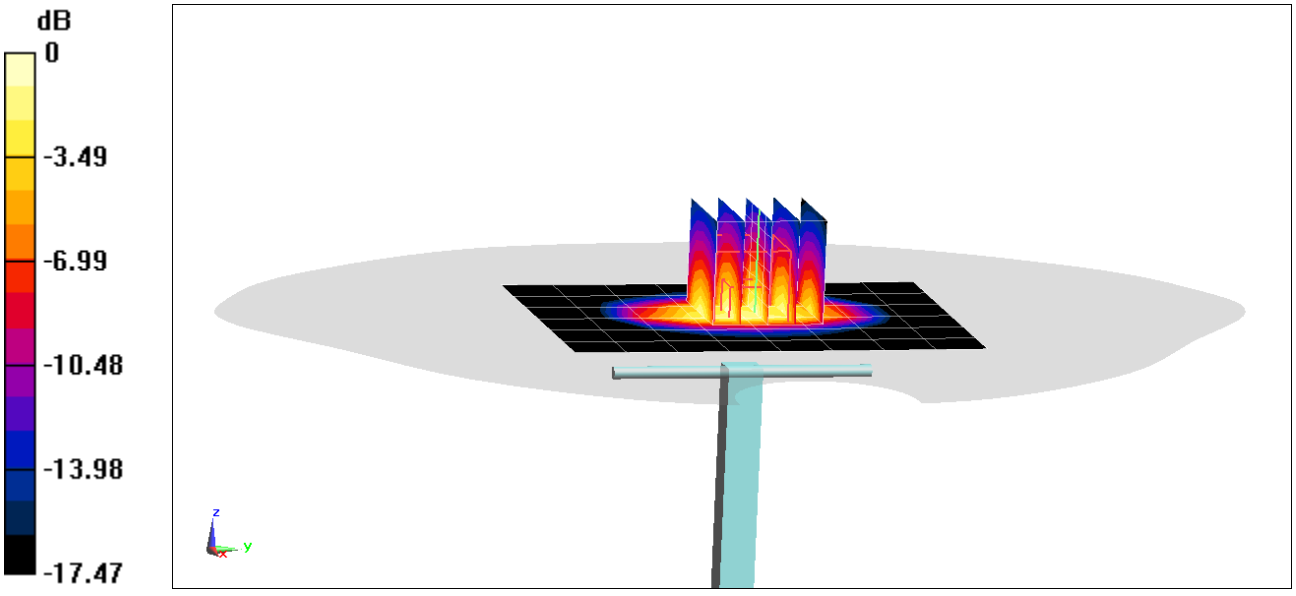
Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1
Medium: 1750 Body Medium parameters used:
f = 1750 MHz; σ = 1.498 S/m; ε_r = 51.555; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-13-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.0°C

Probe: EX3DV4 - SN7427; ConvF(7.92, 7.92, 7.92) @ 1750 MHz; Calibrated: 2/19/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1403; Calibrated: 2/13/2020
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CD; Serial: 1736
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 6.85 W/kg
SAR(1 g) = 3.83 W/kg; SAR(10 g) = 2.04 W/kg
Deviation(1 g) = 5.22%



0 dB = 5.73 W/kg = 7.58 dBW/kg

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d181

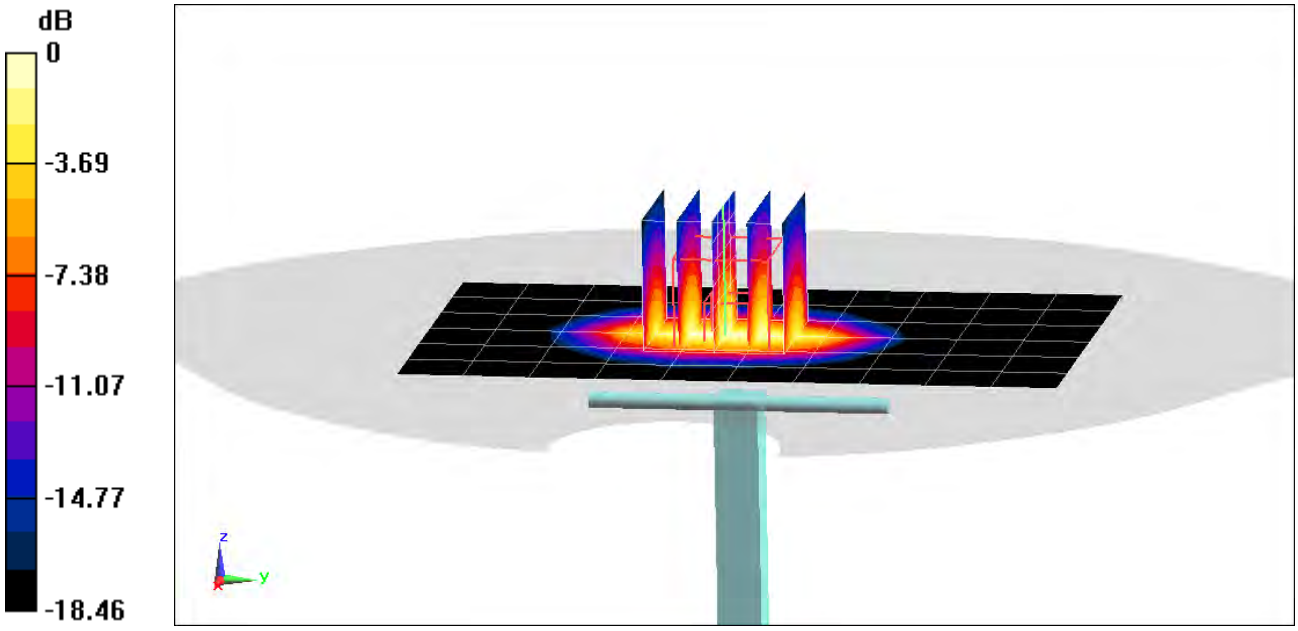
Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: 1900 Body Medium parameters used (interpolated):
f = 1900 MHz; σ = 1.585 S/m; ε_r = 51.603; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-28-2020; Ambient Temp: 22.1°C; Tissue Temp: 23.5°C

Probe: EX3DV4 - SN7490; ConvF(8.22, 8.22, 8.22) @ 1900 MHz; Calibrated: 12/13/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1532; Calibrated: 12/5/2019
Phantom: Twin-SAM V4.0 SUB; Type: QD 000 P40 CC; Serial: 1403
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 7.16 W/kg
SAR(1 g) = 3.93 W/kg; SAR(10 g) = 2.01 W/kg
Deviation(1 g) = -0.51%



