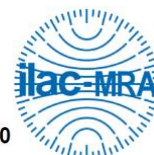




中国认可
国际互认
检测
TESTING
CNAS L0310



FCC SAR Compliance Test Report

Product Name: Smart Phone

Model: LYA-L0C

Report No.: SYBH(Z-SAR)20180808003001-2

FCC ID: QISLYA-L0C

	APPROVED (Lab Manager)	PREPARED (Test Engineer)
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DATE	2018-09-19	2018-09-19

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※ ※ Modified History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	2018-09-19	Shan Xiaofeng

1 General Information

1.1 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for LYA-L0C are as below Table 1.

Band	Max Reported SAR(W/kg)			
	1-g Head	1-g Body-worn (15mm) *	1-g Hotspot (10mm)	Product Specific 10-g SAR (0mm)**
GSM850	0.42	0.24	0.52	/
GSM1900	0.35	0.37	0.50	2.37
UMTS Band II	0.53	0.81	0.77	3.17
UMTS Band IV	0.23	0.94	0.78	2.95
UMTS Band V	0.56	0.27	0.30	/
LTE Band 2	0.25	0.32	0.57	2.52
LTE Band 4	0.37	0.95	0.69	3.05
LTE Band 5	0.52	0.28	0.46	/
LTE Band 7	0.52	0.43	0.88	1.02
LTE Band 12	0.55	0.25	0.43	/
LTE Band 17	/	/	/	/
LTE Band 26	0.58	0.32	0.40	/
LTE Band 38	0.42	0.18	0.57	/
LTE Band 41	0.46	0.24	0.64	/
LTE Band 66	0.55	0.95	0.54	2.57
WiFi 2.4G	0.32	0.14	0.33	/
WiFi 5G	0.31	0.48	0.40	1.25
BT	0.10	0.02	/	0.17
The highest reported SAR for Head, Body Worn, Hotspot, Simultaneous transmission and Product Specific 10-g SAR exposure conditions are 0.58 W/kg, 0.95 W/kg, 0.88 W/kg, 1.57W/kg and 3.17 W/kg respectively per KDB690783 D01.				

Table 1:Summary of test result

Note:

- 1)* For body worn operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and that positions the handset a minimum of 15mm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.
- 2)** For Product Specific 10-g SAR operation, this device has been tested and meets the 10-g SAR limits of 4.0 W/kg for general population/ uncontrolled exposure according to ANSI C95.1:1992/IEEE C95.1:1991
- 3) According to TCB workshop October,2014 RF Exposure Procedures Update(Overlapping LTE Bands):Main and Second Antenna SAR for LTE Band 17 (Frequency range:704-716 MHz) is covered by LTE Band 12 (Frequency range:699-716 MHz) due to similar frequency range,same maximum tune up limit and same channel bandwidth.

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits according to the FCC rule §2.1093, the ANSI C95.1:1992/IEEE C95.1:1991, the NCRP Report Number 86 for uncontrolled environment, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013.

1.2 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain/Body/Arms/Legs)	1.60 W/kg	8.00 W/kg
Spatial Average SAR** (Whole Body)	0.08 W/kg	0.40 W/kg
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 W/kg	20.00 W/kg

Table 2: RF exposure limits

The limit applied in this test report is shown in **bold** letters

Notes:

- * 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.
- ** The Spatial Average value of the SAR averaged over the whole body.
- *** 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.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

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

1.3 EUT Description

Device Information:			
Product Name:	Smart Phone		
Model:	LYA-L0C		
FCC ID :	QISLYA-L0C		
SN:	KBV0118804000193 KBV0118804000066 KBV0118804000063 KBV0118804000013 KBV0118804000144 KBV0118804000340 KBV0118804000255 KBV0118804000178		
Device Type :	Portable device		
Device Phase:	Identical Prototype		
Exposure Category:	Uncontrolled environment / general population		
Hardware Version :	HL2LAYAM		
Software Version :	5.0.1.84(C792E4R1P9)		
Antenna Type :	Internal antenna		
Others Accessories	Headset		
Device Operating Configurations:			
Supporting Mode(s)	GSM850/1900, UMTS Band II/IV/V, LTE Band 2/4/5/7/12/17/26/38/41/66, WiFi 2.4G/5G; BT, NFC		
Test Modulation	GSM(GMSK/8PSK),UMTS(QPSK), LTE(QPSK/16QAM/64QAM), WiFi(DSSS/OFDM),BT(GFSK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM850	824-849	869 - 894
	GSM1900	1850-1910	1930-1990
	UMTS Band II	1850-1910	1930-1990
	UMTS Band IV	1710-1755	2110-2115
	UMTS Band V	824-849	869 - 894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620 -2690
	LTE Band 12	699-716	729-746
	LTE Band 17	704-716	734-746
	LTE Band 26	814-849	859-894
	LTE Band 38	2570-2620	
	LTE Band 41	2545-2655	
	LTE Band 66	1710-1780	2110-2200
	BT	2400-2483.5	
	WiFi 2.4G	2400-2483.5	
	WiFi 5G	5150-5250 5250-5350 5470-5725 5725-5850	
	NFC	13.56	13.56
	Wireless Charging	110kHz-148kHz	

GPRS Multislot Class(12)	Max Number of Timeslots in Uplink:	4
	Max Number of Timeslots in Downlink:	4
	Max Total Timeslot:	5
EGPRS Multislot Class(12)	Max Number of Timeslots in Uplink:	4
	Max Number of Timeslots in Downlink:	4
	Max Total Timeslot:	5
HSDPA UE Category	14	
HSUPA UE Category	6	
DC-HSDPA UE Category	24	
Power Class:	4, tested with power level 5(GSM850)	
	1, tested with power level 0(GSM1900)	
	3, tested with power control "all 1"(UMTS Band II)	
	3, tested with power control "all 1"(UMTS Band IV)	
	3, tested with power control "all 1"(UMTS Band V)	
	3, tested with power control all Max.(LTE Band 2)	
	3, tested with power control all Max.(LTE Band 4)	
	3, tested with power control all Max.(LTE Band 5)	
	3, tested with power control all Max.(LTE Band 7)	
	3, tested with power control all Max.(LTE Band 12)	
	3, tested with power control all Max.(LTE Band 17)	
	3, tested with power control all Max.(LTE Band 26)	
	3, tested with power control all Max.(LTE Band 38)	
	3, tested with power control all Max.(LTE Band 41)	
	3, tested with power control all Max.(LTE Band 66)	
Test Channels (low-mid-high):	128-190-251(GSM850)	
	512-661-810(GSM1900)	
	1312-1413-1513(UMTS Band II)	
	9262-9400-9538(UMTS Band IV)	
	4132-4182-4233(UMTS Band V)	
	18607-18900-19193(LTE Band 2 BW=1.4MHz)	
	18615-18900-19185(LTE Band 2 BW=3MHz)	
	18625-18900-19175(LTE Band 2 BW=5MHz)	
	18650-18900-19150(LTE Band 2 BW=10MHz)	
	18675-18900-19125(LTE Band 2 BW=15MHz)	
	18700-18900-19100(LTE Band 2 BW=20MHz)	
	19957-20175-20393(LTE Band 4 BW=1.4MHz)	
	19965-20175-20385(LTE Band 4 BW=3MHz)	
	19975-20175-20375(LTE Band 4 BW=5MHz)	
	20000-20175-20350(LTE Band 4 BW=10MHz)	
	20025-20175-20325(LTE Band 4 BW=15MHz)	
	20050-20175-20300(LTE Band 4 BW=20MHz)	
	20407-20525-20643(LTE Band 5 BW=1.4MHz)	
	20415-20525-20635(LTE Band 5 BW=3MHz)	
	20425-20525-20625(LTE Band 5 BW=5MHz)	
	20450-20525-20600(LTE Band 5 BW=10MHz)	
	20775-21100-21425(LTE Band 7 BW=5MHz)	
	20800-21100-21400(LTE Band 7 BW=10MHz)	
	20825-21100-21375(LTE Band 7 BW=15MHz)	
	20850-21100-21350(LTE Band 7 BW=20MHz)	
	23017-23095-23173(LTE Band 12 BW=1.4MHz)	
	23025-23095-23165(LTE Band 12 BW=3MHz)	
	23035-23095-23155(LTE Band 12 BW=5MHz)	
	23060-23095-23130(LTE Band 12 BW=10MHz)	

	23755-23790-23825(LTE Band 17 BW=5MHz)
	23780-23790-23800(LTE Band 17 BW=10MHz)
	26697-26865-27033(LTE Band 26 BW=1.4MHz)
	26705-26865-27025(LTE Band 26 BW=3MHz)
	26715-26865-27015(LTE Band 26 BW=5MHz)
	26750-26865-26990(LTE Band 26 BW=10MHz)
	26775-26865-26965(LTE Band 26 BW=15MHz)
	37775-38000-38225(LTE Band 38 BW=5MHz)
	37800-38000-38200(LTE Band 38 BW=10MHz)
	37825-38000-38175(LTE Band 38 BW=15MHz)
	37850-38000-38150(LTE Band 38 BW=20MHz)
	40165-40515-40865-41215(LTE Band 41 BW=5MHz)
	40190-40523-40856-41190(LTE Band 41 BW=10MHz)
	40215-40523-40840-41165(LTE Band 41 BW=15MHz)
	40240-40540-40840-41140(LTE Band 41 BW=20MHz)
	131979-132322-132665(LTE Band 66 BW=1.4MHz)
	131987-132322-132657(LTE Band 66 BW=3MHz)
	131997-132322-132647(LTE Band 66 BW=5MHz)
	132022-132322-132622(LTE Band 66 BW=10MHz)
	132047-132322-132597(LTE Band 66 BW=15MHz)
	132072-132322-132572(LTE Band 66 BW=20MHz)
	802.11b/g/n 20M:1-2-6-11 (WiFi 2.4G)
	40M:3-4-6-8-9(WiFi 2.4G)
	802.11a/n/ac 20M: 36-40-44-48-52-56-60-64-100-104-108-112-116-120-124-128-132-136-140-149-153-157-161-165 (WiFi 5G)
	802.11 n/ac 40M: 38-46-54-62-102-110-118-126-134-151-159 (WiFi 5G)
	802.11ac 80M: 42-58-106-122-155 (WiFi 5G)
	802.11ac 160M: 50-114 (WiFi 5G)
	BT :0-3-5-6-10-11-19-31-32-33-34-35-37-39-45-70-71-75-78

Table 3:Device information and operating configuration

Note:

- 1)*For WiFi 5G,the device does not support channel 144(20M), channel 142(40M) and channel 138(80M).
- 2)*For WiFi 5G,U-NII-2A and U-NII-2C does not support hotspot function.
- 3)** RF exposure test results for Wireless Charging are not included in this report.Please refer to the Partial Wireless Charging RF exposure test report for details.

1.3.1 General Description

LYA-L0C is a subscriber equipment in the GSM/WCDMA/LTE system. The GSM frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900. The UMTS frequency band is B1 and B2 and B4 and B5 and B6 and B8 and B19. The LTE frequency band is B1 and B2 and B3 and B4 and B5 and B6 and B7 and B8 and B9 and B12 and B17 and B18 and B19 and B20 and B26 and B28 and B34 and B38 and B39 and B40 and B41 and B66. But only GSM850 and GSM1900, UMTS frequency B2, B4 and B5, LTE frequency B2, B4, B5, B7, B12, B17, B38, B41 and B66 bands test data included in this report. The Mobile Phone implements such functions as RF signal receiving/transmitting, LTE/HSPA/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service, GPS, Bluetooth, NFC, Wi-Fi and Wirelessly Charging etc. LYA-L0C provides one USIM card interface and one HUAWEI Nano SD card interface. Externally it provides type C USB charging port, and the port could be used as the earphone port or data-transfer port.

Battery information:

Name	Manufacturer/trademark	Description
Li-ion Polymer Battery	HuaweiTechnologies Co., Ltd. (Manufacturer: SCUD)	Battery Model: HB486486ECW Rated capacity: 4100mAh Nominal Voltage:  +3.82V Charging Voltage:  +4.4V
	HuaweiTechnologies Co., Ltd. (Manufacturer: Desay)	

The difference between LYA-L29 and LYA-L0C:

Model	LYA-L29	LYA-L0C																												
PCB	The same	The same																												
Frequency-GSM	The same	The same																												
Frequency-WCDMA	The same	The same																												
Frequency-LTE	Different B2/4/5/7/12/17/38/40/41(2545~2655MHz,support AXGP)	Different B2/4/5/7/12/17/38/40/41(2545~2655MHz,support AXGP)/B66																												
4*4 MIMO	Different Support B3,B7,B1	Different Support B2,B7,B66(B4) Replace TRI SAW filters of B1/B3/B7 with SAW filters of B2/B66/B7. Replace																												
SIM Card	Dual	Single																												
RF NV parameters	Different	Different The power of LYA-L0C is different from LYA-L29 by change RF NV parameters. - Down antenna（Primary） ① 0mm body Scenario<table><tr><td></td><td>WB2</td><td>WB4</td><td>LTE B2</td><td>LTE B4</td></tr><tr><td>reduce</td><td>0.5dB</td><td>0.5dB</td><td>0.5dB</td><td>1.5dB</td></tr></table> ② 10mm hotspot Scenario<table><tr><td colspan="2"></td><td colspan="3">LTE B4</td></tr><tr><td colspan="2">reduce</td><td colspan="3">0.5dB</td></tr></table> - Up antenna (Secondary) Head Scenario<table><tr><td></td><td>WB2</td><td>WB4</td><td>LTEB2</td></tr><tr><td>rise</td><td>1dB</td><td>1dB</td><td>1dB</td></tr></table>		WB2	WB4	LTE B2	LTE B4	reduce	0.5dB	0.5dB	0.5dB	1.5dB			LTE B4			reduce		0.5dB				WB2	WB4	LTEB2	rise	1dB	1dB	1dB
	WB2	WB4	LTE B2	LTE B4																										
reduce	0.5dB	0.5dB	0.5dB	1.5dB																										
		LTE B4																												
reduce		0.5dB																												
	WB2	WB4	LTEB2																											
rise	1dB	1dB	1dB																											

Hardware	Different Location ID: Z4102, Z4302, Z4401 Description: B1/3/7 Tri saw filter, 2140MHz. Location ID: Z4103 Description: SAW filter -1960MHz	Different 1) Replace TRI SAW filters of B1/B3/B7 with SAW filters of B2/B66/B7. Replace Location ID: Z4102, Z4302, Z4401 Description: B2/B66/B7 Tri saw filter, 2655MHz. 2) Delete some chip inductors in Peripheral RF Matching circuits of the diversity circuit, MIMO main circuit, and MIMO diversity circuit. Delete Location ID: L4126 L4127 L4130 L3506 Description: Chip inductor 0.018uH/0.001uH/0.0022uH/0.0039uH 3) Delete The circuits related to the B32 frequency band. Delete: Location ID: Z3502, Z4104 Description: B32 saw filter 1474MHz Location ID: C3512, C5401, C5405 Description: Ceramic capacitor 0.033nF Location ID: Z5403 Description: Ceramic filter -1710MHz Location ID: U3503, U4101 Description: RF low noise amplifier - 1559~1610MHz 4) Replace B3 SAW filter with B2 SAW filter and slight change of Peripheral RF matching circuits. Replace: Location ID: Z4103 Description: SAW filter -1842.5MHz Delete: Location ID: L3502 L3516 L4129 Description: Chip inductor 0.0056uH/0.002uH/0.0075uH Location ID: C3514, C4110 Description: Ceramic capacitor 0.018nF
Software	Different	Different
Dimensions	The same	The same
Appearance	The same	The same
main antenna	The same	The same
BT/Wi-Fi antenna	The same	The same
DIV antenna	The same	The same

Supported CA configurations for DL CA	Different support: CA_1A-3A CA_1C-3A CA_1A-3C CA_1A-3A-3A CA_1C-3C CA_1A-3D CA_1C-3D CA_1A-7A-7A CA_1A-32A CA_1A-38A CA_1A-38C CA_1A-40A CA_1A-40C CA_1A-41A CA_1A-41C CA_3A-3A-7A CA_3A-7A-7A CA_3A-3A-7A-7A CA_3A-3A-8A CA_3A-32A CA_3C-32A CA_3A-38A CA_3C-38A CA_3A-38C CA_3C-38C CA_3A-40A CA_3A-40C CA_3A-40D CA_3A-41A CA_7A-7A-8A CA_7A-32A CA_8A-32A CA_20A-32A CA_1A-3A-5A CA_1A-3C-5A CA_1A-3A-7A CA_1C-3A-7A CA_1A-3C-7A CA_1A-3A-3A-7A CA_1A-3A-7C CA_1A-3A-7A-7A CA_1C-3C-7A CA_1A-3A-3A-7A-7A CA_1A-3A-8A CA_1A-3C-8A CA_1A-3A-19A CA_1A-3A-20A CA_1A-3C-20A CA_1A-3A-26A CA_1A-3A-28A CA_1A-3C-28A CA_1A-3A-32A CA_1A-3A-38A CA_1A-3C-38A CA_1A-3A-38C CA_1A-3C-38C CA_1A-28A-40C CA_3A-3A-7A-8A CA_3A-7A-7A-8A CA_3A-3A-7A-7A-8A CA_3A-3A-7A-20A CA_3A-7A-32A CA_3C-7A-32A CA_3A-8A-38A CA_3C-8A-38A CA_3A-20A-32A CA_3A-28A-40A CA_3A-28A-40C CA_3A-28A-40D CA_7A-8A-32A CA_7A-20A-32A CA_1A-3A-7A-8A CA_1A-3C-7A-8A CA_1A-3A-7A-20A CA_1A-3C-7A-20A CA_1A-3A-7A-28A CA_1A-3A-7C-28A CA_1A-3A-7A-32A CA_1A-3A-8A-38A CA_1A-3A-20A-32A CA_1A-3A-28A-40A CA_1A-3A-28A-40C CA_1A-7A-20A-32A CA_3A-7A-20A-32A CA_1A-3A-7A-20A-32A unsupport: CA_66B CA_66C CA_66D CA_2A-2A CA_4A-4A CA_12A-12A CA_66A-66A CA_2A-4A CA_2C-4A CA_2A-4A-4A CA_2A-5A CA_2A-7A CA_2A-7C CA_2A-7A-7A CA_2A-12A CA_2A-2A-12A CA_2A-12B CA_2A-12A-12A CA_2A-17A CA_2A-28A CA_2A-66A CA_2A-2A-66A CA_4A-5A CA_4A-4A-5A CA_4A-7A CA_4A-4A-7A CA_4A-7C CA_4A-7A-7A CA_4A-12A CA_4A-4A-12A CA_4A-12B CA_4A-12A-12A CA_4A-17A CA_4A-28A CA_7A-12A CA_7A-12B CA_7A-12A-12A CA_7A-66A CA_7C-66A CA_7A-66A-66A CA_7C-66A-66A CA_12A-66A CA_12B-66A CA_12A-66A-66A CA_2A-4A-5A CA_2A-4A-7A CA_2A-4A-7C CA_2A-4A-7A-7A CA_2A-4A-12A CA_2A-4A-12A-12A CA_2A-4A-28A CA_2A-7A-12A CA_2A-7A-66A CA_2A-12A-66A CA_2A-2A-12A-66A CA_2A-12B-66A CA_4A-7A-12A CA_2A-4A-7A-12A CA_2A-66A-66A	Different support: CA_66B CA_66C CA_66D CA_2A-2A CA_4A-4A CA_12A-12A CA_66A-66A CA_2A-4A CA_2C-4A CA_2A-4A-4A CA_2A-5A CA_2A-7A CA_2A-7C CA_2A-7A-7A CA_2A-12A CA_2A-2A-12A CA_2A-12B CA_2A-12A-12A CA_2A-17A CA_2A-28A CA_2A-66A CA_2A-2A-66A CA_4A-5A CA_4A-4A-5A CA_4A-7A CA_4A-4A-7A CA_4A-7C CA_4A-7A-7A CA_4A-12A CA_4A-4A-12A CA_4A-12B CA_4A-12A-12A CA_4A-17A CA_4A-28A CA_7A-12A CA_7A-66A CA_7C-66A CA_7A-66A-66A CA_7C-66A-66A CA_12A-66A CA_12B-66A CA_12A-66A-66A CA_2A-4A-5A CA_2A-4A-7A CA_2A-4A-7C CA_2A-4A-7A-7A CA_2A-4A-12A CA_2A-4A-12A-12A CA_2A-4A-28A CA_2A-7A-12A CA_2A-7A-66A CA_2A-12A-66A CA_2A-2A-12A-66A CA_2A-12B-66A CA_4A-7A-12A CA_2A-4A-7A-12A CA_2A-66A-66A
---------------------------------------	--	---

	7A-12A-12A CA_2A-7A-66A CA_2A-12A-66A CA_2A-2A-12A-66A CA_2A-12B-66A CA_4A-5A-7A CA_4A-7A-12A CA_4A-7A-12B CA_4A-7A-12A-12A CA_7A-12A-66A CA_7A-12B-66A CA_2A-4A-7A-12A CA_2A-7A-12A-66A CA_2A-7A-12B-66A	
Supported CA configurations for UL CA	Different support:CA_3A-20A CA_7A-20A	Different Unsupport:CA_3A-20A CA_7A-20A
Others	NA	NA

According to the difference description above,

- 1)For the bands with hardware difference(main and second ant LTE Band 2/7/66),new full test is performed on LYA-L0C.
- 2) For the bands and RF exposure conditions with power increase (second ant UMTS II/IV/LTE B2, Head Scenario with audio receiver on), new full test is performed on LYA-L0C.
- 3) For the bands and RF exposure conditions with power reduce, retest the conducted power on LYA-L0C.
- 4) For the same bands and RF exposure conditions, LYA-L0C shares the same SAR test data of LYA-L29(report No.: SYBH(Z-SAR)20180706013002-2) and tests the SAR worst case for each frequency band and RF exposure condition.

1.3.2 Dynamic antenna switching specification

The device has two 2G/3G/4G Tx antennas (Main Antenna and Second Antenna). It can transmit from either Main Antenna or Second Antenna, but they can not transmit simultaneously.

SAR test procedure for dynamic antenna switching is as below:

During the SAR test, the Main Antenna (Ant 1) and Second Antenna (Ant2) are set to the MAX transmit power level respectively and test the SAR respectively in all applicable RF exposure conditions. Some AT commands are supplied to fix the operation state and choose the antenna so that only one TX antenna tested at a time. We can ensure that all independent antennas and modem are completely covered by the appropriate SAR measurements and all simultaneous transmission possibilities are fully considered.

1.4 Test specification(s)

ANSI C95.1:1992 /IEEE C95.1:1991	Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE Std 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB941225 D01	3G SAR Procedures v03r01
KDB941225 D05	SAR for LTE Devices v02r05
KDB941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB941225 D06	Hotspot SAR v02r01
KDB447498 D01	General RF Exposure Guidance v06
KDB648474 D04	Handsets SAR v01r03
KDB248227 D01	SAR Guidance for IEEE 802.11 Wi-Fi SAR v02r02
KDB865664 D01	SAR measurement 100 MHz to 6 GHz v01r04
KDB865664 D02	RF Exposure Reporting v01r02
KDB690783 D01	SAR Listings on Grants v01r03
KDB616217 D04	SAR for laptop and tablets v01r02

1.5 Testing laboratory

Test Site	The Reliability Laboratory of Huawei Technologies Co., Ltd.
Test Location	Section G1, Huawei Base Bantian, Longgang District, Shenzhen 518129, P.R. China
Telephone	+86 755 28780808
Fax	+86 755 89652518
State of accreditation	The Test laboratory (area of testing) is accredited according to ISO/IEC 17025. CNAS Registration number: L0310 A2LA TESTING CERT # 2174.01 & 2174.02 & 2174.03

1.6 Applicant and Manufacturer

Company Name	HUAWEI TECHNOLOGIES CO., LTD
Address	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

1.7 Application details

Start Date of test	2018-09-04
End Date of test	2018-09-18

1.8 Ambient Condition

Ambient temperature	18°C – 25°C
Relative Humidity	30% – 70%

2.2 Test environment

The DASY measurement system is placed at the head end of a room with dimensions: $5 \times 2.5 \times 3 \text{ m}^3$, the SAM phantom is placed in a distance of 75 cm from the side walls and 1.1m from the rear wall. Above the test system a $1.5 \times 1.5 \text{ m}^2$ array of pyramid absorbers is installed to reduce reflections from the ceiling.

Picture 1 of the photo documentation shows a complete view of the test environment.

The system allows the measurement of SAR values larger than 0.005 mW/g.

2.3 Data Acquisition Electronics description

The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

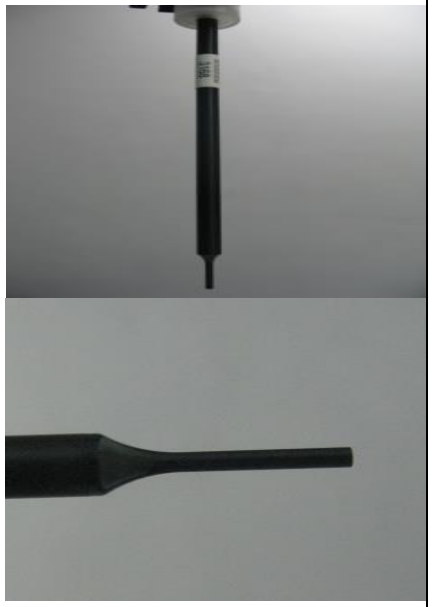
DAE4

Input Impedance	200MOhm	
The Inputs	symmetrical and floating	
Common mode rejection	above 80 dB	

2.4 Probe description

These probes are specially designed and calibrated for use in liquids with high permittivities. They should not be used in air, since the spherical isotropy in air is poor (± 2 dB). The dosimetric probes have special calibrations in various liquids at different frequencies.

Isotropic E-Field Probe ES3DV3 for Dosimetric Measurements

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	ISO/IEC 17025 calibration service available.	
Frequency	10 MHz to 4 GHz; Linearity: ± 0.2 dB (30 MHz to 4 GHz)	
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.3 dB in tissue material (rotation normal to probe axis)	
Dynamic range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm	
Application	General dosimetry up to 4 GHz Dosimetry in strong gradient fields Compliance tests of mobile phones	

Isotropic E-Field Probe EX3DV4 for Dosimetric Measurements

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	ISO/IEC 17025 calibration service available.	
Frequency	10 MHz to >6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic range	10 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%	

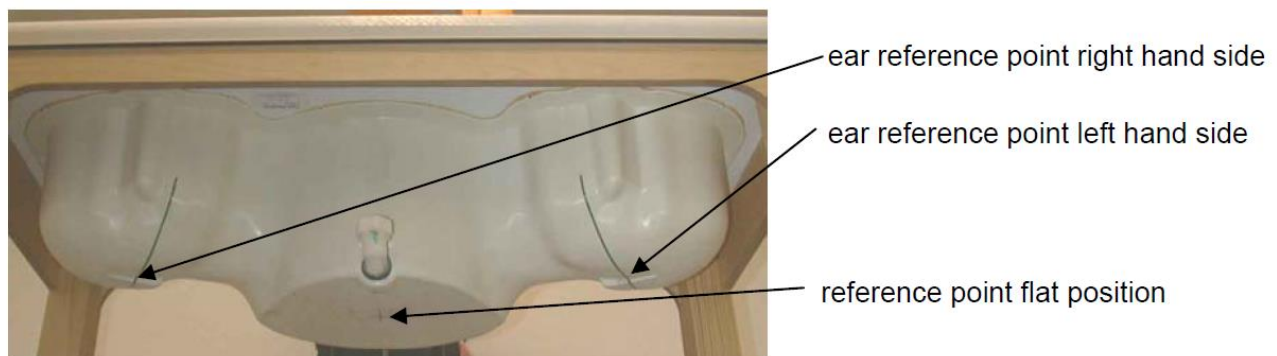
2.5 Phantom description

SAM Twin Phantom

Shell Thickness	2mm±0.2mm;The ear region:6.0±0.2mm	
Filling Volume	Approximately 25 liters	
Dimensions	Length:1000mm; Width:500mm; Height: adjustable feet	
Measurement Areas	Left hand Right hand Flat phantom	

The bottom plate contains three pairs of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections.
A white cover is provided to cover the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on top of this phantom cover are possible. Three reference marks are provided on the phantom counter. These reference marks are used to teach the absolute phantom position relative to the robot.

The following figure shows the definition of reference point:



ELI4 Phantom

Shell Thickness	2mm±0.2mm	
Filling Volume	Approximately 30 liters	
Dimensions	Major axis:600mm; Minor axis:400mm;	
Measurement Areas	Flat phantom	

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209-2 and all known tissue simulating liquids.

The phantom shell material is resistant to all ingredients used in the tissue-equivalent liquid recipes. The shell of the phantom including ear spacers is constructed from low permittivity and low loss material, with a relative permittivity $2 \leq \epsilon_r \leq 5$ at ≤ 3 GHz, $3 \leq \epsilon_r \leq 4$ at > 3 GHz and a loss tangent ≤ 0.05 .

Modular Triple Flat Phantom

Shell Thickness (bottom plate)	2mm±0.2mm	
Filling Volume (Module)	approx. 8.1 liters (filling height: 155 mm)	
Dimensions	Length: 292 mm Width: 178 mm Height: 178 mm Useable area: 280 × 175 mm	
Measurement Areas	Flat phantom	
The Modular Flat Phantom consists of three identical modules that can be installed and removed separately without emptying the liquid. It is used for compliance testing of small wireless devices in body-worn configurations according to IEC 62209-2, etc.		

2.6 Device holder description

The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA's only. If necessary an additional support of polystyrene material is used.



The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\sigma = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

The device holder permits the device to be positioned with a tolerance of $\pm 1^\circ$ in the tilt angle.

Larger DUT's (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values.

Therefore those devices are normally only tested at the flat part of the SAM.

2.7 Test Equipment List

This table gives a complete overview of the SAR measurement equipment.

Devices used during the test described are marked ☒

	Manufacturer	Device	Type	Serial number	Date of last calibration	Valid period
☒	SPEAG	Dosimetric E-Field Probe	EX3DV4	7489	2018-01-09	One year
☒	SPEAG	Dosimetric E-Field Probe	EX3DV4	3736	2018-04-27	One year
☒	SPEAG	Dosimetric E-Field Probe	EX3DV4	7505	2018-06-12	One year
☒	SPEAG	750 MHz Dipole	D750V3	1044	2017-09-21	Three years
☒	SPEAG	835 MHz Dipole	D835V2	4d059	2016-04-20	Three years
☒	SPEAG	1750 MHz Dipole	D1750V2	1123	2017-07-27	Three years
☒	SPEAG	1750 MHz Dipole	D1750V2	1145	2016-02-02	Three years
☒	SPEAG	1900 MHz Dipole	D1900V2	5d143	2017-09-20	Three years
☒	SPEAG	2450 MHz Dipole	D2450V2	860	2017-11-15	Three years
☒	SPEAG	2600 MHz Dipole	D2600V2	1021	2018-07-26	Three years
☒	SPEAG	2600 MHz Dipole	D2600V2	1058	2018-06-19	Three years
☒	SPEAG	5GHz Dipole	D5GHzV2	1155	2018-06-08	Three years
☒	SPEAG	Data acquisition electronics	DAE4	852	2018-04-23	One year
☒	SPEAG	Data acquisition electronics	DAE4	851	2018-07-18	One year
☒	SPEAG	Data acquisition electronics	DAE4	1235	2017-11-16	One year
☒	SPEAG	Software	DASY 5	N/A	NCR	NCR
☒	SPEAG	Twin Phantom	SAM1	1475	NCR	NCR
☒	SPEAG	Twin Phantom	SAM2	1474	NCR	NCR
☒	SPEAG	Twin Phantom	SAM3	1597	NCR	NCR
☒	SPEAG	Twin Phantom	SAM4	1620	NCR	NCR
☒	SPEAG	Twin Phantom	SAM5	1894	NCR	NCR
☒	SPEAG	Twin Phantom	SAM6	1892	NCR	NCR
☒	R & S	Universal Radio Communication Tester	CMU 200	111379	2017-12-30	One year
☒	R & S	Universal Radio Communication Tester	CMW 500	159271	2017-09-27	One year
☒	R & S	Universal Radio Communication Tester	CMW 500	158850	2018-05-08	One year
☒	R & S	Universal Radio Communication Tester	CMW 500	116265	2018-03-05	One year
☒	Anritsu	Singal Analyser	MS2690A	6261767335	2017-10-24	One year
☒	Anritsu	Radio Communication Analyser	MT8821C	6201735100	2018-03-15	One year
☒	Anritsu	Radio Communication Analyser	MT8821C	6201830585	2018-05-30	One year
☒	Agilent	Network Analyser	E5071C	MY46107368	2017-10-27	One year
☒	Agilent	Dielectric Probe Kit	85070E	2484	NCR	NCR
☒	Keysight	Signal Generator	E8257D	MY56440071	2017-12-25	One year
☒	MINI-CIRCUITS	Amplifier	ZHL-42W	QA1402001	NCR	NCR
☒	MINI-CIRCUITS	Amplifier	ZVE-8G+	188163	NCR	NCR
☒	SHX	Dual Directional Coupler	DDTO-4-20	17121801	2018-01-02	One year
☒	Agilent	Dual Directional Coupler	772D	MY52180173	2018-01-08	One year
☒	Keysight	Power Meter	E4417A	MY57160005	2018-03-15	One year

☒	Keysight	Power Meter	E9321A	MY57150002	2018-03-15	One year
☒	R & S	Power Meter Sensor	NRP-Z11	106288	2018-07-17	One year
☒	R & S	Power Meter Sensor	NRP-Z11	100740	2018-07-17	One year

Note:

1) Per KDB865664D01 requirements for dipole calibration, the test laboratory has adopted three-year extended calibration interval. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) The most recent return-loss result, measured at least annually, deviates by no more than 20% from the previous measurement.
- d) The most recent measurement of the real or imaginary parts of the impedance, measured at least annually is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.

3 SAR Measurement Procedure

3.1 Scanning procedure

The DASY installation includes predefined files with recommended procedures for measurements and system check. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

- The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT’s output power and should vary max. +/- 5 %.
- For power drift measurement, DASY software supports that the reference position can be either the selected section’s grid reference point or a user point. If the E-field of power reference measurement in the default grid reference point is very small, the test lab may set the reference position to the user point near the hotspot location to avoid large measurement uncertainty.
- The “surface check” measurement tests the optical surface detection system of the DASY system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above $\pm 0.1\text{mm}$). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^\circ$.)
- The “area scan” measures the SAR above the DUT or verification dipole on a parallel plane to the surface. It is used to locate the approximate location of the peak SAR with 2D spline interpolation. The robot performs a stepped movement along one grid axis while the local electrical field strength is measured by the probe. The probe is touching the surface of the SAM during acquisition of measurement values. The standard scan uses large grid spacing for faster measurement. Standard grid spacing for head measurements is 15 mm in x- and y- dimension ($\leq 2\text{GHz}$), 12 mm in x- and y- dimension (2-4 GHz) and 10mm in x- and y- dimension (4-6GHz). If a finer resolution is needed, the grid spacing can be reduced. Grid spacing and orientation have no influence on the SAR result. For special applications where the standard scan method does not find the peak SAR within the grid, e.g. mobile phones with flip cover, the grid can be adapted in orientation. Results of this coarse scan are shown in Appendix B.
- A “zoom scan” measures the field in a volume around the 2D peak SAR value acquired in the previous “coarse” scan. This is a fine grid with maximum scan spatial resolution: $\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}} \leq 2\text{GHz} - \leq 8\text{mm}$, 2-4GHz - $\leq 5\text{ mm}$ and 4-6 GHz- $\leq 4\text{mm}$; $\Delta z_{\text{zoom}} \leq 3\text{GHz} - \leq 5\text{ mm}$, 3-4 GHz- $\leq 4\text{mm}$ and 4-6GHz- $\leq 2\text{mm}$ where the robot additionally moves the probe along the z-axis away from the bottom of the Phantom. DASY is also able to perform repeated zoom scans if more than 1 peak is found during area scan. In this document, the evaluated peak 1g and 10g averaged SAR values are shown in the 2D-graphics in Appendix B. Test results relevant for the specified standard (see chapter 1.4.) are shown in table form in chapter 7.2.
- A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 2 mm steps. This measurement shows the continuity of the liquid and can - depending in

the field strength – also show the liquid depth. A z-axis scan of the measurement with maximum SAR value is shown in Appendix B.

The following table summarizes the area scan and zoom scan resolutions per FCC KDB 865664D01:

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

3.2 Spatial Peak SAR Evaluation

The spatial peak SAR - value for 1 and 10 g is evaluated after the Cube measurements have been done. The basis of the evaluation are the SAR values measured at the points of the fine cube grid consisting of 5 x 5 x 7 points(with 8mm horizontal resolution) or 7 x 7 x 7 points(with 5mm horizontal resolution) or 8 x 8 x 7 points(with 4mm horizontal resolution). The algorithm that finds the maximal averaged volume is separated into three different stages.

- The data between the dipole center of the probe and the surface of the phantom are extrapolated. This data cannot be measured since the center of the dipole is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is about 1 mm (see probe calibration sheet). The extrapolated data from a cube measurement can be visualized by selecting 'Graph Evaluated'.
- The maximum interpolated value is searched with a straight-forward algorithm. Around this maximum the SAR - values averaged over the spatial volumes (1g or 10 g) are computed using the 3d-spline interpolation algorithm. If the volume cannot be evaluated (i.e., if a part of the grid was cut off by the boundary of the measurement area) the evaluation will be started on the corners of the bottom plane of the cube.
- All neighboring volumes are evaluated until no neighboring volume with a higher average value is found.

Extrapolation

The extrapolation is based on a least square algorithm [W. Gander, Computermathematik, p.168-180]. Through the points in the first 3 cm along the z-axis, polynomials of order four are calculated. These polynomials are then used to evaluate the points between the surface and the probe tip. The points, calculated from the surface, have a distance of 1 mm from each other.

Interpolation

The interpolation of the points is done with a 3d-Spline. The 3d-Spline is composed of three one-dimensional splines with the "Not a knot"-condition [W. Gander, Computermathematik, p.141-150] (x, y and z -direction) [Numerical Recipes in C, Second Edition, p.123ff].

Volume Averaging

At First the size of the cube is calculated. Then the volume is integrated with the trapezoidal algorithm. 8000 points (20x20x20) are interpolated to calculate the average.

Advanced Extrapolation

DASY uses the advanced extrapolation option which is able to compensate boundary effects on E-field probes.

3.3 Data Storage and Evaluation

Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension "DAE4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Norm _i , a _{i0} , a _{i1} , a _{i2}
	- Conversion factor	ConvF _i
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf/dcp_i$$

with	V _i	= compensated signal of channel i	(i = x, y, z)
	U _i	= input signal of channel i	(i = x, y, z)
	cf	= crest factor of exciting field	(DASY parameter)
	dcp _i	= diode compression point	(DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

$$\begin{aligned} \text{E-field probes:} \quad E_i &= (V_i / \text{Norm}_i \cdot \text{ConvF})^{1/2} \\ \text{H-field probes:} \quad H_i &= (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f \end{aligned}$$

with V_i = compensated signal of channel i (i = x, y, z)
 Norm_i = sensor sensitivity of channel i (i = x, y, z)
 [mV/(V/m)²] for E-field Probes
 ConvF = sensitivity enhancement in solution
 a_{ij} = sensor sensitivity factors for H-field probes
 f = carrier frequency [GHz]
 E_i = electric field strength of channel i in V/m
 H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{\text{tot}} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$\text{SAR} = (E_{\text{tot}}^2 \cdot \sigma) / (\rho \cdot 1000)$$

with SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in [mho/m] or [Siemens/m]
 ρ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{\text{pwe}} = E_{\text{tot}}^2 / 3770 \quad \text{or} \quad P_{\text{pwe}} = H_{\text{tot}}^2 \cdot 37.7$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm²
 E_{tot} = total electric field strength in V/m
 H_{tot} = total magnetic field strength in A/m

4 System Verification Procedure

4.1 Tissue Verification

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

The following materials are used for producing the tissue-equivalent materials.

Ingredients (% of weight)	Head Tissue					
Frequency Band (MHz)	750	835	1750	1900	2450	2600
Water	39.2	41.45	52.64	55.242	62.7	55.242
Salt (NaCl)	2.7	1.45	0.36	0.306	0.5	0.306
Sugar	57.0	56.0	0.0	0.0	0.0	0.0
HEC	0.0	1.0	0.0	0.0	0.0	0.0
Bactericide	0.0	0.1	0.0	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0
DGBE	0.0	0.0	47.0	44.542	36.8	44.452
Ingredients (% of weight)	Body Tissue					
Frequency Band (MHz)	750	835	1750	1900	2450	2600
Water	50.3	52.4	69.91	69.91	73.2	64.493
Salt (NaCl)	1.60	1.40	0.13	0.13	0.04	0.024
Sugar	47.0	45.0	0.0	0.0	0.0	0.0
HEC	0.0	1.0	0.0	0.0	0.0	0.0
Bactericide	0.0	0.1	0.0	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0
DGBE	0.0	0.0	29.96	29.96	26.7	32.252

Table 4: Tissue Dielectric Properties

Salt: 99+% Pure Sodium Chloride; Sugar: 98+% Pure Sucrose; Water: De-ionized, 16M Ω + resistivity
 HEC: Hydroxyethyl Cellulose; DGBE: 99+% Di(ethylene glycol) butyl ether, [2-(2-butoxyethoxy)ethanol]
 Triton X-100(ultra pure): Polyethylene glycol mono [4-(1,1,3,3-tetramethylbutyl)phenyl]ether

☒ Simulating Head Liquid (HBBL600-6000MHz), Manufactured by SPEAG:

Ingredients	(% by weight)
Water	50-65%
Esters, Emulsifiers, Inhibitors	10-30%
Sodium salt	8-25%

☒ Simulating Body Liquid (MBBL600-6000MHz), Manufactured by SPEAG:

Ingredients	(% by weight)
Water	60-80%
Esters, Emulsifiers, Inhibitors	20-40%
Sodium salt	0-1.5%

Tissue Type	Target Frequency	Target Tissue		Measured Tissue		Deviation (Within +/-5%)		Liquid Temp.	Test Date
		Permittivity	Conductivity [S/m]	Permittivity	Conductivity [S/m]	$\Delta\epsilon_r$	$\Delta\sigma$		
750MHz Head	705	42.14	0.89	41.37	0.862	-1.83%	-3.11%	21.8°C	2018/9/8
	710	42.11	0.89	41.34	0.865	-1.83%	-2.87%		
	750	41.90	0.89	41.18	0.880	-1.72%	-1.10%		
835MHz Head	825	41.60	0.90	40.05	0.877	-3.73%	-2.53%	21.8°C	2018/9/7
	835	41.50	0.90	40.02	0.881	-3.57%	-2.16%		
	850	41.50	0.92	39.97	0.885	-3.69%	-3.79%		
835MHz Head	825	41.60	0.90	41.05	0.900	-1.32%	0.01%	21.8°C	2018/9/18
	835	41.50	0.90	41.02	0.904	-1.16%	0.42%		
	850	41.50	0.92	40.97	0.909	-1.28%	-1.23%		
1750MHz Head	1710	40.10	1.35	39.81	1.351	-0.72%	0.07%	21.8°C	2018/9/7
	1730	40.10	1.36	39.78	1.365	-0.80%	0.37%		
	1750	40.10	1.37	39.77	1.374	-0.82%	0.29%		
	1800	40.00	1.40	39.84	1.398	-0.40%	-0.14%		
1750MHz Head	1710	40.10	1.35	39.85	1.303	-0.62%	-3.48%	21.8°C	2018/9/7
	1730	40.10	1.36	39.83	1.313	-0.67%	-3.46%		
	1750	40.10	1.37	39.81	1.325	-0.72%	-3.28%		
	1800	40.00	1.40	39.74	1.355	-0.65%	-3.21%		
1750MHz Head	1710	40.10	1.35	39.93	1.290	-0.42%	-4.44%	22.5°C	2018/9/12
	1730	40.10	1.36	39.92	1.302	-0.45%	-4.26%		
	1750	40.10	1.37	39.90	1.317	-0.50%	-3.87%		
	1800	40.00	1.40	39.82	1.348	-0.45%	-3.71%		
1900MHz Head	1850	40.00	1.40	38.72	1.355	-3.20%	-3.21%	22.9°C	2018/9/5
	1880	40.00	1.40	38.67	1.371	-3.33%	-2.07%		
	1900	40.00	1.40	38.65	1.383	-3.38%	-1.21%		
	1910	40.00	1.40	38.64	1.388	-3.40%	-0.86%		
2450MHz Head	2410	39.30	1.76	40.29	1.741	2.52%	-1.08%	21.0°C	2018/9/8
	2435	39.20	1.79	40.27	1.758	2.73%	-1.79%		
	2450	39.20	1.80	40.26	1.768	2.70%	-1.78%		
	2460	39.20	1.81	40.26	1.775	2.70%	-1.93%		
2600MHz Head	2510	39.12	1.86	39.89	1.798	1.97%	-3.33%	21.4°C	2018/9/6
	2535	39.10	1.89	39.86	1.817	1.94%	-3.86%		
	2560	39.00	1.92	39.81	1.839	2.08%	-4.07%		
	2585	39.00	1.95	39.77	1.860	1.97%	-4.62%		
	2600	39.00	1.96	39.75	1.873	1.92%	-4.44%		
	2615	38.98	1.98	39.73	1.883	1.92%	-4.90%		
	2645	38.93	2.01	39.67	1.923	1.90%	-4.33%		

2600MHz Head	2510	39.12	1.86	38.76	1.870	-0.92%	0.54%	21.8℃	2018/9/7
	2535	39.10	1.89	38.72	1.890	-0.97%	0.00%		
	2560	39.00	1.92	38.68	1.909	-0.82%	-0.42%		
	2585	39.00	1.95	38.66	1.932	-0.87%	-0.92%		
	2600	39.00	1.96	38.67	1.946	-0.85%	-0.71%		
	2615	38.98	1.98	38.63	1.961	-0.90%	-0.96%		
	2645	38.93	2.01	38.56	1.986	-0.95%	-1.19%		
5G Hz Head	5250	35.90	4.71	35.11	4.650	-2.20%	-1.27%	21.6℃	2018/9/10
	5600	35.50	5.07	36.06	5.025	1.58%	-0.89%		
	5750	35.40	5.22	35.23	5.052	-0.48%	-3.22%		
750MHz Body	705	55.70	0.96	54.03	0.948	-3.00%	-1.23%	21.8℃	2018/9/8
	710	55.70	0.96	54.01	0.951	-3.03%	-0.98%		
	750	55.50	0.96	53.90	0.966	-2.88%	0.66%		
835MHz Body	825	55.20	0.97	53.84	1.008	-2.46%	3.92%	21.8℃	2018/9/8
	835	55.20	0.97	53.82	1.012	-2.50%	4.33%		
	850	55.20	0.99	53.78	1.017	-2.57%	2.73%		
835MHz Body	825	55.20	0.97	54.64	0.975	-1.01%	0.56%	21.8℃	2018/9/18
	835	55.20	0.97	54.62	0.979	-1.05%	0.95%		
	850	55.20	0.99	54.58	0.984	-1.12%	-0.62%		
1750MHz Body	1710	53.50	1.46	53.72	1.457	0.41%	-0.21%	21.8℃	2018/9/7
	1730	53.50	1.48	53.69	1.473	0.36%	-0.47%		
	1750	53.40	1.49	53.68	1.484	0.52%	-0.40%		
	1800	53.30	1.52	53.77	1.510	0.88%	-0.66%		
1750MHz Body	1710	53.50	1.46	52.95	1.506	-1.03%	3.15%	21.8℃	2018/9/7
	1730	53.50	1.48	52.93	1.520	-1.07%	2.70%		
	1750	53.40	1.49	52.91	1.535	-0.92%	3.02%		
	1800	53.30	1.52	52.83	1.574	-0.88%	3.55%		
1750MHz Body	1710	53.50	1.46	54.14	1.448	1.20%	-0.82%	21.5℃	2018/9/10
	1730	53.50	1.48	54.11	1.464	1.14%	-1.08%		
	1750	53.40	1.49	54.10	1.474	1.31%	-1.07%		
	1800	53.30	1.52	54.19	1.500	1.67%	-1.32%		
1900MHz Body	1850	53.30	1.52	52.56	1.544	-1.39%	1.58%	22.7℃	2018/9/4
	1880	53.30	1.52	52.51	1.565	-1.48%	2.96%		
	1900	53.30	1.52	52.46	1.578	-1.58%	3.82%		
	1910	53.30	1.52	52.44	1.585	-1.61%	4.28%		
2450MHz Body	2410	52.80	1.91	50.70	1.988	-3.98%	4.08%	21.0℃	2018/9/8
	2435	52.70	1.94	50.67	2.008	-3.85%	3.51%		
	2450	52.70	1.95	50.66	2.020	-3.87%	3.59%		
	2460	52.70	1.96	50.65	2.028	-3.89%	3.47%		

2600MHz Body	2510	52.62	2.03	51.40	2.104	-2.32%	3.65%	23°C	2018/9/5
	2535	52.59	2.07	51.36	2.128	-2.34%	2.80%		
	2560	52.57	2.09	51.30	2.154	-2.42%	3.06%		
	2585	52.53	2.13	51.26	2.178	-2.42%	2.25%		
	2600	52.50	2.16	51.23	2.192	-2.42%	1.48%		
	2615	52.42	2.19	51.20	2.206	-2.33%	0.73%		
	2645	52.26	2.24	51.14	2.235	-2.14%	-0.22%		
2600MHz Body	2510	52.62	2.03	52.71	2.088	0.17%	2.86%	21.8°C	2018/9/7
	2535	52.59	2.07	52.86	2.113	0.51%	2.08%		
	2560	52.57	2.09	52.64	2.137	0.13%	2.25%		
	2585	52.53	2.13	52.62	2.164	0.17%	1.60%		
	2600	52.50	2.16	52.63	2.182	0.25%	1.02%		
	2615	52.42	2.19	52.58	2.199	0.31%	0.41%		
	2645	52.26	2.24	52.52	2.229	0.50%	-0.49%		
5G Hz Body	5250	48.90	5.36	48.53	5.598	-0.76%	4.44%	21.6°C	2018/9/10
	5600	48.50	5.77	48.72	5.999	0.45%	3.97%		
	5750	48.30	5.94	48.00	6.207	-0.62%	4.49%		
5G Hz Body	5250	48.90	5.36	47.97	5.262	-1.90%	-1.83%	21.8°C	2018/9/14
	5600	48.50	5.77	47.60	5.741	-1.86%	-0.50%		
	5750	48.30	5.94	46.65	6.033	-3.42%	1.57%		

Table 5: Measured Tissue Parameter

Note: 1) The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

2) KDB 865664 was ensured to be applied for probe calibration frequencies greater than or equal to 50MHz of the EUT frequencies.