0 dB = 6.11 W/kg = 7.86 dBW/kg

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d181

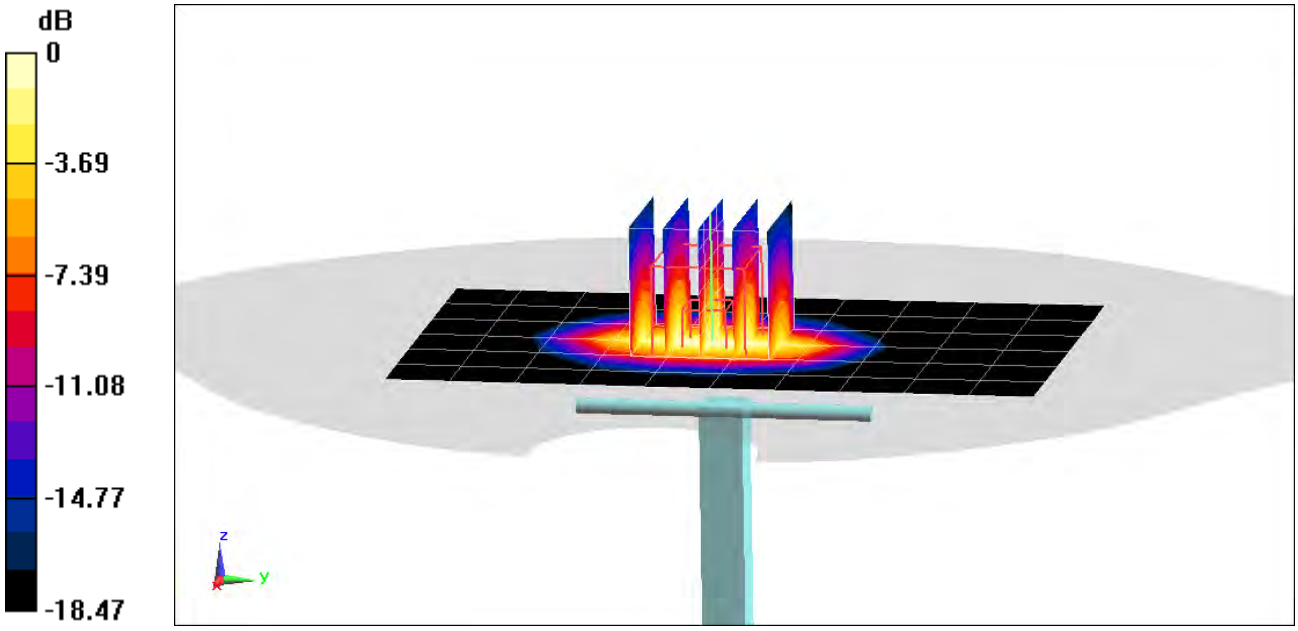
Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: 1900 Body Medium parameters used (interpolated):
f = 1900 MHz; σ = 1.584 S/m; ε_r = 51.807; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-07-2020; Ambient Temp: 22.5°C; Tissue Temp: 24.0°C

Probe: EX3DV4 - SN7490; ConvF(8.22, 8.22, 8.22) @ 1900 MHz; Calibrated: 12/13/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1532; Calibrated: 12/5/2019
Phantom: Twin-SAM V4.0 SUB; Type: QD 000 P40 CC; Serial: 1403
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 7.02 W/kg
SAR(1 g) = 3.88 W/kg; SAR(10 g) = 2.02 W/kg
Deviation(1 g) = -1.77%



0 dB = 5.99 W/kg = 7.77 dBW/kg

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d030

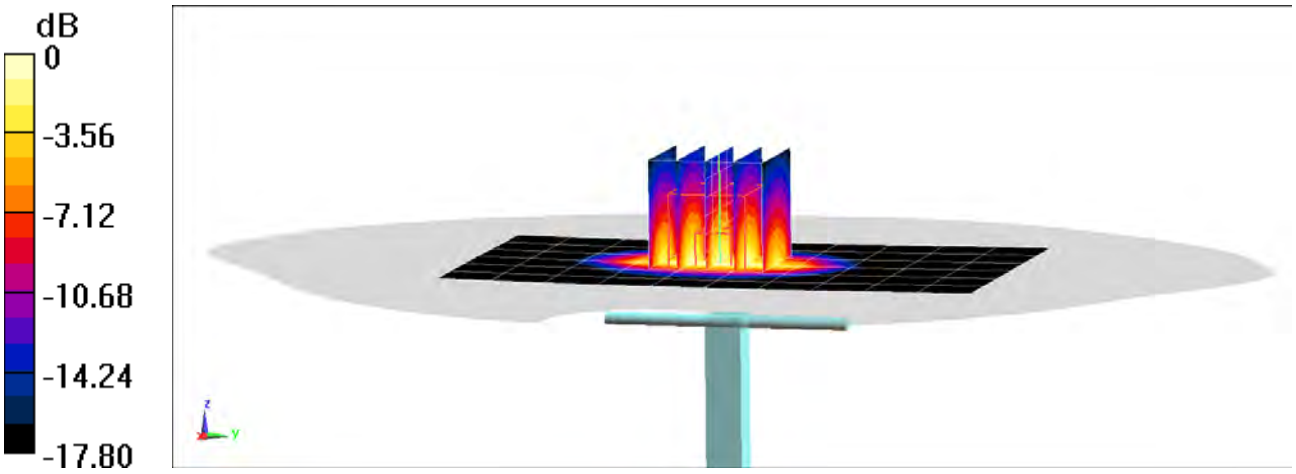
Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: 1900 Body Medium parameters used (interpolated):
f = 1900 MHz; σ = 1.529 S/m; ε_r = 51.776; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-09-2020; Ambient Temp: 20.5°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN3837; ConvF(7.68, 7.68, 7.68) @ 1900 MHz; Calibrated: 1/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 1/14/2020
Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Peak SAR (extrapolated) = 7.89 W/kg
SAR(1 g) = 4.29 W/kg; SAR(10 g) = 2.21 W/kg
Deviation(1 g) = 7.52%



0 dB = 6.69 W/kg = 8.25 dBW/kg

DUT: Dipole 2300 MHz; Type: D2300V3; Serial: 1038

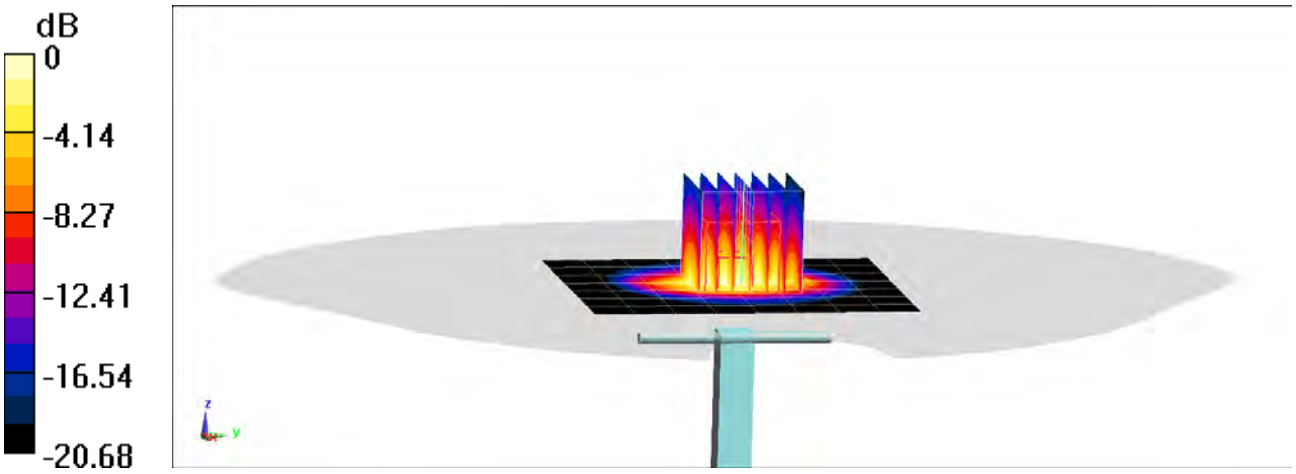
Communication System: UID 0, CW; Frequency: 2300 MHz; Duty Cycle: 1:1
Medium: 2300 Body Medium parameters used:
f = 2300 MHz; σ = 1.839 S/m; ε_r = 52.314; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-27-2020; Ambient Temp: 22.5°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7416; ConvF(7.48, 7.48, 7.48) @ 2300 MHz; Calibrated: 6/22/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/11/2020
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2300 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 9.67 W/kg
SAR(1 g) = 4.97 W/kg; SAR(10 g) = 2.37 W/kg
Deviation(1 g) = 6.42%



0 dB = 7.94 W/kg = 9.00 dBW/kg

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

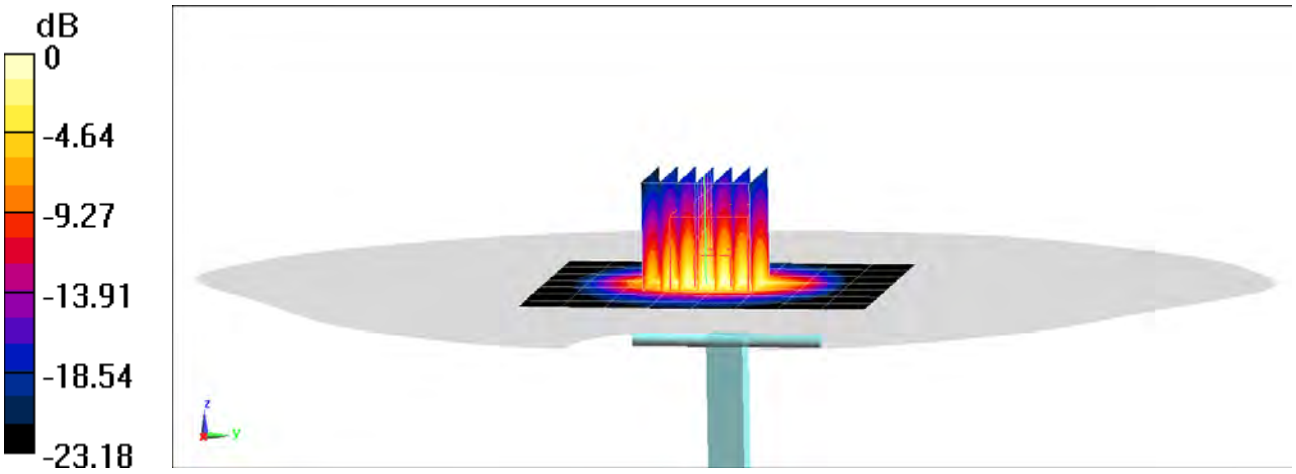
Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: 2450 Body Medium parameters used:
f = 2450 MHz; σ = 2.021 S/m; ε_r = 51.976; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-31-2020; Ambient Temp: 21.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2450 MHz; Calibrated: 6/22/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/11/2020
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 10.5 W/kg
SAR(1 g) = 5.01 W/kg; SAR(10 g) = 2.27 W/kg
Deviation(1 g) = -1.38%



0 dB = 8.35 W/kg = 9.22 dBW/kg

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 750

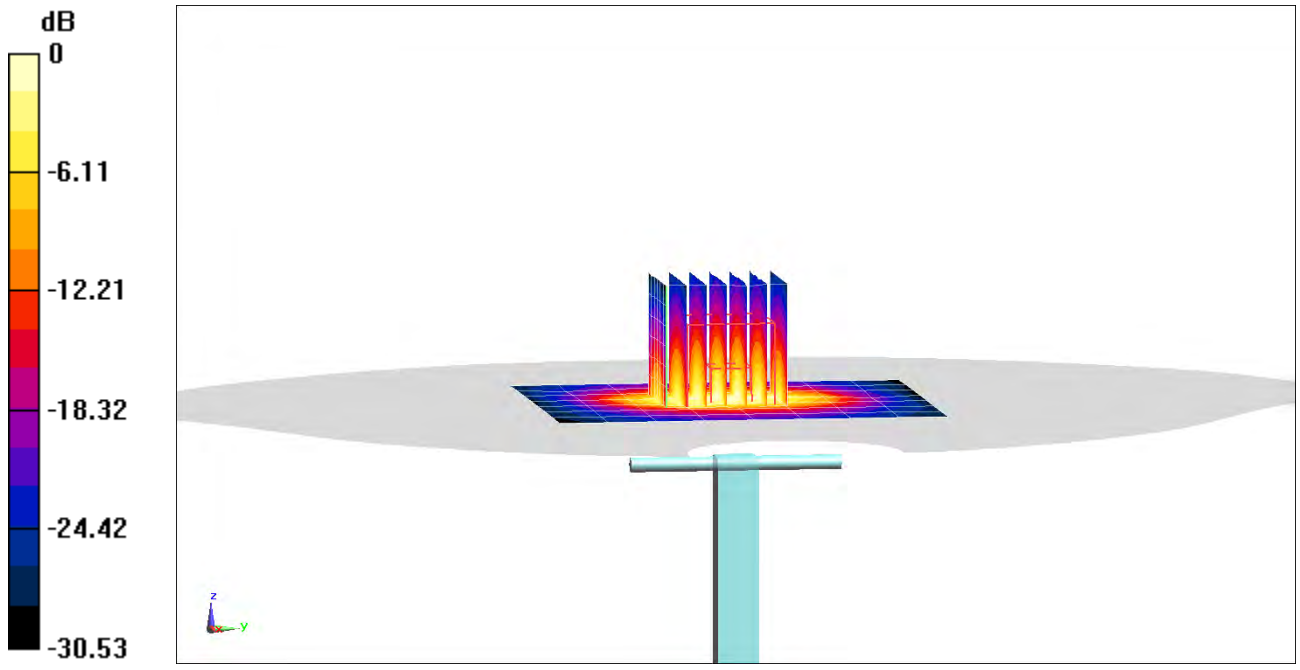
Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: 2450 Body Medium parameters used:
f = 2450 MHz; σ = 2.018 S/m; ε_r = 51.87; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-05-2020; Ambient Temp: 20.8°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2450 MHz; Calibrated: 6/22/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/11/2020
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 10.5 W/kg
SAR(1 g) = 4.93 W/kg; SAR(10 g) = 2.24 W/kg
Deviation(1 g) = -3.33%