3) The above measured tissue parameters were used in the DASY software to perform interpolation via the DASY software to determine actual dielectric parameters at the test frequencies. The SAR test plots may slightly differ from the table above since the DASY rounds to three significant digits.

4.2 System Check

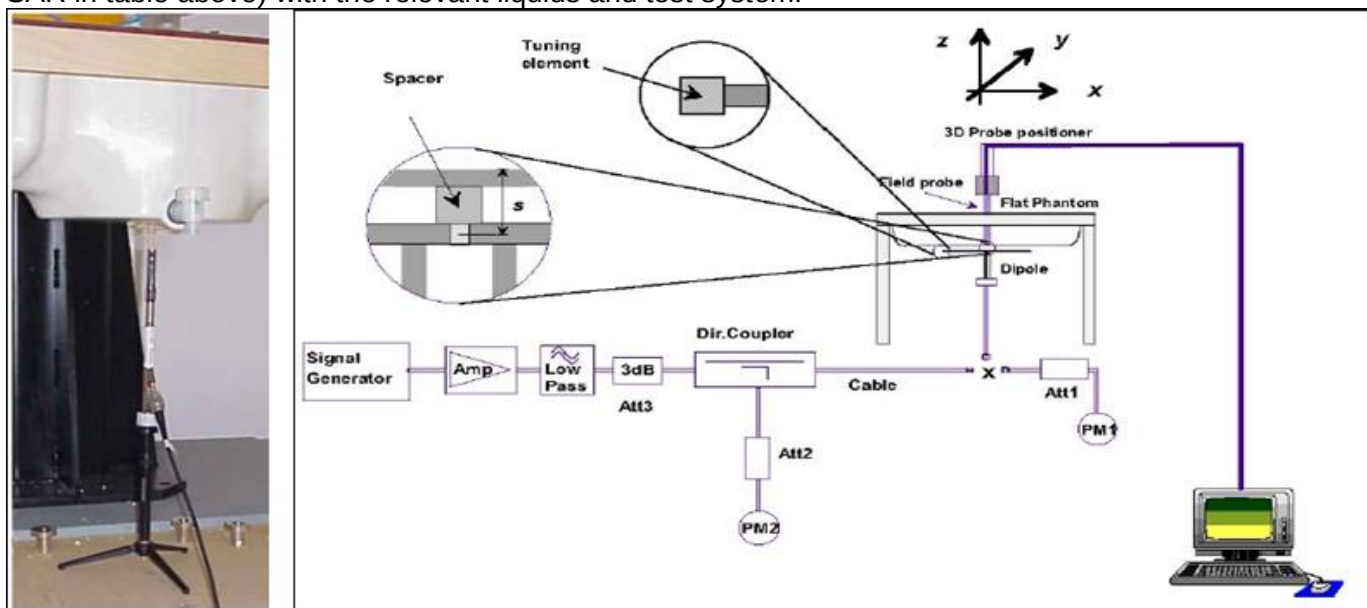
The system check is performed for verifying the accuracy of the complete measurement system and performance of the software. The system check is performed with tissue equivalent material according to IEEE 1528 (described above). The following table shows system check results for all frequency bands and tissue liquids used during the tests(Graphic Plot(s) see Appendix A).

System Check	Target SAR (Normalized to 1W)		Measured SAR (Normalized to 1W)		Deviation (Within +/-10%)		Test Date
	1-g (mW/g)	10-g (mW/g)	1-g (mW/g)	10-g (mW/g)	Δ 1-g	Δ 10-g	
750MHz Head	8.26	5.35	8.52	5.72	3.15%	6.92%	2018/9/8
835MHz Head	9.30	6.05	8.92	5.96	-4.09%	-1.49%	2018/9/7
835MHz Head	9.30	6.05	9.64	6.44	3.66%	6.45%	2018/9/18
1750MHz Head	36.10	19.10	34.48	18.72	-4.49%	-1.99%	2018/9/7
1750MHz Head	36.60	19.40	36.84	20.32	0.66%	4.74%	2018/9/7
1750MHz Head	36.60	19.40	37.96	20.16	3.72%	3.92%	2018/9/12
1900MHz Head	39.10	20.50	40.00	21.48	2.30%	4.78%	2018/9/5
2450MHz Head	51.20	23.90	54.40	25.00	6.25%	4.60%	2018/9/8
2600MHz Head	56.60	25.50	56.00	24.92	-1.06%	-2.27%	2018/9/6
2600MHz Head	55.80	25.10	54.80	25.48	-1.79%	1.51%	2018/9/7
5250MHz Head	81.40	23.50	82.00	23.30	0.74%	-0.85%	2018/9/10
5600MHz Head	85.20	24.30	85.60	24.10	0.47%	-0.82%	2018/9/10
5750MHz Head	78.40	22.30	73.10	20.50	-6.76%	-8.07%	2018/9/10
750MHz Body	8.56	5.64	8.48	5.68	-0.93%	0.71%	2018/9/8
835MHz Body	9.41	6.20	9.92	6.60	5.42%	6.45%	2018/9/8
835MHz Body	9.41	6.20	10.12	6.68	7.55%	7.74%	2018/9/18
1750MHz Body	36.50	19.40	35.12	19.28	-3.78%	-0.62%	2018/9/7
1750MHz Body	36.40	19.40	37.32	20.20	2.53%	4.12%	2018/9/7
1750MHz Body	36.50	19.40	33.72	18.68	-7.62%	-3.71%	2018/9/10
1900MHz Body	39.40	20.80	40.40	21.32	2.54%	2.50%	2018/9/4
2450MHz Body	50.10	23.50	50.80	23.20	1.40%	-1.28%	2018/9/8
2600MHz Body	55.70	25.00	56.40	24.76	1.26%	-0.96%	2018/9/5
2600MHz Body	54.40	24.40	52.00	24.12	-4.41%	-1.15%	2018/9/7
5250MHz Body	74.70	20.90	76.00	21.40	1.74%	2.39%	2018/9/10
5250MHz Body	74.70	20.90	70.40	20.10	-5.76%	-3.83%	2018/9/14
5600MHz Body	79.60	22.10	78.40	21.90	-1.51%	-0.90%	2018/9/10
5750MHz Body	73.30	20.40	79.80	22.00	8.87%	7.84%	2018/9/10

Table 6: System Check Results

4.3 System check Procedure

The system check is performed by using a system check dipole which is positioned parallel to the planar part of the SAM phantom at the reference point. The distance of the dipole to the SAM phantom is determined by a plexiglass spacer. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SAM. It is fed with a power of 250 mW(below 3GHz) or 100mW(3-6GHz). To adjust this power, a power meter is used. The power sensor is connected to the cable before the system check to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the system check to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot). System check results have to be equal or near the values determined during dipole calibration (target SAR in table above) with the relevant liquids and test system.



5 SAR measurement variability and uncertainty

5.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

The detailed repeated measurement results are shown in Section 7.2.

5.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

6 SAR Test Configuration

6.1 Test Positions Configuration

6.1.1 General considerations

Per IEEE 1528-2013, two imaginary lines on the handset were established: the vertical centerline and the horizontal line (See Figure 1).

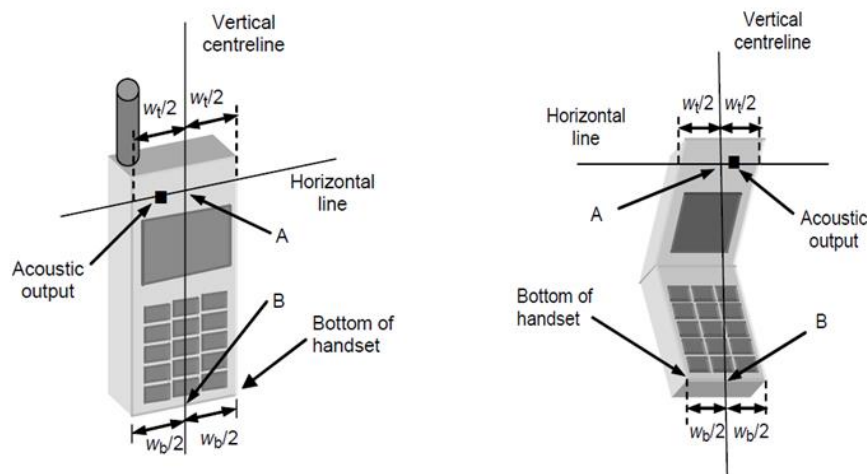


Figure 1 Hand Vertical Center & Horizontal Line Reference Points

6.1.2 Head Exposure Condition

Per IEEE 1528-2013, Head SAR measurements were made in the “cheek” position (See Figure 2) and the “tilt” position (See Figure 3). The device should be tested in both positions on left and right sides of the SAM phantom.

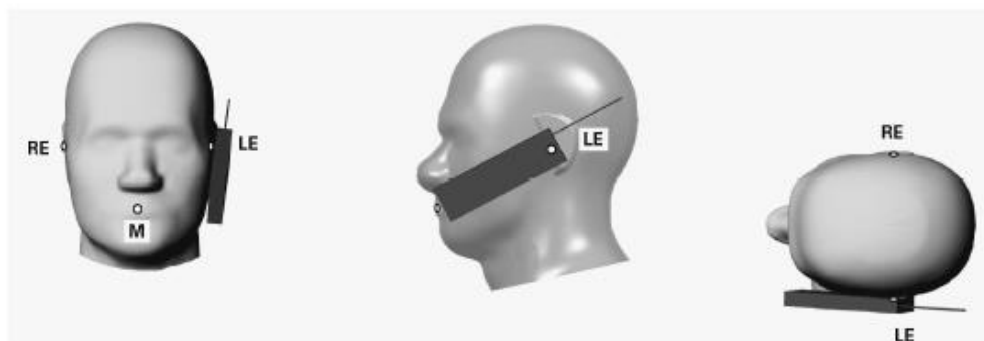


Figure 2 Front, Side and Top View of Cheek Position



Figure 3 Front, Side and Top View of Tilt 15° Position

Note:

M Mouth reference point

LE Left ear reference point (ERP)

RE Right ear reference point(ERP)

6.1.3 Body-worn Exposure Condition

Body-worn operating configurations are tested with the holder attached to the device and positioned against a flat phantom with test separation distance of 15mm in a normal use configuration (See Figure 4). Per FCC KDB648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

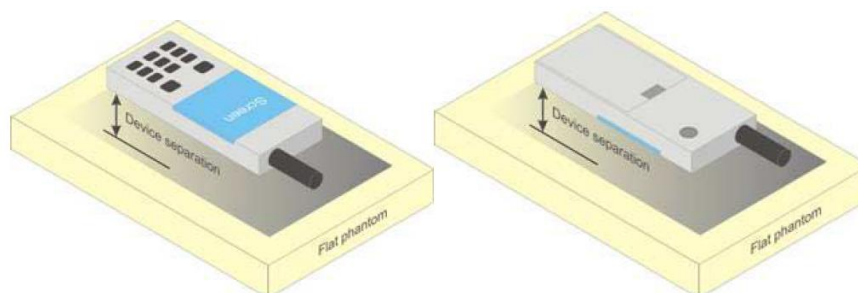


Figure 4 Test position for Body-Worn device

6.1.4 Hotspot Exposure Condition

Per FCC KDB 941225D06, the SAR test separation distance for hotspot mode is determined according to device form factor. When the overall length and width of a device is $> 9 \text{ cm} \times 5 \text{ cm}$, a test separation distance of 10 mm is required for hotspot mode SAR measurements. A test separation distance of 5 mm or less is required for smaller devices. Hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge; for the data modes, wireless technologies and frequency bands supporting hotspot mode. The SAR results are used to determine simultaneous transmission SAR test exclusion for hotspot mode; otherwise, simultaneous transmission SAR measurement is required.

6.1.5 Product Specific 10-g SAR Exposure Condition

Per FCC KDB 648474D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as “Phablet”.

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

6.2 3G SAR Test Reduction Procedure

Per KDB941225 D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as “otherwise” in the applicable procedures; SAR measurement is required for the secondary mode.

6.3 GSM Test Configuration

SAR tests for GSM850 and GSM1900, a communication link is set up with a base station by air link. Using CMU200 the power level is set to “5” and “0” in SAR of GSM850 and GSM1900. The tests in the band of GSM850 and GSM1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8PSK.

6.4 UMTS Test Configuration

1) Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all “1’s” for WCDMA/HSDPA or by 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, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

2) WCDMA

a. Head SAR Measurements

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode.

b. Body SAR Measurements

SAR for body-worn accessory configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode

3) HSDPA

SAR for body exposure configurations is measured according to the “Body SAR Measurements” procedures of 3G device. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as “otherwise” in the applicable procedures; SAR measurement is required for the secondary mode.

Per KDB941225 D01, the 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures for the highest reported SAR body exposure configuration in 12.2 kbps RMC.

HSDPA should be configured according to UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HAPRQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission condition, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. The β_c and β_d gain factors for DPCCH and DPDCH were set according to the values in the below table, β_{hs} for HS-DPCCH is set automatically to the correct value when ΔACK , $\Delta NACK$, $\Delta CQI = 8$. The variation of the β_c / β_d ratio causes a power reduction at sub-tests 2 - 4.

Sub-test [↗]	β_c [↗]	β_d [↗]	β_d (SF) [↗]	β_c/β_d [↗]	$\beta_{hs}(1)$ [↗]	CM(dB)(2) [↗]	MPR (dB) [↗]
1 [↗]	2/15 [↗]	15/15 [↗]	64 [↗]	2/15 [↗]	4/15 [↗]	0.0 [↗]	0 [↗]
2 [↗]	12/15(3) [↗]	15/15(3) [↗]	64 [↗]	12/15(3) [↗]	24/15 [↗]	1.0 [↗]	0 [↗]
3 [↗]	15/15 [↗]	8/15 [↗]	64 [↗]	15/8 [↗]	30/15 [↗]	1.5 [↗]	0.5 [↗]
4 [↗]	15/15 [↗]	4/15 [↗]	64 [↗]	15/4 [↗]	30/15 [↗]	1.5 [↗]	0.5 [↗]
Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$ Note 2 : CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases. [↗] Note 3 : For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$ [↗]							

Table 7: Sub-tests for UMTS Release 5 HSDPA

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI's
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 8: settings of required H-Set 1 QPSK acc. to 3GPP 34.121

HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter-TTI Interval	Maximum HS-DSCH Transport Block Bits/HS-DSCH TTI	Total Soft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600

16	15	1	27952	345600
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Table 9:HSDPA UE category

4) HSUPA

SAR for body exposure configurations is measured according to the “Body SAR Measurements” procedures of 3G device. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

Per KDB941225 D01, 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, SAR is measured for HSPA using the HSPA body SAR procedures for the highest reported body exposure SAR configuration in 12.2 kbps RMC.

Due to inner loop power control requirements in HSDPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSDPA should be configured according to the values indicated below as well as other applicable procedures described in the ‘WCDMA Handset’ and ‘Release 5 HSDPA Data Device’ sections of 3G device.

Sub-test ⁴	β_c ⁴	β_d ⁴	β_d (SF) ⁴	β_c/β_d ⁴	β_{hs} ⁽¹⁾ ⁴	β_{ec} ⁴	β_{ed} ⁴	β_e ⁴ (SF) ⁴	β_{ed} ⁴ (code) ⁴	CM ⁽²⁾ ⁴ (dB) ⁴	MP R ⁴ (dB) ⁴	AG ⁽⁴⁾ Inde x ⁴	E-TFC I ⁴
1 ⁴	11/15 ⁽³⁾ ⁴	15/15 ⁽³⁾ ⁴	64 ⁴	11/15 ⁽³⁾ ⁴	22/15 ⁴	209/225 ⁴	1039/225 ⁴	4 ⁴	1 ⁴	1.0 ⁴	0.0 ⁴	20 ⁴	75 ⁴
2 ⁴	6/15 ⁴	15/15 ⁴	64 ⁴	6/15 ⁴	12/15 ⁴	12/15 ⁴	94/75 ⁴	4 ⁴	1 ⁴	3.0 ⁴	2.0 ⁴	12 ⁴	67 ⁴
3 ⁴	15/15 ⁴	9/15 ⁴	64 ⁴	15/9 ⁴	30/15 ⁴	30/15 ⁴	$\beta_{ed1}:47/154$ $\beta_{ed2}:47/154$	4 ⁴	2 ⁴	2.0 ⁴	1.0 ⁴	15 ⁴	92 ⁴
4 ⁴	2/15 ⁴	15/15 ⁴	64 ⁴	2/15 ⁴	4/15 ⁴	2/15 ⁴	56/75 ⁴	4 ⁴	1 ⁴	3.0 ⁴	2.0 ⁴	17 ⁴	71 ⁴
5 ⁴	15/15 ⁽⁴⁾ ⁴	15/15 ⁽⁴⁾ ⁴	64 ⁴	15/15 ⁽⁴⁾ ⁴	30/15 ⁴	24/15 ⁴	134/15 ⁴	4 ⁴	1 ⁴	1.0 ⁴	0.0 ⁴	21 ⁴	81 ⁴
Note 1: Δ ACK, Δ NACK and Δ CQI = 8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$⁴ Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference⁴ Note 3 : For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$⁴ Note 4 : For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$⁴ Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g⁴ Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.⁴													

Table 10:Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	10	2SF2&2SF	11484	5.76
	4	4	2	4	20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF	22996	?
	4	4	10	4	20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM.(TS25.306-7.3.0).

Table 11:HSUPA UE category

5) 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 Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/lor	dB	-10
P-CCPCH and SCH_Ec/lor	dB	-12
PICH_Ec/lor	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/lor	dB	-5
OCNS_Ec/lor	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK

Parameter	Value
Nominal average inf. bit rate	60 kbit/s
Inter-TTI Distance	1 TTI's
Number of HARQ Processes	6 Processes
Information Bit Payload	120 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	960 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	3200 SMLs
Coding Rate	0.15
Number of Physical Channel Codes	1

Table 12: settings of required H-Set 12 QPSK acc. to 3GPP 34.121

Note:

- 1.The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.
- 2.Maximum number of transmission is limited to 1,i.e.,retransmission is not allowed. The redundancy and constellation version 0 shall be used.

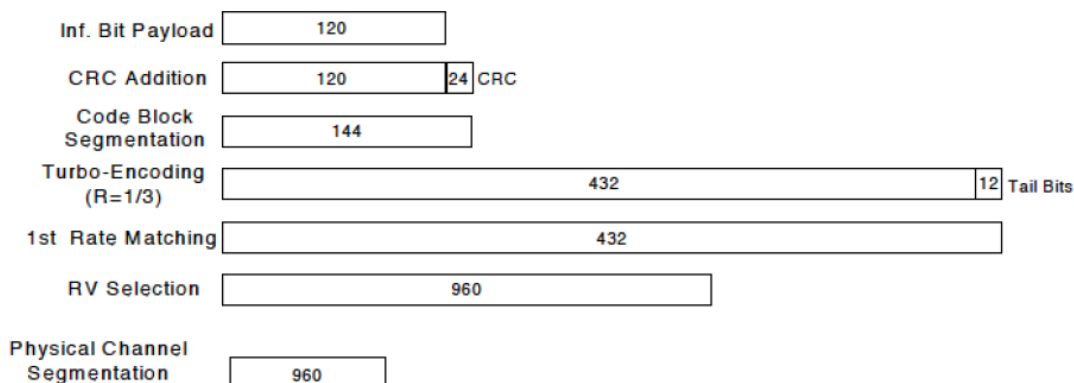


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

Sub-test ^o	β_c ^o	β_d ^o	β_d (SF) ^o	β_c/β_d ^o	$\beta_{hs}(1)$ ^o	CM(dB)(2) ^o	MPR (dB) ^o
1 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	0.0 ^o	0 ^o
2 ^o	12/15(3) ^o	15/15(3) ^o	64 ^o	12/15(3) ^o	24/15 ^o	1.0 ^o	0 ^o
3 ^o	15/15 ^o	8/15 ^o	64 ^o	15/8 ^o	30/15 ^o	1.5 ^o	0.5 ^o
4 ^o	15/15 ^o	4/15 ^o	64 ^o	15/4 ^o	30/15 ^o	1.5 ^o	0.5 ^o

Note 1: Δ ACK, Δ NACK and Δ CQI=8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
Note 2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$

Up commands are set continuously to set the UE to Max power.

Note:

- 1.The Dual Carriers transmission only applies to HSDPA physical channels
- 2.The Dual Carriers belong to the same Node and are on adjacent carriers.
- 3.The Dual Carriers do not support MIMO to serve UEs configured for dual cell operation
- 4.The Dual Carriers operate in the same frequency band .
- 5.The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
- 6.The device doesn't support carrier aggregation for it just can operate in Release 8.

6.5 LTE Test Configuration

SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices. The CMW500 WideBand Radio Communication Tester was 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 test were performed with the same number of RB and RB offsets transmitting on all TTI frames (Maximum TTI)

1) Spectrum Plots for RB configurations

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

2) MPR

When MPR is implemented permanently within the UE, regardless of network requirements, only those RB configurations allowed by 3GPP for the channel bandwidth and modulation combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR.

The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3

3) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by using Network Signalling Value of "NS_01" on the base station simulator.

4) LTE procedures for SAR testing

A) Largest channel bandwidth standalone SAR test requirements

i) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

ii) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in i) are applied to measure the SAR for QPSK with 50% RB allocation.

iii) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in i) and ii) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

iv) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

B) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

5) TDD LTE test configuration

According to KDB 941225 D05 SAR for LTE Devices v02r03, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

TDD LTE Band 41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Figure 4.2-1: Frame structure type 2

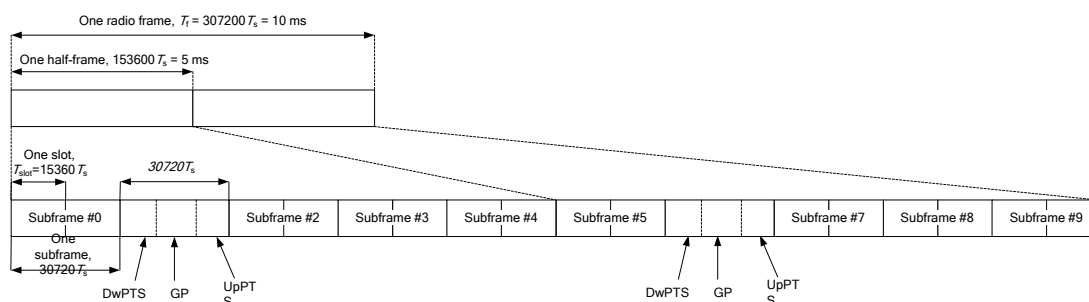


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 T_s$	$2192 T_s$	$2560 T_s$	$7680 T_s$	$2192 T_s$	$2560 T_s$
1	$19760 T_s$			$20480 T_s$		
2	$21952 T_s$			$23040 T_s$		
3	$24144 T_s$			$25600 T_s$		
4	$26336 T_s$			$7680 T_s$		
5	$6592 T_s$	$4384 T_s$	$5120 T_s$	$20480 T_s$	$4384 T_s$	$5120 T_s$
6	$19760 T_s$			$23040 T_s$		
7	$21952 T_s$			$12800 T_s$		
8	$24144 T_s$			-	-	-
9	$13168 T_s$			-	-	-

Table 4.2-2: Uplink-downlink configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number											
		0	1	2	3	4	5	6	7	8	9		
0	5 ms	D	S	U	U	U	D	S	U	U	U		
1	5 ms	D	S	U	U	D	D	S	U	U	D		
2	5 ms	D	S	U	D	D	D	S	U	D	D		
3	10 ms	D	S	U	U	U	D	D	D	D	D		
4	10 ms	D	S	U	U	D	D	D	D	D	D		
5	10 ms	D	S	U	D	D	D	D	D	D	D		
6	5 ms	D	S	U	U	U	D	S	U	U	D		

According to Figure 4.2-1, one radio frame is configured by 10 subframes, which consist of Uplink-subframe, Downlink-subframe and Special subframe. For TDD-LTE, the Duty Cycle should be calculated on Uplink-subframes and Special subframes, due to Special subframe containing both Uplink transmissions. So for one radio frame, Duty Cycle can be calculated with formula as below. The count of Uplink subframes are according to Table 4.2-2:

$$\text{Duty cycle} = (30720T_s \cdot \text{Ups} + \text{Uplink Component} \cdot \text{Specials}) / (307200T_s)$$

About the uplink component of Special subframes, we can figure out by Table 4.2-1:

$$\text{Uplink Component} = \text{UpPTS}$$

In conclusion, for the TDD LTE Band, Duty Cycle can be calculated with formula as below .all these sets are ok when we test, or we can set as below.

$$\text{Duty cycle} = [(30720T_s \cdot \text{Ups}) + \text{UpPTS} \cdot \text{Specials}] / (307200T_s)$$

And we can get different Duty cycles under different configurations:

Uplink-Downlink configuration	Subframe number			Configuration of special subframe							
				Normal cyclice prefix in downlink				Extended cyclice prefix in downlink			
				Normal cyclice prefix in uplink		Extended cyclice prefix in uplink		Normal cyclice prefix in uplink		Extended cyclice prefix in uplink	
	D	S	U	configuration				configuration			
				0~4	5~9	0~4	5~9	0~3	4~7	0~3	4~7
0	2	2	6	61.43%	62.85%	61.67%	63.33%	61.43%	62.85%	61.67%	63.33%
1	4	2	4	41.43%	42.85%	41.67%	43.33%	41.43%	42.85%	41.67%	43.33%
2	6	2	2	21.43%	22.85%	21.67%	23.33%	21.43%	22.85%	21.67%	23.33%
3	6	1	3	30.71%	31.43%	30.83%	31.67%	30.71%	31.43%	30.83%	31.67%
4	7	1	2	20.71%	21.43%	20.83%	21.67%	20.71%	21.43%	20.83%	21.67%
5	8	1	1	10.71%	11.43%	10.83%	11.67%	10.71%	11.43%	10.83%	11.67%
6	3	2	5	51.43%	52.85%	51.67%	53.33%	51.43%	52.85%	51.67%	53.33%

For TDD LTE, SAR should be tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7 for Frame structure type 2.

6.6 WiFi Test Configuration

For WiFi SAR testing, a communication link is set up with the testing software for WiFi mode test. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. The RF signal utilized in SAR measurement has 100% duty cycle and its crest factor is 1. The test procedures in KDB 248227D01v02 are applied. (Refer to KDB 248227D01 for more details)

6.6.1 Initial Test Position Procedure

For exposure condition with multiple test position, such as handsets operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all position in an exposure condition. The test position with the highest extrapolated(peak) SAR is used as the initial test position. When reported SAR for the initial test position is $\leq 0.4\text{W/kg}$, no additional testing for the remaining test position is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR position until the reported SAR result is $\leq 0.8\text{W/kg}$ or all test position are measured. For all positions/configurations tested using the initial test position and subsequent test positions, when the *reported* SAR is $> 0.8\text{ W/kg}$, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the *reported* SAR is $\leq 1.2\text{ W/kg}$ or all required channels are tested.

6.6.2 Initial Test Configuration Procedure

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required (see section 5.3.2 of KDB 248227D01). SAR test reduction of subsequent highest output test channels is based on the *reported* SAR of the initial test configuration.

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is $> 0.8\text{ W/kg}$, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the *reported* SAR is $\leq 1.2\text{ W/kg}$ or all required channels are tested.

6.6.3 Sub Test Configuration Procedure

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units.

When the highest reported SAR for the initial test configuration, according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR is not required for that subsequent test configuration.

6.6.4 WiFi 2.4G SAR Test Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions.

A) 802.11b DSSS SAR Test Requirements

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

- 1) When the *reported* SAR of the highest measured maximum output power channel (section 3.1 of of KDB 248227D01) 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 exposure configuration 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.

B) 2.4GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3 of of KDB 248227D01). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) When the highest *reported* SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

C) SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 a/g/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

6.6.5 U-NII-1 and U-NII-2A Bands

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest *reported* SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest *reported* SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- 3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest *reported* SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

6.6.6 U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands 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 to avoid SAR requirements.¹⁰ TDWR restriction does not apply under the new rules; all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands 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. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels.¹¹ When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

6.6.7 OFDM Transmission Mode SAR Test Channel Selection Requirements

For 2.4 GHz and 5 GHz bands, 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 is chosen over 802.11n then 802.11ac, or 802.11g is chosen over 802.11n) is used for SAR measurement. When the maximum output power are the same for multiple test channel, either according to the default or additional power measurement requirement, 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.

6.6.8 MIMO SAR Considerations

Per KDB 248227D01v02, simultaneous transmission provisions in KDB Publication 447498 should be used to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1-g SAR single transmission SAR measurement is $<1.6\text{W/kg}$, 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.

6.7 LTE CA and downlink 4 x 4 MIMO specification

6.7.1 LTE CA combinations specification

The device supports downlink LTE Carrier Aggregation (CA) for Intra-band and inter-band, and uplink LTE Carrier Aggregation (CA) for Intra-band.

- a) The LTE release and version numbers of the 3GPP documents used to implement the specific device(s): Release 13, 3GPP TS 36.211 V13.3.0 (2016-09)
- b) The associated 3GPP release and version numbers required for power measurements and RF test setup conditions:

Release 13, 3GPP TS 36.521-1 V13.3.0 (2016-09)

Release 14, 3GPP TS 36.101 V14.4.0 (2017-06)

The device supports parts of uplink and downlink Release 14 LTE carrier aggregations and the device does not support full CA features on 3GPP Release 14.

- 1) The device supports Intra-band uplink LTE CA for CA_7C, CA_38C, CA_41C with two component carriers in the uplink.
- 2) The device supports Intra-band and inter-band downlink LTE CA (See the table below)
- 3) The device does not support full CA features on 3GPP Release 13 nor Release 14. All other uplink communications are identical to the release 8 specifications. Other LTE Rel.10 or higher features are not supported, including Enhanced SC-FDMA, Uplink MIMO or other antenna diversity configurations, Wi-Fi offloading using LTE-U, LAA or LWA related protocols etc.

Intra-band contiguous CA operating bands

E-UTRA CA configuration / Bandwidth combination set							
E-UTRA CA configuration	Uplink CA configurations (NOTE 3)	Component carriers in order of increasing carrier frequency				Maximum aggregated bandwidth [MHz]	Bandwidth combination set
		Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_2C	NA	5	20			40	0
		10	15, 20				
		15	10, 15, 20				
		20	5, 10, 15, 20				
CA_5B	NA	5, 10	10			20	0
		10	5				
CA_7C	CA_7C	15	15			40	0
		20	20				
		10	20			40	1
		15	15, 20				
		20	10, 15, 20			40	2
		15	10, 15				
CA_12B	NA	5, 10				15	0
CA_38C	CA_38C	15	15			40	0
		20	20				
CA_41C	CA_41C	10	20			40	0
		15	15, 20				
		20	10, 15, 20				
		5, 10	20			40	1
		15	15, 20				
		20	5, 10, 15, 20				
		10	15, 20			40	2
		15	10, 15, 20				
		20	10, 15, 20				
		10	20			40	3
		20	20				
CA_41D	NA	10	20	15		60	0
		10	15, 20	20			
		15	20	10, 15			
		15	10, 15, 20	20			
		20	15, 20	10			
		20	10, 15, 20	15, 20			
CA_66B	NA	5	5, 10, 15			20	0
		10	5, 10				
		15	5				
CA_66C	NA	5	20			40	0
		10	15, 20				
		15	10, 15, 20				
		20	5, 10, 15, 20				

CA_66D	NA	5	20	20		60	0
		20	5	20			
		20	20	5			
		10	20	15			
		15	20	10			
		10, 15, 20	15, 20	20			
		15, 20	10	20			
		15	15, 20	15			
		20	15, 20	10, 15			
		20	10	15			
NOTE 1: The CA configuration refers to an operating band and a CA bandwidth class specified in Table 5.6A-1 (the indexing letter). Absence of a CA bandwidth class for an operating band implies support of all classes.							
NOTE 2: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.							
NOTE 3: Uplink CA configurations are the configurations supported by the present release of specifications.							

Intra-band non-contiguous CA operating bands (with two sub-blocks)

E-UTRA CA configuration / Bandwidth combination set							
E-UTRA CA configuration	Uplink CA configurations (NOTE 1)	Component carriers in order of increasing carrier frequency			Maximum aggregated bandwidth [MHz]	Bandwidth combination set	uplink CA capability
		Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]			
CA_2A-2A	-	5, 10, 15, 20	5, 10, 15, 20		40	0	NA
CA_4A-4A	-	5, 10, 15, 20	5, 10, 15, 20		40	0	NA
	-	5, 10	5, 10		20	1	NA
CA_7A-7A	-	5	15		40	0	NA
	-	10	10, 15				NA
	-	15	15, 20				NA
	-	20	20				NA
	-	5, 10, 15, 20	5, 10, 15, 20		40	1	NA
	-	5, 10, 15, 20	5, 10		30	2	NA
	-	10, 15, 20	10, 15, 20		40	3	NA
CA_12A-12A	-	5	5		10	0	NA
CA_41A-41A	-	10, 15, 20	10, 15, 20		40	0	NA
	-	5, 10, 15, 20	5, 10, 15, 20		40	1	NA
CA_66A-66A	-	5, 10, 15, 20	5, 10, 15, 20		40	0	NA

Inter-band CA operating bands (two bands)

E-UTRA CA configuration / Bandwidth combination set										
E-UTRA CA Configuration	Uplink CA configurations (NOTE 4)	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_2A-4A	-	2	Yes	Yes	Yes	Yes	Yes	Yes	40	0
		4			Yes	Yes	Yes	Yes		
		2			Yes	Yes			20	1
		4			Yes	Yes				
		2			Yes	Yes	Yes	Yes	40	2
		4			Yes	Yes	Yes	Yes		
CA_2A-4A-4A		2			Yes	Yes	Yes	Yes	60	0
		4	See CA_4A-4A Bandwidth Combination Set 0 in Table 5.4.2A.1-3							
CA_2A-5A	-	2			Yes	Yes	Yes	Yes	30	0
		5			Yes	Yes				
		2			Yes	Yes			20	1
		5			Yes	Yes				
CA_2A-7A	-	2			Yes	Yes	Yes	Yes	40	0
		7			Yes	Yes	Yes	Yes		
CA_2A-7C	-	2			Yes	Yes	Yes	Yes	60	0
		7	See the CA_7C Bandwidth combination set 1 in Table 5.4.2A.1-1							
CA_2A-7A-7A		2			Yes	Yes	Yes	Yes	60	0
		7	See the CA_7A-7A Bandwidth combination set 1 in Table 5.4.2A.1-3							
CA_2A-12A		2			Yes	Yes	Yes	Yes	30	0
		12			Yes	Yes				
		2			Yes	Yes	Yes	Yes	30	1
		12		Yes	Yes	Yes				
		2			Yes	Yes			20	2
		12			Yes	Yes				
CA_2A-12B		2			Yes	Yes	Yes	Yes	35	0
		12	See CA_12B Bandwidth Combination Set 0 in Table 5.4.2A.1-1							
CA_2A-2A-12A		2	See CA_2A-2A Bandwidth Combination Set 0 in Table 5.4.2A.1-3						50	0
		12			Yes	Yes				
CA_2A-12A-12A		2			Yes	Yes	Yes	Yes	30	0
		12	See CA_12A-12A Bandwidth Combination Set 0 in Table 5.4.2A.1-3							
CA_2A-17A		2			Yes	Yes			20	0
		17			Yes	Yes				
CA_2A-66A		2	Yes	Yes	Yes	Yes	Yes	Yes	40	0
		66			Yes	Yes	Yes	Yes		
		2			Yes	Yes			20	1
		66			Yes	Yes				
		2			Yes	Yes	Yes	Yes	40	2
		66			Yes	Yes	Yes	Yes		
CA_2A-2A-66A		2	See CA_2A-2A Bandwidth Combination Set 0 in Table 5.4.2A.1-3						60	0
		66			Yes	Yes	Yes	Yes		
CA_4A-5A	-	4			Yes	Yes			20	0
		5			Yes	Yes				
		4			Yes	Yes	Yes	Yes	30	1
		5			Yes	Yes				

CA_4A-4A-5A		4	See CA_4A-4A Bandwidth Combination Set 0 in table 5.4.2A.1-3						50	0
		5			Yes	Yes				
CA_4A-7A	-	4			Yes	Yes			30	0
		7			Yes	Yes	Yes	Yes		
		4			Yes	Yes	Yes	Yes	40	1
		7			Yes	Yes	Yes	Yes		
CA_4A-7C		4			Yes	Yes	Yes	Yes	60	0
		7	See CA_7C Bandwidth Combination Set 1 in Table 5.4.2A.1-1							
CA_4A-4A-7A		4			Yes	Yes			40	0
		4			Yes	Yes				
		7			Yes	Yes	Yes	Yes		
		4			Yes	Yes	Yes	Yes	60	1
		4			Yes	Yes	Yes	Yes		
		7			Yes	Yes	Yes	Yes		
CA_4A-7A-7A		4			Yes	Yes	Yes	Yes	60	0
		7	See the CA_7A-7A Bandwidth combination set 1 in Table 5.4.2A.1-3							
CA_4A-12A		4	Yes	Yes	Yes	Yes			20	0
		12			Yes	Yes				
		4	Yes	Yes	Yes	Yes	Yes	Yes	30	1
		12			Yes	Yes				
		4			Yes	Yes	Yes	Yes	30	2
		12		Yes	Yes	Yes				
		4			Yes	Yes			20	3
		12			Yes	Yes				
		4			Yes	Yes	Yes	Yes	30	4
		12			Yes	Yes				
		4			Yes	Yes	Yes		20	5
		12			Yes					
CA_4A-12B		4			Yes	Yes	Yes	Yes	35	0
		12	See CA_12B Bandwidth Combination Set 0 in Table 5.4.2A.1-1							
CA_4A-4A-12A		4	See CA_4A-4A Bandwidth Combination Set 0 in Table 5.4.2A.1-3						50	0
		12			Yes	Yes				
CA_4A-12A-12A		4			Yes	Yes	Yes	Yes	30	0
		12	See CA_12A-12A Bandwidth Combination Set 0 in Table 5.4.2A.1-3							
CA_4A-17A		4			Yes	Yes			20	0
		17			Yes	Yes				
CA_5A-7A	-	5	Yes	Yes	Yes	Yes			30	0
		7				Yes	Yes	Yes		
		5			Yes	Yes			30	1
		7				Yes	Yes	Yes		
CA_5A-7C		5			Yes	Yes			50	0
		7	See CA_7C Bandwidth Combination Set 1 in Table 5.4.2A.1-1							
CA_7A-12A		7			Yes	Yes	Yes	Yes	30	0
		12			Yes	Yes				
CA_7A-66A		7			Yes	Yes	Yes	Yes	40	0
		66			Yes	Yes	Yes	Yes		
CA_7C-66A		7	See CA_7C Bandwidth Combination Set 1 in Table 5.4.2A.1-1						60	0
		66			Yes	Yes	Yes	Yes		
CA_7A-66A-66A		7			Yes	Yes	Yes	Yes	60	0
		66	See CA_66A-66A Bandwidth Combination Set 0 in Table 5.4.2A.1-3							

CA_7C-66A-66A		7	See CA_7C Bandwidth Combination Set 1 in Table 5.4.2A.1-1						80	0
		66	See CA_66A-66A Bandwidth Combination Set 0 in Table 5.4.2A.1-3							
		40			Yes	Yes	Yes	Yes		
	-	8		Yes	Yes	Yes			30	1
		40			Yes	Yes	Yes	Yes		
CA_12A-66A		12			Yes	Yes			20	0
		66	Yes	Yes	Yes	Yes				
		12			Yes	Yes			30	1
		66	Yes	Yes	Yes	Yes	Yes	Yes		
		12		Yes	Yes	Yes			30	2
		66			Yes	Yes	Yes	Yes		
		12			Yes	Yes			20	3
		66			Yes	Yes				
		12			Yes	Yes			30	4
		66			Yes	Yes	Yes	Yes		
		12			Yes				20	5
		66			Yes	Yes	Yes			
CA_12A-66A-66A		12			Yes	Yes			50	0
		66	See CA_66A-66A Bandwidth combination set 0 in Table 5.4.2A.1-3							
CA_2A-66A-66A		2			Yes	Yes	Yes	Yes	60	0
		66	See CA_66A-66A Bandwidth Combination Set 0 in Table 5.4.2A.1-3							

NOTE 1: The CA Configuration refers to a combination of an operating band and a CA bandwidth class specified in Table 5.4.2A-1 (the indexing letter). Absence of a CA bandwidth class for an operating band implies support of all classes.

NOTE 2: For each band combination, all combinations of indicated bandwidths belong to the set.