0 dB = 7.36 W/kg = 8.67 dBW/kg

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 945

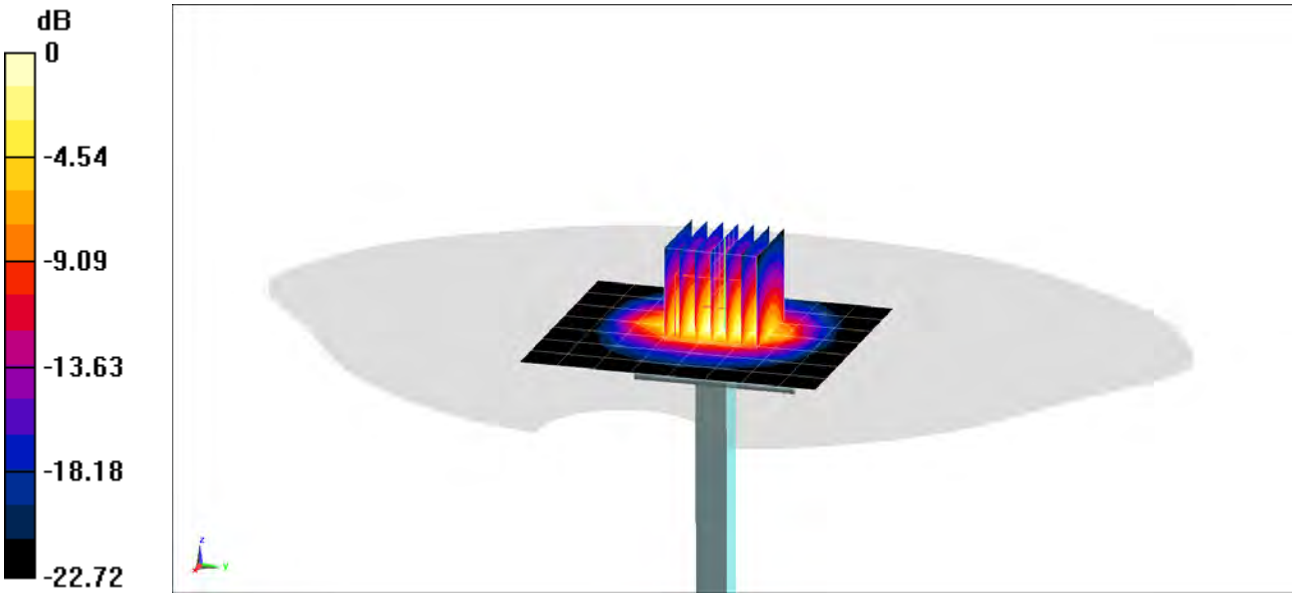
Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: 2450 Body Medium parameters used:
f = 2450 MHz; σ = 2.029 S/m; ε_r = 50.436; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-10-2020; Ambient Temp: 22.4°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7532; ConvF(7.51, 7.51, 7.51) @ 2450 MHz; Calibrated: 4/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn501; Calibrated: 4/15/2020
Phantom: Twin-SAM V8.0_Left; Type: QD 000 P41 AA; Serial: 1935
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 10.8 W/kg
SAR(1 g) = 5.17 W/kg; SAR(10 g) = 2.37 W/kg
Deviation(1 g) = 4.66%



0 dB = 8.60 W/kg = 9.34 dBW/kg

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 750

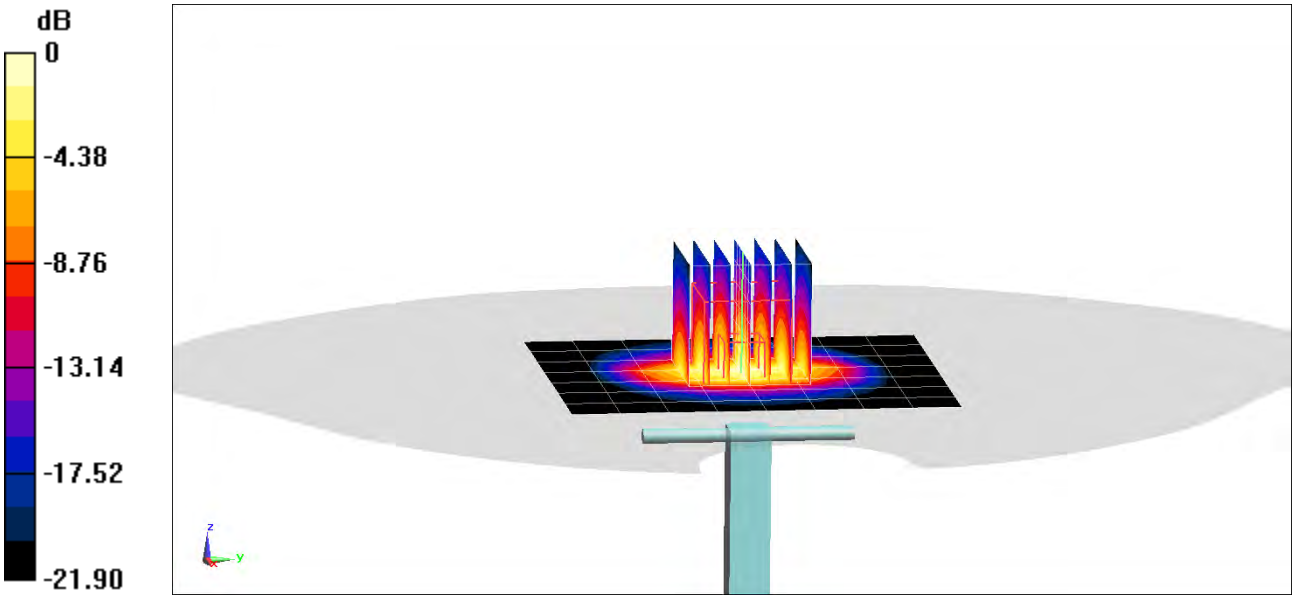
Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: 2450 Body Medium parameters used:
f = 2450 MHz; σ = 2.014 S/m; ε_r = 51.611; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-13-2020; Ambient Temp: 22.1°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7416; ConvF(7.28, 7.28, 7.28) @ 2450 MHz; Calibrated: 6/22/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/11/2020
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 10.5 W/kg
SAR(1 g) = 5.09 W/kg; SAR(10 g) = 2.33 W/kg
Deviation(1 g) = -0.20%



0 dB = 8.56 W/kg = 9.32 dBW/kg

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1069

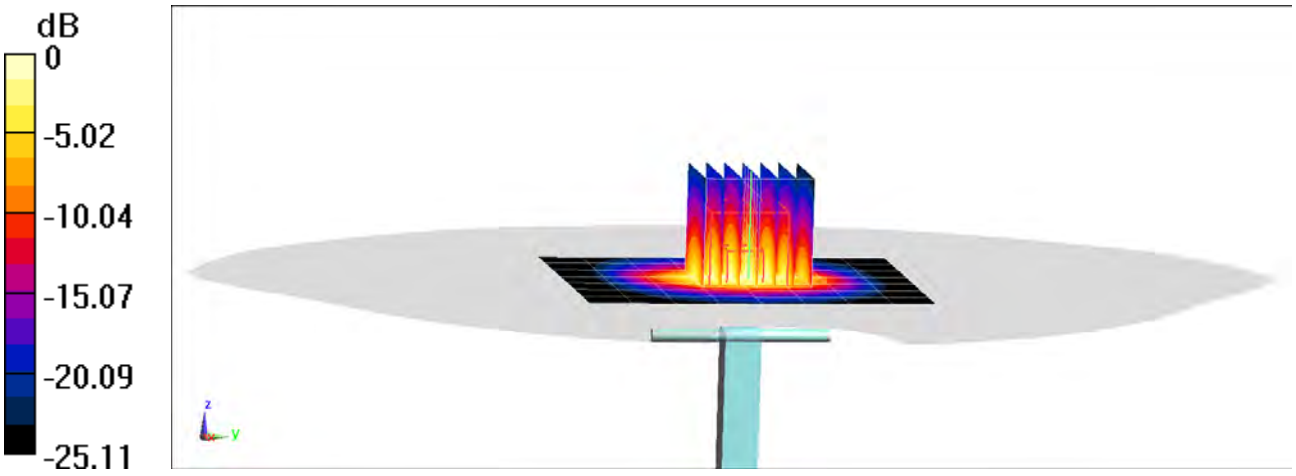
Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1
Medium: 2450 Body Medium parameters used:
f = 2600 MHz; σ = 2.238 S/m; ε_r = 51.373; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07-31-2020; Ambient Temp: 21.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7416; ConvF(7.23, 7.23, 7.23) @ 2600 MHz; Calibrated: 6/22/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/11/2020
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2600 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 12.1 W/kg
SAR(1 g) = 5.38 W/kg; SAR(10 g) = 2.33 W/kg
Deviation(1 g) = -2.71%