NOTE 3: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.

NOTE 4: Uplink CA configurations are the configurations supported by the present release of specifications.

NOTE 5: For TDD inter-band Carrier Aggregation only non-simultaneous Rx/Tx uplink CA configurations can be supported by UE supporting corresponding DL CA configuration without simultaneous Rx/Tx.

NOTE 6: Void

NOTE 7: Power imbalance between downlink carriers on Band 20 and Band 28 is assumed to be within [6dB].

NOTE 8: For the corresponding CA configuration, UE may not support Pcell transmissions in this E-UTRA band

Note:

1) For the inter-band CA combinations, Except CA_4A-12A, CA_4A-4A-12A, CA_4A-12B, CA_4A-12A-12A, CA_4A-17A, CA_66A-12A, CA_66A-12B, CA_66A-66A-12A, B12 cannot be PCC, other the listed bands above can be used as PCC or SCC.

2) The channel spacing and aggregated channel bandwidth for CA are identical to the associated specification in 3GPP TS 36.101 V14.4.0 (2017-06)

3) The reference test frequencies for CA refers to 3GPP TS 36.508 V13.1.0

Inter-band CA operating bands (three bands)

E-UTRA CA configuration / Bandwidth combination set										
E-UTRA CA Configuration	Uplink CA configurations (NOTE 5)	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_2A-4A-5A		2			Yes	Yes	Yes	Yes	50	0
		4			Yes	Yes	Yes	Yes		
		5			Yes	Yes				
CA_2A-4A-7A		2			Yes	Yes	Yes	Yes	60	0
		4			Yes	Yes	Yes	Yes		
		7			Yes	Yes	Yes	Yes		
CA_2A-4A-7C		2			Yes	Yes	Yes	Yes	80	0
		4			Yes	Yes	Yes	Yes		
		7	See CA_7C Bandwidth Combination Set 1 in Table 5.4.2A.1-1							
CA_2A-4A-7A-7A		2			Yes	Yes	Yes	Yes	80	0
		4			Yes	Yes	Yes	Yes		
		7	See the CA_7A-7A Bandwidth combination set 1 in Table 5.4.2A.1-3							
CA_2A-4A-12A		2			Yes	Yes	Yes	Yes	50	0
		4			Yes	Yes	Yes	Yes		
		12			Yes	Yes				
CA_2A-4A-12A-12A		2			Yes	Yes	Yes	Yes	50	0
		4			Yes	Yes	Yes	Yes		
		12	See CA_12A-12A Bandwidth Combination Set 0 in Table 5.4.2A.1-3							
CA_2A-7A-12A		2			Yes	Yes	Yes	Yes	50	0
		7			Yes	Yes	Yes	Yes		
		12			Yes	Yes				
CA_2A-7A-66A		2			Yes	Yes	Yes	Yes	60	0
		7			Yes	Yes	Yes	Yes		
		66			Yes	Yes	Yes	Yes		
CA_2A-12A-66A		2			Yes	Yes	Yes	Yes	50	0
		12			Yes	Yes				
		66			Yes	Yes	Yes	Yes		
		2			Yes	Yes			40	1
		12			Yes	Yes				
		66			Yes	Yes	Yes	Yes		
CA_2A-2A-12A-66A		2	See CA_2A-2A Bandwidth Combination Set 0 in Table 5.4.2A.1-3						70	0
		12			Yes	Yes				
		66			Yes	Yes	Yes	Yes		
CA_2A-12B-66A		2			Yes	Yes	Yes	Yes	55	0
		12	See CA_12B Bandwidth Combination Set 0 in Table 5.4.2A.1-1							
		66			Yes	Yes	Yes	Yes		
CA_4A-7A-12A	- -	4			Yes	Yes			40	0
		7			Yes	Yes	Yes	Yes		
		12			Yes	Yes				
		4			Yes	Yes	Yes	Yes	50	1
		7			Yes	Yes	Yes	Yes		
		12			Yes	Yes				

NOTE 1: The CA Configuration refers to a combination of an operating band and a CA bandwidth class specified in Table 5.4.2A-1 (the indexing letter). Absence of a CA bandwidth class for an operating band implies support of all classes.

NOTE 2: For each band combination, all combinations of indicated bandwidths belong to the set.

NOTE 3: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.

NOTE 4: A terminal which supports a DL CA configuration shall support all the lower order fallback DL CA

combinations and it shall support at least one bandwidth combination set for each of the constituent lower order DL combinations containing all the bandwidths specified within each specific combination set of the upper order DL combination.

NOTE 5: Uplink CA configurations are the configurations supported by the present release of specifications.

Note:

- 1) For the inter-band CA combinations, Except CA_2A-4A-12A, CA_2A-4A-12A-12A, CA_2A-12A-66A, CA_2A-12B-66A, CA_2A-2A-12A-66A, CA_4A-7A-12A, B12 cannot be PCC, other the listed bands above can be used as PCC or SCC.
- 2) The channel spacing and aggregated channel bandwidth for CA are identical to the associated specification in 3GPP TS 36.101 V14.4.0 (2017-06)
- 3) The reference test frequencies for CA refers to 3GPP TS 36.508 V13.1.0

Inter-band CA operating bands (four bands)

E-UTRA CA configuration / Bandwidth combination set										
E-UTRA CA Configuration n	Uplink CA configurations (NOTE 5)	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_2A-4A-7A-12A		2			Yes	Yes	Yes	Yes	70	0
		4			Yes	Yes	Yes	Yes		
		7			Yes	Yes	Yes	Yes		
		12			Yes	Yes				
NOTE 1: The CA Configuration refers to a combination of an operating band and a CA bandwidth class specified in Table 5.4.2A -1 (the indexing letter). Absence of a CA bandwidth class for an operating band implies support of all classes.										
NOTE 2: For each band combination, all combinations of indicated bandwidths belong to the set.										
NOTE 3: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.										
NOTE 4: A terminal which supports a DL CA configuration shall support all the lower order fallback DL CA combinations and it shall support at least one bandwidth combination set for each of the constituent lower order DL combinations containing all the bandwidths specified within each specific combination set of the upper order DL combination.										
NOTE 5: Uplink CA configurations are the configurations supported by the present release of specifications.										
NOTE 6: If the UE supports any uplink CA configuration for corresponding downlink CA configuration it shall support this uplink CA configuration.										
NOTE 7: For the inter-band CA combinations,B12 cannot be PCC, other the listed bands above can be used as PCC or SCC.										

6.7.2 Test procedure for downlink CA

According to 201804 FCC RF Exposure TCB workshop slides, the guidance does not consider Intra-band DL CA and inter-band DL CA separately.

In applying the power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the CA configuration with the largest aggregated DL CA bandwidth in each frequency band group need consideration (independently for contiguous and non-contiguous CA). When the same frequency band is used for both contiguous and non-contiguous CA, power may be measured using the configuration with the largest aggregated bandwidth “and” maximum output power among the contiguous and non-contiguous CA configurations, otherwise, these are considered separately. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need consideration. the configurations that require power measurements are in the table as below:

Index	2CCs	Restriction	Covered by	Index	3CCs	Restriction	Covered by	Index	4CCs	Restriction	Covered by
2CCs#1	CA_2C		No	3CCs#1	CA_41D		No	4CCs#1	CA_7C-66A-66A		No
2CCs#2	CA_5B		No	3CCs#2	CA_66D		No	4CCs#2	CA_2A-4A-7C		No
2CCs#3	CA_12B		3CCs#6	3CCs#3	CA_2A-4A-4A		No	4CCs#3	CA_2A-4A-7A-7A		No
2CCs#4	CA_7C		3CCs#4	3CCs#4	CA_2A-7C		4CCs#2	4CCs#4	CA_2A-4A-12A-12A		No
2CCs#5	CA_38C		No	3CCs#5	CA_2A-7A-7A		4CCs#3	4CCs#5	CA_2A-2A-12A-66A		No
2CCs#6	CA_41C		No	3CCs#6	CA_2A-12B		4CCs#6	4CCs#6	CA_2A-12B-66A		No
2CCs#7	CA_66B		No	3CCs#7	CA_2A-2A-12A		4CCs#5	4CCs#7	CA_2A-4A-7A-12A		No
2CCs#8	CA_66C		No	3CCs#8	CA_2A-12A-12A		4CCs#4				
2CCs#9	CA_2A-2A		3CCs#7	3CCs#9	CA_2A-2A-66A		4CCs#5				
2CCs#10	CA_4A-4A		3CCs#3	3CCs#10	CA_4A-4A-5A		No				
2CCs#11	CA_7A-7A		3CCs#5	3CCs#11	CA_4A-7C		4CCs#2				
2CCs#12	CA_12A-12A		3CCs#8	3CCs#12	CA_4A-4A-7A		No				
2CCs#13	CA_41A-41A		No	3CCs#13	CA_4A-7A-7A		4CCs#3				
2CCs#14	CA_66A-66A		3CCs#19	3CCs#14	CA_4A-12B		No				
2CCs#15	CA_2A-4A		3CCs#3	3CCs#15	CA_4A-4A-12A		No				
2CCs#16	CA_2A-5A		3CCs#21	3CCs#16	CA_4A-12A-12A		4CCs#4				
2CCs#17	CA_2A-7A		3CCs#5	3CCs#17	CA_5A-7C		No				
2CCs#18	CA_2A-12A		3CCs#7	3CCs#18	CA_7C-66A		4CCs#1				
2CCs#19	CA_2A-17A		No	3CCs#19	CA_7A-66A-66A		No				
2CCs#20	CA_2A-66A		3CCs#9	3CCs#20	CA_12A-66A-66A		No				
2CCs#21	CA_4A-5A		3CCs#10	3CCs#21	CA_2A-4A-5A		No				
2CCs#22	CA_4A-7A		3CCs#12	3CCs#22	CA_2A-4A-7A		4CCs#3				
2CCs#23	CA_4A-12A		3CCs#15	3CCs#23	CA_2A-4A-12A		4CCs#4				
2CCs#24	CA_4A-17A		No	3CCs#24	CA_2A-7A-12A		4CCs#7				
2CCs#25	CA_5A-7A		No	3CCs#25	CA_2A-2A-66A		4CCs#5				
2CCs#26	CA_7A-12A		3CCs#24	3CCs#26	CA_2A-12A-66A		4CCs#5				
2CCs#27	CA_7A-66A		3CCs#19	3CCs#27	CA_4A-7A-12A		4CCs#7				
2CCs#28	CA_12A-66A		3CCs#20	3CCs#28	CA_2A-66A-66A		No				

Refer to section 7.1.31 of this report for detailed DL CA conducted power measurement results

6.7.3 Test procedure for Intra-band uplink CA

For Intra-band uplink LTE CA measurement, the following procedure according to 201804 FCC RF Exposure TCB workshop slides is applied:

- 1) Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05 (Rel. 8)
 - UL PCC configuration is determined by the required test channel
 - SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.
- 2) SAR for UL CA is required in each exposure condition and frequency band combination
- 3) For this device, as the maximum output for Intra-band uplink LTE CA is $\leq$ standalone LTE mode (without CA),
 - PCC is configured according to the highest standalone SAR configuration tested.
 - SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
- 4) When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels(PCC based)
- 5) UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

Refer to section 7.1.33 of this report for detailed UL CA conducted power measurement results.

6.7.4 LTE Downlink 4 x 4 MIMO specification and Test procedure

LTE B2/B4/B7/B66 of this device support downlink 4*4 MIMO , the information are tabulated below:

LTE Band support DL 4*4MIMO	B2/B4/B7/B66
Intra-band contiguous CA With DL 4*4MIMO	4*4MIMO Band
CA_2C	B2
CA_7C	B7
CA_66C	B66
Inter-band CA (two bands) With DL 4*4MIMO	4*4MIMO Band
CA_2A-4A	B2,B4
CA_2A-5A	B2
CA_2A-7A	B2,B7
CA_2A-7C	B2,B7
CA_2A-12A	B2
CA_2A-12B	B2
CA_2A-17A	B2
CA_2A-66A	B2,B66
CA_4A-5A	B4
CA_4A-7A	B4,B7
CA_4A-7C	B4,B7
CA_4A-12A	B4(PCC only)
CA_4A-12B	B4(PCC only)
CA_4A-17A	B4(PCC only)
CA_5A-7A	B7
CA_5A-7C	B7
CA_7A-12A	B7
CA_7A-66A	B7,B66
CA_7C-66A	B7,B66
CA_12A-66A	B66(PCC only)
CA_12B-66A	B66(PCC only)
Inter-band CA (Three bands) With DL 4*4MIMO	4*4MIMO Band
CA_2A-7A-7A	B2
CA_2A-2A-66A	B66
CA_4A-4A-7A	B7
CA_4A-7A-7A	B4
CA_4A-12A-12A	B4(PCC only)
CA_7A-66A-66A	B7
CA_7C-66A-66A	B7
CA_2A-4A-5A	B2,B4
CA_2A-4A-7A	B2,B4,B7
CA_2A-4A-7C	B2,B4
CA_2A-4A-7C	B2,B7(B2,B7 PCC only)
CA_2A-4A-7C	B4,B7(B4,B7 PCC only)
CA_2A-4A-12A	B2,B4(B2,B4 PCC only)
CA_2A-7A-12A	B2,B7
CA_2A-7A-66A	B2,B7,B66
CA_2A-12A-66A	B2,B66(B2,B66 PCC only)

CA_2A-12B-66A	B2,B66(B2,B66 PCC only)
CA_4A-7A-12A	B4,B7(B4,B7 PCC only)

Inter-band CA (Four bands) With DL 4*4MIMO	4*4MIMO Band
CA_2A-4A-7A-7A	B2,B4
CA_2A-4A-12A-12A	B4(B2,B4 PCC only)
CA_2A-2A-12A-66A	B66(B2,B66 PCC only)
CA_2A-4A-7A-12A	B2,B4(B2,B4,B7 PCC only)
CA_2A-4A-7A-12A	B2,B7(B2,B4,B7 PCC only)
CA_2A-4A-7A-12A	B4,B7(B2,B4,B7 PCC only)

According to 201705 FCC RF Exposure TCB workshop slides, the guidance does not consider Intra-band DL CA and inter-band DL CA separately.

SAR test exclusion for LTE DL 4x4 MIMO should be determined by UL power measurements with and without DL MIMO using the highest UL output power configuration without DL MIMO to confirm that UL output with DL MIMO is < ¼ dB higher. For DL MIMO with carrier aggregation, the same SAR test exclusion procedure should be considered.

In applying the power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the CA configuration with the largest aggregated DL CA bandwidth in each frequency band group need consideration (independently for contiguous and non-contiguous CA). When the same frequency band is used for both contiguous and non-contiguous CA, power may be measured using the configuration with the largest aggregated bandwidth “and” maximum output power among the contiguous and non-contiguous CA configurations, otherwise, these are considered separately. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need consideration. the configurations that require power measurements are in the table as below:

Index	2CCs	Covered by	Index	3CCs	Restriction	Covered by	Index	4CCs	Restriction	Covered by
2CCs#1	CA_2C	No	3CCs#1	CA_2A-7C		4CCs#2	4CCs#1	CA_7C-66A-66A		No
2CCs#2	CA_7C	3CCs#1	3CCs#2	CA_2A-12B		4CCs#3	4CCs#2	CA_2A-4A-7C		No
2CCs#3	CA_66C	No	3CCs#3	CA_4A-7C		4CCs#3	4CCs#3	CA_2A-12B-66A		No
2CCs#4	CA_2A-4A	3CCs#14	3CCs#4	CA_4A-12B		No	4CCs#4	CA_2A-4A-7A-7A		No
2CCs#5	CA_2A-5A	3CCs#14	3CCs#5	CA_5A-7C		No	4CCs#5	CA_2A-4A-12A-12A		No
2CCs#6	CA_2A-7A	3CCs#8	3CCs#6	CA_7C-66A		4CCs#1	4CCs#6	CA_2A-2A-12A-66A		No
2CCs#7	CA_2A-12A	3CCs#16	3CCs#7	CA_12B-66A		4CCs#3	4CCs#7	CA_2A-4A-7A-12A		No
2CCs#8	CA_2A-17A	No	3CCs#8	CA_2A-7A-7A		4CCs#4				
2CCs#9	CA_2A-66A	3CCs#9	3CCs#9	CA_2A-2A-66A		4CCs#6				
2CCs#10	CA_4A-5A	3CCs#14	3CCs#10	CA_4A-4A-7A		No				
2CCs#11	CA_4A-7A	3CCs#10	3CCs#11	CA_4A-7A-7A		4CCs#4				
2CCs#12	CA_4A-12A	3CCs#12	3CCs#12	CA_4A-12A-12A		4CCs#5				
2CCs#13	CA_4A-17A	No	3CCs#13	CA_7A-66A-66A		No				
2CCs#14	CA_5A-7A	No	3CCs#14	CA_2A-4A-5A		No				
2CCs#15	CA_7A-12A	3CCs#17	3CCs#15	CA_2A-4A-7A		4CCs#4				
2CCs#16	CA_7A-66A	3CCs#13	3CCs#16	CA_2A-4A-12A		4CCs#5				
2CCs#17	CA_12A-66A	3CCs#19	3CCs#17	CA_2A-7A-12A		4CCs#7				
			3CCs#18	CA_2A-7A-66A		No				
			3CCs#19	CA_2A-12A-66A		4CCs#6				
			3CCs#20	CA_4A-7A-12A		4CCs#7				

Refer to section 7.1.32 of this report for detailed DL 4*4 MIMO conducted power measurement results.

6.8 Power Reduction Specification

This device uses the following power reduction features to reduce the transmit power and ensure SAR compliance. These power reduction features are implemented using a single fixed level of reduction through static table look-up for some wireless operating modes or frequency bands and triggered by a single event or operation. The published RF exposure KDB procedures are applicable to the specific implementation and applied for testing. So PAG is not required for these features.

- 1) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.
- 2) A fixed level power reduction is applied for some frequency bands when 2G/3G/4G and WIFI transmit simultaneously.
- 3) This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on.
- 4) This device uses the mobile country code (MCC) to indicate whether the users in CE countries or FCC countries. The selection between CE countries and FCC countries power levels is based on the country code detection mechanism. It can determine the countries where users are and set the relevant power level for WiFi antennas accordingly.

Antenna	MCC OF CE COUNTRY (CE standard)	MCC OF FCC COUNTRY (FCC standard)
WiFi 2.4G Ant	Power Level A1	Power Level B1
WiFi 5G Ant	Power Level A2	Power Level B2

- 5) This device uses a proximity sensor that shares the same metallic electrode as the 2G/3G/4G main transmitting antenna to reduce the maximum output power in selected wireless modes and operating configurations to ensure SAR compliance. The procedures in KDB 616217 are applied to determine proximity sensor triggering distances, and sensor coverage for normal and tilt positions.

6.8.1 Power Reduction Specification of 2G/3G/4G Second Antenna

The following tables summarize the key power reduction information of 2G/3G/4G second antenna triggered by specific use conditions. The detailed full power and reduced conducted power measurement results are provided in Section 7 of this report:

Band	Second Antenna Power Reduction Level Amount (dB)			
	Second Antenna only		Second Antenna+WiFi Antenna simultaneous transmission	
	Receiver off (Full Power)	Receiver on	Receiver off	Receiver on
GSM1900	0	1.0	0	1.0
UMTS Band II	0	6.0	2.0	8.0
UMTS Band IV	0	7.5	1.0	8.5
UMTS Band V	0	4.5	0	4.5
LTE Band 2	0	6.5	1.0	7.5
LTE Band 4	0	7.0	1.5	8.5
LTE Band 5	0	4.5	0	4.5
LTE Band 7	0	6.0	0	6.0
LTE Band 12	0	4.0	0	4.0
LTE Band 17	0	4.0	0	4.0
LTE Band 26	0	4.5	0	4.5
LTE Band 38	0	6.5	1.0	7.5
LTE Band 41	0	8.5	2.5	11.0
LTE Band 66	0	6.5	2.5	9.0

Note: For Head SAR test of 2G/3G/4G Second Antenna, Standalone Head SAR should be evaluated at with audio receiver on. As the audio receiver only works in voice mode when the user is making a call in head scenario, and the lack of the third-party VoIP server and the unstandardized VOIP operating characteristics, so a test script may be used to trigger the receiver on during the test. The test script function is only used to trigger audio receiver on and simulate voice and VOIP usage scene. It can be ensured that the unmodified settings in production units, including maximum output power, amplifier gain and other RF performance or tuning parameters, are used for SAR measurement.

6.8.2 Power Reduction Specification of WiFi Antenna

The following tables summarize the key power reduction information of WiFi antennas. The detailed full power and reduced conducted power measurement results are provided in section 7 of this report:

Power Reduction Level Amount (dB)				
Band/Mode(Ant)	WiFi Antenna			
	MCC OF CE COUNTRY		MCC OF FCC COUNTRY	
	Receiver on	Receiver off (Full Power)	Receiver on	Receiver off (Full Power)
WiFi 2.4G 802.11b (Ant1/Ant2)	4.0	0	5.0	0
WiFi 2.4G 802.11g (Ant1/Ant2/CDD)	4.0	0	5.0	0
WiFi 2.4G 802.11n(20M) (Ant1/Ant2/MIMO)	3.0	0	4.0	0
WiFi 2.4G 802.11n(40M) (Ant1/Ant2/MIMO)	2.5	0	2.5	0
WiFi 5G 802.11a Ant1	1.5	0	5.0	0
WiFi 5G 802.11a Ant2	0.5	0	4.0	0
WiFi 5G 802.11a CDD	1.0	0	4.5	0
WiFi 5G 802.11n(20M) Ant1	0.5	0	4.0	0
WiFi 5G 802.11n (20M)Ant2	0	0	3.0	0
WiFi 5G 802.11n (20M)MIMO	0.3	0	3.5	0
WiFi 5G 802.11 n(40M) Ant1	0	0	4.5	0
WiFi 5G 802.11n(40M) Ant2	0	0	3.5	0
WiFi 5G 802.11 n(40M) MIMO	0	0	4.0	0
WiFi 5G 802.11ac(20M) Ant1	0.5	0	4.0	0
WiFi 5G 802.11ac(20M) Ant2	0	0	3.0	0
WiFi 5G 802.11ac(20M) MIMO	0.3	0	3.5	0
WiFi 5G 802.11ac(40M) Ant1	1.0	0	4.5	0
WiFi 5G 802.11 ac(40M) Ant2	0	0	3.5	0
WiFi 5G 802.11 ac(40M) MIMO	0.5	0	4.0	0
WiFi 5G 802.11 ac(80M) Ant1	0	0	0	0
WiFi 5G 802.11 ac(80M) Ant2	0	0	0	0
WiFi 5G 802.11 ac(80M) MIMO	0	0	0	0
WiFi 5G 802.11 ac(160M) Ant1	0	0	0	0
WiFi 5G 802.11 ac(160M) Ant2	0	0	0	0
WiFi 5G 802.11 ac(160M) MIMO	0	0	0	0

For FCC SAR test, WIFI SAR test should be evaluated at the power level of FCC mobile country code for each exposure conditions

6.8.3 Power Reduction Specification of 2G/3G/4G Main Antenna

The following tables summarize the key power reduction information of 2G/3G/4G main antenna. The detailed full power and reduced conducted power measurement results are provided in section 7 of this report:

Band	2G/3G/4G Main Antenna Power Reduction Level Amount (dB)					
	Full power (Other conditions)	Receiver off				
		hotspot off		hotspot on		
		sensor on*		sensor off	sensor on**	
	Power Level D3	Power Level D1	Power Level D2	Power Level D4	Power Level D5	Power Level D6
GSM1900	0	0	1.5	5.0	5.0	6.5
UMTS Band II	0	0	4.0	7.0	7.0	11
UMTS Band IV	0	0	5.0	6.5	6.5	11.5
LTE Band 2	0	0	4.0	7.0	7.0	11
LTE Band 4	0	0	5.0	6.5	6.5	11.5
LTE Band 7	0	2.0	3.5	2.5	4.5	6.0
UL CA_7C	0	2.0	3.5	2.5	4.5	6.0
LTE Band 38	0	0	1.0	0	0	1.0
UL CA_38C	0	0	1.0	0	0	1.0
LTE Band 66	0	0	5.0	7.0	7.0	12

Note:

- 1) * Sensor power level 1 or power level 2 is determined by different sensor Trigger Distance range when hotspot is off;
- 2) ** Sensor power level 5 or power level 6 is determined by different sensor Trigger Distance range when hotspot is on;
- 3) For some frequency bands, the power reduction level amount value 0 means there is no power reduction in this frequency band and exposure conditions. The power level is the same as full power level D3.
- 4) Please refer to section 6.8.4 for detailed Proximity sensor power reduction test configuration and validation results per KDB616217.

6.8.4 Proximity sensor Power Reduction Test configuration and validation

Due to the operating configurations and exposure conditions required by the device, the proximity sensor is used to indicate when the device is held close to a user's body/hotspot exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance.

The following tables summarize the key power reduction information for proximity sensor. The test procedures in KDB 616217 should be applied to determine proximity sensor triggering distances, and sensor coverage for normal and tilt positions. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

2G/3G/4G Main antenna (hotspot off)					
Band	Test position	Sensor Trigger Distance range(DUT to Phantom)	Power reduction amount(dB)	Max Power level (dBm)	Power level
GSM 1900	Bottom side	0mm ≤ distance ≤ 9mm	1.5	29.0	Level D2
		9mm < distance	0	30.5	Level D3
	Back side	0mm ≤ distance ≤ 5mm	1.5	29.0	Level D2
		5mm < distance	0	30.5	Level D3
	Front side	0mm ≤ distance ≤ 4mm	1.5	29.0	Level D2
		4mm < distance	0	30.5	Level D3
	Left side	ALL	0	30.5	Level D3
	Right side	ALL	0	30.5	Level D3
	Top side	ALL	0	30.5	Level D3
WCDMA Band II	Bottom side	0mm ≤ distance ≤ 9mm	4.0	21.0	Level D2
		9mm < distance	0	25.0	Level D3
	Back side	0mm ≤ distance ≤ 5mm	4.0	21.0	Level D2
		5mm < distance	0	25.0	Level D3
	Front side	0mm ≤ distance ≤ 4mm	4.0	21.0	Level D2
		4mm < distance	0	25.0	Level D3
	Left side	ALL	0	25.0	Level D3
	Right side	ALL	0	25.0	Level D3

	Top side	ALL	0	25.0	Level D3
WCDMA Band IV	Bottom side	0mm ≤ distance ≤ 9mm	5.0	20.0	Level D2
		9mm < distance	0	25.0	Level D3
	Back side	0mm ≤ distance ≤ 5mm	5.0	20.5	Level D2
		5mm < distance	0	25.0	Level D3
	Front side	0mm ≤ distance ≤ 4mm	5.0	20.0	Level D2
		4mm < distance	0	25.0	Level D3
	Left side	ALL	0	25.0	Level D3
	Right side	ALL	0	25.0	Level D3
	Top side	ALL	0	25.0	Level D3
LTE B2	Bottom side	0mm ≤ distance ≤ 9mm	4.0	20.5	Level D2
		9mm < distance	0	24.5	Level D3
	Back side	0mm ≤ distance ≤ 5mm	4.0	20.5	Level D2
		5mm < distance	0	24.5	Level D3
	Front side	0mm ≤ distance ≤ 4mm	4.0	20.5	Level D2
		4mm < distance	0	24.5	Level D3
	Left side	ALL	0	24.5	Level D3
	Right side	ALL	0	24.5	Level D3
	Top side	ALL	0	24.5	Level D3
LTE B4	Bottom side	0mm ≤ distance ≤ 9mm	5.0	19.5	Level D2
		9mm < distance	0	24.5	Level D3
	Back side	0mm ≤ distance ≤ 5mm	5.0	19.5	Level D2
		5mm < distance	0	24.5	Level D3
	Front side	0mm ≤ distance ≤ 4mm	5.0	19.5	Level D2
		4mm < distance	0	24.5	Level D3
	Left side	ALL	0	24.5	Level D3
	Right side	ALL	0	24.5	Level D3
	Top side	ALL	0	24.5	Level D3
LTE B7	Bottom side	0mm ≤ distance ≤ 9mm	3.5	21.0	Level D2
		9mm < distance ≤ 17mm	2	22.5	Level D1
		distance > 17mm	0	24.5	Level D3

	Back side	0mm ≤ distance ≤ 5mm	3.5	21.0	Level D2
		5mm < distance ≤ 12mm	2	22.5	Level D1
		distance > 12mm	0	24.5	Level D3
	Front side	0mm ≤ distance ≤ 4mm	3.5	21.0	Level D2
		4mm < distance ≤ 11mm	2	22.5	Level D1
		distance > 11mm	0	24.5	Level D3
	Left side	ALL	0	24.5	Level D3
	Right side	ALL	0	24.5	Level D3
	Top side	ALL	0	24.5	Level D3
LTE B38	Bottom side	0mm ≤ distance ≤ 9mm	1	23.5	Level D2
		9mm < distance ≤ 17mm	0	24.5	Level D2
		distance > 17mm	0	24.5	Level D3
	Back side	0mm ≤ distance ≤ 5mm	1	23.5	Level D2
		5mm < distance ≤ 12mm	0	24.5	Level D2
		distance > 12mm	0	24.5	Level D3
	Front side	0mm ≤ distance ≤ 4mm	1	23.5	Level D2
		4mm < distance ≤ 11mm	0	24.5	Level D2
		distance > 11mm	0	24.5	Level D3
	Left side	ALL	0	24.5	Level D3
	Right side	ALL	0	24.5	Level D3
	Top side	ALL	0	24.5	Level D3
LTE B66	Bottom side	0mm ≤ distance ≤ 9mm	5	19.5	Level D2
		9mm < distance ≤ 17mm	0	24.5	Level D1
		distance > 17mm	0	24.5	Level D3
	Back side	0mm ≤ distance ≤ 5mm	5	19.5	Level D2
		5mm < distance ≤ 12mm	0	24.5	Level D1
		distance > 12mm	0	24.5	Level D3
	Front side	0mm ≤ distance ≤ 4mm	5	19.5	Level D2
		4mm < distance ≤ 11mm	0	24.5	Level D1

		distance >11mm	0	24.5	Level D3
	Left side	ALL	0	24.5	Level D3
	Right side	ALL	0	24.5	Level D3
	Top side	ALL	0	24.5	Level D3

Note:

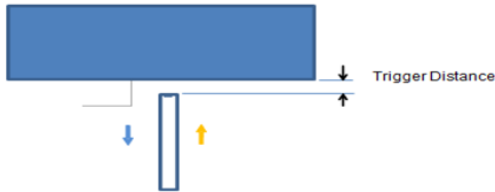
1) To ensure all production units are compliant, the smallest separation distance determined by the sensor triggering and sensor coverage for normal and tilt positions for all usage conditions and applicable sides, minus 1 mm, must be used as the test separation distance for additional SAR testing of each higher power stage.

For the other sides or other frequency bands of the device, SAR is still tested at the maximum full power level with sensor off.

1) Procedures for determining proximity sensor triggering distances

The device was tested by the test lab to determine the proximity sensor triggering distances for the front side, back side and bottom side of the device. To ensure all production units are compliant, the smallest separation distance determined by the sensor triggering minus 1 mm, must be used as the test separation distance for SAR testing.

the proximity sensor triggering distance measurement method are as below:



Picture: Proximity sensor triggering distances assessment Bottom Side



Picture: Proximity sensor triggering distances assessment Front Side and Back side

Table: Summary of Trigger Distances(hotspot off)

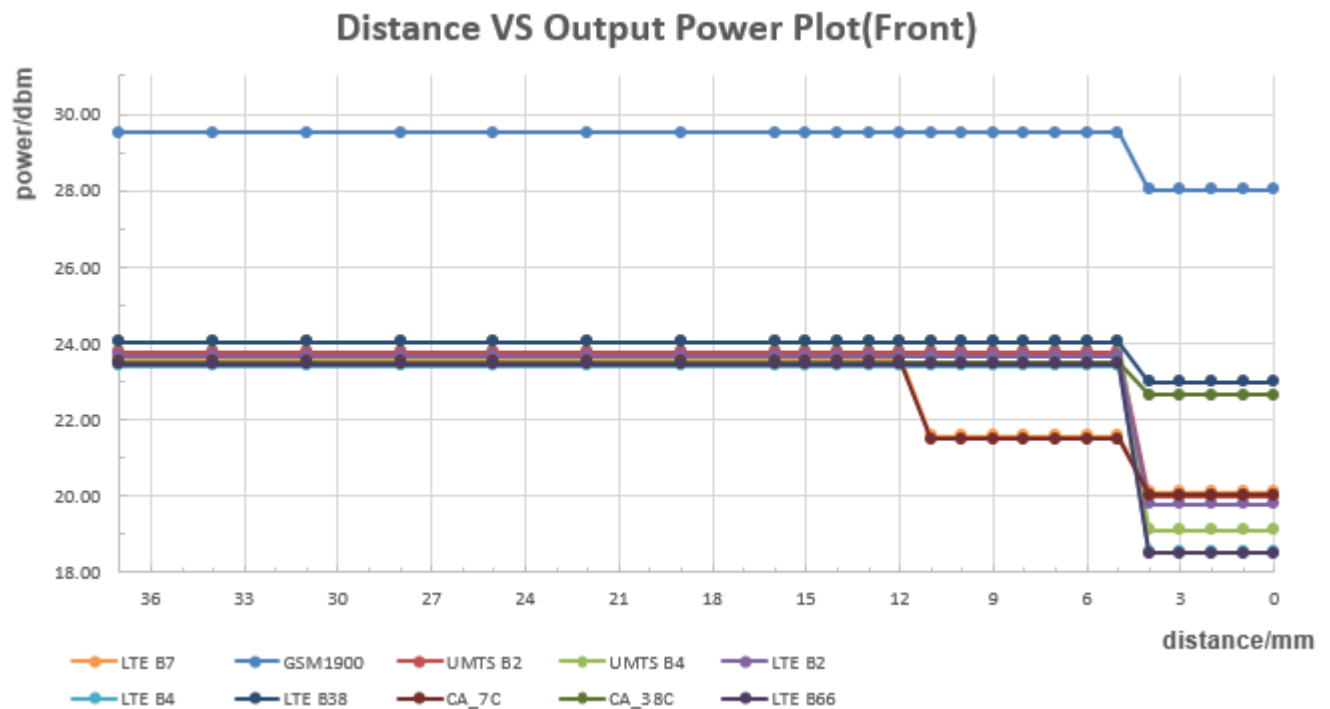
Band	Power Level*	Trigger distance-Front Side		Trigger distance-Back Side		Trigger distance-Bottom Side	
		Moving toward phantom	Moving away from phantom	Moving toward phantom	Moving away from phantom	Moving toward phantom	Moving away from phantom
GSM1900	D2	4mm	5mm	5mm	6mm	9mm	10mm
UMTS Band II	D2	4mm	5mm	5mm	6mm	9mm	10mm
UMTS Band IV	D2	4mm	5mm	5mm	6mm	9mm	10mm
LTE Band 2	D2	4mm	5mm	5mm	6mm	9mm	10mm
LTE Band 4	D2	4mm	5mm	5mm	6mm	9mm	10mm
LTE Band 7	D2	4mm	5mm	5mm	6mm	9mm	10mm
	D1	11mm	12mm	12mm	13mm	17mm	18mm
UL CA_7C	D2	4mm	5mm	5mm	6mm	9mm	10mm
	D1	11mm	12mm	12mm	13mm	17mm	18mm
LTE Band 38	D2	4mm	5mm	5mm	6mm	9mm	10mm
UL CA_38C	D2	4mm	5mm	5mm	6mm	9mm	10mm
LTE Band 66	D2	4mm	5mm	5mm	6mm	9mm	10mm

Note:

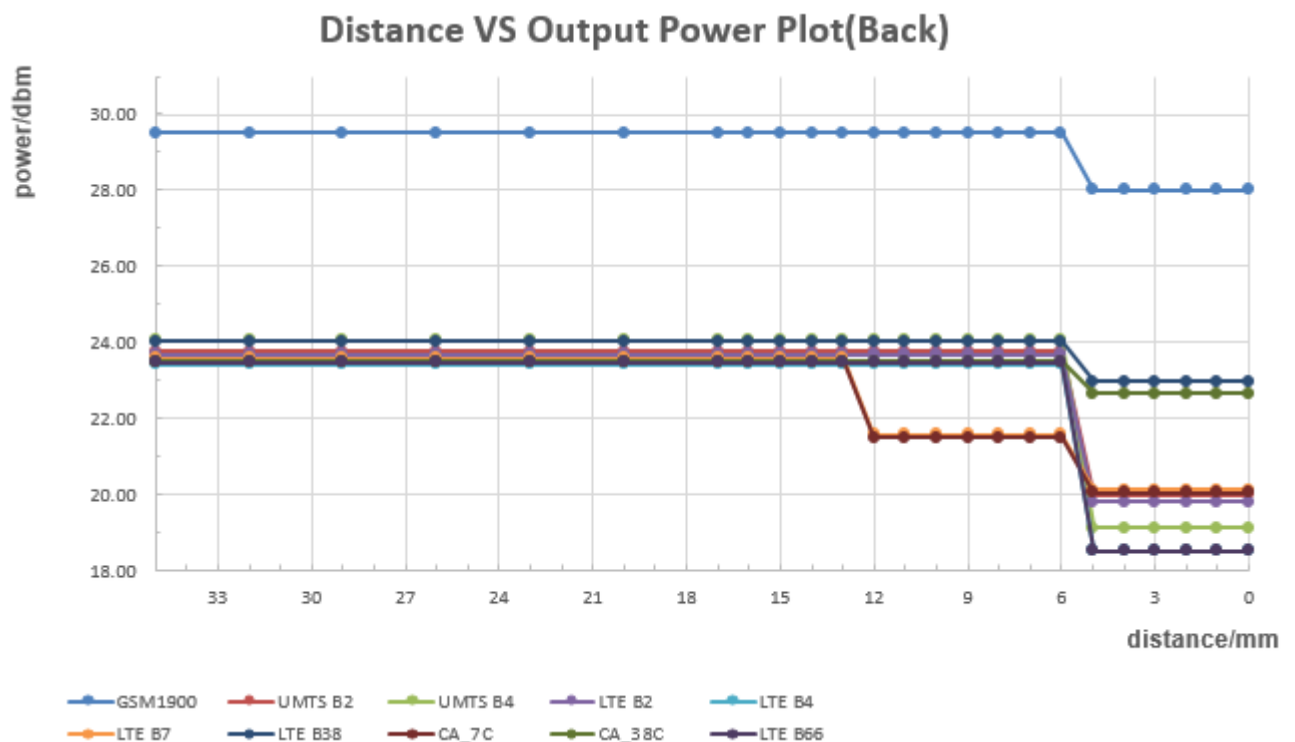
- 1) * The sensor Trigger Distance of D5(hotspot on) and D1 (hotspot off) are the same.
- 2) * The sensor Trigger Distance of D6(hotspot on) and D2 (hotspot off) are the same.

The detailed conducted power measurement data to determine the triggering distances is as below:

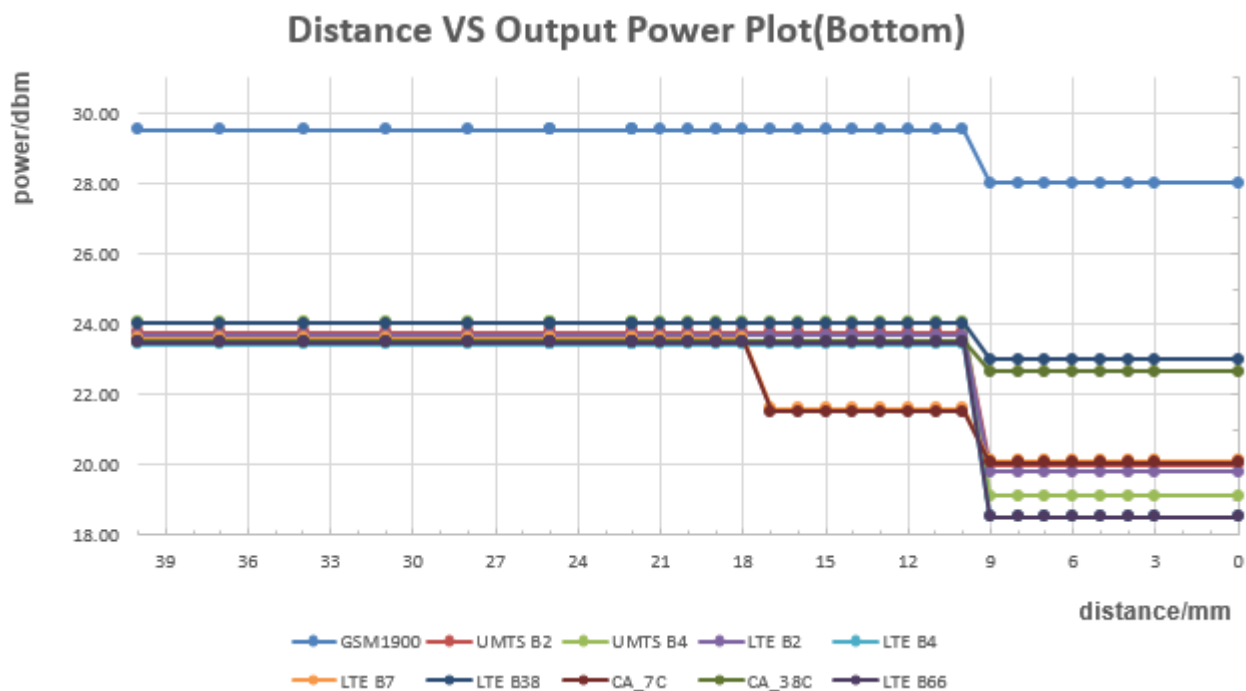
The DUT(Front side) is moved towards the flat phantom(Hotspot off):



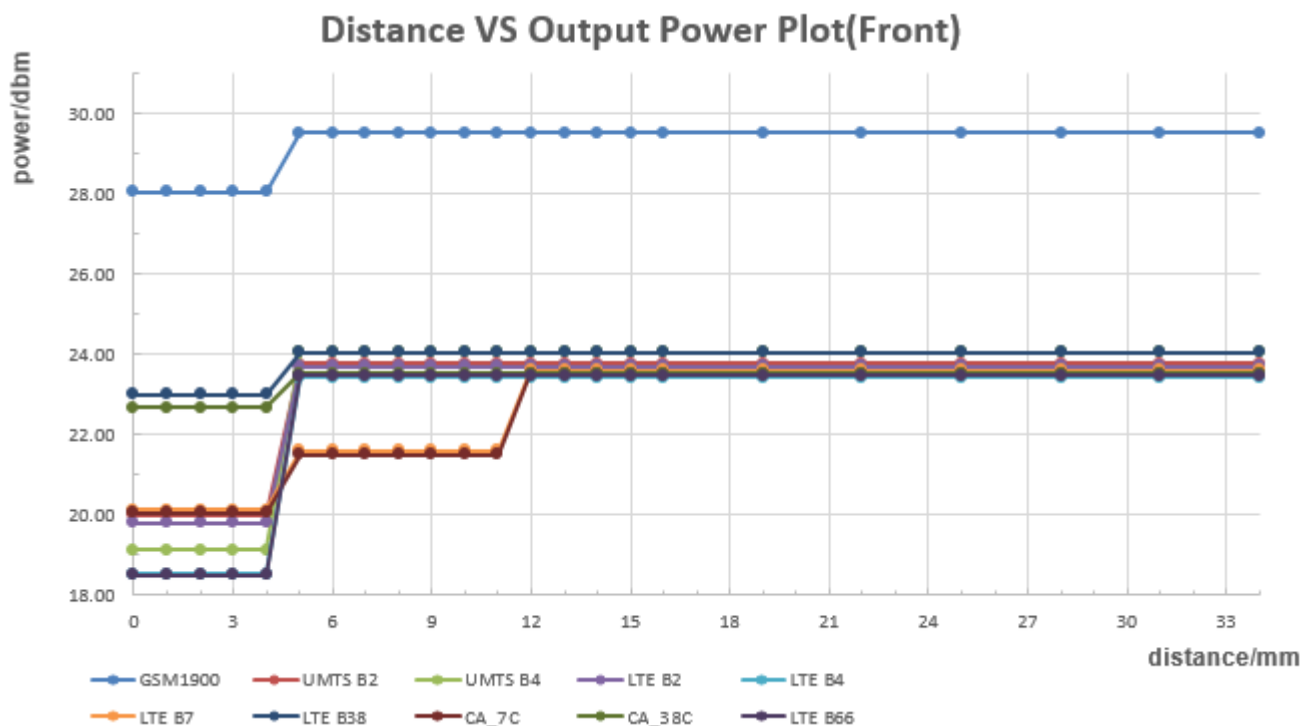
The DUT(Back side) is moved towards the flat phantom(Hotspot off):



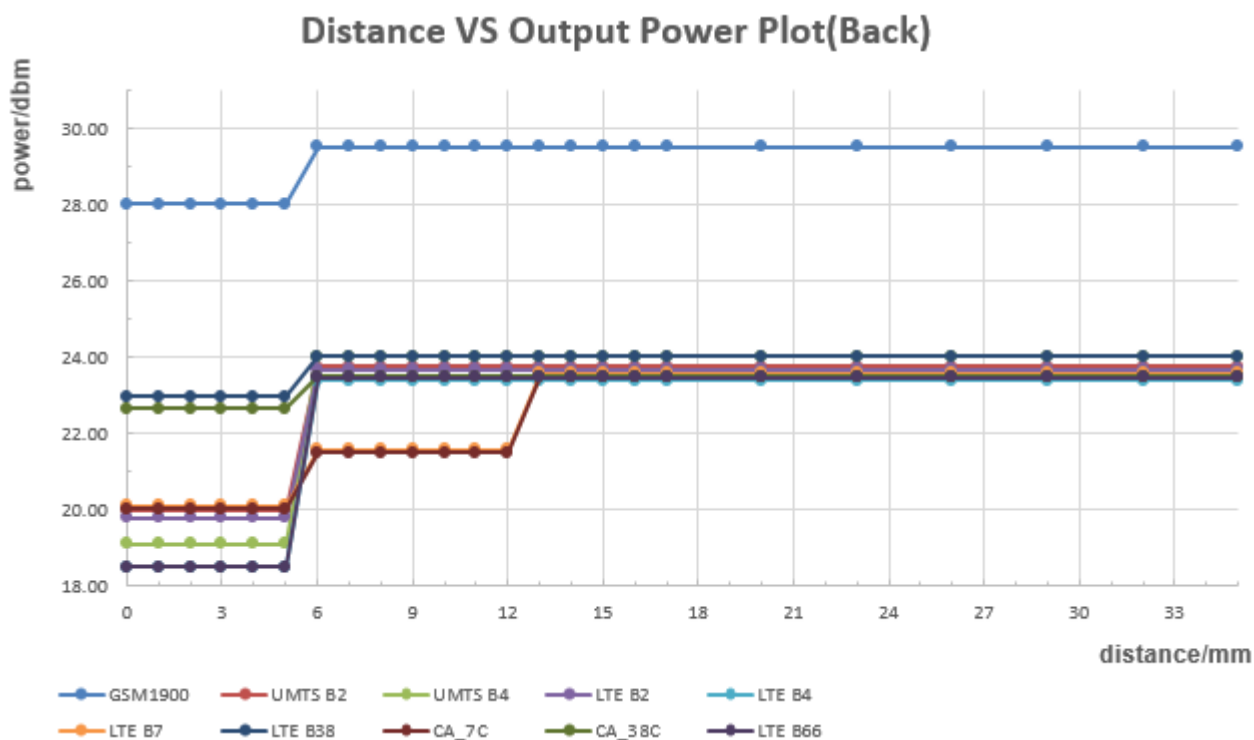
The DUT(Bottom side) is moved towards the flat phantom(Hotspot off):



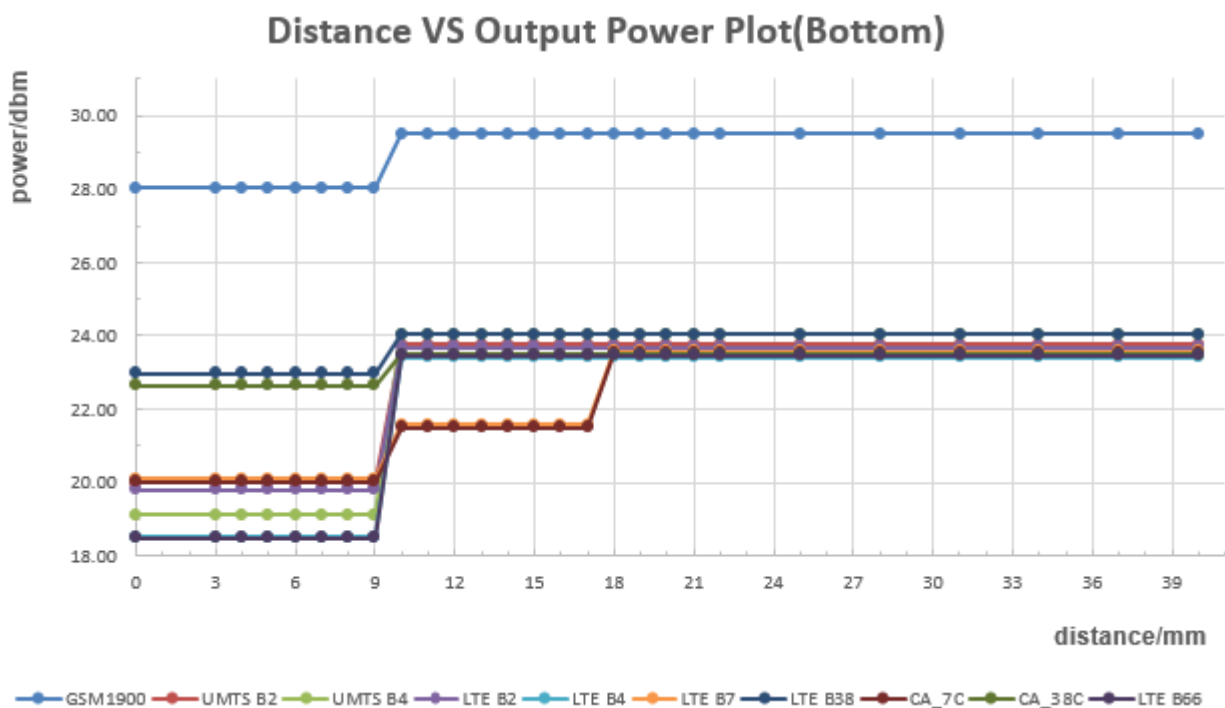
The DUT(Front side) is moved away from the flat phantom(Hotspot off):



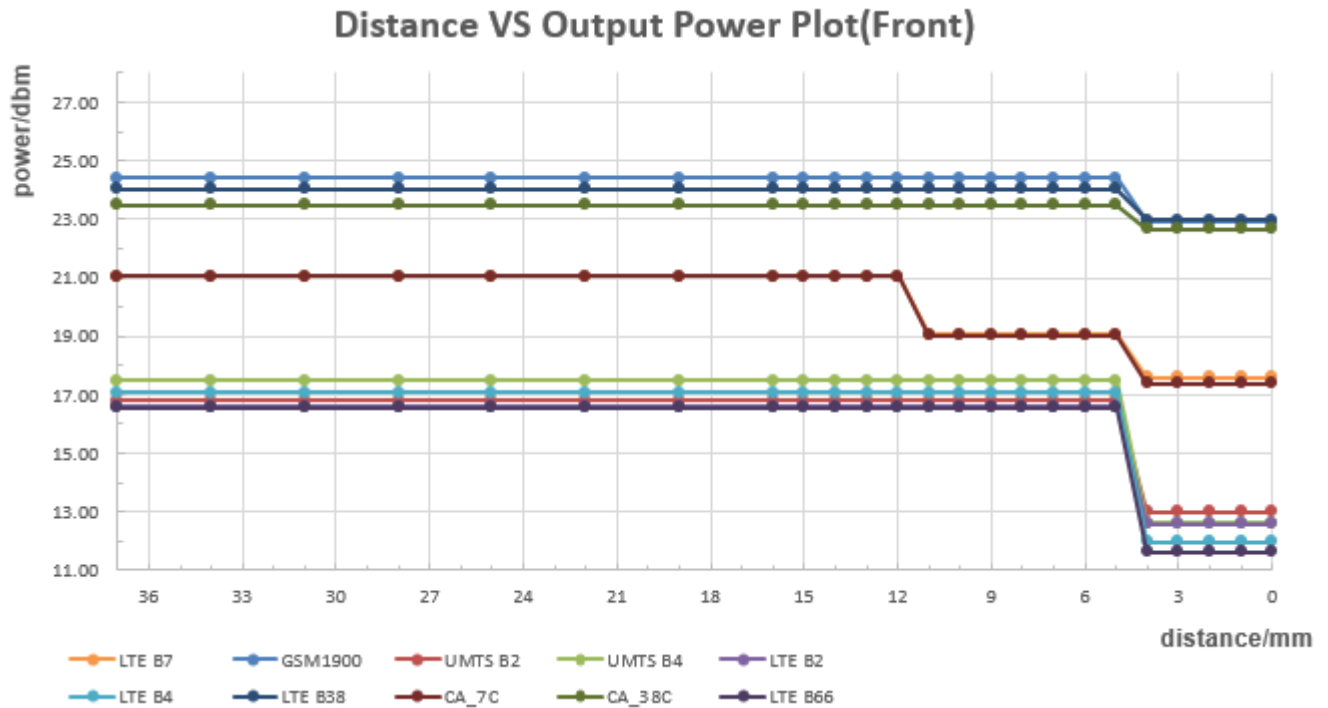
The DUT(Back side) is moved away from the flat phantom(Hotspot off):



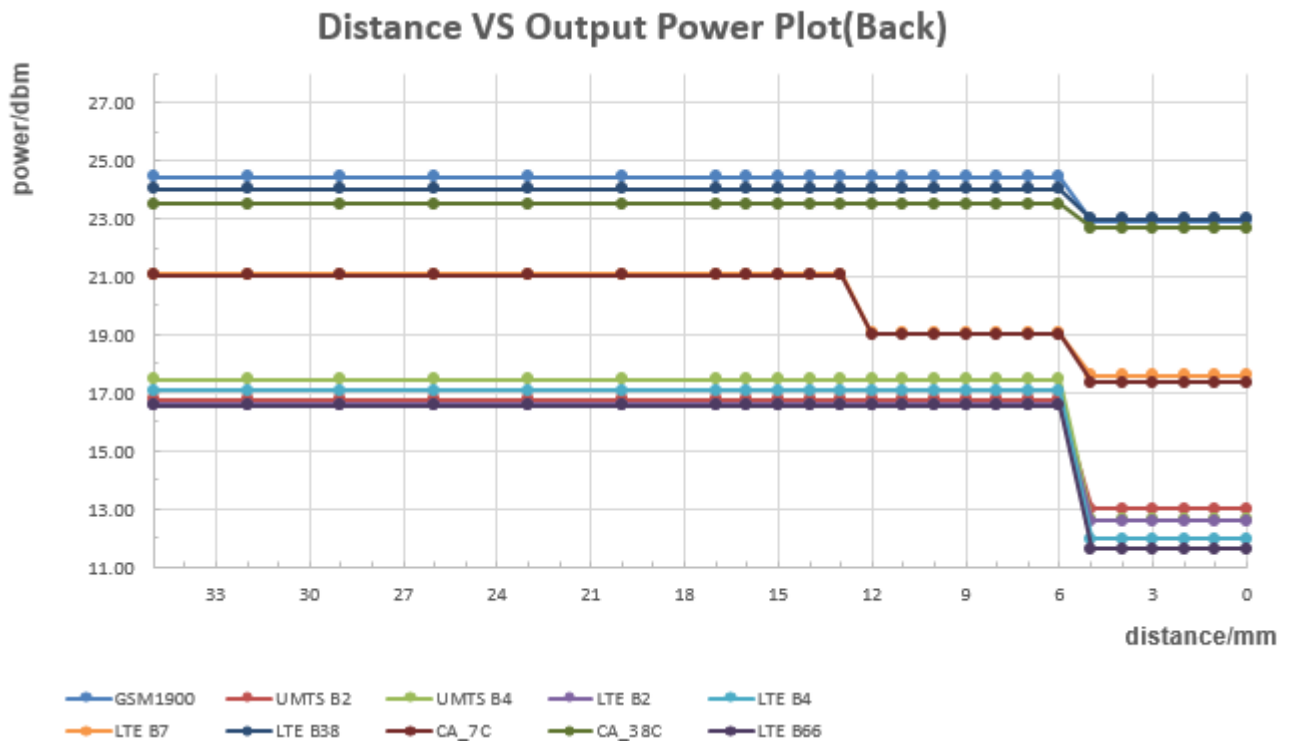
The DUT(Bottom side) is moved away from the flat phantom(Hotspot off):



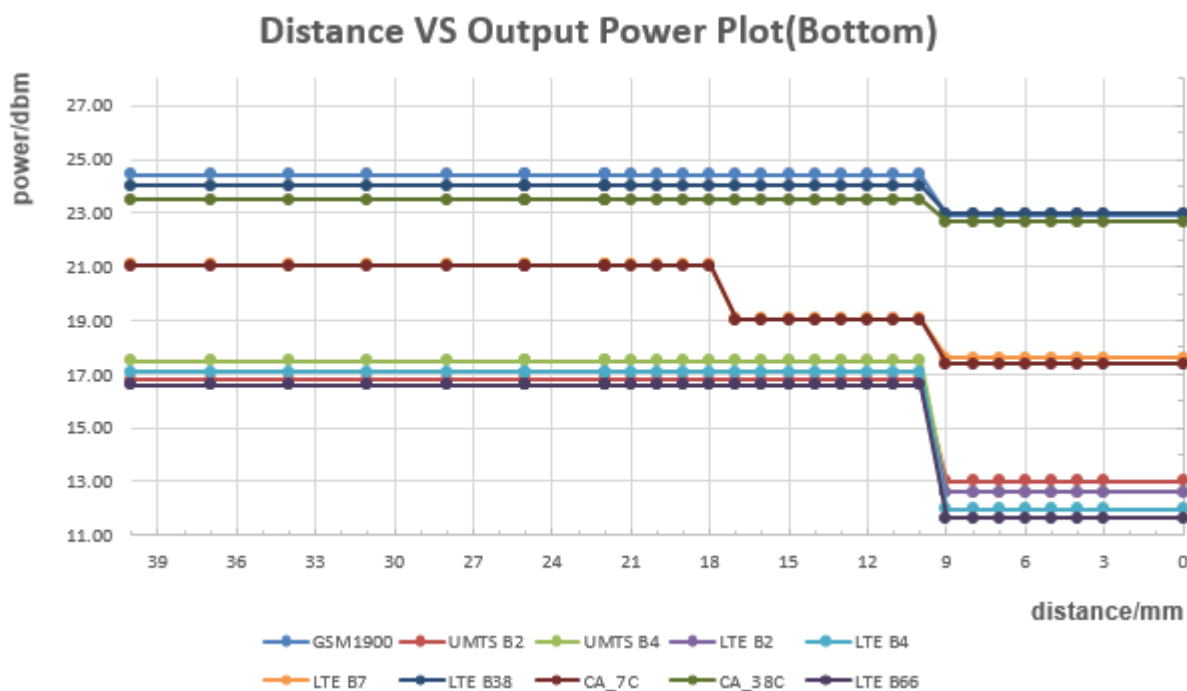
The DUT(Front side) is moved towards the flat phantom(Hotspot on):



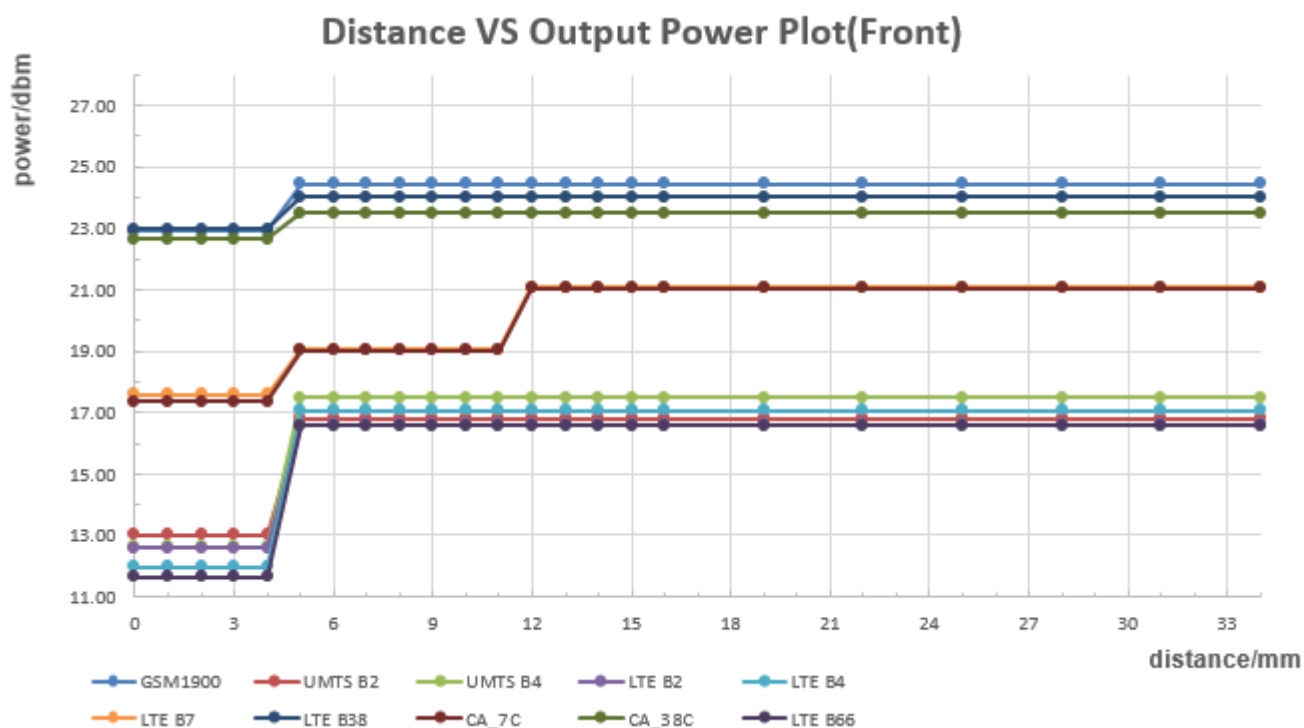
The DUT(Back side) is moved towards the flat phantom(Hotspot on):



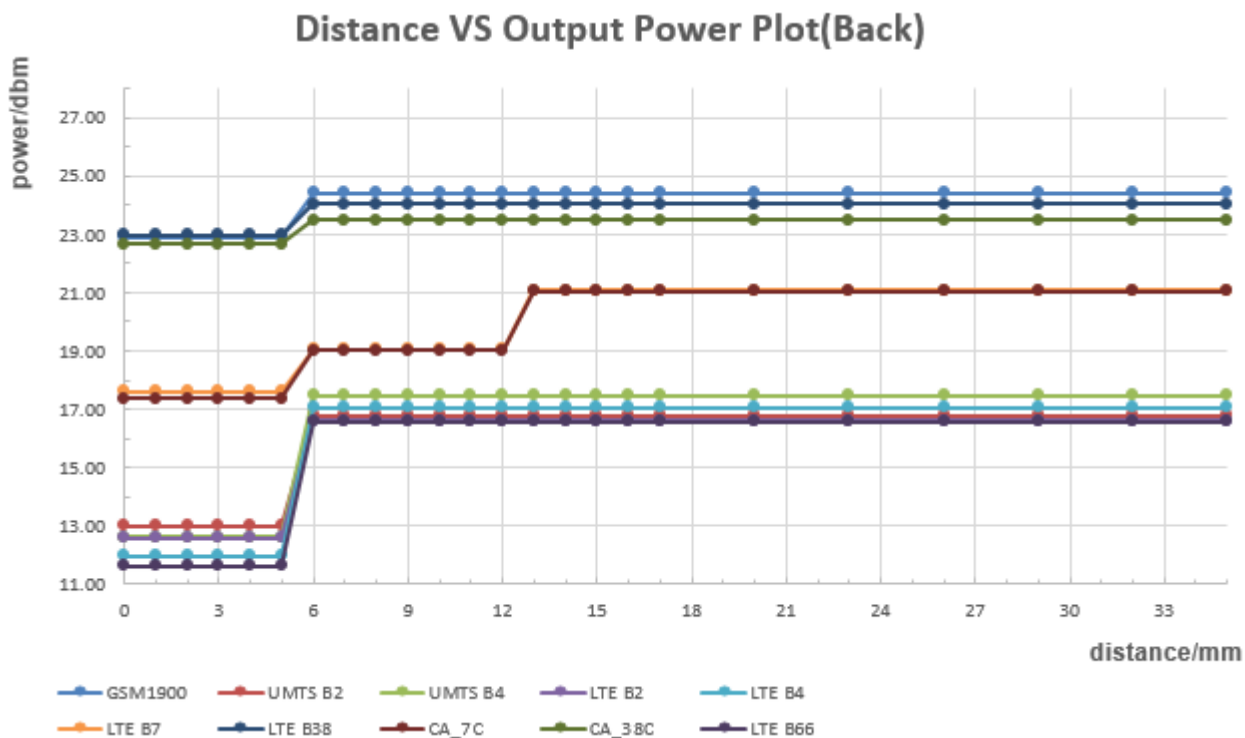
The DUT(Bottom side) is moved towards the flat phantom(Hotspot on):



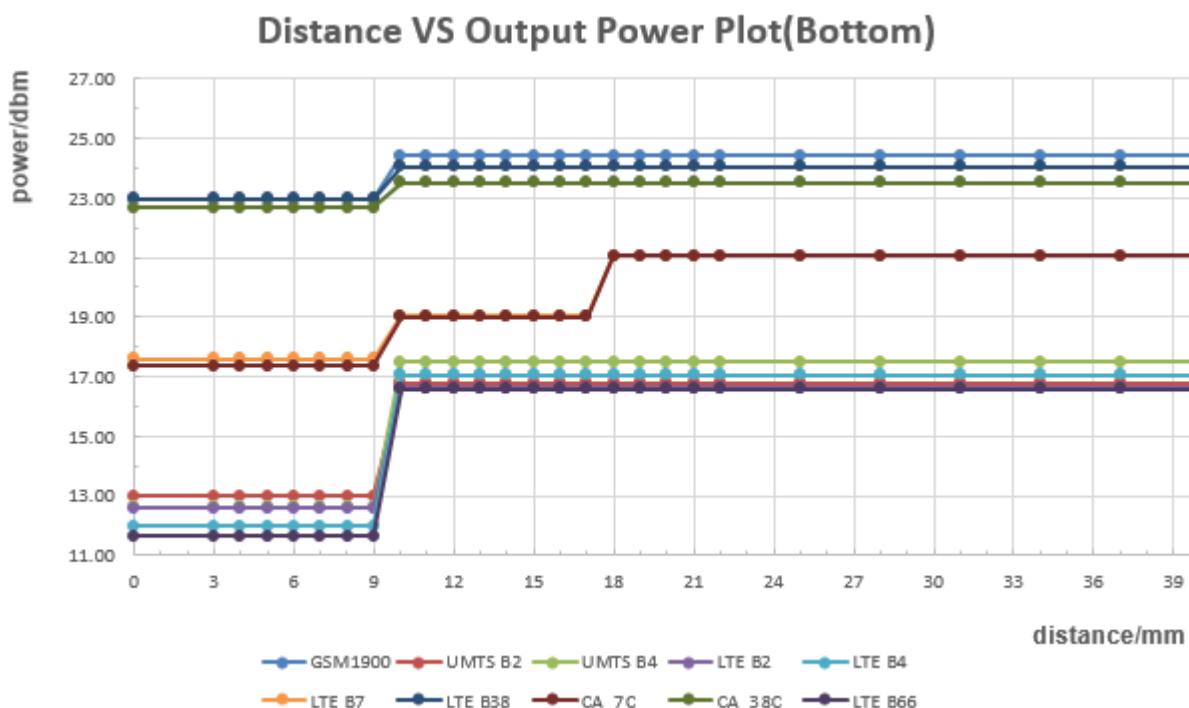
The DUT(Front side) is moved away from the flat phantom(Hotspot on):



The DUT(Back side) is moved away from the flat phantom(Hotspot on):



The DUT(Bottom side) is moved away from the flat phantom(Hotspot on):



Conclusion: It can be ensured that the proximity sensor can be valid triggered for the body exposure condition. (GSM 1900,UMTS Band II/IV,LTE Band 2/4/7/38/66, UL CA_7C, UL CA_38C with Main Antenna)

2) Procedures for determining antenna and proximity sensor coverage

There is no spatial offset between the Main antenna and the proximity sensor element, so procedures for determining the proximity sensor coverage does not need to be assessed per KDB616217.

3) Procedures for determining device tilt angle influences to proximity sensor triggering

The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with Bottom side parallel to the base of the flat phantom for each band.

The EUT was rotated about Bottom side for angles up to $\pm 45^\circ$. If the output power increased during the rotation the DUT was moved 1mm toward the phantom and the rotation repeated. This procedure was repeated until the power remained reduced for all angles up to $\pm 45^\circ$.

The proximity sensor triggering tilt angle measurement method are as below:

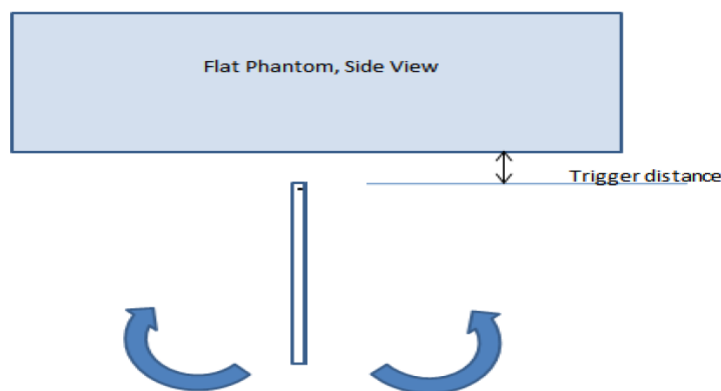


Table: Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering(Bottom side)

Band(MHz)	Minimum trigger distance at which power reduction was maintained over ±45°	Power Reduction Status											
		-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
GSM1900	9mm	on	on	on	on	on	on	on	on	on	on	on	
UMTS Band II	9mm	on	on	on	on	on	on	on	on	on	on	on	
UMTS Band IV	9mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 2	9mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 4	9mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 7	9mm/17mm	on	on	on	on	on	on	on	on	on	on	on	
UL CA_7C	9mm/17mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 38	9mm	on	on	on	on	on	on	on	on	on	on	on	
UL CA_38C	9mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 66	9mm	on	on	on	on	on	on	on	on	on	on	on	

Conclusion: It can be ensured that the proximity sensor can be valid triggered for the DUT tilt coverage exposure condition (GSM 1900,UMTS Band II/IV,LTE Band 2/4/7/38/66, UL CA_7C, UL CA_38C with Main Antenna)

6.8.5

7 SAR Measurement Results

7.1 Conducted power measurements

For the measurements a Radio Communication Tester was used.

SAR drift measured at the same position in liquid before and after each SAR test as below 7.2 chapter.

Note: Radio Communication Tester measures GSM peak and average output power for active timeslots. For SAR the timebased average power is relevant. The difference in between depends on the duty cycle of the TDMA signal :

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.1	1:2.77	1:2.08
timebased avg. power compared to slotted avg. power	-9.19dB	-6.13dB	-4.42dB	-3.18dB

The signalling modes differ as follows:

mode	coding scheme	modulation
GPRS	CS1 to CS4	GMSK
EDGE	MCS1 to MCS4	GMSK
EDGE	MCS5 to MCS9	8PSK

Apart from modulation change (GMSK/8PSK) coding schemes differ in code rate without influence on the RF signal. Therefore, one coding scheme per mode was selected for conducted power measurements.

A Radio Communication Tester was 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.

The Radio Communication Tester measures LTE TDD peak and average output power for active timeslots. LTE TDD peak and average output power for active timeslots. For SAR the time-based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

No. of Configuration	0	1	2	3	4	5	6
Duty Cycle	0.6333	0.4333	0.2333	0.3167	0.2167	0.1167	0.5333
Time-based avg. power compared to slotted avg. power	-1.98dB	-3.63dB	-6.32dB	-4.99dB	-6.64dB	-9.33 dB	-2.73dB

Note: According to duty cycle of configuration 0 to 6, Max output power should be Configuration 0, so we just tested the conduction power and SAR of configuration 0.

7.1.1 Conducted power measurements of GSM850 (Second Antenna)

GSM850		Tune-up	Burst-Averaged output Power (dBm)			Division Factors	Tune-up	Frame-Averaged output Power (dBm)		
		Max.	128CH	190CH	251CH		Max.	128CH	190CH	251CH
GSM (CS)		28.80	27.42	27.54	27.57	-9.19	19.61	18.23	18.35	18.38
GPRS/EDGE (GMSK)	1 Tx Slot	28.80	27.46	27.56	27.57	-9.19	19.61	18.27	18.37	18.38
	2 Tx Slots	26.80	25.22	25.45	25.46	-6.13	20.67	19.09	19.32	19.33
	3 Tx Slots	24.80	23.16	23.23	23.28	-4.42	20.38	18.74	18.81	18.86
	4 Tx Slots	22.80	21.13	21.19	21.18	-3.18	19.62	17.95	18.01	18.00
EDGE (8PSK)	1 Tx Slot	22.50	21.25	21.23	21.22	-9.19	13.31	12.06	12.04	12.03
	2 Tx Slots	20.50	18.98	19.16	19.10	-6.13	14.37	12.85	13.03	12.97
	3 Tx Slots	18.00	16.81	16.88	16.82	-4.42	13.58	12.39	12.46	12.40
	4 Tx Slots	16.00	15.08	15.19	15.17	-3.18	12.82	11.90	12.01	11.99

Table 13: Conducted power measurement results of GSM850

Note:

- 1) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 2) Per KDB941225 D01, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

7.1.2 Conducted power measurements of GSM850 (Main Antenna)

GSM850		Tune-up	Burst-Averaged output Power (dBm)			Division Factors	Tune-up	Frame-Averaged output Power (dBm)		
		Max.	128CH	190CH	251CH		Max.	128CH	190CH	251CH
GSM (CS)		33.80	32.97	33.17	33.23	-9.19	24.61	23.78	23.98	24.04
GPRS/EDGE (GMSK)	1 Tx Slot	33.80	32.91	33.16	33.26	-9.19	24.61	23.72	23.97	24.07
	2 Tx Slots	31.80	30.56	30.70	30.81	-6.13	25.67	24.43	24.57	24.68
	3 Tx Slots	29.80	28.30	28.41	28.41	-4.42	25.38	23.88	23.99	23.99
	4 Tx Slots	27.80	26.14	26.23	26.19	-3.18	24.62	22.96	23.05	23.01
EDGE (8PSK)	1 Tx Slot	27.50	26.65	26.73	26.68	-9.19	18.31	17.46	17.54	17.49
	2 Tx Slots	25.50	24.27	24.36	24.30	-6.13	19.37	18.14	18.23	18.17
	3 Tx Slots	23.00	21.72	21.79	21.74	-4.42	18.58	17.30	17.37	17.32
	4 Tx Slots	21.00	19.59	19.62	19.63	-3.18	17.82	16.41	16.44	16.45

Table 14: Conducted power measurement results of GSM850

Note:

- 1) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 2) Per KDB941225 D01, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

7.1.3 Conducted power measurements of GSM1900 (Second Antenna)

GSM1900		Tune-up	Burst-Averaged output Power (dBm)			Division Factors	Tune-up	Frame-Averaged output Power (dBm)		
		Max.	512CH	661CH	810CH		Max.	512CH	661CH	810CH
GSM (CS)		26.50	25.43	25.30	25.23	-9.19	17.31	16.24	16.11	16.04
GPRS/EDGE (GMSK)	1 Tx Slot	26.50	25.53	25.49	25.40	-9.19	17.31	16.34	16.30	16.21
	2 Tx Slots	24.50	23.38	23.32	23.22	-6.13	18.37	17.25	17.19	17.09
	3 Tx Slots	22.50	21.29	21.22	21.07	-4.42	18.08	16.87	16.80	16.65
	4 Tx Slots	20.50	19.21	19.14	18.99	-3.18	17.32	16.03	15.96	15.81
EDGE (8PSK)	1 Tx Slot	22.50	21.38	21.30	21.16	-9.19	13.31	12.19	12.11	11.97
	2 Tx Slots	20.50	19.17	19.03	18.87	-6.13	14.37	13.04	12.90	12.74
	3 Tx Slots	18.50	16.93	16.78	16.61	-4.42	14.08	12.51	12.36	12.19
	4 Tx Slots	16.00	14.55	14.30	14.28	-3.18	12.82	11.37	11.12	11.10

Table 15: Conducted power measurement results of GSM1900(Full Power)

GSM1900		Tune-up	Burst-Averaged output Power (dBm)			Division Factors	Tune-up	Frame-Averaged output Power (dBm)		
		Max.	512CH	661CH	810CH		Max.	512CH	661CH	810CH
GSM (CS)		25.50	24.41	24.26	24.19	-9.19	16.31	15.22	15.07	15.00
GPRS/EDGE (GMSK)	1 Tx Slot	25.50	24.53	24.46	24.33	-9.19	16.31	15.34	15.27	15.14
	2 Tx Slots	23.50	22.34	22.26	22.14	-6.13	17.37	16.21	16.13	16.01
	3 Tx Slots	21.50	20.37	20.28	20.15	-4.42	17.08	15.95	15.86	15.73
	4 Tx Slots	19.50	18.22	18.14	17.99	-3.18	16.32	15.04	14.96	14.81
EDGE (8PSK)	1 Tx Slot	21.50	20.43	20.35	20.19	-9.19	12.31	11.24	11.16	11.00
	2 Tx Slots	19.50	18.19	18.07	17.89	-6.13	13.37	12.06	11.94	11.76
	3 Tx Slots	17.50	15.86	15.79	15.61	-4.42	13.08	11.44	11.37	11.19
	4 Tx Slots	15.00	13.51	13.40	13.21	-3.18	11.82	10.33	10.22	10.03

Table 16: Conducted power measurement results of GSM1900(Receiver ON)

Note:

- 1) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 2) Per KDB941225 D01, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

7.1.4 Conducted power measurements of GSM1900 (Main Antenna)

GSM1900		Tune-up	Burst-Averaged output Power (dBm)			Division Factors	Tune-up	Frame-Averaged output Power (dBm)		
		Max.	512CH	661CH	810CH		Max.	512CH	661CH	810CH
GSM (CS)		30.50	29.43	29.51	29.56	-9.19	21.31	20.24	20.32	20.37
GPRS/EDGE (GMSK)	1 Tx Slot	30.50	29.41	29.51	29.57	-9.19	21.31	20.22	20.32	20.38
	2 Tx Slots	28.50	27.07	27.32	27.44	-6.13	22.37	20.94	21.19	21.31
	3 Tx Slots	26.50	24.94	25.11	25.22	-4.42	22.08	20.52	20.69	20.80
	4 Tx Slots	24.50	22.78	22.96	23.09	-3.18	21.32	19.60	19.78	19.91
EDGE (8PSK)	1 Tx Slot	26.50	25.42	25.56	25.70	-9.19	17.31	16.23	16.37	16.51
	2 Tx Slots	24.50	22.69	22.80	22.88	-6.13	18.37	16.56	16.67	16.75
	3 Tx Slots	22.50	20.47	20.66	20.75	-4.42	18.08	16.05	16.24	16.33
	4 Tx Slots	20.50	19.25	19.35	19.52	-3.18	17.32	16.07	16.17	16.34

Table 17: Conducted power measurement results of GSM1900(Full Power)

GSM1900		Tune-up	Burst-Averaged output Power (dBm)			Division Factors	Tune-up	Frame-Averaged output Power (dBm)		
		Max.	512CH	661CH	810CH		Max.	512CH	661CH	810CH
GSM (CS)		29.00	27.88	28.02	28.14	-9.19	19.81	18.69	18.83	18.95
GPRS/EDGE (GMSK)	1 Tx Slot	29.00	27.85	28.03	28.16	-9.19	19.81	18.66	18.84	18.97
	2 Tx Slots	27.00	25.56	25.74	25.90	-6.13	20.87	19.43	19.61	19.77
	3 Tx Slots	25.00	23.49	23.65	23.78	-4.42	20.58	19.07	19.23	19.36
	4 Tx Slots	23.00	21.34	21.53	21.66	-3.18	19.82	18.16	18.35	18.48
EDGE (8PSK)	1 Tx Slot	25.00	23.32	23.48	23.61	-9.19	15.81	14.13	14.29	14.42
	2 Tx Slots	23.00	21.17	21.27	21.37	-6.13	16.87	15.04	15.14	15.24
	3 Tx Slots	21.00	18.88	19.05	19.15	-4.42	16.58	14.46	14.63	14.73
	4 Tx Slots	19.00	17.62	17.76	17.87	-3.18	15.82	14.44	14.58	14.69

Table 18: Conducted power measurement results of GSM1900(Reduced Power Level D2)

GSM1900		Tune-up	Burst-Averaged output Power (dBm)			Division Factors	Tune-up	Frame-Averaged output Power (dBm)		
		Max.	512CH	661CH	810CH		Max.	512CH	661CH	810CH
GSM (CS)		25.50	24.21	24.43	24.63	-9.19	16.31	15.02	15.24	15.44
GPRS/EDGE (GMSK)	1 Tx Slot	25.50	24.24	24.52	24.55	-9.19	16.31	15.05	15.33	15.36
	2 Tx Slots	23.50	22.17	22.34	22.45	-6.13	17.37	16.04	16.21	16.32
	3 Tx Slots	21.50	20.09	20.27	20.42	-4.42	17.08	15.67	15.85	16.00
	4 Tx Slots	19.50	17.93	18.12	18.28	-3.18	16.32	14.75	14.94	15.10
EDGE (8PSK)	1 Tx Slot	21.50	19.95	20.10	20.23	-9.19	12.31	10.76	10.91	11.04
	2 Tx Slots	19.50	17.74	17.92	18.03	-6.13	13.37	11.61	11.79	11.90
	3 Tx Slots	17.50	15.49	15.57	15.76	-4.42	13.08	11.07	11.15	11.34
	4 Tx Slots	15.50	14.20	14.27	14.37	-3.18	12.32	11.02	11.09	11.19

Table 19: Conducted power measurement results of GSM1900(Reduced Power D4/D5)

GSM1900		Tune-up	Burst-Averaged output Power (dBm)			Division Factors	Tune-up	Frame-Averaged output Power (dBm)		
		Max.	512CH	661CH	810CH		Max.	512CH	661CH	810CH
GSM (CS)		24.00	22.71	22.92	23.09	-9.19	14.81	13.52	13.73	13.90
GPRS/EDGE (GMSK)	1 Tx Slot	24.00	22.74	22.92	23.06	-9.19	14.81	13.55	13.73	13.87
	2 Tx Slots	22.00	20.70	20.88	21.03	-6.13	15.87	14.57	14.75	14.90
	3 Tx Slots	20.00	18.58	18.78	18.95	-4.42	15.58	14.16	14.36	14.53
	4 Tx Slots	18.00	16.53	16.72	16.88	-3.18	14.82	13.35	13.54	13.70
EDGE (8PSK)	1 Tx Slot	20.00	18.51	18.65	18.79	-9.19	10.81	9.32	9.46	9.60
	2 Tx Slots	18.00	16.24	16.34	16.55	-6.13	11.87	10.11	10.21	10.42
	3 Tx Slots	16.00	13.92	14.01	14.16	-4.42	11.58	9.50	9.59	9.74
	4 Tx Slots	14.00	12.37	12.47	12.65	-3.18	10.82	9.19	9.29	9.47

Table 20: Conducted power measurement results of GSM1900(Reduced Power Level D6)

Note:

- 1) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 2) Per KDB941225 D01, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

7.1.5 Conducted power measurements of UMTS Band II (Second Antenna)

UMTS Band 2		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	22.00	20.74	20.71	20.83
	12.2kbps AMR	22.00	20.80	20.78	20.87
HSDPA	Subtest 1	21.50	20.24	20.22	20.31
	Subtest 2	20.70	19.47	19.45	19.55
	Subtest 3	21.50	18.96	18.98	19.06
	Subtest 4	20.00	18.95	18.96	19.06
HSUPA	Subtest 1	20.50	18.68	18.98	19.28
	Subtest 2	17.50	16.42	16.64	16.57
	Subtest 3	18.50	17.23	17.34	17.31
	Subtest 4	17.50	16.33	16.69	16.56
	Subtest 5	20.00	18.76	18.76	18.84
DC-HSDPA	Subtest 1	21.50	20.15	20.26	20.11
	Subtest 2	20.70	19.35	19.57	19.51
	Subtest 3	21.50	19.05	18.88	18.92
	Subtest 4	20.00	19.12	18.86	19.09

Table 21: Conducted power measurement results of UMTS Band II (Full Power)

UMTS Band 2		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	16.00	14.87	14.93	14.81
	12.2kbps AMR	16.00	14.91	15.02	14.91
HSDPA	Subtest 1	15.50	14.43	14.47	14.39
	Subtest 2	14.70	13.63	13.73	13.64
	Subtest 3	14.00	13.15	13.20	13.12
	Subtest 4	14.00	13.13	13.21	13.09
HSUPA	Subtest 1	15.50	14.57	14.74	14.73
	Subtest 2	13.00	12.18	10.68	11.81
	Subtest 3	13.50	12.56	12.38	12.46
	Subtest 4	13.70	13.14	11.20	11.20
	Subtest 5	15.50	14.82	14.83	14.70
DC-HSDPA	Subtest 1	15.50	14.40	14.28	14.39
	Subtest 2	14.70	13.53	13.30	13.37
	Subtest 3	14.00	13.10	13.20	13.00
	Subtest 4	14.00	13.11	13.00	13.09

Table 22: Conducted power measurement results of UMTS Band II (Receiver ON)

UMTS Band 2		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	14.00	12.92	13.01	12.91
	12.2kbps AMR	14.00	12.92	13.01	12.91
HSDPA	Subtest 1	13.50	12.41	12.47	12.40
	Subtest 2	12.70	11.62	11.72	11.62
	Subtest 3	12.00	11.11	11.19	11.11
	Subtest 4	12.00	11.14	11.21	11.11
HSUPA	Subtest 1	13.70	12.69	12.91	12.84
	Subtest 2	11.00	10.62	8.56	9.37
	Subtest 3	12.00	11.52	9.27	9.93
	Subtest 4	11.20	11.07	8.22	9.71
	Subtest 5	13.70	12.79	12.87	12.81
DC-HSDPA	Subtest 1	13.50	12.38	12.47	12.37
	Subtest 2	12.70	11.51	11.72	11.62
	Subtest 3	12.00	11.10	11.16	11.23
	Subtest 4	12.00	11.14	11.07	11.11

Table 23: Conducted power measurement results of UMTS Band II (Second Antenna+WiFi Antenna, Receiver ON)

UMTS Band 2		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	20.00	18.74	18.73	18.81
	12.2kbps AMR	20.00	18.77	18.75	18.82
HSDPA	Subtest 1	19.50	18.22	18.22	18.32
	Subtest 2	18.70	17.45	17.43	17.51
	Subtest 3	19.50	16.94	16.94	17.01
	Subtest 4	18.00	16.92	16.92	17.03
HSUPA	Subtest 1	18.50	16.58	17.03	17.20
	Subtest 2	15.50	14.36	14.54	14.80
	Subtest 3	16.50	15.14	15.41	15.33
	Subtest 4	15.50	14.12	14.60	14.75
	Subtest 5	18.00	16.74	16.73	16.83
DC-HSDPA	Subtest 1	19.50	18.18	18.29	18.38
	Subtest 2	18.70	17.38	17.42	17.53
	Subtest 3	19.50	16.88	17.12	16.95
	Subtest 4	18.00	17.07	17.05	17.15

Table 24: Conducted power measurement results of UMTS Band II (Second Antenna+WiFi Antenna, Receiver OFF)

Note:

- 1) The bolded 12.2kbps RMC mode was selected for SAR testing (the primary mode).
- 2) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the Second mode.