0 dB = 9.39 W/kg = 9.73 dBW/kg

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1042

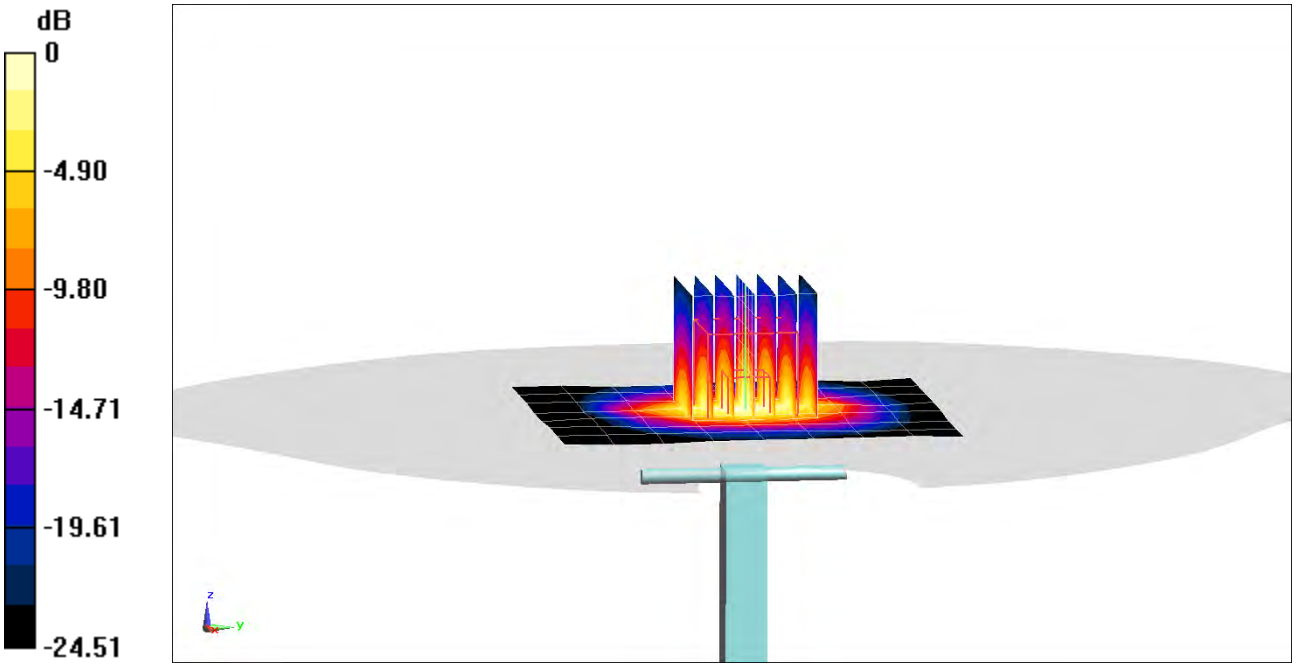
Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1
Medium: 2450 Body Medium parameters used:
f = 2600 MHz; σ = 2.236 S/m; ε_r = 51.284; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-05-2020; Ambient Temp: 20.8°C; Tissue Temp: 19.8°C

Probe: EX3DV4 - SN7416; ConvF(7.23, 7.23, 7.23) @ 2600 MHz; Calibrated: 6/22/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 6/11/2020
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2600 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 11.9 W/kg
SAR(1 g) = 5.35 W/kg; SAR(10 g) = 2.32 W/kg
Deviation(1 g) = -3.08%



0 dB = 9.41 W/kg = 9.74 dBW/kg

PCTEST

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: 1055

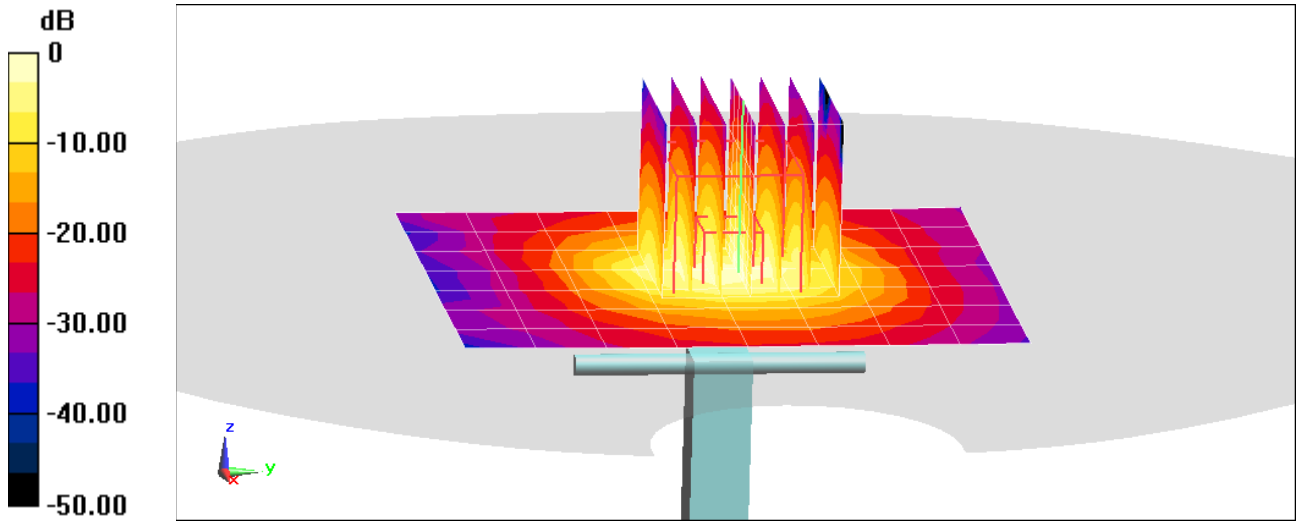
Communication System: UID 0, CW; Frequency: 3500 MHz; Duty Cycle: 1:1
Medium: 3500-3700 Body Medium parameters used:
f = 3500 MHz; σ = 3.405 S/m; ε_r = 49.874; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-03-2020; Ambient Temp: 19.5°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7421; ConvF(6.72, 6.72, 6.72) @ 3500 MHz; Calibrated: 3/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/19/2020
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

3500 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 16.0 W/kg
SAR(1 g) = 6.17 W/kg; SAR(10 g) = 2.27 W/kg
Deviation(1 g) = -5.08%