7.1.6 Conducted power measurements of UMTS Band II (Main Antenna)

UMTS Band 2		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	25.00	24.15	23.77	24.25
	12.2kbps AMR	25.00	23.91	23.79	23.83
HSDPA	Subtest 1	24.50	23.34	23.29	23.39
	Subtest 2	23.70	22.56	22.52	22.62
	Subtest 3	24.50	22.05	22.02	22.10
	Subtest 4	23.00	22.07	22.02	22.10
HSUPA	Subtest 1	23.50	21.78	21.62	22.26
	Subtest 2	20.50	19.94	19.87	18.95
	Subtest 3	21.50	20.72	20.68	20.62
	Subtest 4	20.50	19.70	19.84	19.09
	Subtest 5	23.00	21.85	21.79	21.89
DC-HSDPA	Subtest 1	24.50	23.38	23.17	23.54
	Subtest 2	23.70	22.65	22.70	22.63
	Subtest 3	24.50	22.13	21.82	22.20
	Subtest 4	23.00	22.06	21.96	21.94

Table 25: Conducted power measurement results of UMTS Band II (Full Power)

UMTS Band 2		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	21.50	20.34	20.29	20.38
	12.2kbps AMR	21.50	20.40	20.31	20.38
HSDPA	Subtest 1	21.00	19.83	19.81	19.86
	Subtest 2	20.20	19.05	19.01	19.08
	Subtest 3	21.00	18.58	18.51	18.59
	Subtest 4	19.50	18.56	18.51	18.56
HSUPA	Subtest 1	20.00	18.66	18.69	18.80
	Subtest 2	17.00	16.05	16.32	16.28
	Subtest 3	18.00	16.75	17.00	16.95
	Subtest 4	17.00	15.92	16.17	16.35
	Subtest 5	19.50	18.38	18.30	18.36
DC-HSDPA	Subtest 1	21.00	19.82	19.71	19.93
	Subtest 2	20.20	19.13	18.89	18.93
	Subtest 3	21.00	18.44	18.48	18.64
	Subtest 4	19.50	18.67	18.36	18.62

Table 26: Conducted power measurement results of UMTS Band II (Reduced Power Level D2)

UMTS Band 2		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	21.00	19.95	20.00	19.97
	12.2kbps AMR	21.00	20.00	20.09	20.00
HSDPA	Subtest 1	20.50	19.45	19.55	19.53
	Subtest 2	19.70	18.68	18.76	18.73
	Subtest 3	20.50	18.18	18.25	18.23
	Subtest 4	19.00	18.19	18.26	18.25
HSUPA	Subtest 1	19.50	18.35	18.47	18.43
	Subtest 2	16.50	15.36	15.87	15.55
	Subtest 3	17.50	16.18	16.53	16.30
	Subtest 4	16.50	16.17	16.01	15.79
	Subtest 5	19.00	17.97	18.03	18.01
DC-HSDPA	Subtest 1	20.50	19.46	19.54	19.51
	Subtest 2	19.70	18.68	18.76	18.73
	Subtest 3	20.50	18.15	18.26	18.21
	Subtest 4	19.00	18.15	18.26	18.22

Table 27: Conducted power measurement results of LYA-LOC UMTS Band II (Reduced Power Level D2)

UMTS Band 2		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	18.00	16.84	16.79	16.85
	12.2kbps AMR	18.00	16.83	16.80	16.85
HSDPA	Subtest 1	17.50	16.29	16.24	16.31
	Subtest 2	16.70	15.55	15.49	15.54
	Subtest 3	17.50	15.04	14.96	15.05
	Subtest 4	16.00	15.07	14.96	15.04
HSUPA	Subtest 1	16.50	15.10	15.22	15.28
	Subtest 2	13.50	12.09	12.75	12.88
	Subtest 3	14.50	13.86	13.47	13.53
	Subtest 4	13.50	12.84	12.68	12.91
	Subtest 5	16.00	14.84	14.79	14.84
DC-HSDPA	Subtest 1	17.50	16.20	16.16	16.12
	Subtest 2	16.70	15.53	15.40	15.54
	Subtest 3	17.50	15.15	14.80	15.20
	Subtest 4	16.00	14.92	14.83	14.97

Table 28: Conducted power measurement results of UMTS Band II (Reduced Power D4/D5)

UMTS Band 2		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	14.50	13.33	13.24	13.29
	12.2kbps AMR	14.50	13.37	13.25	13.31
HSDPA	Subtest 1	14.00	12.80	12.71	12.79
	Subtest 2	13.20	12.03	11.96	12.03
	Subtest 3	14.00	11.54	11.46	11.52
	Subtest 4	12.50	11.55	11.45	11.50
HSUPA	Subtest 1	14.00	12.87	12.39	12.52
	Subtest 2	10.00	9.16	9.36	9.43
	Subtest 3	11.00	10.84	10.09	10.07
	Subtest 4	10.50	9.84	9.74	9.70
	Subtest 5	14.00	13.34	13.25	13.32
DC-HSDPA	Subtest 1	14.00	12.92	12.89	12.96
	Subtest 2	13.20	12.04	11.95	11.96
	Subtest 3	14.00	11.71	11.32	11.56
	Subtest 4	12.50	11.51	11.47	11.46

Table 29: Conducted power measurement results of UMTS Band II (Reduced Power Level D6)

UMTS Band 2		Tune-up	Average Power (dBm)		
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	14.00	12.98	13.01	13.01
	12.2kbps AMR	14.00	12.99	13.02	13.00
HSDPA	Subtest 1	13.50	12.42	12.53	12.47
	Subtest 2	12.70	11.66	11.75	11.69
	Subtest 3	13.50	11.18	11.25	11.21
	Subtest 4	12.00	11.17	11.24	11.25
HSUPA	Subtest 1	13.50	11.92	12.39	12.03
	Subtest 2	10.00	9.48	8.86	8.63
	Subtest 3	10.50	10.22	10.45	10.17
	Subtest 4	10.50	9.22	9.35	9.10
	Subtest 5	13.50	12.97	13.04	12.98
DC-HSDPA	Subtest 1	13.50	12.41	12.52	12.49
	Subtest 2	12.70	11.66	11.75	11.73
	Subtest 3	13.50	11.17	11.26	11.19
	Subtest 4	12.00	11.16	11.22	11.19

Table 30: Conducted power measurement results of LYA-L0C UMTS Band II (Reduced Power Level D6)

Note:

- 1) The bolded 12.2kbps RMC mode was selected for SAR testing (the primary mode).
- 2) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the Second mode.

7.1.7 Conducted power measurements of UMTS Band IV (Second Antenna)

UMTS Band 4		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	22.50	21.27	21.35	21.24
	12.2kbps AMR	22.50	21.33	21.38	21.23
HSDPA	Subtest 1	22.00	20.77	20.83	20.72
	Subtest 2	21.20	19.97	20.02	19.93
	Subtest 3	22.00	19.47	19.52	19.43
	Subtest 4	20.50	19.48	19.55	19.42
HSUPA	Subtest 1	21.00	19.17	19.73	19.65
	Subtest 2	18.00	17.16	17.32	16.24
	Subtest 3	19.00	17.89	17.96	18.06
	Subtest 4	18.00	16.97	17.48	17.20
	Subtest 5	20.50	19.30	19.36	19.23
DC-HSDPA	Subtest 1	22.00	20.78	20.97	20.72
	Subtest 2	21.20	19.97	19.94	20.12
	Subtest 3	22.00	19.56	19.60	19.40
	Subtest 4	20.50	19.54	19.66	19.28

Table 31: Conducted power measurement results of UMTS Band IV (Full Power)

UMTS Band 4		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	15.00	13.92	13.89	13.72
	12.2kbps AMR	15.00	13.93	13.88	13.74
HSDPA	Subtest 1	14.50	13.38	13.36	13.23
	Subtest 2	13.50	12.56	12.60	12.43
	Subtest 3	13.50	12.09	12.06	11.96
	Subtest 4	13.00	12.07	12.04	11.95
HSUPA	Subtest 1	14.50	13.71	12.97	12.64
	Subtest 2	12.00	11.36	9.71	11.53
	Subtest 3	14.00	13.20	11.29	13.20
	Subtest 4	12.50	12.08	9.73	11.86
	Subtest 5	14.50	13.89	13.89	13.75
DC-HSDPA	Subtest 1	14.50	13.34	13.36	13.23
	Subtest 2	13.50	12.53	12.60	12.43
	Subtest 3	13.50	12.10	12.06	11.96
	Subtest 4	13.00	11.98	12.04	11.90

Table 32: Conducted power measurement results of UMTS Band IV (Receiver ON)

UMTS Band 4		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	21.50	20.25	20.38	20.22
	12.2kbps AMR	21.50	20.33	20.38	20.26
HSDPA	Subtest 1	21.00	19.78	19.86	19.65
	Subtest 2	20.20	18.96	19.04	18.92
	Subtest 3	21.00	18.43	18.51	18.40
	Subtest 4	19.50	18.46	18.52	18.44
HSUPA	Subtest 1	20.00	18.68	18.58	18.71
	Subtest 2	17.00	16.14	16.31	16.15
	Subtest 3	18.00	16.98	17.05	16.87
	Subtest 4	17.00	15.94	16.30	16.02
	Subtest 5	19.50	18.30	18.34	18.21
DC-HSDPA	Subtest 1	21.00	19.71	19.71	19.79
	Subtest 2	20.20	19.07	18.98	18.77
	Subtest 3	21.00	18.54	18.68	18.57
	Subtest 4	19.50	18.40	18.32	18.45

Table 33: Conducted power measurement results of UMTS Band IV (Second Antenna+WiFi Antenna, Receiver OFF)

UMTS Band 4		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	13.00	11.74	11.79	11.70
	12.2kbps AMR	13.00	11.81	11.82	11.73
HSDPA	Subtest 1	12.50	11.24	11.04	11.39
	Subtest 2	11.70	10.45	10.51	10.39
	Subtest 3	12.50	9.91	9.92	9.88
	Subtest 4	11.00	9.93	9.98	9.92
HSUPA	Subtest 1	13.00	11.43	11.06	12.77
	Subtest 2	8.50	8.45	6.52	8.38
	Subtest 3	10.50	10.22	8.07	10.44
	Subtest 4	9.00	8.56	6.87	8.72
	Subtest 5	12.00	11.78	11.79	11.69
DC-HSDPA	Subtest 1	12.50	11.24	10.98	11.44
	Subtest 2	11.70	10.27	10.48	10.56
	Subtest 3	12.50	9.83	10.03	10.06
	Subtest 4	11.00	10.12	10.02	10.04

Table 34: Conducted power measurement results of UMTS Band IV (Second Antenna+WiFi Antenna, Receiver ON)

UMTS Band 4		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	13.00	11.74	11.79	11.70
	12.2kbps AMR	13.00	11.81	11.82	11.73
HSDPA	Subtest 1	12.50	11.24	11.04	11.39
	Subtest 2	11.70	10.45	10.51	10.39
	Subtest 3	12.50	9.91	9.92	9.88
	Subtest 4	11.00	9.93	9.98	9.92
HSUPA	Subtest 1	13.00	11.43	11.06	12.77
	Subtest 2	8.50	8.45	6.52	8.38
	Subtest 3	10.50	10.22	8.07	10.44
	Subtest 4	9.00	8.56	6.87	8.72
	Subtest 5	12.00	11.78	11.79	11.69
DC-HSDPA	Subtest 1	12.50	11.24	10.98	11.44
	Subtest 2	11.70	10.27	10.48	10.56
	Subtest 3	12.50	9.83	10.03	10.06
	Subtest 4	11.00	10.12	10.02	10.04

Table 35: Conducted power measurement results of LYA-L0C UMTS Band IV (Second Antenna+WiFi Antenna, Receiver ON)

Note:

- 1) The bolded 12.2kbps RMC mode was selected for SAR testing (the primary mode).
- 2) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the Second mode.

7.1.8 Conducted power measurements of UMTS Band IV (Main Antenna)

UMTS Band 4		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	25.00	23.90	24.04	23.87
	12.2kbps AMR	25.00	24.01	24.08	23.91
HSDPA	Subtest 1	24.50	23.40	23.51	23.37
	Subtest 2	23.70	22.62	22.75	22.55
	Subtest 3	24.50	22.10	22.27	22.08
	Subtest 4	23.00	22.11	22.26	22.05
HSUPA	Subtest 1	23.50	22.19	22.34	22.18
	Subtest 2	20.50	19.29	19.17	19.93
	Subtest 3	21.50	21.01	20.92	20.69
	Subtest 4	20.50	20.04	20.20	20.01
	Subtest 5	23.00	21.93	22.04	21.86
DC-HSDPA	Subtest 1	24.50	23.44	23.51	23.34
	Subtest 2	23.70	22.65	22.61	22.68
	Subtest 3	24.50	22.00	22.27	22.21
	Subtest 4	23.00	22.23	22.33	22.11

Table 36: Conducted power measurement results of UMTS Band IV (Full Power)

UMTS Band 4		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	20.50	19.45	19.80	19.45
	12.2kbps AMR	20.50	19.49	19.59	19.36
HSDPA	Subtest 1	20.00	18.94	19.04	18.97
	Subtest 2	19.20	18.09	18.21	18.12
	Subtest 3	20.00	17.58	17.67	17.61
	Subtest 4	18.50	17.60	17.65	17.64
HSUPA	Subtest 1	19.00	17.33	17.99	17.85
	Subtest 2	16.00	15.10	15.52	15.38
	Subtest 3	17.00	15.95	16.08	16.09
	Subtest 4	16.00	14.92	15.44	15.35
	Subtest 5	18.50	17.44	17.51	17.43
DC-HSDPA	Subtest 1	20.00	18.81	18.85	18.99
	Subtest 2	19.20	17.95	18.10	18.02
	Subtest 3	20.00	17.53	17.73	17.41
	Subtest 4	18.50	17.75	17.80	17.65

Table 37: Conducted power measurement results of UMTS Band IV (Reduced Power Level D2)

UMTS Band 4		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	20.00	19.10	19.12	19.05
	12.2kbps AMR	20.00	19.15	19.17	19.08
HSDPA	Subtest 1	19.50	18.63	18.64	18.53
	Subtest 2	18.70	17.83	17.83	17.75
	Subtest 3	19.50	17.35	17.32	17.26
	Subtest 4	18.00	17.32	17.33	17.26
HSUPA	Subtest 1	18.50	17.02	17.55	17.50
	Subtest 2	15.50	14.71	15.00	14.71
	Subtest 3	16.50	15.57	15.82	15.56
	Subtest 4	15.50	14.49	15.05	14.91
	Subtest 5	18.00	17.14	17.13	17.02
DC-HSDPA	Subtest 1	19.50	18.62	18.63	18.55
	Subtest 2	18.70	17.84	17.85	17.75
	Subtest 3	19.50	17.33	17.34	17.26
	Subtest 4	18.00	17.31	17.31	17.25

Table 38: Conducted power measurement results of LYA-L0C UMTS Band IV (Reduced Power Level D2)

UMTS Band 4		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	18.50	17.42	17.48	17.45
	12.2kbps AMR	18.50	17.45	17.50	17.44
HSDPA	Subtest 1	18.00	16.91	16.95	16.90
	Subtest 2	17.20	16.09	16.16	16.13
	Subtest 3	18.00	15.59	15.66	15.61
	Subtest 4	16.50	15.60	15.68	15.64
HSUPA	Subtest 1	17.00	15.20	15.63	15.83
	Subtest 2	14.00	13.09	13.45	12.57
	Subtest 3	15.00	13.90	14.14	13.99
	Subtest 4	14.00	12.87	13.44	13.38
	Subtest 5	16.50	15.40	15.49	15.41
DC-HSDPA	Subtest 1	18.00	16.93	16.96	16.84
	Subtest 2	17.20	15.90	16.22	16.02
	Subtest 3	18.00	15.44	15.77	15.72
	Subtest 4	16.50	15.60	15.59	15.64

Table 39: Conducted power measurement results of UMTS Band IV (Reduced Power Level D4/D5)

UMTS Band 4		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	14.00	12.93	12.96	12.91
	12.2kbps AMR	14.00	12.91	13.04	12.93
HSDPA	Subtest 1	13.50	12.41	12.45	12.39
	Subtest 2	12.70	11.57	11.67	11.62
	Subtest 3	13.50	11.05	11.08	11.11
	Subtest 4	12.00	11.09	11.13	11.09
HSUPA	Subtest 1	14.50	12.00	12.23	12.07
	Subtest 2	9.50	8.89	8.88	8.42
	Subtest 3	10.50	9.96	9.54	9.22
	Subtest 4	9.50	8.65	9.13	8.80
	Subtest 5	14.50	12.91	12.97	12.90
DC-HSDPA	Subtest 1	13.50	12.50	12.52	12.26
	Subtest 2	12.70	11.65	11.60	11.51
	Subtest 3	13.50	11.03	11.10	11.26
	Subtest 4	12.00	11.22	11.05	11.16

Table 40: Conducted power measurement results of UMTS Band IV (Reduced Power Level D6)

UMTS Band 4		Tune-up	Average Power (dBm)		
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	13.50	12.62	12.62	12.56
	12.2kbps AMR	13.50	12.76	12.63	12.65
HSDPA	Subtest 1	13.00	12.11	12.10	12.02
	Subtest 2	12.20	11.31	11.31	11.23
	Subtest 3	13.00	10.80	10.79	10.72
	Subtest 4	11.50	10.80	10.80	10.73
HSUPA	Subtest 1	13.50	11.58	11.84	12.48
	Subtest 2	9.00	8.25	8.12	7.84
	Subtest 3	10.00	9.87	8.89	9.89
	Subtest 4	9.00	8.38	8.57	8.50
	Subtest 5	13.50	12.65	12.63	12.53
DC-HSDPA	Subtest 1	13.00	12.08	12.11	12.03
	Subtest 2	12.20	11.35	11.32	11.22
	Subtest 3	13.00	10.82	10.80	10.71
	Subtest 4	11.50	10.81	10.83	10.70

Table 41: Conducted power measurement results of LYA-L0C UMTS Band IV (Reduced Power Level D6)

Note:

- 1) The bolded 12.2kbps RMC mode was selected for SAR testing (the primary mode).
- 2) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the Second mode.

7.1.9 Conducted power measurements of UMTS Band V (Second Antenna)

UMTS Band 5		Tune-up	Average Power (dBm)		
		Max.	4132CH	4182CH	4233CH
WCDMA	12.2kbps RMC	25.00	23.58	23.55	23.54
	12.2kbps AMR	25.00	23.59	23.55	23.54
HSDPA	Subtest 1	24.50	23.03	23.03	23.02
	Subtest 2	23.70	22.56	22.53	22.54
	Subtest 3	24.50	22.17	22.11	22.17
	Subtest 4	23.00	22.13	22.12	22.15
HSUPA	Subtest 1	23.50	22.83	22.30	22.27
	Subtest 2	20.50	20.19	19.39	19.48
	Subtest 3	21.50	20.85	21.11	21.05
	Subtest 4	20.50	20.04	19.73	19.76
	Subtest 5	23.00	21.57	21.50	21.49
DC-HSDPA	Subtest 1	24.50	23.02	23.15	23.07
	Subtest 2	23.70	22.71	22.40	22.43
	Subtest 3	24.50	22.24	22.19	22.00
	Subtest 4	23.00	22.03	22.10	22.28

Table 42: Conducted power measurement results of UMTS Band V (Full Power)

UMTS Band 5		Tune-up	Average Power (dBm)		
		Max.	4132CH	4182CH	4233CH
WCDMA	12.2kbps RMC	20.50	19.02	18.99	18.98
	12.2kbps AMR	20.50	19.02	18.99	18.97
HSDPA	Subtest 1	20.00	18.54	18.50	18.49
	Subtest 2	19.20	18.04	18.01	18.00
	Subtest 3	20.00	17.63	17.59	17.57
	Subtest 4	18.50	17.64	17.61	17.60
HSUPA	Subtest 1	19.00	18.06	17.81	17.66
	Subtest 2	15.50	15.27	14.89	14.93
	Subtest 3	17.00	16.93	16.42	16.47
	Subtest 4	16.50	16.05	14.25	15.09
	Subtest 5	18.50	17.04	16.98	16.97
DC-HSDPA	Subtest 1	20.00	18.57	18.43	18.52
	Subtest 2	19.20	17.89	18.08	18.02
	Subtest 3	20.00	17.67	17.52	17.46
	Subtest 4	18.50	17.59	17.76	17.56

Table 43: Conducted power measurement results of UMTS Band V (Receiver ON)

Note:

- 1) The bolded 12.2kbps RMC mode was selected for SAR testing (the primary mode).
- 2) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the Second mode.

7.1.10 Conducted power measurements of UMTS Band V (Main Antenna)

UMTS Band 5		Tune-up	Average Power (dBm)		
		Max.	4132CH	4182CH	4233CH
WCDMA	12.2kbps RMC	25.00	24.47	24.55	24.42
	12.2kbps AMR	25.00	24.05	24.00	23.94
HSDPA	Subtest 1	24.50	23.53	23.44	23.46
	Subtest 2	23.70	23.02	22.97	22.97
	Subtest 3	24.50	22.60	22.57	22.56
	Subtest 4	23.00	22.62	22.56	22.57
HSUPA	Subtest 1	23.50	23.22	22.74	22.53
	Subtest 2	20.50	20.46	19.83	19.84
	Subtest 3	21.50	21.35	20.45	21.43
	Subtest 4	20.50	20.02	20.17	20.01
	Subtest 5	23.00	22.01	21.95	21.93
DC-HSDPA	Subtest 1	24.50	23.58	23.37	23.46
	Subtest 2	23.70	23.02	23.15	22.78
	Subtest 3	24.50	22.65	22.77	22.41
	Subtest 4	23.00	22.56	22.43	22.46

Table 44: Conducted power measurement results of UMTS Band V

Note:

- 1) The bolded 12.2kbps RMC mode was selected for SAR testing (the primary mode).
- 2) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the Second mode.

7.1.11 Conducted power measurements of LTE Band 2 (Second Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	19.50	18.18	18.29	18.38
		1	3	19.50	18.17	18.28	18.35
		1	5	19.50	18.27	18.28	18.33
		3	0	19.50	18.12	18.18	18.15
		3	2	19.50	18.24	18.12	18.21
		3	3	19.50	18.14	18.16	18.04
		6	0	19.50	18.08	18.23	18.11
	16QAM	1	0	19.50	18.47	18.34	18.36
		1	3	19.50	18.35	18.33	18.34
		1	5	19.50	18.37	18.33	18.33
		3	0	19.50	18.06	18.37	18.17
		3	2	19.50	18.12	18.29	18.22
		3	3	19.50	18.08	18.17	18.10
		6	0	19.50	18.05	18.14	18.13
	64QAM	1	0	19.50	18.43	18.47	18.44
		1	3	19.50	18.56	18.54	18.51
		1	5	19.50	18.49	18.43	18.39
		3	0	19.50	18.03	18.21	18.23
		3	2	19.50	18.15	18.19	18.23
		3	3	19.50	18.12	18.23	18.18
		6	0	19.50	18.13	18.15	18.18
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	19.50	18.15	18.18	18.24
		1	7	19.50	18.15	18.21	18.20
		1	14	19.50	18.19	18.29	18.20
		8	0	19.50	18.22	18.28	18.22
		8	4	19.50	18.30	18.20	18.21
		8	7	19.50	18.16	18.23	18.19
		15	0	19.50	18.19	18.34	18.32
	16QAM	1	0	19.50	18.37	18.23	18.31
		1	7	19.50	18.37	18.46	18.38
		1	14	19.50	18.32	18.40	18.24
		8	0	19.50	18.18	18.17	18.16
		8	4	19.50	18.13	18.15	18.16
		8	7	19.50	18.16	18.22	18.17
		15	0	19.50	18.15	18.22	18.26
	64QAM	1	0	19.50	18.31	18.40	18.44
		1	7	19.50	18.46	18.61	18.41
		1	14	19.50	18.39	18.45	18.38
		8	0	19.50	18.08	18.16	18.05
		8	4	19.50	18.06	18.15	18.09
		8	7	19.50	18.10	18.23	18.07
		15	0	19.50	18.13	18.27	18.25

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	19.50	18.30	18.19	18.30
		1	13	19.50	18.19	18.20	18.33
		1	24	19.50	18.18	18.19	18.35
		12	0	19.50	18.33	18.31	18.25
		12	6	19.50	18.21	18.35	18.25
		12	13	19.50	18.22	18.35	18.24
		25	0	19.50	18.20	18.21	18.22
	16QAM	1	0	19.50	18.45	18.48	18.41
		1	13	19.50	18.51	18.50	18.44
		1	24	19.50	18.49	18.47	18.54
		12	0	19.50	18.18	18.17	18.23
		12	6	19.50	18.19	18.21	18.21
		12	13	19.50	18.19	18.20	18.24
		25	0	19.50	18.17	18.32	18.17
	64QAM	1	0	19.50	18.45	18.22	18.23
		1	13	19.50	18.51	18.38	18.42
		1	24	19.50	18.47	18.26	18.47
		12	0	19.50	18.32	18.29	18.23
		12	6	19.50	18.32	18.34	18.18
		12	13	19.50	18.19	18.31	18.27
		25	0	19.50	18.08	18.32	18.18
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	19.50	18.30	18.20	18.34
		1	25	19.50	18.20	18.29	18.35
		1	49	19.50	18.20	18.29	18.34
		25	0	19.50	18.28	18.28	18.17
		25	13	19.50	18.28	18.32	18.16
		25	25	19.50	18.27	18.31	18.16
		50	0	19.50	18.26	18.31	18.25
	16QAM	1	0	19.50	18.24	18.40	18.24
		1	25	19.50	18.19	18.38	18.34
		1	49	19.50	18.23	18.23	18.32
		25	0	19.50	18.01	18.03	17.99
		25	13	19.50	18.06	18.15	18.00
		25	25	19.50	18.15	18.13	17.99
		50	0	19.50	18.06	18.17	18.13
	64QAM	1	0	19.50	18.32	18.46	18.28
		1	25	19.50	18.19	18.29	18.42
		1	49	19.50	18.18	18.31	18.27
		25	0	19.50	18.06	18.15	18.14
		25	13	19.50	18.05	18.17	18.12
		25	25	19.50	18.16	18.16	18.13
		50	0	19.50	18.11	18.19	18.21

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	19.50	18.17	18.06	18.33
		1	38	19.50	18.13	18.13	18.32
		1	74	19.50	18.16	18.11	18.32
		36	0	19.50	18.27	18.36	18.33
		36	18	19.50	18.27	18.37	18.33
		36	39	19.50	18.27	18.37	18.34
		75	0	19.50	18.14	18.33	18.29
	16QAM	1	0	19.50	18.31	18.27	18.55
		1	38	19.50	18.40	18.31	18.39
		1	74	19.50	18.36	18.29	18.43
		36	0	19.50	18.21	18.30	18.29
		36	18	19.50	18.20	18.32	18.31
		36	39	19.50	18.23	18.29	18.27
		75	0	19.50	18.09	18.27	18.15
	64QAM	1	0	19.50	18.36	18.34	18.43
		1	38	19.50	18.38	18.39	18.44
		1	74	19.50	18.38	18.43	18.49
		36	0	19.50	18.26	18.33	18.34
		36	18	19.50	18.26	18.35	18.35
		36	39	19.50	18.29	18.34	18.31
		75	0	19.50	18.21	18.34	18.17
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	19.50	18.37	18.34	18.53
		1	50	19.50	18.37	18.32	18.51
		1	99	19.50	18.36	18.32	18.52
		50	0	19.50	18.25	18.31	18.39
		50	25	19.50	18.26	18.33	18.38
		50	50	19.50	18.25	18.35	18.38
		100	0	19.50	18.19	18.22	18.22
	16QAM	1	0	19.50	18.59	18.43	18.66
		1	50	19.50	18.60	18.51	18.60
		1	99	19.50	18.65	18.39	18.72
		50	0	19.50	18.16	18.30	18.21
		50	25	19.50	18.18	18.17	18.21
		50	50	19.50	18.19	18.30	18.32
		100	0	19.50	18.12	18.14	18.18
	64QAM	1	0	19.50	18.54	18.39	18.74
		1	50	19.50	18.50	18.47	18.63
		1	99	19.50	18.47	18.43	18.67
		50	0	19.50	18.33	18.21	18.25
		50	25	19.50	18.33	18.33	18.22
		50	50	19.50	18.32	18.31	18.04
		100	0	19.50	18.16	18.20	18.04

Table 45: Conducted power measurement results of LTE Band 2 (Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	13.00	11.74	11.78	11.79
		1	3	13.00	11.75	11.75	11.71
		1	5	13.00	11.71	11.77	11.69
		3	0	13.00	11.67	11.71	11.71
		3	2	13.00	11.73	11.72	11.72
		3	3	13.00	11.63	11.69	11.70
		6	0	13.00	11.57	11.61	11.63
	16QAM	1	0	13.00	11.64	11.72	11.85
		1	3	13.00	11.80	11.93	11.84
		1	5	13.00	11.76	11.79	11.86
		3	0	13.00	11.66	11.71	11.70
		3	2	13.00	11.61	11.67	11.64
		3	3	13.00	11.67	11.63	11.70
		6	0	13.00	11.53	11.57	11.56
	64QAM	1	0	13.00	11.89	11.78	11.95
		1	3	13.00	11.87	11.91	11.78
		1	5	13.00	11.78	11.83	11.84
		3	0	13.00	11.60	11.63	11.62
		3	2	13.00	11.66	11.50	11.62
		3	3	13.00	11.58	11.60	11.71
		6	0	13.00	11.58	11.51	11.67
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	13.00	11.66	11.69	11.68
		1	7	13.00	11.65	11.70	11.66
		1	14	13.00	11.65	11.70	11.72
		8	0	13.00	11.70	11.70	11.71
		8	4	13.00	11.60	11.68	11.70
		8	7	13.00	11.66	11.65	11.63
		15	0	13.00	11.69	11.66	11.68
	16QAM	1	0	13.00	11.87	11.85	11.91
		1	7	13.00	11.94	11.86	11.81
		1	14	13.00	11.84	11.95	11.75
		8	0	13.00	11.57	11.57	11.65
		8	4	13.00	11.58	11.57	11.59
		8	7	13.00	11.54	11.54	11.65
		15	0	13.00	11.55	11.63	11.64
	64QAM	1	0	13.00	11.84	11.83	11.85
		1	7	13.00	11.71	11.94	11.77
		1	14	13.00	11.65	11.89	11.76
		8	0	13.00	11.56	11.58	11.62
		8	4	13.00	11.57	11.52	11.54
		8	7	13.00	11.51	11.60	11.63
		15	0	13.00	11.54	11.67	11.75

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	13.00	11.71	11.73	11.66
		1	13	13.00	11.71	11.72	11.79
		1	24	13.00	11.70	11.72	11.66
		12	0	13.00	11.79	11.76	11.71
		12	6	13.00	11.76	11.75	11.70
		12	13	13.00	11.76	11.76	11.71
		25	0	13.00	11.73	11.63	11.78
	16QAM	1	0	13.00	12.00	11.97	11.90
		1	13	13.00	11.99	11.84	11.98
		1	24	13.00	11.94	11.91	12.00
		12	0	13.00	11.62	11.62	11.64
		12	6	13.00	11.65	11.65	11.66
		12	13	13.00	11.62	11.68	11.63
		25	0	13.00	11.56	11.66	11.70
	64QAM	1	0	13.00	11.82	11.68	11.71
		1	13	13.00	11.79	11.92	11.78
		1	24	13.00	11.76	11.83	11.81
		12	0	13.00	11.65	11.66	11.71
		12	6	13.00	11.62	11.63	11.68
		12	13	13.00	11.60	11.69	11.71
		25	0	13.00	11.62	11.63	11.59
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	13.00	11.67	11.68	11.83
		1	25	13.00	11.68	11.68	11.83
		1	49	13.00	11.70	11.70	11.81
		25	0	13.00	11.77	11.69	11.70
		25	13	13.00	11.80	11.70	11.70
		25	25	13.00	11.79	11.71	11.69
		50	0	13.00	11.72	11.75	11.65
	16QAM	1	0	13.00	11.77	11.77	11.83
		1	25	13.00	11.79	11.85	11.72
		1	49	13.00	11.77	11.80	11.81
		25	0	13.00	11.60	11.56	11.66
		25	13	13.00	11.61	11.55	11.69
		25	25	13.00	11.59	11.53	11.57
		50	0	13.00	11.56	11.67	11.64
	64QAM	1	0	13.00	11.87	11.82	11.88
		1	25	13.00	11.83	11.84	11.88
		1	49	13.00	11.91	11.80	11.85
		25	0	13.00	11.62	11.58	11.76
		25	13	13.00	11.69	11.61	11.75
		25	25	13.00	11.70	11.62	11.73
		50	0	13.00	11.57	11.64	11.59

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	13.00	11.62	11.55	11.72
		1	38	13.00	11.63	11.62	11.73
		1	74	13.00	11.61	11.57	11.72
		36	0	13.00	11.79	11.76	11.77
		36	18	13.00	11.79	11.76	11.75
		36	39	13.00	11.78	11.76	11.78
		75	0	13.00	11.68	11.68	11.80
	16QAM	1	0	13.00	11.84	11.69	11.78
		1	38	13.00	11.81	11.64	11.85
		1	74	13.00	11.97	11.78	11.84
		36	0	13.00	11.59	11.59	11.75
		36	18	13.00	11.58	11.60	11.65
		36	39	13.00	11.57	11.62	11.78
		75	0	13.00	11.63	11.69	11.75
	64QAM	1	0	13.00	11.78	11.74	11.83
		1	38	13.00	11.91	11.70	11.90
		1	74	13.00	11.87	11.67	11.76
		36	0	13.00	11.67	11.63	11.80
		36	18	13.00	11.63	11.64	11.68
		36	39	13.00	11.60	11.63	11.68
		75	0	13.00	11.60	11.72	11.64
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	13.00	11.79	11.72	11.89
		1	50	13.00	11.81	11.71	11.92
		1	99	13.00	11.76	11.81	11.91
		50	0	13.00	11.76	11.74	11.74
		50	25	13.00	11.72	11.73	11.74
		50	50	13.00	11.71	11.70	11.75
		100	0	13.00	11.69	11.74	11.82
	16QAM	1	0	13.00	12.02	11.93	12.11
		1	50	13.00	12.07	12.00	12.00
		1	99	13.00	12.05	11.93	11.97
		50	0	13.00	11.69	11.58	11.61
		50	25	13.00	11.69	11.55	11.59
		50	50	13.00	11.68	11.57	11.61
		100	0	13.00	11.64	11.66	11.66
	64QAM	1	0	13.00	11.96	11.92	12.01
		1	50	13.00	12.01	11.92	11.92
		1	99	13.00	11.99	11.92	12.02
		50	0	13.00	11.72	11.60	11.67
		50	25	13.00	11.71	11.59	11.69
		50	50	13.00	11.72	11.59	11.70
		100	0	13.00	11.59	11.68	11.65

Table 46: Conducted power measurement results of LTE Band 2(Receiver ON)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	12.00	10.71	10.71	10.80
		1	3	12.00	10.71	10.70	10.81
		1	5	12.00	10.71	10.72	10.82
		3	0	12.00	10.70	10.68	10.78
		3	2	12.00	10.75	10.67	10.74
		3	3	12.00	10.70	10.66	10.72
		6	0	12.00	10.65	10.70	10.62
	16QAM	1	0	12.00	10.77	10.80	10.72
		1	3	12.00	10.81	10.85	10.83
		1	5	12.00	10.79	10.90	10.74
		3	0	12.00	10.69	10.74	10.70
		3	2	12.00	10.70	10.63	10.79
		3	3	12.00	10.73	10.71	10.71
		6	0	12.00	10.65	10.50	10.57
	64QAM	1	0	12.00	10.76	10.90	10.91
		1	3	12.00	10.78	10.78	10.87
		1	5	12.00	10.71	10.82	10.93
		3	0	12.00	10.75	10.75	10.62
		3	2	12.00	10.68	10.71	10.62
		3	3	12.00	10.61	10.58	10.64
		6	0	12.00	10.55	10.68	10.63
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	12.00	10.70	10.66	10.79
		1	7	12.00	10.68	10.64	10.79
		1	14	12.00	10.71	10.63	10.79
		8	0	12.00	10.66	10.68	10.74
		8	4	12.00	10.65	10.66	10.77
		8	7	12.00	10.75	10.67	10.72
		15	0	12.00	10.61	10.75	10.70
	16QAM	1	0	12.00	10.89	10.78	10.90
		1	7	12.00	10.89	10.81	10.75
		1	14	12.00	10.78	10.84	10.81
		8	0	12.00	10.68	10.60	10.64
		8	4	12.00	10.64	10.65	10.64
		8	7	12.00	10.62	10.65	10.63
		15	0	12.00	10.60	10.63	10.67
	64QAM	1	0	12.00	10.77	10.82	10.88
		1	7	12.00	10.79	10.66	10.81
		1	14	12.00	10.71	10.59	10.75
		8	0	12.00	10.63	10.59	10.60
		8	4	12.00	10.50	10.65	10.60
		8	7	12.00	10.64	10.57	10.63
		15	0	12.00	10.63	10.63	10.76

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	12.00	10.73	10.63	10.75
		1	13	12.00	10.71	10.73	10.75
		1	24	12.00	10.70	10.74	10.73
		12	0	12.00	10.68	10.78	10.67
		12	6	12.00	10.69	10.78	10.67
		12	13	12.00	10.68	10.77	10.68
		25	0	12.00	10.68	10.76	10.78
	16QAM	1	0	12.00	10.97	10.89	10.92
		1	13	12.00	10.89	10.83	11.08
		1	24	12.00	10.98	11.01	11.09
		12	0	12.00	10.69	10.77	10.76
		12	6	12.00	10.70	10.77	10.67
		12	13	12.00	10.79	10.76	10.66
		25	0	12.00	10.63	10.69	10.68
	64QAM	1	0	12.00	10.79	10.63	10.78
		1	13	12.00	10.78	10.73	10.76
		1	24	12.00	10.78	10.87	10.71
		12	0	12.00	10.65	10.69	10.61
		12	6	12.00	10.67	10.73	10.67
		12	13	12.00	10.66	10.70	10.65
		25	0	12.00	10.57	10.56	10.67
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	12.00	10.67	10.57	10.69
		1	25	12.00	10.70	10.62	10.69
		1	49	12.00	10.72	10.60	10.68
		25	0	12.00	10.68	10.65	10.70
		25	13	12.00	10.66	10.65	10.73
		25	25	12.00	10.65	10.66	10.70
		50	0	12.00	10.71	10.72	10.68
	16QAM	1	0	12.00	10.94	10.54	10.73
		1	25	12.00	10.75	10.71	10.77
		1	49	12.00	10.86	10.67	10.79
		25	0	12.00	10.63	10.61	10.61
		25	13	12.00	10.67	10.62	10.60
		25	25	12.00	10.63	10.61	10.60
		50	0	12.00	10.61	10.67	10.59
	64QAM	1	0	12.00	10.70	10.72	10.91
		1	25	12.00	10.80	10.66	10.76
		1	49	12.00	10.94	10.73	10.80
		25	0	12.00	10.67	10.64	10.69
		25	13	12.00	10.62	10.62	10.71
		25	25	12.00	10.68	10.62	10.68
		50	0	12.00	10.57	10.63	10.74

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	12.00	10.65	10.57	10.65
		1	38	12.00	10.66	10.57	10.70
		1	74	12.00	10.64	10.56	10.71
		36	0	12.00	10.73	10.79	10.74
		36	18	12.00	10.72	10.65	10.73
		36	39	12.00	10.73	10.65	10.69
		75	0	12.00	10.71	10.77	10.72
	16QAM	1	0	12.00	10.78	10.74	10.74
		1	38	12.00	10.77	10.86	10.80
		1	74	12.00	10.78	10.78	10.93
		36	0	12.00	10.71	10.64	10.74
		36	18	12.00	10.71	10.65	10.67
		36	39	12.00	10.72	10.64	10.73
		75	0	12.00	10.63	10.67	10.68
	64QAM	1	0	12.00	10.74	10.71	10.81
		1	38	12.00	10.88	10.82	10.72
		1	74	12.00	10.74	10.70	10.74
		36	0	12.00	10.65	10.64	10.79
		36	18	12.00	10.63	10.61	10.68
		36	39	12.00	10.64	10.63	10.71
		75	0	12.00	10.55	10.62	10.69
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	12.00	10.84	10.72	10.88
		1	50	12.00	10.80	10.73	10.87
		1	99	12.00	10.81	10.73	10.88
		50	0	12.00	10.73	10.62	10.71
		50	25	12.00	10.74	10.63	10.74
		50	50	12.00	10.72	10.76	10.71
		100	0	12.00	10.76	10.77	10.70
	16QAM	1	0	12.00	11.06	10.99	11.17
		1	50	12.00	11.08	11.13	11.12
		1	99	12.00	11.01	10.97	10.99
		50	0	12.00	10.67	10.57	10.64
		50	25	12.00	10.67	10.62	10.63
		50	50	12.00	10.68	10.69	10.64
		100	0	12.00	10.64	10.69	10.70
	64QAM	1	0	12.00	10.93	10.85	10.99
		1	50	12.00	10.96	10.81	11.01
		1	99	12.00	10.91	10.90	10.96
		50	0	12.00	10.65	10.59	10.66
		50	25	12.00	10.67	10.62	10.68
		50	50	12.00	10.66	10.62	10.68
		100	0	12.00	10.56	10.60	10.63

Table 47: Conducted power measurement results of LTE Band 2 (Second Antenna+WiFi Antenna, Receiver ON)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	18.50	17.14	17.19	17.35
		1	3	18.50	17.30	17.19	17.32
		1	5	18.50	17.32	17.20	17.31
		3	0	18.50	17.11	17.10	17.27
		3	2	18.50	17.13	17.08	17.26
		3	3	18.50	17.16	17.14	17.25
		6	0	18.50	17.20	17.16	17.13
	16QAM	1	0	18.50	17.18	17.12	17.37
		1	3	18.50	17.42	17.14	17.30
		1	5	18.50	17.30	17.21	17.27
		3	0	18.50	17.20	17.22	17.24
		3	2	18.50	17.17	17.19	17.18
		3	3	18.50	17.24	17.24	17.24
		6	0	18.50	17.08	17.15	17.15
	64QAM	1	0	18.50	17.43	17.34	17.27
		1	3	18.50	17.49	17.40	17.41
		1	5	18.50	17.54	17.51	17.43
		3	0	18.50	17.17	17.35	17.10
		3	2	18.50	17.18	17.16	17.14
		3	3	18.50	17.18	17.24	17.15
		6	0	18.50	17.11	17.13	17.21
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	18.50	17.18	17.20	17.30
		1	7	18.50	17.22	17.24	17.33
		1	14	18.50	17.18	17.22	17.19
		8	0	18.50	17.16	17.17	17.20
		8	4	18.50	17.22	17.20	17.23
		8	7	18.50	17.13	17.17	17.23
		15	0	18.50	17.16	17.21	17.27
	16QAM	1	0	18.50	17.31	17.39	17.47
		1	7	18.50	17.53	17.32	17.38
		1	14	18.50	17.49	17.34	17.45
		8	0	18.50	17.16	17.12	17.20
		8	4	18.50	17.24	17.26	17.20
		8	7	18.50	17.15	17.27	17.19
		15	0	18.50	17.15	17.26	17.20
	64QAM	1	0	18.50	17.48	17.26	17.46
		1	7	18.50	17.46	17.37	17.28
		1	14	18.50	17.40	17.41	17.27
		8	0	18.50	17.16	17.13	17.19
		8	4	18.50	17.11	17.14	17.14
		8	7	18.50	17.07	17.11	17.16
		15	0	18.50	17.18	17.27	17.29

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	18.50	17.23	17.20	17.27
		1	13	18.50	17.21	17.20	17.27
		1	24	18.50	17.22	17.20	17.26
		12	0	18.50	17.21	17.30	17.25
		12	6	18.50	17.25	17.30	17.26
		12	13	18.50	17.26	17.31	17.25
		25	0	18.50	17.14	17.29	17.34
	16QAM	1	0	18.50	17.35	17.35	17.39
		1	13	18.50	17.42	17.41	17.37
		1	24	18.50	17.44	17.29	17.38
		12	0	18.50	17.21	17.33	17.17
		12	6	18.50	17.23	17.39	17.20
		12	13	18.50	17.25	17.34	17.18
		25	0	18.50	17.19	17.25	17.30
	64QAM	1	0	18.50	17.32	17.40	17.40
		1	13	18.50	17.35	17.45	17.44
		1	24	18.50	17.38	17.41	17.44
		12	0	18.50	17.25	17.24	17.16
		12	6	18.50	17.22	17.25	17.15
		12	13	18.50	17.22	17.23	17.17
		25	0	18.50	17.11	17.32	17.25
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	18.50	17.30	17.16	17.37
		1	25	18.50	17.30	17.26	17.36
		1	49	18.50	17.30	17.22	17.34
		25	0	18.50	17.20	17.28	17.22
		25	13	18.50	17.19	17.27	17.21
		25	25	18.50	17.20	17.29	17.23
		50	0	18.50	17.28	17.32	17.23
	16QAM	1	0	18.50	17.29	17.15	17.45
		1	25	18.50	17.31	17.29	17.31
		1	49	18.50	17.30	17.30	17.37
		25	0	18.50	17.24	17.21	17.19
		25	13	18.50	17.14	17.24	17.16
		25	25	18.50	17.13	17.20	17.16
		50	0	18.50	17.18	17.25	17.18
	64QAM	1	0	18.50	17.43	17.25	17.30
		1	25	18.50	17.40	17.39	17.46
		1	49	18.50	17.41	17.31	17.41
		25	0	18.50	17.12	17.20	17.18
		25	13	18.50	17.15	17.19	17.24
		25	25	18.50	17.14	17.20	17.22
		50	0	18.50	17.21	17.28	17.19

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	18.50	17.29	17.17	17.22
		1	38	18.50	17.28	17.14	17.23
		1	74	18.50	17.26	17.21	17.34
		36	0	18.50	17.38	17.29	17.32
		36	18	18.50	17.27	17.29	17.43
		36	39	18.50	17.26	17.30	17.42
		75	0	18.50	17.32	17.36	17.38
	16QAM	1	0	18.50	17.32	17.25	17.34
		1	38	18.50	17.30	17.26	17.23
		1	74	18.50	17.36	17.30	17.40
		36	0	18.50	17.30	17.34	17.37
		36	18	18.50	17.24	17.32	17.22
		36	39	18.50	17.30	17.33	17.35
		75	0	18.50	17.26	17.26	17.27
	64QAM	1	0	18.50	17.39	17.19	17.32
		1	38	18.50	17.49	17.06	17.30
		1	74	18.50	17.36	17.17	17.27
		36	0	18.50	17.32	17.31	17.35
		36	18	18.50	17.32	17.34	17.36
		36	39	18.50	17.34	17.32	17.37
		75	0	18.50	17.27	17.33	17.18
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	18.50	17.34	17.43	17.50
		1	50	18.50	17.48	17.39	17.52
		1	99	18.50	17.49	17.41	17.51
		50	0	18.50	17.34	17.25	17.42
		50	25	18.50	17.31	17.25	17.42
		50	50	18.50	17.34	17.24	17.41
		100	0	18.50	17.30	17.36	17.26
	16QAM	1	0	18.50	17.51	17.48	17.46
		1	50	18.50	17.44	17.38	17.54
		1	99	18.50	17.51	17.40	17.74
		50	0	18.50	17.15	17.29	17.32
		50	25	18.50	17.16	17.28	17.34
		50	50	18.50	17.16	17.25	17.32
		100	0	18.50	17.25	17.28	17.19
	64QAM	1	0	18.50	17.61	17.46	17.57
		1	50	18.50	17.49	17.34	17.54
		1	99	18.50	17.58	17.41	17.48
		50	0	18.50	17.16	17.15	17.36
		50	25	18.50	17.16	17.28	17.36
		50	50	18.50	17.14	17.30	17.35
		100	0	18.50	17.28	17.27	17.23

Table 48: Conducted power measurement results of LTE Band 2 (Second Antenna+WiFi Antenna, Receiver OFF)

7.1.12 Conducted power measurements of LTE Band 2 (Main Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	24.50	23.48	23.38	23.22
		1	3	24.50	23.49	23.40	23.24
		1	5	24.50	23.50	23.43	23.36
		3	0	24.50	23.33	23.38	23.23
		3	2	24.50	23.26	23.37	23.20
		3	3	24.50	23.26	23.37	23.21
		6	0	23.50	22.29	22.32	22.11
	16QAM	1	0	23.50	22.48	22.49	22.36
		1	3	23.50	22.46	22.55	22.34
		1	5	23.50	22.49	22.64	22.28
		3	0	23.50	22.41	22.48	22.26
		3	2	23.50	22.41	22.51	22.28
		3	3	23.50	22.42	22.51	22.25
		6	0	22.50	21.25	21.31	21.14
	64QAM	1	0	22.50	21.54	21.49	21.38
		1	3	22.50	21.57	21.57	21.44
		1	5	22.50	21.63	21.58	21.53
		3	0	22.50	21.29	21.41	21.25
		3	2	22.50	21.33	21.44	21.15
		3	3	22.50	21.35	21.43	21.31
		6	0	21.50	20.38	20.42	20.21
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	24.50	23.37	23.37	23.33
		1	7	24.50	23.46	23.38	23.36
		1	14	24.50	23.43	23.37	23.34
		8	0	23.50	22.27	22.37	22.33
		8	4	23.50	22.38	22.36	22.33
		8	7	23.50	22.35	22.39	22.23
		15	0	23.50	22.40	22.41	22.23
	16QAM	1	0	23.50	22.52	22.54	22.47
		1	7	23.50	22.53	22.55	22.31
		1	14	23.50	22.64	22.54	22.33
		8	0	22.50	21.31	21.36	21.18
		8	4	22.50	21.32	21.39	21.24
		8	7	22.50	21.33	21.37	21.23
		15	0	22.50	21.28	21.42	21.25
	64QAM	1	0	22.50	21.60	21.65	21.42
		1	7	22.50	21.52	21.72	21.42
		1	14	22.50	21.56	21.65	21.40
		8	0	21.50	20.40	20.50	20.36
		8	4	21.50	20.39	20.47	20.33
		8	7	21.50	20.40	20.46	20.34
		15	0	21.50	20.36	20.57	20.33

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	24.50	23.42	23.51	23.32
		1	13	24.50	23.53	23.35	23.29
		1	24	24.50	23.43	23.42	23.28
		12	0	23.50	22.54	22.46	22.28
		12	6	23.50	22.54	22.47	22.28
		12	13	23.50	22.54	22.49	22.31
		25	0	23.50	22.31	22.42	22.25
	16QAM	1	0	23.50	22.49	22.45	22.56
		1	13	23.50	22.47	22.52	22.48
		1	24	23.50	22.62	22.60	22.50
		12	0	22.50	21.52	21.48	21.47
		12	6	22.50	21.48	21.52	21.46
		12	13	22.50	21.49	21.51	21.42
		25	0	22.50	21.27	21.41	21.28
	64QAM	1	0	22.50	21.58	21.61	21.61
		1	13	22.50	21.49	21.67	21.60
		1	24	22.50	21.55	21.55	21.52
		12	0	21.50	20.46	20.61	20.35
		12	6	21.50	20.45	20.57	20.35
		12	13	21.50	20.49	20.62	20.38
		25	0	21.50	20.40	20.55	20.29
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	24.50	23.44	23.37	23.47
		1	25	24.50	23.38	23.32	23.43
		1	49	24.50	23.37	23.45	23.40
		25	0	23.50	22.41	22.40	22.46
		25	13	23.50	22.40	22.51	22.34
		25	25	23.50	22.40	22.51	22.32
		50	0	23.50	22.46	22.42	22.27
	16QAM	1	0	23.50	22.46	22.45	22.69
		1	25	23.50	22.55	22.53	22.48
		1	49	23.50	22.48	22.39	22.52
		25	0	22.50	21.33	21.44	21.33
		25	13	22.50	21.30	21.34	21.22
		25	25	22.50	21.35	21.36	21.28
		50	0	22.50	21.40	21.38	21.25
	64QAM	1	0	22.50	21.71	21.43	21.59
		1	25	22.50	21.71	21.60	21.46
		1	49	22.50	21.70	21.58	21.54
		25	0	21.50	20.47	20.44	20.43
		25	13	21.50	20.47	20.46	20.42
		25	25	21.50	20.46	20.44	20.46
		50	0	21.50	20.44	20.55	20.37

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	24.50	23.57	23.34	23.38
		1	38	24.50	23.45	23.33	23.34
		1	74	24.50	23.43	23.34	23.35
		36	0	23.50	22.53	22.54	22.43
		36	18	23.50	22.53	22.55	22.43
		36	39	23.50	22.53	22.56	22.43
		75	0	23.50	22.43	22.45	22.33
	16QAM	1	0	23.50	22.53	22.52	22.56
		1	38	23.50	22.49	22.40	22.47
		1	74	23.50	22.53	22.58	22.44
		36	0	22.50	21.46	21.48	21.32
		36	18	22.50	21.48	21.51	21.39
		36	39	22.50	21.49	21.49	21.38
		75	0	22.50	21.36	21.42	21.26
	64QAM	1	0	22.50	21.53	21.46	21.45
		1	38	22.50	21.52	21.63	21.50
		1	74	22.50	21.53	21.49	21.41
		36	0	21.50	20.48	20.61	20.39
		36	18	21.50	20.46	20.60	20.40
		36	39	21.50	20.51	20.62	20.40
		75	0	21.50	20.46	20.59	20.37
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	24.50	23.68	23.63	23.48
		1	50	24.50	23.58	23.62	23.46
		1	99	24.50	23.55	23.62	23.45
		50	0	23.50	22.53	22.39	22.33
		50	25	23.50	22.42	22.56	22.32
		50	50	23.50	22.42	22.55	22.33
		100	0	23.50	22.39	22.53	22.44
	16QAM	1	0	23.50	22.76	22.85	22.55
		1	50	23.50	22.69	22.83	22.60
		1	99	23.50	22.66	22.77	22.64
		50	0	22.50	21.42	21.48	21.29
		50	25	22.50	21.35	21.47	21.43
		50	50	22.50	21.31	21.37	21.28
		100	0	22.50	21.28	21.47	21.26
	64QAM	1	0	22.50	21.75	21.70	21.66
		1	50	22.50	21.76	21.74	21.63
		1	99	22.50	21.70	21.79	21.69
		50	0	21.50	20.45	20.47	20.36
		50	25	21.50	20.51	20.46	20.39
		50	50	21.50	20.49	20.47	20.35
		100	0	21.50	20.46	20.46	20.32

Table 49: Conducted power measurement results of LTE Band 2(Full power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	20.50	19.51	19.63	19.50
		1	3	20.50	19.53	19.60	19.49
		1	5	20.50	19.55	19.58	19.52
		3	0	20.50	19.43	19.34	19.31
		3	2	20.50	19.38	19.34	19.34
		3	3	20.50	19.34	19.39	19.45
		6	0	20.50	19.37	19.33	19.38
	16QAM	1	0	20.50	19.69	19.70	19.55
		1	3	20.50	19.66	19.70	19.63
		1	5	20.50	19.75	19.69	19.67
		3	0	20.50	19.51	19.40	19.44
		3	2	20.50	19.43	19.36	19.39
		3	3	20.50	19.46	19.39	19.39
		6	0	20.50	19.30	19.36	19.28
	64QAM	1	0	20.50	19.74	19.69	19.39
		1	3	20.50	19.68	19.69	19.38
		1	5	20.50	19.68	19.74	19.53
		3	0	20.50	19.49	19.37	19.34
		3	2	20.50	19.51	19.45	19.38
		3	3	20.50	19.48	19.53	19.36
		6	0	20.50	19.35	19.42	19.33
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	20.50	19.49	19.62	19.49
		1	7	20.50	19.60	19.59	19.54
		1	14	20.50	19.60	19.59	19.53
		8	0	20.50	19.40	19.42	19.38
		8	4	20.50	19.37	19.42	19.38
		8	7	20.50	19.41	19.39	19.39
		15	0	20.50	19.56	19.50	19.41
	16QAM	1	0	20.50	19.74	19.72	19.69
		1	7	20.50	19.74	19.69	19.62
		1	14	20.50	19.70	19.51	19.58
		8	0	20.50	19.40	19.49	19.35
		8	4	20.50	19.40	19.36	19.41
		8	7	20.50	19.39	19.38	19.34
		15	0	20.50	19.48	19.40	19.45
	64QAM	1	0	20.50	19.75	19.75	19.72
		1	7	20.50	19.62	19.73	19.71
		1	14	20.50	19.73	19.70	19.62
		8	0	20.50	19.47	19.44	19.34
		8	4	20.50	19.45	19.43	19.44
		8	7	20.50	19.43	19.31	19.41
		15	0	20.50	19.55	19.60	19.52

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	20.50	19.60	19.43	19.51
		1	13	20.50	19.59	19.45	19.41
		1	24	20.50	19.60	19.46	19.42
		12	0	20.50	19.60	19.66	19.45
		12	6	20.50	19.65	19.67	19.44
		12	13	20.50	19.66	19.66	19.44
		25	0	20.50	19.54	19.62	19.45
	16QAM	1	0	20.50	19.77	19.67	19.59
		1	13	20.50	19.72	19.56	19.70
		1	24	20.50	19.81	19.68	19.61
		12	0	20.50	19.63	19.65	19.54
		12	6	20.50	19.59	19.58	19.43
		12	13	20.50	19.64	19.57	19.51
		25	0	20.50	19.49	19.54	19.37
	64QAM	1	0	20.50	19.74	19.59	19.64
		1	13	20.50	19.87	19.64	19.61
		1	24	20.50	19.78	19.61	19.48
		12	0	20.50	19.65	19.67	19.39
		12	6	20.50	19.66	19.66	19.49
		12	13	20.50	19.59	19.60	19.40
		25	0	20.50	19.51	19.61	19.43
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	20.50	19.50	19.57	19.54
		1	25	20.50	19.50	19.59	19.43
		1	49	20.50	19.51	19.58	19.56
		25	0	20.50	19.52	19.46	19.44
		25	13	20.50	19.52	19.45	19.57
		25	25	20.50	19.50	19.46	19.45
		50	0	20.50	19.46	19.61	19.52
	16QAM	1	0	20.50	19.64	19.63	19.60
		1	25	20.50	19.55	19.73	19.68
		1	49	20.50	19.57	19.76	19.74
		25	0	20.50	19.41	19.39	19.39
		25	13	20.50	19.45	19.38	19.36
		25	25	20.50	19.45	19.39	19.39
		50	0	20.50	19.35	19.51	19.45
	64QAM	1	0	20.50	19.68	19.62	19.63
		1	25	20.50	19.68	19.72	19.69
		1	49	20.50	19.72	19.66	19.58
		25	0	20.50	19.46	19.44	19.52
		25	13	20.50	19.42	19.47	19.42
		25	25	20.50	19.44	19.46	19.39
		50	0	20.50	19.56	19.52	19.43

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	20.50	19.53	19.52	19.56
		1	38	20.50	19.51	19.57	19.61
		1	74	20.50	19.49	19.57	19.59
		36	0	20.50	19.51	19.67	19.54
		36	18	20.50	19.63	19.67	19.54
		36	39	20.50	19.61	19.67	19.54
		75	0	20.50	19.59	19.65	19.58
	16QAM	1	0	20.50	19.66	19.68	19.78
		1	38	20.50	19.62	19.55	19.65
		1	74	20.50	19.61	19.60	19.61
		36	0	20.50	19.56	19.59	19.45
		36	18	20.50	19.55	19.60	19.46
		36	39	20.50	19.54	19.59	19.46
		75	0	20.50	19.53	19.56	19.47
	64QAM	1	0	20.50	19.63	19.61	19.65
		1	38	20.50	19.75	19.73	19.70
		1	74	20.50	19.55	19.73	19.66
		36	0	20.50	19.64	19.63	19.58
		36	18	20.50	19.50	19.63	19.55
		36	39	20.50	19.54	19.63	19.56
		75	0	20.50	19.50	19.64	19.55
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	20.50	19.80	19.71	19.73
		1	50	20.50	19.68	19.74	19.77
		1	99	20.50	19.72	19.74	19.73
		50	0	20.50	19.61	19.63	19.54
		50	25	20.50	19.60	19.62	19.54
		50	50	20.50	19.60	19.51	19.54
		100	0	20.50	19.67	19.54	19.46
	16QAM	1	0	20.50	19.93	19.95	19.98
		1	50	20.50	19.84	19.90	19.99
		1	99	20.50	19.85	19.95	19.85
		50	0	20.50	19.54	19.54	19.46
		50	25	20.50	19.54	19.54	19.44
		50	50	20.50	19.53	19.42	19.42
		100	0	20.50	19.60	19.46	19.41
	64QAM	1	0	20.50	19.75	19.75	19.80
		1	50	20.50	19.86	19.80	19.81
		1	99	20.50	19.86	19.86	19.87
		50	0	20.50	19.53	19.58	19.56
		50	25	20.50	19.51	19.58	19.58
		50	50	20.50	19.51	19.47	19.57
		100	0	20.50	19.47	19.49	19.58

Table 50: Conducted power measurement results of LTE Band 2 (Reduced Power Level D2)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	17.50	16.46	16.47	16.36
		1	3	17.50	16.40	16.51	16.36
		1	5	17.50	16.44	16.49	16.35
		3	0	17.50	16.41	16.53	16.27
		3	2	17.50	16.43	16.36	16.28
		3	3	17.50	16.38	16.49	16.30
		6	0	17.50	16.42	16.34	16.39
	16QAM	1	0	17.50	16.56	16.60	16.54
		1	3	17.50	16.63	16.69	16.46
		1	5	17.50	16.49	16.39	16.45
		3	0	17.50	16.34	16.23	16.25
		3	2	17.50	16.36	16.29	16.18
		3	3	17.50	16.29	16.21	16.19
		6	0	17.50	16.13	16.40	16.15
	64QAM	1	0	17.50	16.57	16.70	16.45
		1	3	17.50	16.63	16.72	16.39
		1	5	17.50	16.95	16.73	16.44
		3	0	17.50	16.43	16.43	16.35
		3	2	17.50	16.46	16.38	16.35
		3	3	17.50	16.40	16.37	16.40
		6	0	17.50	16.43	16.39	16.25
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	17.50	16.47	16.52	16.44
		1	7	17.50	16.43	16.56	16.45
		1	14	17.50	16.46	16.57	16.45
		8	0	17.50	16.44	16.46	16.37
		8	4	17.50	16.40	16.48	16.33
		8	7	17.50	16.37	16.39	16.38
		15	0	17.50	16.47	16.41	16.41
	16QAM	1	0	17.50	16.67	16.51	16.48
		1	7	17.50	16.66	16.46	16.58
		1	14	17.50	16.70	16.75	16.65
		8	0	17.50	16.42	16.44	16.32
		8	4	17.50	16.32	16.46	16.34
		8	7	17.50	16.35	16.51	16.36
		15	0	17.50	16.32	16.50	16.31
	64QAM	1	0	17.50	16.52	16.73	16.44
		1	7	17.50	16.71	16.57	16.52
		1	14	17.50	16.62	16.70	16.43
		8	0	17.50	16.34	16.30	16.32
		8	4	17.50	16.45	16.26	16.33
		8	7	17.50	16.36	16.37	16.25
		15	0	17.50	16.36	16.38	16.32

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	17.50	16.55	16.59	16.41
		1	13	17.50	16.59	16.55	16.43
		1	24	17.50	16.59	16.58	16.46
		12	0	17.50	16.60	16.64	16.49
		12	6	17.50	16.63	16.63	16.47
		12	13	17.50	16.63	16.64	16.48
		25	0	17.50	16.53	16.40	16.47
	16QAM	1	0	17.50	16.70	16.54	16.46
		1	13	17.50	16.73	16.57	16.46
		1	24	17.50	16.71	16.56	16.48
		12	0	17.50	16.42	16.54	16.49
		12	6	17.50	16.46	16.53	16.43
		12	13	17.50	16.44	16.58	16.37
		25	0	17.50	16.35	16.44	16.39
	64QAM	1	0	17.50	16.52	16.60	16.39
		1	13	17.50	16.62	16.47	16.53
		1	24	17.50	16.54	16.40	16.47
		12	0	17.50	16.53	16.55	16.42
		12	6	17.50	16.50	16.52	16.41
		12	13	17.50	16.49	16.56	16.38
		25	0	17.50	16.42	16.49	16.41
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	17.50	16.47	16.41	16.43
		1	25	17.50	16.44	16.39	16.47
		1	49	17.50	16.48	16.37	16.45
		25	0	17.50	16.53	16.42	16.36
		25	13	17.50	16.53	16.38	16.38
		25	25	17.50	16.53	16.39	16.36
		50	0	17.50	16.41	16.58	16.37
	16QAM	1	0	17.50	16.52	16.46	16.36
		1	25	17.50	16.71	16.50	16.53
		1	49	17.50	16.74	16.41	16.56
		25	0	17.50	16.34	16.45	16.37
		25	13	17.50	16.39	16.49	16.38
		25	25	17.50	16.37	16.48	16.39
		50	0	17.50	16.42	16.44	16.36
	64QAM	1	0	17.50	16.85	16.56	16.60
		1	25	17.50	16.72	16.51	16.58
		1	49	17.50	16.63	16.37	16.44
		25	0	17.50	16.45	16.51	16.36
		25	13	17.50	16.45	16.52	16.35
		25	25	17.50	16.49	16.53	16.33
		50	0	17.50	16.47	16.48	16.38

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	17.50	16.60	16.39	16.53
		1	38	17.50	16.62	16.40	16.52
		1	74	17.50	16.58	16.40	16.54
		36	0	17.50	16.50	16.60	16.51
		36	18	17.50	16.49	16.55	16.52
		36	39	17.50	16.49	16.61	16.53
		75	0	17.50	16.44	16.55	16.49
	16QAM	1	0	17.50	16.59	16.61	16.43
		1	38	17.50	16.60	16.58	16.55
		1	74	17.50	16.59	16.56	16.58
		36	0	17.50	16.39	16.50	16.40
		36	18	17.50	16.43	16.50	16.36
		36	39	17.50	16.42	16.51	16.38
		75	0	17.50	16.44	16.50	16.42
	64QAM	1	0	17.50	16.52	16.40	16.59
		1	38	17.50	16.40	16.51	16.76
		1	74	17.50	16.68	16.49	16.59
		36	0	17.50	16.44	16.53	16.46
		36	18	17.50	16.42	16.57	16.43
		36	39	17.50	16.43	16.52	16.43
		75	0	17.50	16.47	16.54	16.47
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	17.50	16.61	16.58	16.68
		1	50	17.50	16.63	16.59	16.63
		1	99	17.50	16.60	16.59	16.68
		50	0	17.50	16.60	16.45	16.51
		50	25	17.50	16.47	16.41	16.60
		50	50	17.50	16.46	16.40	16.58
		100	0	17.50	16.46	16.59	16.53
	16QAM	1	0	17.50	16.88	16.76	16.63
		1	50	17.50	16.78	16.76	16.67
		1	99	17.50	16.93	16.81	16.60
		50	0	17.50	16.36	16.46	16.52
		50	25	17.50	16.38	16.51	16.52
		50	50	17.50	16.39	16.37	16.50
		100	0	17.50	16.38	16.36	16.43
	64QAM	1	0	17.50	16.72	16.68	16.66
		1	50	17.50	16.93	16.62	16.79
		1	99	17.50	16.88	16.62	16.80
		50	0	17.50	16.42	16.38	16.50
		50	25	17.50	16.40	16.42	16.53
		50	50	17.50	16.41	16.37	16.53
		100	0	17.50	16.41	16.40	16.42

Table 51: Conducted power measurement results of LTE Band 2 (Reduced Power Level D4/D5)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	13.50	12.50	12.48	12.42
		1	3	13.50	12.47	12.44	12.47
		1	5	13.50	12.49	12.46	12.35
		3	0	13.50	12.39	12.44	12.30
		3	2	13.50	12.42	12.41	12.32
		3	3	13.50	12.51	12.34	12.22
		6	0	13.50	12.36	12.44	12.33
	16QAM	1	0	13.50	12.71	12.55	12.47
		1	3	13.50	12.67	12.64	12.57
		1	5	13.50	12.56	12.69	12.35
		3	0	13.50	12.52	12.51	12.29
		3	2	13.50	12.43	12.31	12.24
		3	3	13.50	12.53	12.33	12.28
		6	0	13.50	12.19	12.29	12.21
	64QAM	1	0	13.50	12.66	12.54	12.56
		1	3	13.50	12.75	12.54	12.70
		1	5	13.50	12.74	12.57	12.49
		3	0	13.50	12.36	12.55	12.18
		3	2	13.50	12.36	12.52	12.29
		3	3	13.50	12.58	12.42	12.39
		6	0	13.50	12.39	12.42	12.20
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	13.50	12.46	12.46	12.39
		1	7	13.50	12.45	12.46	12.38
		1	14	13.50	12.47	12.45	12.34
		8	0	13.50	12.48	12.47	12.41
		8	4	13.50	12.44	12.42	12.36
		8	7	13.50	12.54	12.47	12.45
		15	0	13.50	12.42	12.53	12.31
	16QAM	1	0	13.50	12.64	12.58	12.47
		1	7	13.50	12.60	12.80	12.39
		1	14	13.50	12.64	12.55	12.58
		8	0	13.50	12.37	12.39	12.36
		8	4	13.50	12.39	12.42	12.37
		8	7	13.50	12.49	12.40	12.28
		15	0	13.50	12.29	12.38	12.35
	64QAM	1	0	13.50	12.71	12.52	12.46
		1	7	13.50	12.72	12.49	12.61
		1	14	13.50	12.74	12.63	12.72
		8	0	13.50	12.31	12.27	12.32
		8	4	13.50	12.25	12.37	12.23
		8	7	13.50	12.32	12.29	12.24
		15	0	13.50	12.32	12.39	12.40

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	13.50	12.58	12.45	12.35
		1	13	13.50	12.56	12.52	12.33
		1	24	13.50	12.61	12.48	12.34
		12	0	13.50	12.62	12.57	12.39
		12	6	13.50	12.60	12.58	12.36
		12	13	13.50	12.61	12.58	12.39
		25	0	13.50	12.54	12.55	12.36
	16QAM	1	0	13.50	12.83	12.61	12.69
		1	13	13.50	12.64	12.60	12.61
		1	24	13.50	12.82	12.56	12.57
		12	0	13.50	12.61	12.44	12.40
		12	6	13.50	12.52	12.46	12.37
		12	13	13.50	12.55	12.49	12.37
		25	0	13.50	12.35	12.42	12.28
	64QAM	1	0	13.50	12.81	12.51	12.52
		1	13	13.50	12.65	12.54	12.38
		1	24	13.50	12.75	12.51	12.64
		12	0	13.50	12.46	12.42	12.34
		12	6	13.50	12.48	12.40	12.34
		12	13	13.50	12.44	12.43	12.33
		25	0	13.50	12.33	12.33	12.40
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	13.50	12.45	12.38	12.35
		1	25	13.50	12.45	12.36	12.39
		1	49	13.50	12.51	12.38	12.41
		25	0	13.50	12.50	12.53	12.33
		25	13	13.50	12.47	12.54	12.34
		25	25	13.50	12.48	12.52	12.34
		50	0	13.50	12.53	12.50	12.47
	16QAM	1	0	13.50	12.74	12.46	12.57
		1	25	13.50	12.51	12.39	12.52
		1	49	13.50	12.63	12.51	12.66
		25	0	13.50	12.51	12.42	12.34
		25	13	13.50	12.49	12.44	12.34
		25	25	13.50	12.52	12.38	12.24
		50	0	13.50	12.40	12.31	12.27
	64QAM	1	0	13.50	12.71	12.45	12.42
		1	25	13.50	12.58	12.44	12.65
		1	49	13.50	12.46	12.62	12.59
		25	0	13.50	12.50	12.40	12.30
		25	13	13.50	12.49	12.40	12.28
		25	25	13.50	12.48	12.36	12.35
		50	0	13.50	12.34	12.37	12.28

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	13.50	12.57	12.35	12.37
		1	38	13.50	12.58	12.32	12.37
		1	74	13.50	12.55	12.34	12.35
		36	0	13.50	12.52	12.46	12.49
		36	18	13.50	12.57	12.47	12.48
		36	39	13.50	12.53	12.47	12.48
		75	0	13.50	12.45	12.44	12.45
	16QAM	1	0	13.50	12.63	12.57	12.56
		1	38	13.50	12.65	12.45	12.52
		1	74	13.50	12.78	12.66	12.50
		36	0	13.50	12.41	12.43	12.39
		36	18	13.50	12.45	12.43	12.34
		36	39	13.50	12.49	12.43	12.33
		75	0	13.50	12.42	12.39	12.37
	64QAM	1	0	13.50	12.64	12.33	12.57
		1	38	13.50	12.51	12.57	12.45
		1	74	13.50	12.57	12.64	12.69
		36	0	13.50	12.51	12.41	12.40
		36	18	13.50	12.52	12.39	12.45
		36	39	13.50	12.50	12.49	12.43
		75	0	13.50	12.40	12.48	12.34
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	13.50	12.59	12.50	12.57
		1	50	13.50	12.61	12.51	12.55
		1	99	13.50	12.62	12.53	12.56
		50	0	13.50	12.51	12.44	12.43
		50	25	13.50	12.49	12.41	12.45
		50	50	13.50	12.50	12.45	12.44
		100	0	13.50	12.48	12.52	12.42
	16QAM	1	0	13.50	12.90	12.78	12.82
		1	50	13.50	12.74	12.73	12.76
		1	99	13.50	12.91	12.70	12.72
		50	0	13.50	12.49	12.40	12.47
		50	25	13.50	12.46	12.47	12.48
		50	50	13.50	12.45	12.36	12.49
		100	0	13.50	12.46	12.38	12.36
	64QAM	1	0	13.50	12.61	12.53	12.66
		1	50	13.50	12.71	12.67	12.64
		1	99	13.50	12.82	12.78	12.53
		50	0	13.50	12.43	12.39	12.42
		50	25	13.50	12.43	12.35	12.47
		50	50	13.50	12.43	12.37	12.49
		100	0	13.50	12.41	12.38	12.46

Table 52: Conducted power measurement results of LTE Band 2 (Reduced Power Level D6)

7.1.13 Conducted power measurements of LTE Band 4 (Second Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19957CH	20175CH	20393CH
1.4MHz	QPSK	1	0	21.00	19.73	19.58	19.80
		1	3	21.00	19.77	19.53	19.79
		1	5	21.00	19.68	19.51	19.74
		3	0	21.00	19.74	19.44	19.63
		3	2	21.00	19.75	19.48	19.68
		3	3	21.00	19.72	19.46	19.60
		6	0	21.00	19.71	19.56	19.64
	16QAM	1	0	21.00	19.80	19.70	19.93
		1	3	21.00	19.90	19.51	19.88
		1	5	21.00	19.72	19.57	19.86
		3	0	21.00	19.75	19.52	19.65
		3	2	21.00	19.62	19.51	19.67
		3	3	21.00	19.72	19.57	19.68
		6	0	21.00	19.66	19.46	19.56
	64QAM	1	0	21.00	19.77	19.67	19.81
		1	3	21.00	19.76	19.59	19.88
		1	5	21.00	19.82	19.65	19.85
		3	0	21.00	19.68	19.54	19.66
		3	2	21.00	19.71	19.55	19.65
		3	3	21.00	19.67	19.65	19.68
		6	0	21.00	19.79	19.47	19.59
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19965CH	20175CH	20385CH
3MHz	QPSK	1	0	21.00	19.78	19.49	20.03
		1	7	21.00	19.79	19.45	19.91
		1	14	21.00	19.78	19.40	20.03
		8	0	21.00	19.73	19.54	19.82
		8	4	21.00	19.74	19.62	19.81
		8	7	21.00	19.74	19.52	19.81
		15	0	21.00	19.78	19.55	19.75
	16QAM	1	0	21.00	19.78	19.59	20.08
		1	7	21.00	20.02	19.66	19.99
		1	14	21.00	19.93	19.60	20.11
		8	0	21.00	19.71	19.66	19.63
		8	4	21.00	19.72	19.48	19.73
		8	7	21.00	19.76	19.48	19.74
		15	0	21.00	19.63	19.37	19.66
	64QAM	1	0	21.00	19.79	19.58	19.93
		1	7	21.00	19.72	19.62	19.96
		1	14	21.00	19.96	19.68	19.97
		8	0	21.00	19.78	19.42	19.76
		8	4	21.00	19.77	19.46	19.80
		8	7	21.00	19.73	19.44	19.84
		15	0	21.00	19.65	19.38	19.76

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	21.00	19.79	19.61	20.02
		1	13	21.00	19.82	19.63	20.05
		1	24	21.00	19.84	19.62	20.06
		12	0	21.00	19.85	19.72	19.87
		12	6	21.00	19.86	19.65	20.01
		12	13	21.00	19.85	19.65	20.01
		25	0	21.00	19.81	19.61	19.83
	16QAM	1	0	21.00	20.06	19.88	20.22
		1	13	21.00	19.96	19.94	20.22
		1	24	21.00	19.98	19.71	20.06
		12	0	21.00	19.82	19.53	19.90
		12	6	21.00	19.78	19.53	19.90
		12	13	21.00	19.76	19.54	19.86
		25	0	21.00	19.72	19.56	19.75
	64QAM	1	0	21.00	19.89	19.77	19.93
		1	13	21.00	19.87	19.76	19.91
		1	24	21.00	19.83	19.83	19.92
		12	0	21.00	19.80	19.51	19.98
		12	6	21.00	19.84	19.58	19.96
		12	13	21.00	19.77	19.50	19.97
		25	0	21.00	19.76	19.43	19.78
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	21.00	19.80	18.83	19.79
		1	25	21.00	19.79	18.73	19.78
		1	49	21.00	19.73	18.75	19.80
		25	0	21.00	19.76	19.52	19.66
		25	13	21.00	19.77	19.57	19.75
		25	25	21.00	19.80	19.51	19.74
		50	0	21.00	19.69	19.48	19.65
	16QAM	1	0	21.00	19.73	18.76	19.82
		1	25	21.00	19.62	18.60	19.77
		1	49	21.00	19.79	18.55	19.67
		25	0	21.00	19.59	19.34	19.60
		25	13	21.00	19.55	19.34	19.51
		25	25	21.00	19.55	19.33	19.59
		50	0	21.00	19.50	19.34	19.58
	64QAM	1	0	21.00	19.85	18.67	19.81
		1	25	21.00	19.70	18.65	19.80
		1	49	21.00	19.70	18.76	19.79
		25	0	21.00	19.77	19.44	19.67
		25	13	21.00	19.78	19.57	19.74
		25	25	21.00	19.79	19.45	19.66
		50	0	21.00	19.60	19.42	19.66

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	21.00	19.91	19.52	19.68
		1	38	21.00	19.90	19.53	19.71
		1	74	21.00	19.92	19.52	19.62
		36	0	21.00	19.85	19.36	19.74
		36	18	21.00	19.87	19.35	19.70
		36	39	21.00	19.87	19.35	19.76
		75	0	21.00	19.65	19.58	19.64
	16QAM	1	0	21.00	20.00	19.81	19.72
		1	38	21.00	19.94	19.71	19.75
		1	74	21.00	19.93	19.79	19.89
		36	0	21.00	19.77	19.30	19.69
		36	18	21.00	19.75	19.31	19.68
		36	39	21.00	19.76	19.31	19.68
		75	0	21.00	19.59	19.47	19.64
	64QAM	1	0	21.00	19.88	19.64	19.76
		1	38	21.00	19.95	19.71	19.77
		1	74	21.00	19.84	19.59	19.75
		36	0	21.00	19.91	19.23	19.73
		36	18	21.00	19.83	19.20	19.68
		36	39	21.00	19.85	19.25	19.74
		75	0	21.00	19.54	19.50	19.70
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20050CH	20175CH	20300CH
20MHz	QPSK	1	0	21.00	19.97	19.70	19.85
		1	50	21.00	20.25	19.67	19.86
		1	99	21.00	20.24	19.68	19.88
		50	0	21.00	19.76	19.67	19.70
		50	25	21.00	19.78	19.58	19.66
		50	50	21.00	19.68	19.66	19.70
		100	0	21.00	19.59	19.59	19.71
	16QAM	1	0	21.00	20.22	19.86	20.02
		1	50	21.00	20.12	19.75	19.98
		1	99	21.00	20.23	19.90	20.04
		50	0	21.00	19.67	19.51	19.65
		50	25	21.00	19.64	19.52	19.64
		50	50	21.00	19.61	19.55	19.64
		100	0	21.00	19.49	19.55	19.63
	64QAM	1	0	21.00	19.96	19.66	19.80
		1	50	21.00	20.20	19.74	19.78
		1	99	21.00	19.94	19.78	19.81
		50	0	21.00	19.77	19.46	19.65
		50	25	21.00	19.75	19.46	19.66
		50	50	21.00	19.72	19.45	19.67
		100	0	21.00	19.53	19.54	19.69

Table 53: Conducted power measurement results of LTE Band 4 (Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19957CH	20175CH	20393CH
1.4MHz	QPSK	1	0	14.00	12.70	12.51	12.66
		1	3	14.00	12.74	12.52	12.71
		1	5	14.00	12.75	12.52	12.70
		3	0	14.00	12.76	12.49	12.64
		3	2	14.00	12.75	12.41	12.63
		3	3	14.00	12.75	12.50	12.63
		6	0	14.00	12.70	12.43	12.57
	16QAM	1	0	14.00	12.94	12.60	12.80
		1	3	14.00	12.76	12.68	12.78
		1	5	14.00	12.88	12.67	12.77
		3	0	14.00	12.76	12.47	12.67
		3	2	14.00	12.77	12.57	12.59
		3	3	14.00	12.73	12.51	12.69
		6	0	14.00	12.64	12.36	12.57
	64QAM	1	0	14.00	12.88	12.69	12.76
		1	3	14.00	12.81	12.53	12.68
		1	5	14.00	12.87	12.52	12.87
		3	0	14.00	12.75	12.64	12.61
		3	2	14.00	12.68	12.48	12.64
		3	3	14.00	12.77	12.41	12.59
		6	0	14.00	12.74	12.52	12.65
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19965CH	20175CH	20385CH
3MHz	QPSK	1	0	14.00	12.71	12.45	12.97
		1	7	14.00	12.67	12.41	13.05
		1	14	14.00	12.75	12.39	12.95
		8	0	14.00	12.73	12.41	12.93
		8	4	14.00	12.76	12.45	12.94
		8	7	14.00	12.76	12.51	12.92
		15	0	14.00	12.67	12.48	12.61
	16QAM	1	0	14.00	12.90	12.48	13.30
		1	7	14.00	12.76	12.52	13.33
		1	14	14.00	12.86	12.71	13.25
		8	0	14.00	12.58	12.43	12.83
		8	4	14.00	12.75	12.38	12.94
		8	7	14.00	12.71	12.47	12.86
		15	0	14.00	12.70	12.40	12.64
	64QAM	1	0	14.00	12.82	12.58	13.31
		1	7	14.00	12.90	12.58	13.24
		1	14	14.00	12.94	12.42	13.28
		8	0	14.00	12.70	12.54	12.97
		8	4	14.00	12.73	12.55	12.94
		8	7	14.00	12.76	12.53	12.97
		15	0	14.00	12.73	12.56	12.68

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	14.00	12.77	12.56	13.01
		1	13	14.00	12.78	12.54	13.01
		1	24	14.00	12.78	12.55	13.01
		12	0	14.00	12.81	12.54	13.05
		12	6	14.00	12.75	12.54	13.05
		12	13	14.00	12.87	12.54	13.06
		25	0	14.00	12.84	12.57	12.79
	16QAM	1	0	14.00	12.96	12.80	13.29
		1	13	14.00	12.93	12.77	13.33
		1	24	14.00	12.93	12.75	13.26
		12	0	14.00	12.88	12.51	13.06
		12	6	14.00	12.86	12.49	13.00
		12	13	14.00	12.88	12.53	13.01
		25	0	14.00	12.82	12.44	12.77
	64QAM	1	0	14.00	12.82	12.75	13.08
		1	13	14.00	12.86	12.63	13.03
		1	24	14.00	12.79	12.72	13.15
		12	0	14.00	12.91	12.50	12.99
		12	6	14.00	12.91	12.52	12.94
		12	13	14.00	12.89	12.53	13.04
		25	0	14.00	12.87	12.49	12.75
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	14.00	12.69	12.34	12.72
		1	25	14.00	12.81	12.22	12.86
		1	49	14.00	12.66	12.25	12.73
		25	0	14.00	13.06	12.56	13.04
		25	13	14.00	13.05	12.53	13.00
		25	25	14.00	13.06	12.55	13.03
		50	0	14.00	12.78	12.50	12.87
	16QAM	1	0	14.00	13.04	12.40	13.02
		1	25	14.00	12.78	12.26	12.92
		1	49	14.00	12.97	12.30	13.14
		25	0	14.00	13.03	12.47	12.93
		25	13	14.00	13.01	12.49	12.98
		25	25	14.00	13.00	12.51	12.94
		50	0	14.00	12.70	12.43	12.81
	64QAM	1	0	14.00	13.02	12.36	13.12
		1	25	14.00	12.93	12.20	13.19
		1	49	14.00	13.04	12.30	13.10
		25	0	14.00	13.11	12.55	12.94
		25	13	14.00	13.10	12.57	13.03
		25	25	14.00	13.07	12.57	13.02
		50	0	14.00	12.67	12.50	12.87

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	14.00	12.78	12.57	12.69
		1	38	14.00	12.85	12.55	12.72
		1	74	14.00	12.84	12.54	12.64
		36	0	14.00	13.26	12.53	12.81
		36	18	14.00	13.26	12.60	12.81
		36	39	14.00	13.26	12.54	12.81
		75	0	14.00	12.73	12.59	12.80
	16QAM	1	0	14.00	13.16	12.64	12.88
		1	38	14.00	13.16	12.76	12.86
		1	74	14.00	13.14	12.76	12.80
		36	0	14.00	13.20	12.44	12.70
		36	18	14.00	13.20	12.47	12.77
		36	39	14.00	13.08	12.51	12.77
		75	0	14.00	12.67	12.49	12.77
	64QAM	1	0	14.00	13.01	12.56	12.76
		1	38	14.00	13.08	12.73	12.82
		1	74	14.00	13.03	12.72	12.76
		36	0	14.00	13.24	12.66	12.81
		36	18	14.00	13.20	12.56	12.76
		36	39	14.00	13.13	12.56	12.78
		75	0	14.00	12.68	12.55	12.82
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20050CH	20175CH	20300CH
20MHz	QPSK	1	0	14.00	13.05	12.63	12.81
		1	50	14.00	13.05	12.67	12.87
		1	99	14.00	13.12	12.68	12.86
		50	0	14.00	12.87	12.59	12.75
		50	25	14.00	12.86	12.59	12.75
		50	50	14.00	12.84	12.58	12.74
		100	0	14.00	12.68	12.59	12.78
	16QAM	1	0	14.00	13.49	12.94	13.13
		1	50	14.00	13.55	12.92	13.07
		1	99	14.00	13.51	12.84	13.13
		50	0	14.00	12.97	12.53	12.65
		50	25	14.00	12.96	12.52	12.70
		50	50	14.00	12.88	12.50	12.70
		100	0	14.00	12.57	12.57	12.71
	64QAM	1	0	14.00	13.36	12.80	13.07
		1	50	14.00	13.33	12.70	12.98
		1	99	14.00	13.33	12.80	13.00
		50	0	14.00	12.99	12.64	12.70
		50	25	14.00	13.01	12.58	12.72
		50	50	14.00	12.99	12.57	12.74
		100	0	14.00	12.70	12.58	12.68

Table 54: Conducted power measurement results of LTE Band 4(Receiver ON)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19957CH	20175CH	20393CH
1.4MHz	QPSK	1	0	12.50	11.23	10.97	11.24
		1	3	12.50	11.25	11.03	11.22
		1	5	12.50	11.18	10.95	11.21
		3	0	12.50	11.19	10.94	11.13
		3	2	12.50	11.20	10.90	11.09
		3	3	12.50	11.20	10.93	11.11
		6	0	12.50	11.20	10.91	11.03
	16QAM	1	0	12.50	11.35	10.93	11.23
		1	3	12.50	11.26	11.10	11.29
		1	5	12.50	11.37	11.12	11.27
		3	0	12.50	11.23	11.00	11.05
		3	2	12.50	11.14	10.92	11.11
		3	3	12.50	11.18	10.97	11.13
		6	0	12.50	11.19	10.89	10.96
	64QAM	1	0	12.50	11.23	11.17	11.13
		1	3	12.50	11.28	11.06	11.28
		1	5	12.50	11.31	11.21	11.33
		3	0	12.50	11.11	10.98	11.16
		3	2	12.50	11.25	10.91	11.20
		3	3	12.50	11.19	10.97	11.06
		6	0	12.50	11.20	10.90	11.03
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19965CH	20175CH	20385CH
3MHz	QPSK	1	0	12.50	11.22	10.93	11.33
		1	7	12.50	11.18	10.92	11.38
		1	14	12.50	11.21	10.91	11.42
		8	0	12.50	11.11	10.93	11.13
		8	4	12.50	11.21	10.91	11.23
		8	7	12.50	11.21	10.95	11.26
		15	0	12.50	11.11	10.92	11.17
	16QAM	1	0	12.50	11.33	11.01	11.41
		1	7	12.50	11.37	11.06	11.61
		1	14	12.50	11.38	11.03	11.57
		8	0	12.50	11.21	10.96	11.04
		8	4	12.50	11.22	10.93	11.27
		8	7	12.50	11.24	10.93	11.25
		15	0	12.50	11.20	10.94	11.11
	64QAM	1	0	12.50	11.25	11.13	11.66
		1	7	12.50	11.38	10.96	11.46
		1	14	12.50	11.26	11.07	11.51
		8	0	12.50	11.22	10.93	11.29
		8	4	12.50	11.18	10.95	11.22
		8	7	12.50	11.21	10.94	11.28
		15	0	12.50	11.19	11.00	11.07

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	12.50	11.24	11.01	11.31
		1	13	12.50	11.24	11.03	11.33
		1	24	12.50	11.24	11.02	11.37
		12	0	12.50	11.24	11.06	11.38
		12	6	12.50	11.32	11.01	11.39
		12	13	12.50	11.33	11.03	11.40
		25	0	12.50	11.22	10.95	11.17
	16QAM	1	0	12.50	11.37	11.21	11.52
		1	13	12.50	11.32	11.08	11.54
		1	24	12.50	11.39	11.15	11.62
		12	0	12.50	11.32	10.96	11.21
		12	6	12.50	11.29	11.01	11.29
		12	13	12.50	11.29	10.95	11.21
		25	0	12.50	11.19	10.95	11.16
	64QAM	1	0	12.50	11.38	11.10	11.36
		1	13	12.50	11.37	11.10	11.42
		1	24	12.50	11.37	11.04	11.40
		12	0	12.50	11.27	10.97	11.26
		12	6	12.50	11.30	10.99	11.40
		12	13	12.50	11.32	10.97	11.34
		25	0	12.50	11.16	10.98	11.08
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	12.50	11.32	10.76	11.24
		1	25	12.50	11.31	10.71	11.20
		1	49	12.50	11.24	10.81	11.23
		25	0	12.50	11.23	11.01	11.26
		25	13	12.50	11.35	11.01	11.30
		25	25	12.50	11.30	11.08	11.30
		50	0	12.50	11.24	10.97	11.24
	16QAM	1	0	12.50	11.31	10.88	11.28
		1	25	12.50	11.35	10.80	11.30
		1	49	12.50	11.36	10.76	11.40
		25	0	12.50	11.29	10.95	11.22
		25	13	12.50	11.27	10.95	11.12
		25	25	12.50	11.28	10.93	11.23
		50	0	12.50	11.21	10.92	11.17
	64QAM	1	0	12.50	11.30	10.81	11.26
		1	25	12.50	11.42	10.83	11.25
		1	49	12.50	11.44	10.72	11.27
		25	0	12.50	11.42	10.97	11.28
		25	13	12.50	11.36	11.01	11.38
		25	25	12.50	11.41	10.99	11.24
		50	0	12.50	11.20	10.93	11.18

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	12.50	11.34	11.07	11.16
		1	38	12.50	11.32	11.02	11.17
		1	74	12.50	11.34	11.02	11.18
		36	0	12.50	11.55	11.02	11.27
		36	18	12.50	11.42	11.01	11.27
		36	39	12.50	11.55	11.01	11.22
		75	0	12.50	11.21	11.03	11.24
	16QAM	1	0	12.50	11.38	11.05	11.21
		1	38	12.50	11.36	11.27	11.18
		1	74	12.50	11.47	11.18	11.24
		36	0	12.50	11.43	10.98	11.20
		36	18	12.50	11.48	10.94	11.20
		36	39	12.50	11.38	10.96	11.21
		75	0	12.50	11.08	10.97	11.12
	64QAM	1	0	12.50	11.35	11.10	11.15
		1	38	12.50	11.53	11.19	11.32
		1	74	12.50	11.49	11.21	11.27
		36	0	12.50	11.63	10.97	11.16
		36	18	12.50	11.64	11.08	11.20
		36	39	12.50	11.62	11.01	11.21
		75	0	12.50	11.14	10.98	11.10
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20050CH	20175CH	20300CH
20MHz	QPSK	1	0	12.50	11.58	11.15	11.31
		1	50	12.50	11.59	11.14	11.29
		1	99	12.50	11.58	11.14	11.30
		50	0	12.50	11.37	11.05	11.21
		50	25	12.50	11.37	11.05	11.22
		50	50	12.50	11.33	11.05	11.19
		100	0	12.50	11.11	11.05	11.21
	16QAM	1	0	12.50	11.66	11.44	11.46
		1	50	12.50	11.72	11.37	11.44
		1	99	12.50	11.71	11.43	11.39
		50	0	12.50	11.28	11.01	11.14
		50	25	12.50	11.27	10.99	11.14
		50	50	12.50	11.21	11.01	11.11
		100	0	12.50	11.05	11.00	11.13
	64QAM	1	0	12.50	11.61	11.32	11.26
		1	50	12.50	11.61	11.17	11.36
		1	99	12.50	11.69	11.12	11.24
		50	0	12.50	11.35	11.07	11.14
		50	25	12.50	11.36	11.00	11.14
		50	50	12.50	11.36	10.99	11.20
		100	0	12.50	11.07	11.02	11.19