0 dB = 11.8 W/kg = 10.72 dBW/kg

PCTEST

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: 1002

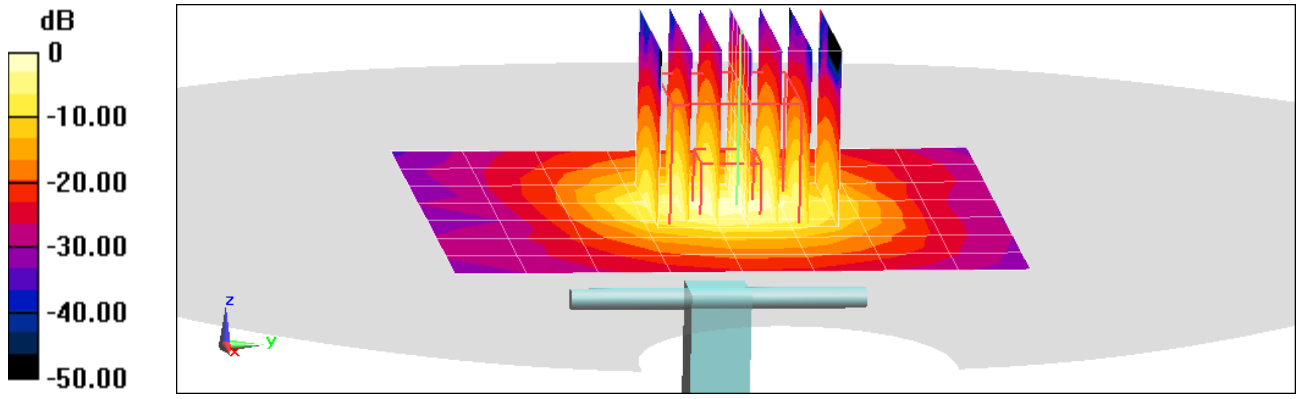
Communication System: UID 0, CW; Frequency: 3700 MHz; Duty Cycle: 1:1
Medium: 3500-3700 Body Medium parameters used (interpolated):
f = 3700 MHz; σ = 3.624 S/m; ε_r = 49.573; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-03-2020; Ambient Temp: 19.5°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7421; ConvF(6.57, 6.57, 6.57) @ 3700 MHz; Calibrated: 3/20/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn604; Calibrated: 3/19/2020
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

3700 MHz System Verification at 20.0 dBm (100 mW)

Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=1.4mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 16.4 W/kg
SAR(1 g) = 6.21 W/kg; SAR(10 g) = 2.19 W/kg
Deviation(1 g) = -4.02%



0 dB = 12.2 W/kg = 10.86 dBW/kg

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

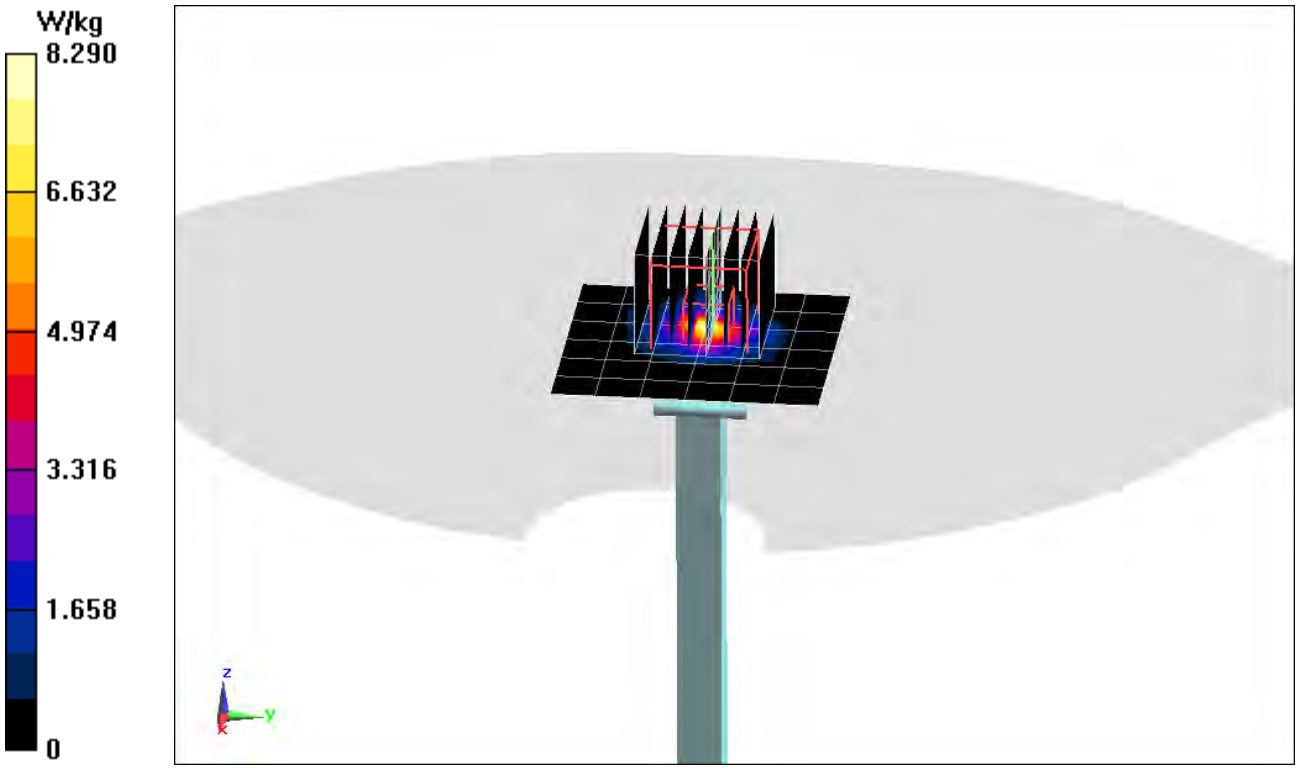
Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1
Medium: 5 GHz Body Medium parameters used (interpolated):
f = 5250 MHz; σ = 5.522 S/m; ε_r = 47.854; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-18-2020; Ambient Temp: 21.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7420; ConvF(4.8, 4.8, 4.8) @ 5250 MHz; Calibrated: 11/21/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1213; Calibrated: 11/13/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5250 MHz System Verification at 17.0 dBm (50 mW)

Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 14.3 W/kg
SAR(1 g) = 3.48 W/kg; SAR(10 g) = 0.966 W/kg
Deviation(1 g) = -5.95%



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DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