Table 55: Conducted power measurement results of LTE Band 4 (Second Antenna+WiFi Antenna, Receiver ON)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19957CH	20175CH	20393CH
1.4MHz	QPSK	1	0	19.50	18.25	18.15	18.29
		1	3	19.50	18.27	18.17	18.29
		1	5	19.50	18.24	18.21	18.29
		3	0	19.50	18.17	17.99	18.26
		3	2	19.50	18.23	17.98	18.18
		3	3	19.50	18.28	18.07	18.22
		6	0	19.50	18.25	18.05	18.21
	16QAM	1	0	19.50	18.31	18.04	18.38
		1	3	19.50	18.36	18.14	18.37
		1	5	19.50	18.32	18.15	18.34
		3	0	19.50	18.19	18.06	18.09
		3	2	19.50	18.22	18.03	18.17
		3	3	19.50	18.22	18.06	18.20
		6	0	19.50	18.02	17.98	18.04
	64QAM	1	0	19.50	18.34	18.28	18.23
		1	3	19.50	18.36	18.16	18.29
		1	5	19.50	18.41	18.15	18.34
		3	0	19.50	18.14	18.04	18.18
		3	2	19.50	18.19	18.04	18.22
		3	3	19.50	18.34	18.00	18.11
		6	0	19.50	18.19	18.06	18.02
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19965CH	20175CH	20385CH
3MHz	QPSK	1	0	19.50	18.25	18.19	18.56
		1	7	19.50	18.27	18.11	18.56
		1	14	19.50	18.29	18.20	18.53
		8	0	19.50	18.24	18.04	18.26
		8	4	19.50	18.24	18.07	18.35
		8	7	19.50	18.23	18.09	18.36
		15	0	19.50	18.24	18.07	18.21
	16QAM	1	0	19.50	18.32	18.09	18.64
		1	7	19.50	18.31	18.05	18.65
		1	14	19.50	18.33	18.14	18.55
		8	0	19.50	18.22	18.00	18.24
		8	4	19.50	18.18	18.03	18.26
		8	7	19.50	18.19	18.00	18.26
		15	0	19.50	18.11	17.91	18.17
	64QAM	1	0	19.50	18.33	18.23	18.60
		1	7	19.50	18.36	18.17	18.38
		1	14	19.50	18.27	18.27	18.41
		8	0	19.50	18.22	18.04	18.22
		8	4	19.50	18.15	18.03	18.26
		8	7	19.50	18.20	17.99	18.24

		15	0	19.50	18.20	17.98	18.15
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Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	19.50	18.26	18.11	18.50
		1	13	19.50	18.25	18.11	18.48
		1	24	19.50	18.24	18.12	18.49
		12	0	19.50	18.32	18.12	18.37
		12	6	19.50	18.32	18.13	18.51
		12	13	19.50	18.32	18.12	18.50
		25	0	19.50	18.27	18.07	18.25
	16QAM	1	0	19.50	18.49	18.26	18.71
		1	13	19.50	18.49	18.38	18.67
		1	24	19.50	18.46	18.36	18.71
		12	0	19.50	18.29	18.01	18.30
		12	6	19.50	18.27	18.06	18.31
		12	13	19.50	18.29	18.09	18.30
		25	0	19.50	18.17	17.98	18.19
	64QAM	1	0	19.50	18.33	18.18	18.43
		1	13	19.50	18.34	18.29	18.40
		1	24	19.50	18.28	18.21	18.28
		12	0	19.50	18.26	18.10	18.30
		12	6	19.50	18.27	18.14	18.32
		12	13	19.50	18.18	18.09	18.29
		25	0	19.50	18.22	18.02	18.18
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	19.50	18.20	17.50	18.28
		1	25	19.50	18.28	17.54	18.32
		1	49	19.50	18.31	17.45	18.22
		25	0	19.50	18.27	18.08	18.23
		25	13	19.50	18.22	18.09	18.20
		25	25	19.50	18.29	18.09	18.33
		50	0	19.50	18.22	18.18	18.28
	16QAM	1	0	19.50	18.41	17.43	18.31
		1	25	19.50	18.33	17.61	18.45
		1	49	19.50	18.37	17.47	18.45
		25	0	19.50	18.25	18.04	18.24
		25	13	19.50	18.25	18.00	18.24
		25	25	19.50	18.25	18.01	18.21
		50	0	19.50	18.15	17.99	18.17
	64QAM	1	0	19.50	18.28	17.48	18.35
		1	25	19.50	18.32	17.50	18.27
		1	49	19.50	18.37	17.47	18.46
		25	0	19.50	18.15	18.06	18.24
		25	13	19.50	18.24	18.11	18.26
		25	25	19.50	18.27	18.13	18.18

		50	0	19.50	18.23	17.99	18.14
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Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	19.50	18.34	18.15	18.30
		1	38	19.50	18.33	18.14	18.29
		1	74	19.50	18.32	18.15	18.28
		36	0	19.50	18.36	18.16	18.28
		36	18	19.50	18.37	18.10	18.31
		36	39	19.50	18.36	18.10	18.32
		75	0	19.50	18.12	18.19	18.31
	16QAM	1	0	19.50	18.54	18.23	18.27
		1	38	19.50	18.42	18.23	18.34
		1	74	19.50	18.30	18.19	18.27
		36	0	19.50	18.32	17.81	18.26
		36	18	19.50	18.31	17.86	18.24
		36	39	19.50	18.31	17.87	18.27
		75	0	19.50	18.06	18.10	18.18
	64QAM	1	0	19.50	18.50	18.23	18.35
		1	38	19.50	18.36	18.17	18.41
		1	74	19.50	18.38	18.07	18.32
		36	0	19.50	18.33	17.85	18.31
		36	18	19.50	18.23	17.87	18.26
		36	39	19.50	18.33	17.89	18.24
		75	0	19.50	18.12	18.08	18.20
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20050CH	20175CH	20300CH
20MHz	QPSK	1	0	19.50	18.58	18.29	18.47
		1	50	19.50	18.60	18.29	18.44
		1	99	19.50	18.52	18.28	18.47
		50	0	19.50	18.34	18.18	18.32
		50	25	19.50	18.30	18.21	18.30
		50	50	19.50	18.35	18.19	18.30
		100	0	19.50	18.22	18.22	18.32
	16QAM	1	0	19.50	18.75	18.41	18.66
		1	50	19.50	18.60	18.39	18.71
		1	99	19.50	18.68	18.44	18.59
		50	0	19.50	18.21	18.09	18.26
		50	25	19.50	18.28	18.07	18.27
		50	50	19.50	18.28	18.09	18.26
		100	0	19.50	18.11	18.06	18.25
	64QAM	1	0	19.50	18.65	18.42	18.54
		1	50	19.50	18.58	18.47	18.59
		1	99	19.50	18.60	18.23	18.47
		50	0	19.50	18.27	18.08	18.30
		50	25	19.50	18.27	18.10	18.31
		50	50	19.50	18.29	18.09	18.31
		100	0	19.50	18.14	18.09	18.26

Table 56: Conducted power measurement results of LTE Band 4 (Second Antenna+WiFi Antenna, Receiver OFF)

7.1.14 Conducted power measurements of LTE Band 4 (Main Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19957CH	20175CH	20393CH
1.4MHz	QPSK	1	0	24.50	23.22	23.32	23.35
		1	3	24.50	23.26	23.35	23.34
		1	5	24.50	23.19	23.34	23.20
		3	0	24.50	23.11	23.17	23.13
		3	2	24.50	23.14	23.28	23.11
		3	3	24.50	23.03	23.23	23.09
		6	0	23.50	22.13	22.28	22.16
	16QAM	1	0	23.50	22.23	22.42	22.49
		1	3	23.50	22.32	22.16	22.23
		1	5	23.50	22.25	22.42	22.40
		3	0	23.50	22.13	22.34	22.20
		3	2	23.50	22.10	22.29	22.20
		3	3	23.50	22.09	22.37	22.17
		6	0	22.50	21.03	21.19	21.05
	64QAM	1	0	22.50	21.33	21.22	21.33
		1	3	22.50	21.40	21.39	21.56
		1	5	22.50	21.42	21.46	21.42
		3	0	22.50	21.13	21.24	21.09
		3	2	22.50	21.16	21.33	21.14
		3	3	22.50	21.20	21.29	21.23
		6	0	21.50	20.18	20.26	20.15
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19965CH	20175CH	20385CH
3MHz	QPSK	1	0	24.50	23.09	23.24	23.29
		1	7	24.50	23.06	23.28	23.15
		1	14	24.50	23.05	23.26	23.11
		8	0	23.50	22.07	22.30	22.04
		8	4	23.50	22.08	22.29	22.15
		8	7	23.50	22.04	22.30	22.14
		15	0	23.50	22.15	22.29	22.10
	16QAM	1	0	23.50	22.18	22.36	22.22
		1	7	23.50	22.23	22.39	22.30
		1	14	23.50	22.27	22.35	22.11
		8	0	22.50	21.00	21.27	21.04
		8	4	22.50	21.03	21.32	21.10
		8	7	22.50	21.07	21.28	21.04
		15	0	22.50	21.04	21.13	21.17
	64QAM	1	0	22.50	21.35	21.54	21.37
		1	7	22.50	21.39	21.49	21.35
		1	14	22.50	21.25	21.40	21.39
		8	0	21.50	20.21	20.20	20.13

		8	4	21.50	20.08	20.21	20.17
		8	7	21.50	20.13	20.24	20.15
		15	0	21.50	20.17	20.21	20.10

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	24.50	23.06	23.23	23.22
		1	13	24.50	23.05	23.12	23.17
		1	24	24.50	23.03	23.14	23.15
		12	0	23.50	22.18	22.35	22.15
		12	6	23.50	22.22	22.36	22.15
		12	13	23.50	22.22	22.34	22.14
		25	0	23.50	22.18	22.27	22.09
	16QAM	1	0	23.50	22.11	22.27	22.34
		1	13	23.50	22.15	22.31	22.32
		1	24	23.50	22.07	22.27	22.30
		12	0	22.50	21.07	21.28	21.06
		12	6	22.50	21.09	21.31	21.13
		12	13	22.50	21.10	21.27	21.08
		25	0	22.50	21.06	21.19	21.04
	64QAM	1	0	22.50	21.16	21.36	21.15
		1	13	22.50	21.25	21.37	21.27
		1	24	22.50	21.22	21.40	21.25
		12	0	21.50	20.05	20.21	20.10
		12	6	21.50	20.06	20.23	20.09
		12	13	21.50	20.05	20.24	20.10
		25	0	21.50	20.06	20.13	20.07
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	24.50	23.09	23.21	23.14
		1	25	24.50	23.10	23.15	23.11
		1	49	24.50	23.02	23.17	23.13
		25	0	23.50	22.18	22.18	22.24
		25	13	23.50	22.18	22.30	22.23
		25	25	23.50	22.18	22.30	22.15
		50	0	23.50	22.18	22.25	22.22
	16QAM	1	0	23.50	22.27	22.34	22.19
		1	25	23.50	22.25	22.35	22.20
		1	49	23.50	22.15	22.41	22.14
		25	0	22.50	21.10	21.23	21.18
		25	13	22.50	21.12	21.21	21.05
		25	25	22.50	21.14	21.22	21.05
		50	0	22.50	21.11	21.15	21.15
	64QAM	1	0	22.50	21.20	21.35	21.41
		1	25	22.50	21.22	21.51	21.37
		1	49	22.50	21.15	21.49	21.36
		25	0	21.50	20.06	20.24	20.24
		25	13	21.50	20.04	20.28	20.21
		25	25	21.50	20.03	20.23	20.24
		50	0	21.50	20.08	20.12	20.04

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	24.50	23.16	23.31	23.17
		1	38	24.50	23.11	23.19	23.15
		1	74	24.50	23.13	23.19	23.17
		36	0	23.50	22.23	22.27	22.17
		36	18	23.50	22.22	22.28	22.17
		36	39	23.50	22.23	22.29	22.16
		75	0	23.50	22.09	22.16	22.27
	16QAM	1	0	23.50	22.36	22.32	22.22
		1	38	23.50	22.28	22.34	22.16
		1	74	23.50	22.31	22.36	22.24
		36	0	22.50	21.14	21.15	21.24
		36	18	22.50	21.15	21.18	21.21
		36	39	22.50	21.15	21.16	21.23
		75	0	22.50	21.14	21.17	21.21
	64QAM	1	0	22.50	21.30	21.36	21.32
		1	38	22.50	21.30	21.42	21.36
		1	74	22.50	21.27	21.32	21.28
		36	0	21.50	20.19	20.19	20.18
		36	18	21.50	20.20	20.24	20.20
		36	39	21.50	20.14	20.21	20.21
		75	0	21.50	20.14	20.16	20.21
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20050CH	20175CH	20300CH
20MHz	QPSK	1	0	24.50	23.41	23.34	23.45
		1	50	24.50	23.30	23.38	23.44
		1	99	24.50	23.28	23.36	23.44
		50	0	23.50	22.29	22.47	22.25
		50	25	23.50	22.25	22.43	22.26
		50	50	23.50	22.26	22.45	22.26
		100	0	23.50	22.32	22.41	22.32
	16QAM	1	0	23.50	22.57	22.74	22.60
		1	50	23.50	22.46	22.65	22.67
		1	99	23.50	22.47	22.57	22.67
		50	0	22.50	21.17	21.36	21.22
		50	25	22.50	21.20	21.36	21.24
		50	50	22.50	21.27	21.38	21.32
		100	0	22.50	21.19	21.24	21.35
	64QAM	1	0	22.50	21.57	21.47	21.69
		1	50	22.50	21.45	21.35	21.70
		1	99	22.50	21.39	21.61	21.65
		50	0	21.50	20.31	20.41	20.31
		50	25	21.50	20.27	20.42	20.30
		50	50	21.50	20.32	20.41	20.27
		100	0	21.50	20.20	20.29	20.29

Table 57: Conducted power measurement results of LTE Band 4(Full power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19957CH	20175CH	20393CH
1.4MHz	QPSK	1	0	19.50	18.30	18.29	18.24
		1	3	19.50	18.38	18.27	18.24
		1	5	19.50	18.40	18.30	18.28
		3	0	19.50	18.17	18.29	18.15
		3	2	19.50	18.25	18.34	18.17
		3	3	19.50	18.22	18.23	18.18
		6	0	19.50	18.29	18.32	18.25
	16QAM	1	0	19.50	18.47	18.42	18.41
		1	3	19.50	18.40	18.46	18.39
		1	5	19.50	18.37	18.41	18.32
		3	0	19.50	18.28	18.29	18.20
		3	2	19.50	18.25	18.35	18.27
		3	3	19.50	18.24	18.25	18.25
		6	0	19.50	18.30	18.22	18.16
	64QAM	1	0	19.50	18.40	18.35	18.38
		1	3	19.50	18.35	18.44	18.28
		1	5	19.50	18.35	18.34	18.37
		3	0	19.50	18.25	18.22	18.12
		3	2	19.50	18.24	18.30	18.21
		3	3	19.50	18.28	18.24	18.15
		6	0	19.50	18.18	18.22	18.21
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19965CH	20175CH	20385CH
3MHz	QPSK	1	0	19.50	18.40	18.38	18.38
		1	7	19.50	18.40	18.32	18.28
		1	14	19.50	18.38	18.31	18.30
		8	0	19.50	18.31	18.29	18.25
		8	4	19.50	18.31	18.28	18.22
		8	7	19.50	18.34	18.26	18.21
		15	0	19.50	18.36	18.34	18.36
	16QAM	1	0	19.50	18.46	18.35	18.64
		1	7	19.50	18.52	18.47	18.44
		1	14	19.50	18.38	18.36	18.43
		8	0	19.50	18.28	18.26	18.24
		8	4	19.50	18.29	18.30	18.34
		8	7	19.50	18.26	18.31	18.20
		15	0	19.50	18.28	18.27	18.30
	64QAM	1	0	19.50	18.42	18.27	18.28
		1	7	19.50	18.54	18.31	18.25
		1	14	19.50	18.47	18.34	18.34
		8	0	19.50	18.28	18.27	18.08
		8	4	19.50	18.23	18.26	18.16
		8	7	19.50	18.31	18.19	18.14
		15	0	19.50	18.32	18.28	18.28

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	19.50	18.42	18.47	18.30
		1	13	19.50	18.42	18.37	18.29
		1	24	19.50	18.42	18.40	18.30
		12	0	19.50	18.32	18.36	18.32
		12	6	19.50	18.33	18.37	18.31
		12	13	19.50	18.36	18.38	18.31
		25	0	19.50	18.29	18.35	18.28
	16QAM	1	0	19.50	18.60	18.59	18.52
		1	13	19.50	18.52	18.48	18.58
		1	24	19.50	18.63	18.54	18.56
		12	0	19.50	18.31	18.31	18.27
		12	6	19.50	18.26	18.34	18.29
		12	13	19.50	18.26	18.34	18.27
		25	0	19.50	18.22	18.31	18.34
	64QAM	1	0	19.50	18.41	18.36	18.23
		1	13	19.50	18.36	18.33	18.37
		1	24	19.50	18.52	18.33	18.30
		12	0	19.50	18.42	18.26	18.27
		12	6	19.50	18.42	18.31	18.29
		12	13	19.50	18.40	18.31	18.29
		25	0	19.50	18.37	18.27	18.28
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	19.50	18.32	18.44	18.31
		1	25	19.50	18.33	18.44	18.31
		1	49	19.50	18.32	18.38	18.31
		25	0	19.50	18.33	18.42	18.35
		25	13	19.50	18.33	18.44	18.33
		25	25	19.50	18.33	18.44	18.37
		50	0	19.50	18.28	18.36	18.32
	16QAM	1	0	19.50	18.53	18.33	18.50
		1	25	19.50	18.43	18.55	18.51
		1	49	19.50	18.50	18.56	18.46
		25	0	19.50	18.29	18.37	18.25
		25	13	19.50	18.26	18.37	18.36
		25	25	19.50	18.29	18.36	18.23
		50	0	19.50	18.23	18.22	18.35
	64QAM	1	0	19.50	18.56	18.36	18.35
		1	25	19.50	18.58	18.47	18.33
		1	49	19.50	18.60	18.43	18.35
		25	0	19.50	18.34	18.37	18.37
		25	13	19.50	18.28	18.37	18.39
		25	25	19.50	18.32	18.37	18.42
		50	0	19.50	18.24	18.24	18.35

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	19.50	18.27	18.43	18.35
		1	38	19.50	18.31	18.30	18.36
		1	74	19.50	18.29	18.34	18.34
		36	0	19.50	18.47	18.40	18.39
		36	18	19.50	18.50	18.38	18.38
		36	39	19.50	18.46	18.37	18.39
		75	0	19.50	18.37	18.36	18.47
	16QAM	1	0	19.50	18.40	18.56	18.48
		1	38	19.50	18.40	18.43	18.45
		1	74	19.50	18.47	18.43	18.53
		36	0	19.50	18.39	18.31	18.29
		36	18	19.50	18.40	18.28	18.32
		36	39	19.50	18.41	18.36	18.28
		75	0	19.50	18.23	18.30	18.28
	64QAM	1	0	19.50	18.42	18.47	18.35
		1	38	19.50	18.42	18.35	18.38
		1	74	19.50	18.49	18.31	18.42
		36	0	19.50	18.30	18.30	18.29
		36	18	19.50	18.27	18.27	18.29
		36	39	19.50	18.31	18.28	18.30
		75	0	19.50	18.28	18.26	18.28
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20050CH	20175CH	20300CH
20MHz	QPSK	1	0	19.50	18.52	18.58	18.65
		1	50	19.50	18.50	18.56	18.62
		1	99	19.50	18.51	18.57	18.65
		50	0	19.50	18.42	18.48	18.43
		50	25	19.50	18.46	18.44	18.41
		50	50	19.50	18.46	18.45	18.42
		100	0	19.50	18.34	18.36	18.38
	16QAM	1	0	19.50	18.69	18.73	18.83
		1	50	19.50	18.69	18.76	18.65
		1	99	19.50	18.65	18.79	18.81
		50	0	19.50	18.40	18.31	18.31
		50	25	19.50	18.41	18.34	18.33
		50	50	19.50	18.39	18.32	18.38
		100	0	19.50	18.28	18.28	18.30
	64QAM	1	0	19.50	18.69	18.50	18.60
		1	50	19.50	18.64	18.53	18.65
		1	99	19.50	18.61	18.46	18.61
		50	0	19.50	18.28	18.30	18.34
		50	25	19.50	18.30	18.32	18.33
		50	50	19.50	18.32	18.32	18.33
		100	0	19.50	18.28	18.29	18.39

Table 58: Conducted power measurement results of LTE Band 4 (Reduced Power Level D2)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19957CH	20175CH	20393CH
1.4MHz	QPSK	1	0	18.00	16.78	16.81	16.84
		1	3	18.00	16.70	16.82	16.81
		1	5	18.00	16.73	16.86	16.79
		3	0	18.00	16.68	16.73	16.65
		3	2	18.00	16.72	16.73	16.69
		3	3	18.00	16.75	16.74	16.64
		6	0	18.00	16.71	16.86	16.80
	16QAM	1	0	18.00	16.96	16.85	16.77
		1	3	18.00	16.81	16.81	16.94
		1	5	18.00	16.95	16.84	16.83
		3	0	18.00	16.72	16.71	16.74
		3	2	18.00	16.71	16.73	16.78
		3	3	18.00	16.81	16.72	16.68
		6	0	18.00	16.58	16.68	16.59
	64QAM	1	0	18.00	17.06	16.92	16.96
		1	3	18.00	16.79	16.98	16.94
		1	5	18.00	16.86	16.88	16.79
		3	0	18.00	16.74	16.89	16.64
		3	2	18.00	16.81	16.89	16.70
		3	3	18.00	16.72	16.90	16.66
		6	0	18.00	16.73	16.75	16.73
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19965CH	20175CH	20385CH
3MHz	QPSK	1	0	18.00	16.81	16.80	16.77
		1	7	18.00	16.79	16.84	16.76
		1	14	18.00	16.77	16.81	16.75
		8	0	18.00	16.75	16.71	16.74
		8	4	18.00	16.73	16.86	16.82
		8	7	18.00	16.76	16.93	16.76
		15	0	18.00	16.77	16.86	16.78
	16QAM	1	0	18.00	17.07	16.99	16.86
		1	7	18.00	17.10	16.98	16.96
		1	14	18.00	17.08	16.96	16.89
		8	0	18.00	16.75	16.84	16.80
		8	4	18.00	16.74	16.84	16.83
		8	7	18.00	16.68	16.88	16.79
		15	0	18.00	16.70	16.75	16.74
	64QAM	1	0	18.00	17.06	16.98	16.97
		1	7	18.00	16.95	17.07	16.93
		1	14	18.00	16.98	16.94	17.06
		8	0	18.00	16.68	16.76	16.69
		8	4	18.00	16.66	16.74	16.72
		8	7	18.00	16.74	16.76	16.67
		15	0	18.00	16.86	16.85	16.71

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	18.00	16.85	16.85	16.80
		1	13	18.00	16.83	16.86	16.82
		1	24	18.00	16.82	16.79	16.84
		12	0	18.00	16.84	16.86	16.94
		12	6	18.00	16.83	16.85	16.93
		12	13	18.00	16.83	16.84	16.94
		25	0	18.00	16.80	16.81	16.78
	16QAM	1	0	18.00	16.98	17.04	17.08
		1	13	18.00	16.94	17.09	17.08
		1	24	18.00	17.04	16.91	17.10
		12	0	18.00	16.79	16.85	16.84
		12	6	18.00	16.78	16.83	16.81
		12	13	18.00	16.77	16.79	16.81
		25	0	18.00	16.75	16.75	16.70
	64QAM	1	0	18.00	16.89	17.02	16.98
		1	13	18.00	17.01	17.07	16.94
		1	24	18.00	16.99	16.83	16.87
		12	0	18.00	16.82	16.89	16.77
		12	6	18.00	16.80	16.84	16.77
		12	13	18.00	16.81	16.86	16.77
		25	0	18.00	16.73	16.90	16.77
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	18.00	16.83	16.96	16.92
		1	25	18.00	16.83	16.97	16.91
		1	49	18.00	16.85	16.97	16.91
		25	0	18.00	16.87	16.96	16.82
		25	13	18.00	16.86	16.98	16.82
		25	25	18.00	16.86	16.94	16.85
		50	0	18.00	16.82	16.81	16.94
	16QAM	1	0	18.00	16.85	16.84	16.80
		1	25	18.00	16.94	17.00	16.86
		1	49	18.00	17.00	16.95	16.97
		25	0	18.00	16.80	16.87	16.76
		25	13	18.00	16.83	16.88	16.76
		25	25	18.00	16.81	16.85	16.77
		50	0	18.00	16.75	16.74	16.84
	64QAM	1	0	18.00	16.97	17.03	16.93
		1	25	18.00	17.05	17.16	16.93
		1	49	18.00	16.96	17.09	16.96
		25	0	18.00	16.73	16.91	16.80
		25	13	18.00	16.76	16.91	16.78
		25	25	18.00	16.74	16.90	16.79
		50	0	18.00	16.77	16.80	16.89

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	18.00	16.92	16.97	16.89
		1	38	18.00	16.91	16.96	16.89
		1	74	18.00	16.89	16.95	16.87
		36	0	18.00	16.97	16.85	16.90
		36	18	18.00	16.97	16.85	16.93
		36	39	18.00	16.98	16.84	16.90
		75	0	18.00	16.92	16.95	16.95
	16QAM	1	0	18.00	17.00	17.08	16.91
		1	38	18.00	17.06	16.98	16.95
		1	74	18.00	16.96	17.12	16.95
		36	0	18.00	16.89	16.84	16.80
		36	18	18.00	16.90	16.78	16.79
		36	39	18.00	16.88	16.74	16.79
		75	0	18.00	16.82	16.86	16.76
	64QAM	1	0	18.00	17.01	16.95	17.04
		1	38	18.00	16.95	17.01	16.96
		1	74	18.00	17.00	17.05	16.93
		36	0	18.00	16.93	16.81	16.98
		36	18	18.00	16.92	16.80	16.98
		36	39	18.00	16.93	16.85	16.97
		75	0	18.00	16.87	16.91	16.92
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20050CH	20175CH	20300CH
20MHz	QPSK	1	0	18.00	17.07	16.98	17.10
		1	50	18.00	16.96	17.10	17.03
		1	99	18.00	16.96	17.09	17.03
		50	0	18.00	16.96	16.99	16.93
		50	25	18.00	16.94	17.01	16.94
		50	50	18.00	16.96	17.02	16.93
		100	0	18.00	16.96	16.96	16.85
	16QAM	1	0	18.00	17.29	17.16	17.18
		1	50	18.00	17.15	17.23	17.09
		1	99	18.00	17.34	17.16	17.24
		50	0	18.00	16.90	16.91	16.85
		50	25	18.00	16.89	16.91	16.82
		50	50	18.00	16.85	16.92	16.84
		100	0	18.00	16.78	16.90	16.84
	64QAM	1	0	18.00	17.15	17.31	17.17
		1	50	18.00	17.27	17.19	17.12
		1	99	18.00	17.35	17.21	17.30
		50	0	18.00	16.93	16.86	16.87
		50	25	18.00	16.95	16.85	16.85
		50	50	18.00	16.95	16.83	16.83
		100	0	18.00	16.79	16.85	16.84

Table 59: Conducted power measurement results of LTE Band 4 (Reduced Power Level D4/D5)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19957CH	20175CH	20393CH
1.4MHz	QPSK	1	0	13.00	11.93	11.83	11.76
		1	3	13.00	11.92	11.77	11.74
		1	5	13.00	11.95	11.81	11.73
		3	0	13.00	11.76	11.84	11.66
		3	2	13.00	11.75	11.84	11.59
		3	3	13.00	11.76	11.84	11.65
		6	0	13.00	11.66	11.73	11.67
	16QAM	1	0	13.00	11.97	11.89	11.93
		1	3	13.00	11.96	11.98	11.75
		1	5	13.00	11.99	11.95	11.87
		3	0	13.00	11.61	11.74	11.62
		3	2	13.00	11.63	11.80	11.56
		3	3	13.00	11.67	11.83	11.58
		6	0	13.00	11.68	11.82	11.60
	64QAM	1	0	13.00	12.00	11.85	11.70
		1	3	13.00	12.03	11.80	11.81
		1	5	13.00	11.87	11.71	11.77
		3	0	13.00	11.76	11.73	11.60
		3	2	13.00	11.72	11.77	11.56
		3	3	13.00	11.69	11.74	11.51
		6	0	13.00	11.68	11.67	11.51
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19965CH	20175CH	20385CH
3MHz	QPSK	1	0	13.00	11.80	11.84	11.78
		1	7	13.00	11.81	11.83	11.80
		1	14	13.00	11.81	11.86	11.81
		8	0	13.00	11.71	11.76	11.73
		8	4	13.00	11.66	11.88	11.80
		8	7	13.00	11.73	11.69	11.71
		15	0	13.00	11.72	11.87	11.68
	16QAM	1	0	13.00	11.86	11.91	11.93
		1	7	13.00	11.93	12.01	12.01
		1	14	13.00	12.02	11.95	11.88
		8	0	13.00	11.65	11.80	11.78
		8	4	13.00	11.70	11.82	11.77
		8	7	13.00	11.67	11.81	11.74
		15	0	13.00	11.67	11.79	11.68
	64QAM	1	0	13.00	11.96	11.88	11.83
		1	7	13.00	12.01	11.87	11.83
		1	14	13.00	11.93	11.83	11.87
		8	0	13.00	11.69	11.66	11.70
		8	4	13.00	11.69	11.66	11.63
		8	7	13.00	11.69	11.65	11.65
		15	0	13.00	11.70	11.80	11.63

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	13.00	11.79	11.89	11.84
		1	13	13.00	11.76	11.89	11.83
		1	24	13.00	11.75	11.89	11.83
		12	0	13.00	11.74	11.95	11.79
		12	6	13.00	11.74	11.94	11.79
		12	13	13.00	11.75	11.96	11.80
		25	0	13.00	11.76	11.81	11.67
	16QAM	1	0	13.00	11.92	12.00	12.03
		1	13	13.00	11.92	12.07	12.06
		1	24	13.00	11.92	12.03	12.00
		12	0	13.00	11.76	11.87	11.81
		12	6	13.00	11.73	11.90	11.82
		12	13	13.00	11.71	11.94	11.80
		25	0	13.00	11.67	11.76	11.73
	64QAM	1	0	13.00	11.81	11.81	11.88
		1	13	13.00	11.96	11.89	11.89
		1	24	13.00	11.93	11.79	11.86
		12	0	13.00	11.78	11.88	11.75
		12	6	13.00	11.79	11.89	11.79
		12	13	13.00	11.80	11.86	11.74
		25	0	13.00	11.70	11.75	11.59
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	13.00	11.72	11.72	11.79
		1	25	13.00	11.75	11.73	11.79
		1	49	13.00	11.76	11.73	11.78
		25	0	13.00	11.78	11.86	11.88
		25	13	13.00	11.78	11.90	11.89
		25	25	13.00	11.79	11.87	11.89
		50	0	13.00	11.83	11.84	11.75
	16QAM	1	0	13.00	11.83	11.89	11.79
		1	25	13.00	12.02	11.94	11.74
		1	49	13.00	11.84	11.89	12.05
		25	0	13.00	11.72	11.84	11.77
		25	13	13.00	11.72	11.85	11.73
		25	25	13.00	11.71	11.82	11.74
		50	0	13.00	11.79	11.80	11.77
	64QAM	1	0	13.00	12.08	11.79	11.77
		1	25	13.00	11.87	11.70	11.78
		1	49	13.00	11.95	11.77	11.74
		25	0	13.00	11.81	11.86	11.75
		25	13	13.00	11.79	11.84	11.77
		25	25	13.00	11.81	11.82	11.75
		50	0	13.00	11.82	11.74	11.74

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	13.00	11.74	11.88	11.86
		1	38	13.00	11.72	11.86	11.84
		1	74	13.00	11.73	11.85	11.84
		36	0	13.00	11.86	11.78	11.76
		36	18	13.00	11.90	11.79	11.79
		36	39	13.00	11.88	11.79	11.79
		75	0	13.00	11.87	11.91	11.89
	16QAM	1	0	13.00	11.96	11.85	12.05
		1	38	13.00	11.99	12.08	12.00
		1	74	13.00	12.09	11.91	12.01
		36	0	13.00	11.81	11.73	11.75
		36	18	13.00	11.78	11.71	11.77
		36	39	13.00	11.81	11.71	11.73
		75	0	13.00	11.78	11.85	11.71
	64QAM	1	0	13.00	11.93	11.92	11.86
		1	38	13.00	11.99	11.87	11.80
		1	74	13.00	12.03	11.80	11.85
		36	0	13.00	11.84	11.71	11.75
		36	18	13.00	11.85	11.72	11.75
		36	39	13.00	11.84	11.73	11.76
		75	0	13.00	11.84	11.84	11.67
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20050CH	20175CH	20300CH
20MHz	QPSK	1	0	13.00	11.98	11.98	11.92
		1	50	13.00	11.98	11.96	12.02
		1	99	13.00	11.98	11.97	12.03
		50	0	13.00	11.90	11.91	11.92
		50	25	13.00	11.92	11.92	11.91
		50	50	13.00	11.91	11.92	11.94
		100	0	13.00	11.78	11.88	11.79
	16QAM	1	0	13.00	12.28	12.12	12.22
		1	50	13.00	12.12	12.12	12.24
		1	99	13.00	12.18	12.05	12.20
		50	0	13.00	11.84	11.83	11.85
		50	25	13.00	11.83	11.86	11.85
		50	50	13.00	11.84	11.85	11.82
		100	0	13.00	11.72	11.80	11.81
	64QAM	1	0	13.00	12.06	11.93	12.06
		1	50	13.00	12.09	11.97	12.03
		1	99	13.00	12.13	11.86	11.89
		50	0	13.00	11.85	11.83	11.85
		50	25	13.00	11.85	11.83	11.82
		50	50	13.00	11.81	11.83	11.86
		100	0	13.00	11.72	11.79	11.80

Table 60: Conducted power measurement results of LTE Band 4 (Reduced Power Level D6)

7.1.15 Conducted power measurements of LTE Band 5 (Second Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20407CH	20525CH	20643CH
1.4MHz	QPSK	1	0	24.50	23.47	23.01	23.22
		1	3	24.50	23.39	22.96	23.22
		1	5	24.50	23.44	22.98	23.20
		3	0	23.50	23.35	22.98	23.16
		3	2	23.50	23.36	23.03	23.12
		3	3	23.50	23.43	23.09	23.19
		6	0	23.50	22.32	21.78	22.18
	16QAM	1	0	23.50	22.41	22.05	22.31
		1	3	23.50	22.41	22.07	22.27
		1	5	23.50	22.43	21.99	22.23
		3	0	22.50	22.46	22.01	22.01
		3	2	22.50	22.41	22.00	22.02
		3	3	22.50	22.35	22.02	22.11
		6	0	22.50	21.30	21.04	21.13
	64QAM	1	0	22.50	21.62	21.16	21.41
		1	3	22.50	21.47	21.25	21.36
		1	5	22.50	21.50	21.19	21.40
		3	0	22.50	21.41	21.18	21.33
		3	2	22.50	21.39	21.15	21.24
		3	3	22.50	21.39	21.25	21.17
		6	0	21.50	20.43	19.98	20.08
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20415CH	20525CH	20635CH
3MHz	QPSK	1	0	24.50	23.42	23.07	23.31
		1	7	24.50	23.48	23.03	23.28
		1	14	24.50	23.42	23.05	23.27
		8	0	23.50	22.42	22.00	22.25
		8	4	23.50	22.36	22.02	22.25
		8	7	23.50	22.37	22.04	22.27
		15	0	23.50	22.42	21.77	22.22
	16QAM	1	0	23.50	22.65	22.12	22.46
		1	7	23.50	22.50	22.08	22.31
		1	14	23.50	22.38	22.12	22.42
		8	0	22.50	21.40	21.23	21.25
		8	4	22.50	21.30	21.28	21.22
		8	7	22.50	21.36	21.23	21.24
		15	0	22.50	21.33	20.92	21.22
	64QAM	1	0	22.50	21.42	21.42	21.44
		1	7	22.50	21.49	21.36	21.52
		1	14	22.50	21.50	21.50	21.40
		8	0	21.50	20.44	20.21	20.30
		8	4	21.50	20.42	20.31	20.34
		8	7	21.50	20.43	20.20	20.34
		15	0	21.50	20.50	20.02	20.29

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20425CH	20525CH	20625CH
5MHz	QPSK	1	0	24.50	23.47	23.26	23.38
		1	13	24.50	23.50	23.26	23.37
		1	24	24.50	23.47	23.26	23.36
		12	0	23.50	22.53	22.19	22.41
		12	6	23.50	22.54	22.16	22.40
		12	13	23.50	22.54	22.16	22.39
		25	0	23.50	22.45	21.94	22.33
	16QAM	1	0	23.50	22.77	22.23	22.61
		1	13	23.50	22.55	22.40	22.58
		1	24	23.50	22.70	22.45	22.50
		12	0	22.50	21.50	21.33	21.50
		12	6	22.50	21.48	21.32	21.47
		12	13	22.50	21.49	21.32	21.48
		25	0	22.50	21.37	21.06	21.30
	64QAM	1	0	22.50	21.60	21.35	21.64
		1	13	22.50	21.57	21.38	21.56
		1	24	22.50	21.65	21.43	21.58
		12	0	21.50	20.60	20.33	20.49
		12	6	21.50	20.62	20.32	20.49
		12	13	21.50	20.61	20.33	20.48
		25	0	21.50	20.48	20.16	20.37
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20450CH	20525CH	20600CH
10MHz	QPSK	1	0	24.50	23.38	23.39	23.03
		1	25	24.50	23.42	23.37	23.02
		1	49	24.50	23.44	23.37	23.01
		25	0	23.50	22.37	22.25	22.26
		25	13	23.50	22.40	22.25	22.22
		25	25	23.50	22.36	22.31	22.23
		50	0	23.50	22.30	21.89	22.25
	16QAM	1	0	23.50	22.34	22.35	22.06
		1	25	23.50	22.39	22.47	22.13
		1	49	23.50	22.52	22.40	22.14
		25	0	22.50	21.44	21.28	21.17
		25	13	22.50	21.41	21.18	21.17
		25	25	22.50	21.42	21.20	21.21
		50	0	22.50	21.29	20.99	21.25
	64QAM	1	0	22.50	21.54	21.43	21.09
		1	25	22.50	21.55	21.53	21.10
		1	49	22.50	21.49	21.44	21.24
		25	0	21.50	20.41	20.27	20.23
		25	13	21.50	20.45	20.26	20.24
		25	25	21.50	20.45	20.28	20.27
		50	0	21.50	20.33	20.20	20.32

Table 61: Conducted power measurement results of LTE Band 5 (Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20407CH	20525CH	20643CH
1.4MHz	QPSK	1	0	20.00	18.86	18.77	18.75
		1	3	20.00	18.87	18.74	18.73
		1	5	20.00	18.88	18.76	18.73
		3	0	20.00	18.81	18.66	18.66
		3	2	20.00	18.90	18.66	18.66
		3	3	20.00	18.79	18.68	18.61
		6	0	20.00	18.88	18.49	18.65
	16QAM	1	0	20.00	18.90	18.66	18.90
		1	3	20.00	18.94	18.85	18.90
		1	5	20.00	19.01	18.96	18.77
		3	0	20.00	18.88	18.60	18.66
		3	2	20.00	18.87	18.60	18.67
		3	3	20.00	18.89	18.60	18.64
		6	0	20.00	18.78	18.37	18.64
	64QAM	1	0	20.00	18.99	18.95	18.89
		1	3	20.00	18.98	18.76	18.76
		1	5	20.00	18.93	18.78	18.88
		3	0	20.00	18.86	18.64	18.72
		3	2	20.00	18.86	18.66	18.60
		3	3	20.00	18.85	18.56	18.62
		6	0	20.00	18.85	18.37	18.64
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20415CH	20525CH	20635CH
3MHz	QPSK	1	0	20.00	18.87	18.75	18.87
		1	7	20.00	18.92	18.82	18.90
		1	14	20.00	18.91	18.75	18.89
		8	0	20.00	18.90	18.77	18.80
		8	4	20.00	18.87	18.70	18.80
		8	7	20.00	18.86	18.73	18.82
		15	0	20.00	18.86	18.46	18.74
	16QAM	1	0	20.00	19.15	18.81	18.94
		1	7	20.00	19.06	18.85	19.03
		1	14	20.00	19.05	18.84	19.04
		8	0	20.00	18.82	18.65	18.82
		8	4	20.00	18.83	18.73	18.80
		8	7	20.00	18.83	18.80	18.81
		15	0	20.00	18.84	18.41	18.67
	64QAM	1	0	20.00	19.01	18.79	19.12
		1	7	20.00	18.98	18.93	19.00
		1	14	20.00	19.04	18.92	19.12
		8	0	20.00	18.86	18.78	18.80
		8	4	20.00	18.87	18.71	18.80
		8	7	20.00	18.81	18.70	18.78
		15	0	20.00	18.82	18.62	18.74

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20425CH	20525CH	20625CH
5MHz	QPSK	1	0	20.00	18.93	18.84	18.93
		1	13	20.00	18.97	18.83	18.93
		1	24	20.00	18.94	18.83	18.87
		12	0	20.00	19.02	18.85	18.98
		12	6	20.00	19.02	18.81	18.98
		12	13	20.00	19.03	18.82	18.97
		25	0	20.00	18.90	18.51	18.89
	16QAM	1	0	20.00	19.11	19.12	19.09
		1	13	20.00	19.12	18.91	19.13
		1	24	20.00	19.19	18.94	19.01
		12	0	20.00	18.88	18.77	18.89
		12	6	20.00	18.90	18.76	18.89
		12	13	20.00	18.92	18.83	18.92
		25	0	20.00	18.83	18.48	18.81
	64QAM	1	0	20.00	19.09	18.81	18.93
		1	13	20.00	19.00	18.83	18.97
		1	24	20.00	19.08	18.97	18.95
		12	0	20.00	18.88	18.82	18.94
		12	6	20.00	18.87	18.78	18.86
		12	13	20.00	18.90	18.80	18.94
		25	0	20.00	18.83	18.54	18.83
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20450CH	20525CH	20600CH
10MHz	QPSK	1	0	20.00	18.87	18.99	18.73
		1	25	20.00	18.85	18.96	18.69
		1	49	20.00	18.89	18.94	18.68
		25	0	20.00	18.98	18.77	18.81
		25	13	20.00	18.98	18.78	18.81
		25	25	20.00	18.99	18.76	18.81
		50	0	20.00	18.79	18.67	18.85
	16QAM	1	0	20.00	18.97	18.84	18.81
		1	25	20.00	19.00	18.99	18.70
		1	49	20.00	18.99	19.05	18.70
		25	0	20.00	18.92	18.71	18.69
		25	13	20.00	18.89	18.76	18.65
		25	25	20.00	18.90	18.69	18.70
		50	0	20.00	18.75	18.53	18.79
	64QAM	1	0	20.00	19.06	19.01	18.65
		1	25	20.00	19.00	19.11	18.65
		1	49	20.00	18.90	19.12	18.64
		25	0	20.00	18.92	18.77	18.70
		25	13	20.00	18.90	18.73	18.74
		25	25	20.00	18.92	18.79	18.68
		50	0	20.00	18.76	18.52	18.84

Table 62: Conducted power measurement results of LTE Band 5 (Receiver ON, Reduced Power)

7.1.16 Conducted power measurements of LTE Band 5 (Main Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20407CH	20525CH	20643CH
1.4MHz	QPSK	1	0	25.00	23.75	23.67	23.62
		1	3	25.00	23.74	23.69	23.68
		1	5	25.00	23.79	23.72	23.77
		3	0	25.00	23.70	23.67	23.64
		3	2	25.00	23.75	23.70	23.48
		3	3	25.00	23.74	23.71	23.55
		6	0	24.00	22.69	22.61	22.51
	16QAM	1	0	24.00	22.35	22.63	22.62
		1	3	24.00	22.29	22.61	22.75
		1	5	24.00	22.35	22.60	22.65
		3	0	24.00	22.47	22.60	22.66
		3	2	24.00	22.42	22.59	22.67
		3	3	24.00	22.42	22.64	22.61
		6	0	23.00	21.56	21.58	21.62
	64QAM	1	0	23.00	21.44	21.70	21.80
		1	3	23.00	21.53	21.77	21.72
		1	5	23.00	21.47	21.74	21.71
		3	0	23.00	21.46	21.59	21.61
		3	2	23.00	21.48	21.63	21.55
		3	3	23.00	21.46	21.56	21.58
		6	0	22.00	20.50	20.50	20.66
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20415CH	20525CH	20635CH
3MHz	QPSK	1	0	25.00	23.37	23.69	23.58
		1	7	25.00	23.30	23.65	23.57
		1	14	25.00	23.34	23.65	23.57
		8	0	24.00	22.37	22.63	22.58
		8	4	24.00	22.42	22.63	22.55
		8	7	24.00	22.44	22.65	22.59
		15	0	24.00	22.40	22.62	22.58
	16QAM	1	0	24.00	22.24	22.76	22.74
		1	7	24.00	22.28	22.65	22.63
		1	14	24.00	22.27	22.78	22.77
		8	0	23.00	21.55	21.66	21.64
		8	4	23.00	21.50	21.65	21.55
		8	7	23.00	21.54	21.66	21.48
		15	0	23.00	21.50	21.56	21.58
	64QAM	1	0	23.00	21.51	21.78	21.82
		1	7	23.00	21.46	21.88	21.87
		1	14	23.00	21.62	21.84	21.72
		8	0	22.00	20.70	20.64	20.65
		8	4	22.00	20.66	20.67	20.58
		8	7	22.00	20.71	20.64	20.60
		15	0	22.00	20.65	20.62	20.60