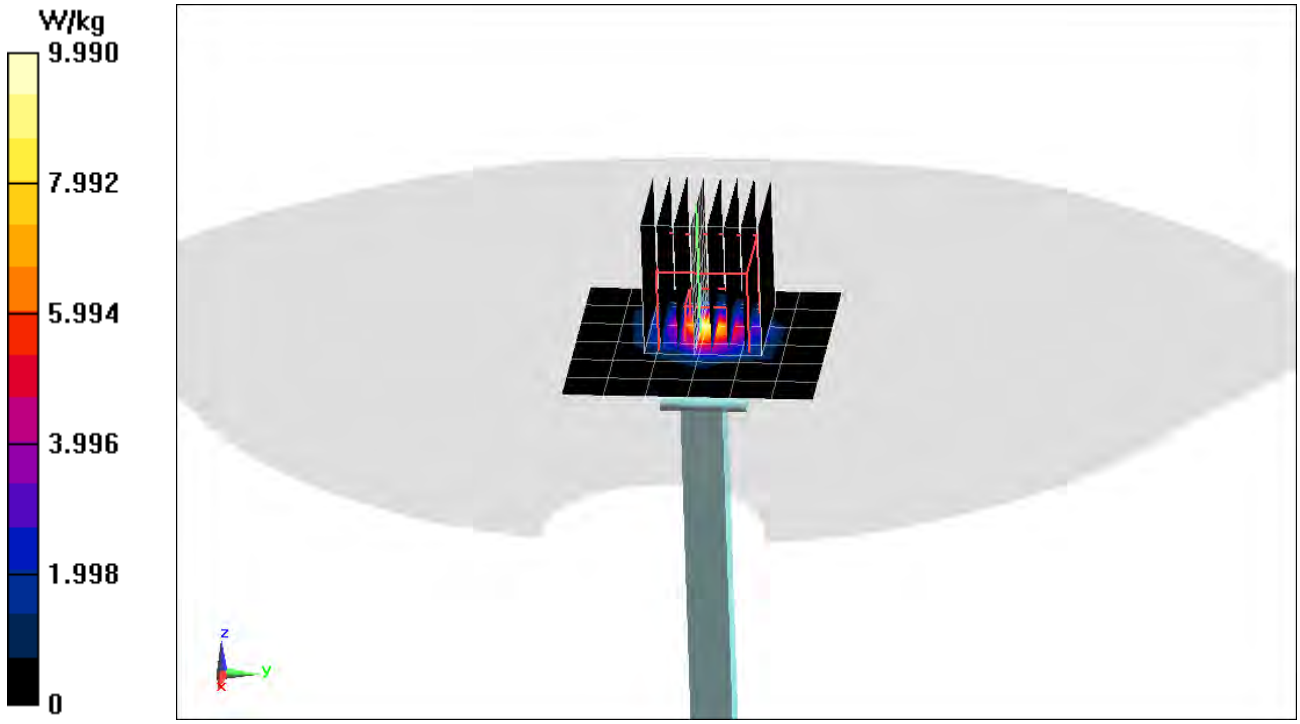
Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1
Medium: 5 GHz Body Medium parameters used:
f = 5600 MHz; σ = 6.003 S/m; ε_r = 47.257; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-18-2020; Ambient Temp: 21.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7420; ConvF(4.1, 4.1, 4.1) @ 5600 MHz; Calibrated: 11/21/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1213; Calibrated: 11/13/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5600 MHz System Verification at 17.0 dBm (50 mW)

Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 18.4 W/kg
SAR(1 g) = 4 W/kg; SAR(10 g) = 1.12 W/kg
Deviation(1 g) = 3.09%



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DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

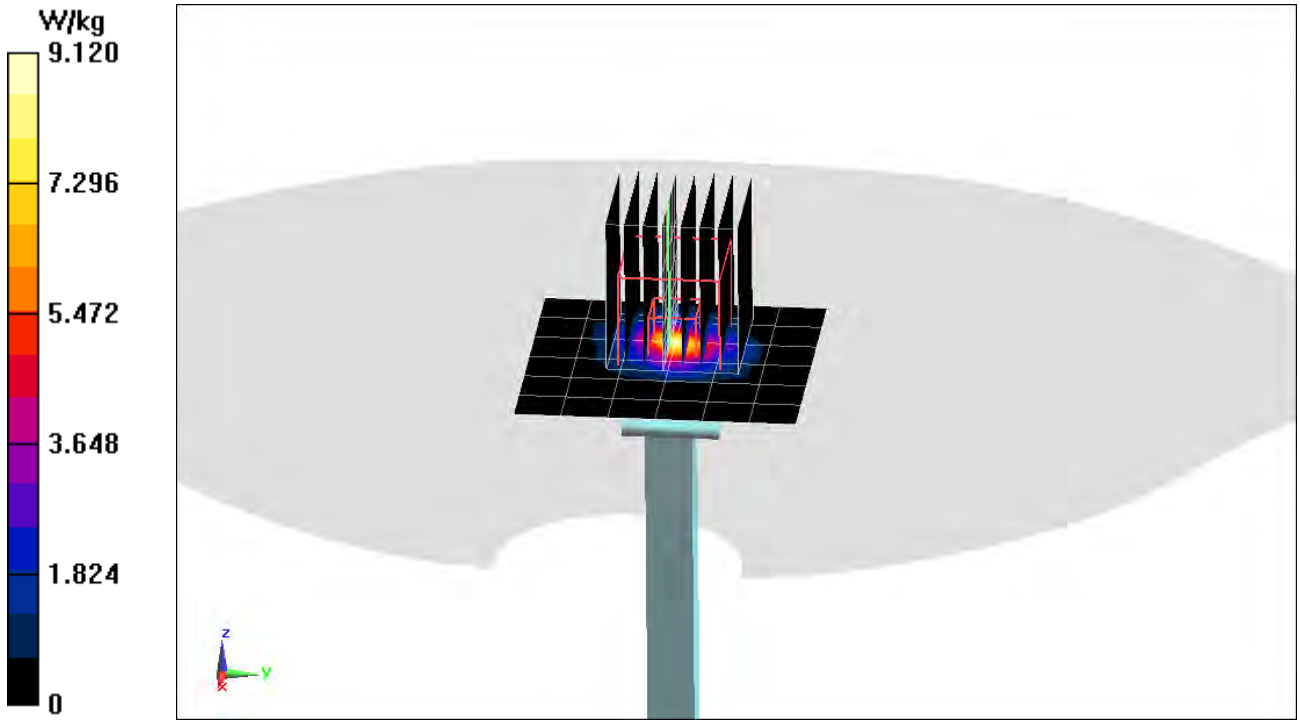
Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1
Medium: 5 GHz Body Medium parameters used (interpolated):
f = 5750 MHz; σ = 6.202 S/m; ε_r = 46.984; ρ = 1000 kg/m^3
Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08-18-2020; Ambient Temp: 21.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7420; ConvF(4.28, 4.28, 4.28) @ 5750 MHz; Calibrated: 11/21/2019
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1213; Calibrated: 11/13/2019
Phantom: Twin-SAM V4.0; Type: QD 000 P40 CA; Serial: 1275
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5750 MHz System Verification at 17.0 dBm (50 mW)

Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4
Peak SAR (extrapolated) = 17.1 W/kg
SAR(1 g) = 3.53 W/kg; SAR(10 g) = 0.974 W/kg
Deviation(1 g) = -5.49%



APPENDIX C: SAR TISSUE SPECIFICATIONS

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Measurement Procedure for Tissue verification:

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

$$Y = \frac{j2\omega\varepsilon_r\varepsilon_0}{\left[\ln(b/a)\right]^2}\int_a^b\int_a^b\int_0^\pi \cos\phi' \frac{\exp\left[-j\omega r(\mu_0\varepsilon_r^{'}\varepsilon_0)^{1/2}\right]}{r} d\phi' d\rho' d\rho$$

where *Y* is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

3 Composition / Information on ingredients

3.2 Mixtures
Description: Aqueous solution with surfactants and inhibitors
Declarable, or hazardous components:

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

Additional information:
For the wording of the listed risk phrases refer to section 16.
Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential.
The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

Figure C-1

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

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Schmid & Partner Engineering AG

s p e a g

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

Measurement Certificate / Material Test

Item Name	**Body Tissue Simulating Liquid (MBBL600-6000V6)**
Product No.	SL AAM U16 BC (Batch: 181029-1)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the KDB 865664 compliance standard.

Test Condition

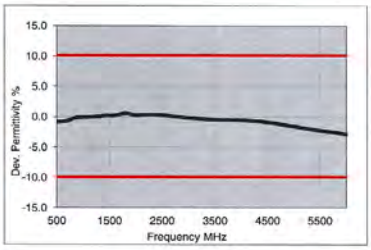
Ambient Condition	22°C ; 30% humidity
TSL Temperature	22°C
Test Date	30-Oct-18
Operator	CL

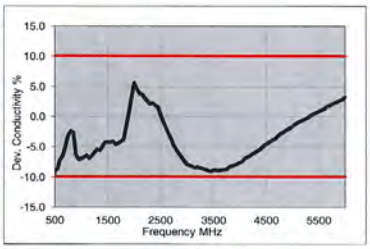
Additional Information

TSL Density
TSL Heat-capacity

Results

	Measured			Target		Diff.to Target [%]	
f [MHz]	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
800	55.1	21.3	0.95	55.3	0.97	-0.4	-2.1
825	55.1	20.8	0.96	55.2	0.98	-0.3	-2.0
835	55.1	20.6	0.96	55.1	0.99	0.0	-2.5
850	55.1	20.4	0.96	55.2	0.99	-0.1	-3.0
900	55.0	19.7	0.98	55.0	1.05	0.0	-6.7
1400	54.2	15.6	1.22	54.1	1.28	0.2	-4.7
1450	54.1	15.4	1.24	54.0	1.30	0.2	-4.6
1500	54.1	15.3	1.27	53.9	1.33	0.3	-4.5
1550	54.0	15.1	1.30	53.9	1.36	0.2	-4.4
1600	53.9	15.0	1.33	53.8	1.39	0.2	-4.3
1625	53.9	14.9	1.35	53.8	1.41	0.3	-4.3
1640	53.9	14.9	1.36	53.7	1.42	0.3	-4.2
1650	53.8	14.9	1.36	53.7	1.43	0.2	-4.9
1700	53.8	14.8	1.40	53.6	1.46	0.4	-4.1
1750	53.7	14.7	1.43	53.4	1.49	0.5	-4.0
1800	53.7	14.6	1.46	53.3	1.52	0.8	-3.9
1810	53.7	14.6	1.47	53.3	1.52	0.8	-3.3
1825	53.7	14.6	1.48	53.3	1.52	0.8	-2.6
1850	53.6	14.5	1.50	53.3	1.52	0.6	-1.3
1900	53.5	14.5	1.53	53.3	1.52	0.4	0.7
1950	53.5	14.5	1.57	53.3	1.52	0.4	3.3
2000	53.4	14.4	1.60	53.3	1.52	0.2	5.3
2050	53.4	14.4	1.64	53.2	1.57	0.3	4.5
2100	53.3	14.4	1.68	53.2	1.62	0.2	3.7
2150	53.3	14.4	1.72	53.1	1.66	0.4	3.6
2200	53.2	14.4	1.76	53.0	1.71	0.3	2.9
2250	53.1	14.4	1.81	53.0	1.76	0.2	2.8
2300	53.1	14.4	1.85	52.9	1.81	0.4	2.2
2350	53.0	14.5	1.89	52.8	1.85	0.3	2.2
2400	52.9	14.5	1.94	52.8	1.90	0.2	2.1
2450	52.9	14.5	1.98	52.7	1.95	0.4	1.5
2500	52.8	14.6	2.03	52.6	2.02	0.3	0.5
2550	52.7	14.6	2.07	52.6	2.09	0.2	-1.0
2600	52.6	14.7	2.12	52.5	2.16	0.2	-1.9





3500	51.1	15.5	3.02	51.3	3.31	-0.4	-8.8
3700	50.8	15.7	3.24	51.1	3.55	-0.5	-8.8
5200	48.1	18.2	5.27	49.0	5.30	-1.8	-0.6
5250	48.0	18.3	5.34	49.0	5.36	-1.9	-0.4
5300	47.9	18.4	5.41	48.9	5.42	-2.0	-0.2
5500	47.5	18.6	5.70	48.6	5.65	-2.2	0.8
5600	47.3	18.8	5.84	48.5	5.77	-2.3	1.3
5700	47.1	18.9	5.99	48.3	5.88	-2.5	1.8
5800	47.0	19.0	6.14	48.2	6.00	-2.6	2.3

TSL Dielectric Parameters

1

Figure C-2
600 – 5800 MHz Body Tissue Equivalent Matter

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APPENDIX D: SAR SYSTEM VALIDATION

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

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

Table D-1
SAR System Validation Summary – 1g

SAR SYSTEM #	FREQ. [MHz]	DATE	PROBE SN	PROBE CAL. POINT		COND.	PERM.	CW VALIDATION			MOD. VALIDATION		
						(σ)	(εr)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM8	750	5/27/2020	7532	750	Body	0.942	52.946	PASS	PASS	PASS	N/A	N/A	N/A
AM6	835	3/10/2020	3837	835	Body	0.992	54.144	PASS	PASS	PASS	GMSK	PASS	N/A
AM4	835	4/22/2020	7421	835	Body	0.992	54.556	PASS	PASS	PASS	GMSK	PASS	N/A
AM1	1750	4/10/2020	7427	1750	Body	1.483	52.520	PASS	PASS	PASS	N/A	N/A	N/A
AM7	1900	5/13/2020	7490	1900	Body	1.582	50.652	PASS	PASS	PASS	GMSK	PASS	N/A
AM6	1900	3/4/2020	3837	1900	Body	1.583	51.670	PASS	PASS	PASS	GMSK	PASS	N/A
AM5	2300	7/6/2020	7416	2300	Body	1.793	52.460	PASS	PASS	PASS	N/A	N/A	N/A
AM5	2450	7/6/2020	7416	2450	Body	1.996	51.990	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM8	2450	5/27/2020	7532	2450	Body	2.019	50.220	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM5	2600	7/6/2020	7416	2600	Body	2.226	51.419	PASS	PASS	PASS	TDD	PASS	N/A
AM4	3500	5/11/2020	7421	3500	Body	3.389	50.340	PASS	PASS	PASS	TDD	PASS	N/A
AM4	3700	5/11/2020	7421	3700	Body	3.660	49.710	PASS	PASS	PASS	TDD	PASS	N/A
AM2	5250	12/3/2019	7420	5250	Body	5.500	48.380	PASS	PASS	PASS	OFDM	N/A	PASS
AM2	5600	12/3/2019	7420	5600	Body	5.974	47.790	PASS	PASS	PASS	OFDM	N/A	PASS
AM2	5750	12/3/2019	7420	5750	Body	6.180	47.556	PASS	PASS	PASS	OFDM	N/A	PASS

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

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