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20425CH	20525CH	20625CH
5MHz	QPSK	1	0	25.00	23.50	23.64	23.61
		1	13	25.00	23.48	23.64	23.55
		1	24	25.00	23.47	23.68	23.53
		12	0	24.00	22.51	22.75	22.66
		12	6	24.00	22.57	22.69	22.69
		12	13	24.00	22.55	22.71	22.71
		25	0	24.00	22.31	22.59	22.61
	16QAM	1	0	24.00	22.66	22.87	22.72
		1	13	24.00	22.47	22.79	22.63
		1	24	24.00	22.44	22.78	22.67
		12	0	23.00	21.65	21.69	21.73
		12	6	23.00	21.71	21.72	21.65
		12	13	23.00	21.65	21.70	21.61
		25	0	23.00	21.47	21.61	21.61
	64QAM	1	0	23.00	21.71	21.83	21.68
		1	13	23.00	21.79	21.90	21.80
		1	24	23.00	21.86	21.78	21.77
		12	0	22.00	20.83	20.73	20.66
		12	6	22.00	20.91	20.72	20.69
		12	13	22.00	20.74	20.77	20.68
		25	0	22.00	20.62	20.63	20.63
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20450CH	20525CH	20600CH
10MHz	QPSK	1	0	25.00	23.86	23.89	23.73
		1	25	25.00	23.97	23.85	23.74
		1	49	25.00	23.92	23.85	23.76
		25	0	24.00	22.81	22.79	22.71
		25	13	24.00	22.80	22.80	22.71
		25	25	24.00	22.90	22.80	22.71
		50	0	24.00	22.80	22.77	22.72
	16QAM	1	0	24.00	22.86	22.95	22.74
		1	25	24.00	22.98	22.92	22.91
		1	49	24.00	22.92	22.85	22.79
		25	0	23.00	21.74	21.68	21.64
		25	13	23.00	21.74	21.66	21.65
		25	25	23.00	21.80	21.68	21.64
		50	0	23.00	21.69	21.67	21.59
	64QAM	1	0	23.00	22.06	21.92	21.73
		1	25	23.00	21.90	21.95	21.77
		1	49	23.00	21.84	22.07	21.80
		25	0	22.00	20.80	20.74	20.73
		25	13	22.00	20.78	20.71	20.72
		25	25	22.00	20.80	20.73	20.72
		50	0	22.00	20.74	20.70	20.67

Table 63: Conducted power measurement results of LTE Band 5

7.1.17 Conducted power measurements of LTE Band 7 (Second Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20775CH	21100CH	21425CH
5MHz	QPSK	1	0	19.00	17.63	17.61	17.41
		1	13	19.00	17.65	17.50	17.43
		1	24	19.00	17.59	17.54	17.43
		12	0	19.00	17.59	17.65	17.45
		12	6	19.00	17.63	17.67	17.44
		12	13	19.00	17.65	17.66	17.44
		25	0	19.00	17.58	17.56	17.37
	16QAM	1	0	19.00	17.82	17.82	17.77
		1	13	19.00	17.76	17.88	17.66
		1	24	19.00	17.93	17.81	17.58
		12	0	19.00	17.60	17.58	17.45
		12	6	19.00	17.61	17.62	17.36
		12	13	19.00	17.57	17.67	17.49
		25	0	19.00	17.48	17.51	17.31
	64QAM	1	0	19.00	17.67	17.63	17.64
		1	13	19.00	17.73	17.47	17.62
		1	24	19.00	17.72	17.57	17.63
		12	0	19.00	17.55	17.62	17.41
		12	6	19.00	17.60	17.58	17.42
		12	13	19.00	17.62	17.63	17.40
		25	0	19.00	17.57	17.51	17.29
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20800CH	21100CH	21400CH
10MHz	QPSK	1	0	19.00	17.59	17.56	17.47
		1	25	19.00	17.57	17.54	17.46
		1	49	19.00	17.56	17.55	17.46
		25	0	19.00	17.56	17.54	17.39
		25	13	19.00	17.57	17.50	17.37
		25	25	19.00	17.57	17.50	17.38
		50	0	19.00	17.55	17.57	17.41
	16QAM	1	0	19.00	17.74	17.65	17.49
		1	25	19.00	17.61	17.60	17.39
		1	49	19.00	17.77	17.52	17.54
		25	0	19.00	17.52	17.44	17.31
		25	13	19.00	17.50	17.42	17.36
		25	25	19.00	17.49	17.44	17.29
		50	0	19.00	17.49	17.50	17.32
	64QAM	1	0	19.00	17.67	17.73	17.75
		1	25	19.00	17.79	17.77	17.66
		1	49	19.00	17.80	17.61	17.44
		25	0	19.00	17.53	17.57	17.38
		25	13	19.00	17.60	17.60	17.38
		25	25	19.00	17.58	17.62	17.36
		50	0	19.00	17.56	17.54	17.35

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20825CH	21100CH	21375CH
15MHz	QPSK	1	0	19.00	17.57	17.53	17.49
		1	38	19.00	17.55	17.50	17.47
		1	74	19.00	17.54	17.52	17.47
		36	0	19.00	17.68	17.73	17.41
		36	18	19.00	17.67	17.73	17.44
		36	39	19.00	17.66	17.71	17.43
		75	0	19.00	17.64	17.61	17.53
	16QAM	1	0	19.00	17.59	17.60	17.61
		1	38	19.00	17.72	17.68	17.54
		1	74	19.00	17.74	17.56	17.66
		36	0	19.00	17.60	17.66	17.36
		36	18	19.00	17.62	17.50	17.33
		36	39	19.00	17.60	17.49	17.34
		75	0	19.00	17.56	17.54	17.42
	64QAM	1	0	19.00	17.72	17.65	17.47
		1	38	19.00	17.83	17.66	17.50
		1	74	19.00	17.80	17.76	17.55
		36	0	19.00	17.68	17.68	17.41
		36	18	19.00	17.67	17.62	17.41
		36	39	19.00	17.66	17.68	17.44
		75	0	19.00	17.55	17.58	17.42
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20850CH	21100CH	21350CH
20MHz	QPSK	1	0	19.00	17.77	17.64	17.53
		1	50	19.00	17.76	17.68	17.53
		1	99	19.00	17.75	17.69	17.47
		50	0	19.00	17.68	17.55	17.49
		50	25	19.00	17.67	17.56	17.49
		50	50	19.00	17.67	17.60	17.51
		100	0	19.00	17.57	17.67	17.39
	16QAM	1	0	19.00	18.08	17.85	17.63
		1	50	19.00	18.14	17.80	17.67
		1	99	19.00	17.82	17.70	17.66
		50	0	19.00	17.63	17.47	17.41
		50	25	19.00	17.63	17.54	17.43
		50	50	19.00	17.57	17.50	17.42
		100	0	19.00	17.50	17.56	17.32
	64QAM	1	0	19.00	18.05	17.75	17.74
		1	50	19.00	17.93	17.74	17.63
		1	99	19.00	17.85	17.80	17.68
		50	0	19.00	17.57	17.60	17.39
		50	25	19.00	17.55	17.59	17.47
		50	50	19.00	17.63	17.63	17.39
		100	0	19.00	17.52	17.55	17.40

Table 64: Conducted power measurement results of LTE Band 7 (Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20775CH	21100CH	21425CH
5MHz	QPSK	1	0	13.00	11.70	11.55	11.55
		1	13	13.00	11.69	11.56	11.51
		1	24	13.00	11.72	11.55	11.50
		12	0	13.00	11.75	11.66	11.54
		12	6	13.00	11.73	11.54	11.55
		12	13	13.00	11.78	11.51	11.54
		25	0	13.00	11.61	11.51	11.49
	16QAM	1	0	13.00	11.86	11.71	11.73
		1	13	13.00	11.98	11.74	11.70
		1	24	13.00	11.96	11.73	11.51
		12	0	13.00	11.75	11.57	11.47
		12	6	13.00	11.75	11.47	11.48
		12	13	13.00	11.73	11.43	11.52
		25	0	13.00	11.58	11.43	11.41
	64QAM	1	0	13.00	11.81	11.67	11.74
		1	13	13.00	11.64	11.79	11.65
		1	24	13.00	11.74	11.70	11.72
		12	0	13.00	11.77	11.52	11.48
		12	6	13.00	11.76	11.65	11.51
		12	13	13.00	11.72	11.72	11.41
		25	0	13.00	11.59	11.59	11.35
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20800CH	21100CH	21400CH
10MHz	QPSK	1	0	13.00	11.69	11.67	11.58
		1	25	13.00	11.69	11.68	11.55
		1	49	13.00	11.69	11.67	11.51
		25	0	13.00	11.70	11.59	11.49
		25	13	13.00	11.73	11.58	11.46
		25	25	13.00	11.71	11.61	11.50
		50	0	13.00	11.64	11.50	11.49
	16QAM	1	0	13.00	11.83	11.83	11.59
		1	25	13.00	11.89	11.86	11.78
		1	49	13.00	11.70	11.79	11.62
		25	0	13.00	11.67	11.48	11.41
		25	13	13.00	11.63	11.49	11.42
		25	25	13.00	11.63	11.54	11.43
		50	0	13.00	11.59	11.42	11.48
	64QAM	1	0	13.00	11.90	11.87	11.53
		1	25	13.00	11.91	11.69	11.59
		1	49	13.00	11.96	11.92	11.49
		25	0	13.00	11.67	11.54	11.49
		25	13	13.00	11.67	11.51	11.45
		25	25	13.00	11.64	11.55	11.43
		50	0	13.00	11.66	11.42	11.36

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20825CH	21100CH	21375CH
15MHz	QPSK	1	0	13.00	11.67	11.57	11.42
		1	38	13.00	11.62	11.61	11.44
		1	74	13.00	11.68	11.59	11.41
		36	0	13.00	11.70	11.73	11.56
		36	18	13.00	11.74	11.68	11.54
		36	39	13.00	11.74	11.60	11.55
		75	0	13.00	11.69	11.63	11.48
	16QAM	1	0	13.00	11.68	11.60	11.58
		1	38	13.00	11.62	11.81	11.48
		1	74	13.00	11.80	11.59	11.42
		36	0	13.00	11.67	11.63	11.52
		36	18	13.00	11.69	11.51	11.51
		36	39	13.00	11.67	11.53	11.51
		75	0	13.00	11.62	11.54	11.40
	64QAM	1	0	13.00	11.93	11.76	11.46
		1	38	13.00	11.74	11.65	11.53
		1	74	13.00	11.72	11.82	11.34
		36	0	13.00	11.71	11.71	11.55
		36	18	13.00	11.70	11.70	11.56
		36	39	13.00	11.69	11.65	11.54
		75	0	13.00	11.64	11.62	11.32
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20850CH	21100CH	21350CH
20MHz	QPSK	1	0	13.00	11.79	11.76	11.62
		1	50	13.00	11.80	11.76	11.63
		1	99	13.00	11.82	11.75	11.64
		50	0	13.00	11.75	11.61	11.62
		50	25	13.00	11.73	11.63	11.44
		50	50	13.00	11.74	11.63	11.45
		100	0	13.00	11.65	11.66	11.55
	16QAM	1	0	13.00	12.02	11.92	11.82
		1	50	13.00	12.01	11.78	11.85
		1	99	13.00	11.74	11.83	11.76
		50	0	13.00	11.64	11.54	11.51
		50	25	13.00	11.67	11.53	11.52
		50	50	13.00	11.63	11.54	11.53
		100	0	13.00	11.61	11.60	11.47
	64QAM	1	0	13.00	11.78	11.64	11.85
		1	50	13.00	11.73	11.74	11.67
		1	99	13.00	11.97	11.64	11.75
		50	0	13.00	11.63	11.56	11.56
		50	25	13.00	11.61	11.55	11.57
		50	50	13.00	11.63	11.54	11.54
		100	0	13.00	11.64	11.59	11.50

Table 65: Conducted power measurement results of LTE Band 7 (Receiver ON)

7.1.18 Conducted power measurements of LTE Band 7 (Main Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20775CH	21100CH	21425CH
5MHz	QPSK	1	0	24.50	23.49	23.52	23.39
		1	13	24.50	23.52	23.55	23.39
		1	24	24.50	23.50	23.56	23.35
		12	0	23.50	22.63	22.60	22.41
		12	6	23.50	22.59	22.61	22.40
		12	13	23.50	22.62	22.62	22.40
		25	0	23.50	22.42	22.50	22.37
	16QAM	1	0	23.50	22.56	22.59	22.33
		1	13	23.50	22.49	22.53	22.49
		1	24	23.50	22.58	22.63	22.41
		12	0	22.50	21.42	21.39	21.29
		12	6	22.50	21.42	21.33	21.30
		12	13	22.50	21.46	21.40	21.30
		25	0	22.50	21.32	21.35	21.13
	64QAM	1	0	22.50	21.42	21.43	21.38
		1	13	22.50	21.62	21.30	21.36
		1	24	22.50	21.47	21.40	21.32
		12	0	21.50	20.49	20.39	20.33
		12	6	21.50	20.45	20.40	20.32
		12	13	21.50	20.53	20.41	20.27
		25	0	21.50	20.33	20.32	20.20
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20800CH	21100CH	21400CH
10MHz	QPSK	1	0	24.50	23.52	23.65	23.43
		1	25	24.50	23.50	23.60	23.42
		1	49	24.50	23.53	23.59	23.40
		25	0	23.50	22.61	22.55	22.50
		25	13	23.50	22.59	22.58	22.44
		25	25	23.50	22.58	22.59	22.44
		50	0	23.50	22.54	22.44	22.37
	16QAM	1	0	23.50	22.63	22.55	22.41
		1	25	23.50	22.54	22.53	22.36
		1	49	23.50	22.47	22.45	22.42
		25	0	22.50	21.37	21.26	21.19
		25	13	22.50	21.42	21.29	21.25
		25	25	22.50	21.41	21.34	21.23
		50	0	22.50	21.37	21.29	21.16
	64QAM	1	0	22.50	21.38	21.48	21.30
		1	25	22.50	21.38	21.41	21.19
		1	49	22.50	21.51	21.55	21.26
		25	0	21.50	20.50	20.34	20.23
		25	13	21.50	20.44	20.35	20.19
		25	25	21.50	20.43	20.31	20.24
		50	0	21.50	20.40	20.29	20.17

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20825CH	21100CH	21375CH
15MHz	QPSK	1	0	24.50	23.52	23.63	23.45
		1	38	24.50	23.58	23.64	23.46
		1	74	24.50	23.55	23.63	23.48
		36	0	23.50	22.66	22.61	22.39
		36	18	23.50	22.66	22.62	22.38
		36	39	23.50	22.69	22.62	22.39
		75	0	23.50	22.54	22.45	22.36
	16QAM	1	0	23.50	22.43	22.47	22.43
		1	38	23.50	22.48	22.64	22.34
		1	74	23.50	22.58	22.52	22.42
		36	0	22.50	21.47	21.37	21.24
		36	18	22.50	21.52	21.34	21.26
		36	39	22.50	21.49	21.36	21.26
		75	0	22.50	21.46	21.28	21.16
	64QAM	1	0	22.50	21.49	21.73	21.52
		1	38	22.50	21.65	21.52	21.16
		1	74	22.50	21.39	21.51	21.47
		36	0	21.50	20.45	20.39	20.27
		36	18	21.50	20.42	20.34	20.20
		36	39	21.50	20.45	20.39	20.29
		75	0	21.50	20.45	20.30	20.12
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20850CH	21100CH	21350CH
20MHz	QPSK	1	0	24.50	23.58	23.54	23.48
		1	50	24.50	23.58	23.56	23.41
		1	99	24.50	23.57	23.51	23.42
		50	0	23.50	22.67	22.58	22.54
		50	25	23.50	22.66	22.62	22.52
		50	50	23.50	22.67	22.61	22.54
		100	0	23.50	22.64	22.57	22.49
	16QAM	1	0	23.50	22.54	22.46	22.43
		1	50	23.50	22.49	22.64	22.45
		1	99	23.50	22.48	22.52	22.53
		50	0	22.50	21.39	21.39	21.32
		50	25	22.50	21.42	21.36	21.36
		50	50	22.50	21.41	21.36	21.31
		100	0	22.50	21.47	21.32	21.27
	64QAM	1	0	22.50	21.46	21.50	21.29
		1	50	22.50	21.43	21.46	21.23
		1	99	22.50	21.52	21.46	21.34
		50	0	21.50	20.48	20.33	20.32
		50	25	21.50	20.50	20.35	20.30
		50	50	21.50	20.47	20.34	20.33
		100	0	21.50	20.41	20.33	20.25

Table 66: Conducted power measurement results of LTE Band 7 (Full power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20775CH	21100CH	21425CH
5MHz	QPSK	1	0	21.00	20.07	20.00	20.03
		1	13	21.00	20.10	20.03	20.01
		1	24	21.00	20.13	20.03	19.98
		12	0	21.00	20.12	20.01	19.97
		12	6	21.00	20.11	20.01	19.97
		12	13	21.00	20.14	20.01	19.96
		25	0	21.00	19.90	19.93	19.82
	16QAM	1	0	21.00	20.09	19.97	19.88
		1	13	21.00	20.10	20.00	20.03
		1	24	21.00	20.06	20.15	19.84
		12	0	21.00	20.01	19.87	19.89
		12	6	21.00	19.99	19.95	19.85
		12	13	21.00	19.98	19.88	19.82
		25	0	21.00	19.82	19.82	19.68
	64QAM	1	0	21.00	20.03	19.82	19.96
		1	13	21.00	20.12	20.04	19.97
		1	24	21.00	20.17	19.95	19.94
		12	0	21.00	19.97	19.90	19.81
		12	6	21.00	19.95	19.94	19.81
		12	13	21.00	19.92	19.96	19.84
		25	0	21.00	19.81	19.83	19.69
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20800CH	21100CH	21400CH
10MHz	QPSK	1	0	21.00	20.12	20.06	19.96
		1	25	21.00	20.10	20.08	19.97
		1	49	21.00	20.07	20.04	19.99
		25	0	21.00	20.09	20.03	19.96
		25	13	21.00	20.07	20.06	19.97
		25	25	21.00	20.14	20.02	19.98
		50	0	21.00	20.02	19.89	19.83
	16QAM	1	0	21.00	20.05	19.96	19.70
		1	25	21.00	19.90	19.82	20.01
		1	49	21.00	19.96	19.93	19.74
		25	0	21.00	19.89	19.77	19.73
		25	13	21.00	19.87	19.79	19.71
		25	25	21.00	19.93	19.77	19.75
		50	0	21.00	19.88	19.79	19.65
	64QAM	1	0	21.00	20.06	19.79	19.74
		1	25	21.00	20.17	19.96	19.92
		1	49	21.00	20.01	19.95	19.77
		25	0	21.00	19.94	19.80	19.79
		25	13	21.00	19.91	19.82	19.74
		25	25	21.00	19.95	19.80	19.76
		50	0	21.00	19.92	19.77	19.61

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20825CH	21100CH	21375CH
15MHz	QPSK	1	0	21.00	20.16	19.94	19.91
		1	38	21.00	20.15	19.97	19.91
		1	74	21.00	20.16	19.94	19.87
		36	0	21.00	20.20	19.99	19.89
		36	18	21.00	20.19	20.01	19.95
		36	39	21.00	20.18	20.00	19.93
		75	0	21.00	20.10	19.93	19.88
	16QAM	1	0	21.00	20.23	19.99	19.84
		1	38	21.00	20.11	19.94	19.73
		1	74	21.00	20.04	19.85	19.73
		36	0	21.00	19.95	19.90	19.70
		36	18	21.00	19.98	19.90	19.72
		36	39	21.00	19.92	19.91	19.69
		75	0	21.00	19.91	19.76	19.69
	64QAM	1	0	21.00	20.05	19.92	19.96
		1	38	21.00	20.15	19.98	19.89
		1	74	21.00	20.08	20.06	19.64
		36	0	21.00	19.94	19.87	19.71
		36	18	21.00	19.97	19.87	19.72
		36	39	21.00	19.93	19.89	19.71
		75	0	21.00	19.96	19.77	19.66
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20850CH	21100CH	21350CH
20MHz	QPSK	1	0	21.00	20.11	20.01	19.90
		1	50	21.00	20.06	20.02	19.96
		1	99	21.00	20.10	20.00	19.94
		50	0	21.00	20.16	20.09	20.02
		50	25	21.00	20.20	20.10	20.05
		50	50	21.00	20.18	20.11	20.08
		100	0	21.00	20.13	20.06	19.98
	16QAM	1	0	21.00	20.10	20.08	19.90
		1	50	21.00	20.05	20.01	19.86
		1	99	21.00	20.10	19.96	19.93
		50	0	21.00	19.90	19.84	19.82
		50	25	21.00	19.96	19.85	19.83
		50	50	21.00	19.96	19.84	19.84
		100	0	21.00	19.96	19.81	19.79
	64QAM	1	0	21.00	20.10	19.97	19.87
		1	50	21.00	20.13	19.96	19.95
		1	99	21.00	20.09	19.88	19.84
		50	0	21.00	19.95	19.86	19.82
		50	25	21.00	19.91	19.89	19.82
		50	50	21.00	19.92	19.90	19.82
		100	0	21.00	19.95	19.88	19.77

Table 67: Conducted power measurement results of LTE Band 7 (Reduced Power Level D2)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20775CH	21100CH	21425CH
5MHz	QPSK	1	0	22.50	21.58	21.54	21.49
		1	13	22.50	21.57	21.55	21.47
		1	24	22.50	21.62	21.57	21.50
		12	0	22.50	21.61	21.54	21.48
		12	6	22.50	21.60	21.54	21.47
		12	13	22.50	21.64	21.53	21.47
		25	0	22.50	21.52	21.49	21.37
	16QAM	1	0	22.50	21.48	21.68	21.40
		1	13	22.50	21.60	21.48	21.51
		1	24	22.50	21.56	21.37	21.41
		12	0	22.50	21.50	21.35	21.33
		12	6	22.50	21.54	21.40	21.31
		12	13	22.50	21.46	21.38	21.32
		25	0	22.50	21.37	21.29	21.18
	64QAM	1	0	22.50	21.50	21.48	21.38
		1	13	22.50	21.56	21.48	21.37
		1	24	22.50	21.53	21.57	21.36
		12	0	21.50	20.47	20.41	20.32
		12	6	21.50	20.44	20.41	20.31
		12	13	21.50	20.47	20.34	20.31
		25	0	21.50	20.34	20.36	20.20
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20800CH	21100CH	21400CH
10MHz	QPSK	1	0	22.50	21.63	21.57	21.48
		1	25	22.50	21.62	21.57	21.44
		1	49	22.50	21.61	21.62	21.48
		25	0	22.50	21.65	21.60	21.47
		25	13	22.50	21.64	21.59	21.46
		25	25	22.50	21.64	21.59	21.50
		50	0	22.50	21.56	21.42	21.35
	16QAM	1	0	22.50	21.64	21.54	21.31
		1	25	22.50	21.58	21.41	21.35
		1	49	22.50	21.58	21.47	21.39
		25	0	22.50	21.44	21.31	21.21
		25	13	22.50	21.42	21.30	21.19
		25	25	22.50	21.39	21.32	21.23
		50	0	22.50	21.36	21.24	21.14
	64QAM	1	0	22.50	21.48	21.44	21.46
		1	25	22.50	21.60	21.55	21.36
		1	49	22.50	21.56	21.46	21.28
		25	0	21.50	20.46	20.31	20.23
		25	13	21.50	20.41	20.33	20.25
		25	25	21.50	20.45	20.34	20.23
		50	0	21.50	20.38	20.27	20.16

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20825CH	21100CH	21375CH
15MHz	QPSK	1	0	22.50	21.59	21.51	21.43
		1	38	22.50	21.63	21.55	21.40
		1	74	22.50	21.60	21.55	21.36
		36	0	22.50	21.69	21.60	21.41
		36	18	22.50	21.69	21.60	21.41
		36	39	22.50	21.74	21.60	21.40
		75	0	22.50	21.63	21.45	21.34
	16QAM	1	0	22.50	21.61	21.75	21.44
		1	38	22.50	21.50	21.59	21.42
		1	74	22.50	21.53	21.64	21.28
		36	0	22.50	21.48	21.37	21.24
		36	18	22.50	21.53	21.36	21.21
		36	39	22.50	21.49	21.37	21.26
		75	0	22.50	21.45	21.30	21.15
	64QAM	1	0	22.50	21.46	21.66	21.37
		1	38	22.50	21.42	21.51	21.39
		1	74	22.50	21.49	21.69	21.43
		36	0	21.50	20.42	20.43	20.21
		36	18	21.50	20.45	20.39	20.22
		36	39	21.50	20.47	20.45	20.22
		75	0	21.50	20.45	20.27	20.15
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20850CH	21100CH	21350CH
20MHz	QPSK	1	0	22.50	21.58	21.46	21.44
		1	50	22.50	21.57	21.52	21.43
		1	99	22.50	21.56	21.53	21.46
		50	0	22.50	21.68	21.62	21.56
		50	25	22.50	21.65	21.61	21.55
		50	50	22.50	21.66	21.62	21.56
		100	0	22.50	21.65	21.56	21.50
	16QAM	1	0	22.50	21.73	21.52	21.35
		1	50	22.50	21.69	21.58	21.41
		1	99	22.50	21.50	21.50	21.43
		50	0	22.50	21.48	21.41	21.31
		50	25	22.50	21.44	21.42	21.34
		50	50	22.50	21.42	21.37	21.34
		100	0	22.50	21.46	21.37	21.33
	64QAM	1	0	22.50	21.52	21.56	21.16
		1	50	22.50	21.47	21.39	21.32
		1	99	22.50	21.40	21.31	21.32
		50	0	21.50	20.41	20.36	20.33
		50	25	21.50	20.46	20.39	20.32
		50	50	21.50	20.45	20.35	20.32
		100	0	21.50	20.42	20.35	20.26

Table 68: Conducted power measurement results of LTE Band 7 (Reduced Power Level D1)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20775CH	21100CH	21425CH
5MHz	QPSK	1	0	22.00	21.06	21.07	20.95
		1	13	22.00	21.03	21.05	20.91
		1	24	22.00	21.03	21.09	20.89
		12	0	22.00	21.13	21.11	20.97
		12	6	22.00	21.11	21.09	20.90
		12	13	22.00	21.09	21.10	20.94
		25	0	22.00	20.99	21.00	20.92
	16QAM	1	0	22.00	21.07	21.04	20.95
		1	13	22.00	21.12	21.00	21.02
		1	24	22.00	21.15	21.03	21.09
		12	0	22.00	20.99	20.93	20.65
		12	6	22.00	20.99	20.91	20.73
		12	13	22.00	21.02	20.89	20.75
		25	0	22.00	20.85	20.86	20.66
	64QAM	1	0	22.00	21.05	20.97	20.91
		1	13	22.00	20.95	21.04	20.92
		1	24	22.00	20.87	20.84	20.95
		12	0	21.50	20.46	20.39	20.23
		12	6	21.50	20.51	20.44	20.18
		12	13	21.50	20.51	20.37	20.24
		25	0	21.50	20.39	20.35	20.16
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20800CH	21100CH	21400CH
10MHz	QPSK	1	0	22.00	21.04	21.13	20.90
		1	25	22.00	21.05	21.17	20.94
		1	49	22.00	21.07	21.18	20.89
		25	0	22.00	21.07	21.07	20.91
		25	13	22.00	21.06	21.08	20.92
		25	25	22.00	21.13	21.09	20.91
		50	0	22.00	20.99	20.97	20.91
	16QAM	1	0	22.00	20.91	20.88	20.78
		1	25	22.00	21.00	21.00	20.78
		1	49	22.00	20.94	21.01	20.92
		25	0	22.00	20.93	20.78	20.72
		25	13	22.00	20.92	20.82	20.76
		25	25	22.00	20.92	20.84	20.75
		50	0	22.00	20.92	20.81	20.71
	64QAM	1	0	22.00	21.10	20.92	20.90
		1	25	22.00	21.17	21.11	20.85
		1	49	22.00	21.17	20.90	20.93
		25	0	21.50	20.47	20.35	20.24
		25	13	21.50	20.48	20.40	20.23
		25	25	21.50	20.45	20.38	20.23
		50	0	21.50	20.40	20.30	20.20

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20825CH	21100CH	21375CH
15MHz	QPSK	1	0	22.00	21.05	21.06	20.92
		1	38	22.00	21.07	21.07	20.89
		1	74	22.00	21.05	21.06	20.94
		36	0	22.00	21.15	21.11	20.96
		36	18	22.00	21.15	21.12	20.95
		36	39	22.00	21.13	21.06	20.97
		75	0	22.00	21.11	20.97	20.89
	16QAM	1	0	22.00	21.04	21.05	20.77
		1	38	22.00	20.94	20.99	20.97
		1	74	22.00	21.01	20.94	21.02
		36	0	22.00	21.02	20.87	20.71
		36	18	22.00	21.03	20.93	20.71
		36	39	22.00	21.02	20.90	20.71
		75	0	22.00	20.93	20.84	20.66
	64QAM	1	0	22.00	20.92	21.01	20.88
		1	38	22.00	21.04	20.86	20.82
		1	74	22.00	20.99	21.00	20.98
		36	0	21.50	20.48	20.46	20.17
		36	18	21.50	20.48	20.44	20.18
		36	39	21.50	20.49	20.42	20.17
		75	0	21.50	20.42	20.31	20.14
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20850CH	21100CH	21350CH
20MHz	QPSK	1	0	22.00	21.07	21.02	20.95
		1	50	22.00	21.02	21.04	20.96
		1	99	22.00	21.05	21.01	20.94
		50	0	22.00	21.11	21.11	21.06
		50	25	22.00	21.20	21.13	21.09
		50	50	22.00	21.16	21.11	21.05
		100	0	22.00	21.14	21.08	21.01
	16QAM	1	0	22.00	21.10	21.14	20.93
		1	50	22.00	21.26	21.05	20.81
		1	99	22.00	21.27	21.16	20.81
		50	0	22.00	20.97	20.89	20.80
		50	25	22.00	20.95	20.89	20.86
		50	50	22.00	20.92	20.89	20.84
		100	0	22.00	20.94	20.91	20.76
	64QAM	1	0	22.00	21.03	20.85	20.88
		1	50	22.00	21.12	21.09	20.60
		1	99	22.00	21.04	20.84	20.80
		50	0	21.50	20.45	20.40	20.37
		50	25	21.50	20.48	20.34	20.35
		50	50	21.50	20.45	20.35	20.32
		100	0	21.50	20.44	20.36	20.28

Table 69: Conducted power measurement results of LTE Band 7 (Reduced Power Level D4)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20775CH	21100CH	21425CH
5MHz	QPSK	1	0	18.50	17.41	17.49	17.43
		1	13	18.50	17.42	17.46	17.44
		1	24	18.50	17.40	17.48	17.43
		12	0	18.50	17.44	17.39	17.39
		12	6	18.50	17.45	17.43	17.39
		12	13	18.50	17.46	17.35	17.39
		25	0	18.50	17.48	17.34	17.24
	16QAM	1	0	18.50	17.54	17.45	17.46
		1	13	18.50	17.55	17.33	17.57
		1	24	18.50	17.48	17.53	17.57
		12	0	18.50	17.40	17.42	17.33
		12	6	18.50	17.40	17.34	17.35
		12	13	18.50	17.39	17.42	17.32
		25	0	18.50	17.30	17.25	17.16
	64QAM	1	0	18.50	17.50	17.61	17.60
		1	13	18.50	17.58	17.43	17.44
		1	24	18.50	17.51	17.65	17.59
		12	0	18.50	17.39	17.42	17.36
		12	6	18.50	17.36	17.38	17.37
		12	13	18.50	17.45	17.44	17.38
		25	0	18.50	17.37	17.34	17.24
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20800CH	21100CH	21400CH
10MHz	QPSK	1	0	18.50	17.43	17.52	17.39
		1	25	18.50	17.43	17.47	17.38
		1	49	18.50	17.41	17.55	17.39
		25	0	18.50	17.39	17.44	17.36
		25	13	18.50	17.38	17.44	17.35
		25	25	18.50	17.45	17.44	17.35
		50	0	18.50	17.43	17.35	17.39
	16QAM	1	0	18.50	17.51	17.48	17.33
		1	25	18.50	17.36	17.47	17.36
		1	49	18.50	17.42	17.53	17.29
		25	0	18.50	17.28	17.32	17.30
		25	13	18.50	17.33	17.38	17.27
		25	25	18.50	17.36	17.38	17.25
		50	0	18.50	17.33	17.33	17.33
	64QAM	1	0	18.50	17.38	17.57	17.63
		1	25	18.50	17.56	17.64	17.64
		1	49	18.50	17.43	17.70	17.64
		25	0	18.50	17.37	17.41	17.28
		25	13	18.50	17.34	17.43	17.32
		25	25	18.50	17.44	17.41	17.32
		50	0	18.50	17.34	17.34	17.24

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20825CH	21100CH	21375CH
15MHz	QPSK	1	0	18.50	17.38	17.38	17.46
		1	38	18.50	17.35	17.43	17.39
		1	74	18.50	17.36	17.38	17.45
		36	0	18.50	17.47	17.40	17.32
		36	18	18.50	17.45	17.38	17.33
		36	39	18.50	17.45	17.43	17.32
		75	0	18.50	17.42	17.41	17.27
	16QAM	1	0	18.50	17.59	17.60	17.40
		1	38	18.50	17.43	17.61	17.72
		1	74	18.50	17.48	17.55	17.52
		36	0	18.50	17.39	17.38	17.23
		36	18	18.50	17.36	17.34	17.23
		36	39	18.50	17.38	17.36	17.25
		75	0	18.50	17.31	17.30	17.18
	64QAM	1	0	18.50	17.44	17.47	17.52
		1	38	18.50	17.47	17.38	17.51
		1	74	18.50	17.53	17.45	17.46
		36	0	18.50	17.45	17.33	17.26
		36	18	18.50	17.41	17.36	17.32
		36	39	18.50	17.42	17.36	17.26
		75	0	18.50	17.38	17.37	17.26
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20850CH	21100CH	21350CH
20MHz	QPSK	1	0	18.50	17.60	17.56	17.52
		1	50	18.50	17.62	17.56	17.55
		1	99	18.50	17.60	17.56	17.43
		50	0	18.50	17.43	17.44	17.39
		50	25	18.50	17.44	17.43	17.39
		50	50	18.50	17.43	17.42	17.38
		100	0	18.50	17.40	17.39	17.30
	16QAM	1	0	18.50	17.85	17.60	17.46
		1	50	18.50	17.85	17.74	17.66
		1	99	18.50	17.94	17.66	17.61
		50	0	18.50	17.32	17.35	17.30
		50	25	18.50	17.37	17.34	17.29
		50	50	18.50	17.34	17.35	17.30
		100	0	18.50	17.31	17.32	17.23
	64QAM	1	0	18.50	17.76	17.60	17.64
		1	50	18.50	17.76	17.81	17.74
		1	99	18.50	17.62	17.60	17.51
		50	0	18.50	17.41	17.39	17.33
		50	25	18.50	17.37	17.42	17.32
		50	50	18.50	17.40	17.38	17.32
		100	0	18.50	17.40	17.32	17.24

Table 70: Conducted power measurement results of LTE Band 7 (Reduced Power Level D6)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20775CH	21100CH	21425CH
5MHz	QPSK	1	0	20.00	18.94	18.99	18.87
		1	13	20.00	18.96	19.00	18.87
		1	24	20.00	18.93	19.02	18.90
		12	0	20.00	19.05	19.01	18.91
		12	6	20.00	19.03	19.01	18.91
		12	13	20.00	19.02	19.01	18.89
		25	0	20.00	18.92	18.91	18.81
	16QAM	1	0	20.00	19.19	19.13	19.10
		1	13	20.00	19.26	19.10	18.97
		1	24	20.00	19.21	19.09	18.94
		12	0	20.00	19.02	18.91	18.83
		12	6	20.00	18.98	18.90	18.85
		12	13	20.00	18.97	18.88	18.86
		25	0	20.00	18.92	18.93	18.78
	64QAM	1	0	20.00	19.25	19.01	19.11
		1	13	20.00	19.06	19.02	18.85
		1	24	20.00	19.10	18.94	19.20
		12	0	20.00	19.04	19.01	18.93
		12	6	20.00	19.02	19.04	18.93
		12	13	20.00	18.99	19.02	18.90
		25	0	20.00	18.84	18.88	18.85
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20800CH	21100CH	21400CH
10MHz	QPSK	1	0	20.00	19.07	19.04	18.87
		1	25	20.00	19.05	19.06	18.91
		1	49	20.00	19.07	19.07	18.93
		25	0	20.00	19.00	18.96	18.86
		25	13	20.00	19.01	18.96	18.87
		25	25	20.00	19.02	19.00	18.85
		50	0	20.00	18.96	18.95	18.90
	16QAM	1	0	20.00	19.01	18.99	19.06
		1	25	20.00	19.08	19.11	18.94
		1	49	20.00	19.10	19.01	19.02
		25	0	20.00	18.92	18.94	18.80
		25	13	20.00	18.91	18.97	18.82
		25	25	20.00	19.01	18.94	18.80
		50	0	20.00	18.94	18.85	18.79
	64QAM	1	0	20.00	19.02	19.10	19.05
		1	25	20.00	19.35	19.23	19.09
		1	49	20.00	19.12	19.29	19.21
		25	0	20.00	18.96	18.94	18.83
		25	13	20.00	18.95	19.00	18.85
		25	25	20.00	18.98	19.01	18.87
		50	0	20.00	18.98	18.89	18.85

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20825CH	21100CH	21375CH
15MHz	QPSK	1	0	20.00	19.01	18.95	18.88
		1	38	20.00	19.05	18.91	18.82
		1	74	20.00	19.04	18.94	18.86
		36	0	20.00	19.06	19.04	18.97
		36	18	20.00	19.05	19.04	18.96
		36	39	20.00	19.04	19.04	18.98
		75	0	20.00	19.01	18.95	18.80
	16QAM	1	0	20.00	19.24	18.97	18.88
		1	38	20.00	19.14	19.04	19.12
		1	74	20.00	19.00	18.96	19.01
		36	0	20.00	18.99	18.95	18.87
		36	18	20.00	18.99	18.95	18.89
		36	39	20.00	18.96	18.93	18.87
		75	0	20.00	18.94	18.84	18.68
	64QAM	1	0	20.00	19.02	19.15	19.08
		1	38	20.00	19.11	19.00	18.96
		1	74	20.00	19.08	19.17	19.00
		36	0	20.00	19.02	18.98	18.90
		36	18	20.00	18.99	18.95	18.90
		36	39	20.00	19.02	19.01	18.92
		75	0	20.00	18.87	18.86	18.70
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20850CH	21100CH	21350CH
20MHz	QPSK	1	0	20.00	19.05	19.05	19.04
		1	50	20.00	19.07	19.09	19.01
		1	99	20.00	19.09	19.07	18.90
		50	0	20.00	19.01	18.98	18.94
		50	25	20.00	19.00	19.00	18.95
		50	50	20.00	19.02	18.99	18.95
		100	0	20.00	18.91	18.93	18.84
	16QAM	1	0	20.00	19.36	19.09	19.04
		1	50	20.00	19.24	19.16	19.31
		1	99	20.00	19.24	19.31	19.25
		50	0	20.00	18.95	18.91	18.90
		50	25	20.00	18.96	18.90	18.92
		50	50	20.00	18.95	18.89	18.87
		100	0	20.00	18.90	18.83	18.76
	64QAM	1	0	20.00	19.22	19.08	19.08
		1	50	20.00	19.33	19.08	19.13
		1	99	20.00	19.34	19.13	19.14
		50	0	20.00	18.90	18.93	18.92
		50	25	20.00	18.89	18.91	18.93
		50	50	20.00	18.89	18.92	18.91
		100	0	20.00	18.93	18.86	18.77

Table 71: Conducted power measurement results of LTE Band 7 (Reduced Power Level D5)

7.1.19 Conducted power measurements of LTE Band 12 (Second Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23017CH	23095CH	23173CH
1.4MHz	QPSK	1	0	24.50	23.03	23.49	23.46
		1	3	24.50	23.07	23.45	23.40
		1	5	24.50	23.06	23.41	23.39
		3	0	23.50	23.21	23.45	23.37
		3	2	23.50	23.16	23.39	23.40
		3	3	23.50	23.18	23.28	23.37
		6	0	23.50	22.04	22.24	22.28
	16QAM	1	0	23.50	21.94	22.45	22.47
		1	3	23.50	21.90	22.33	22.57
		1	5	23.50	21.91	22.47	22.46
		3	0	22.50	21.97	22.26	22.33
		3	2	22.50	21.98	22.30	22.38
		3	3	22.50	22.08	22.25	22.32
		6	0	22.50	21.01	21.18	21.34
	64QAM	1	0	22.50	21.05	21.45	21.53
		1	3	22.50	20.89	21.60	21.49
		1	5	22.50	20.86	21.60	21.52
		3	0	22.50	20.95	21.28	21.45
		3	2	22.50	20.90	21.39	21.41
		3	3	22.50	20.94	21.37	21.40
		6	0	21.50	20.01	20.41	20.29
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23025CH	23095CH	23165CH
3MHz	QPSK	1	0	24.50	23.10	23.49	23.40
		1	7	24.50	23.13	23.40	23.40
		1	14	24.50	23.17	23.47	23.41
		8	0	23.50	22.16	22.40	22.39
		8	4	23.50	22.16	22.38	22.35
		8	7	23.50	22.23	22.36	22.35
		15	0	23.50	22.30	22.41	22.35
	16QAM	1	0	23.50	21.88	22.55	22.42
		1	7	23.50	22.20	22.71	22.45
		1	14	23.50	22.05	22.48	22.46
		8	0	22.50	21.09	21.35	21.33
		8	4	22.50	21.13	21.36	21.28
		8	7	22.50	21.13	21.35	21.35
		15	0	22.50	21.37	21.32	21.36
	64QAM	1	0	22.50	20.84	21.51	21.55
		1	7	22.50	20.99	21.53	21.59
		1	14	22.50	20.89	21.47	21.58
		8	0	21.50	20.18	20.47	20.44
		8	4	21.50	20.09	20.39	20.36
		8	7	21.50	20.13	20.41	20.37
		15	0	21.50	20.27	20.36	20.37

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23035CH	23095CH	23155CH
5MHz	QPSK	1	0	24.50	23.14	23.60	23.35
		1	13	24.50	23.22	23.58	23.35
		1	24	24.50	23.32	23.58	23.33
		12	0	23.50	22.43	22.48	22.34
		12	6	23.50	22.46	22.47	22.32
		12	13	23.50	22.46	22.48	22.32
		25	0	23.50	22.39	22.37	22.32
	16QAM	1	0	23.50	22.13	22.53	22.48
		1	13	23.50	22.03	22.63	22.43
		1	24	23.50	22.14	22.41	22.32
		12	0	22.50	21.39	21.45	21.34
		12	6	22.50	21.34	21.45	21.44
		12	13	22.50	21.35	21.47	21.35
		25	0	22.50	21.34	21.33	21.26
	64QAM	1	0	22.50	20.88	21.59	21.41
		1	13	22.50	20.93	21.73	21.64
		1	24	22.50	21.10	21.54	21.56
		12	0	21.50	20.35	20.41	20.33
		12	6	21.50	20.36	20.48	20.40
		12	13	21.50	20.33	20.47	20.45
		25	0	21.50	20.32	20.36	20.28
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23060CH	23095CH	23130CH
10MHz	QPSK	1	0	24.50	23.38	23.64	23.50
		1	25	24.50	23.43	23.62	23.47
		1	49	24.50	23.33	23.60	23.48
		25	0	23.50	22.46	22.51	22.42
		25	13	23.50	22.48	22.52	22.39
		25	25	23.50	22.47	22.52	22.39
		50	0	23.50	22.43	22.42	22.34
	16QAM	1	0	23.50	22.37	22.64	22.53
		1	25	23.50	22.20	22.69	22.52
		1	49	23.50	22.32	22.67	22.57
		25	0	22.50	21.38	21.49	21.39
		25	13	22.50	21.42	21.48	21.40
		25	25	22.50	21.42	21.51	21.33
		50	0	22.50	21.37	21.35	21.33
	64QAM	1	0	22.50	21.34	21.82	21.61
		1	25	22.50	21.26	21.78	21.58
		1	49	22.50	21.33	21.80	21.72
		25	0	21.50	20.41	20.47	20.37
		25	13	21.50	20.41	20.46	20.36
		25	25	21.50	20.41	20.45	20.37
		50	0	21.50	20.42	20.37	20.33

Table 72: Conducted power measurement results of LTE Band 12 (Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23017CH	23095CH	23173CH
1.4MHz	QPSK	1	0	20.50	19.04	19.44	19.55
		1	3	20.50	19.08	19.46	19.54
		1	5	20.50	19.04	19.44	19.58
		3	0	20.50	19.04	19.39	19.54
		3	2	20.50	19.02	19.39	19.45
		3	3	20.50	19.02	19.48	19.50
		6	0	20.50	19.10	19.34	19.43
	16QAM	1	0	20.50	19.04	19.59	19.52
		1	3	20.50	19.02	19.54	19.49
		1	5	20.50	19.05	19.56	19.45
		3	0	20.50	19.04	19.22	19.45
		3	2	20.50	19.13	19.35	19.52
		3	3	20.50	19.12	19.46	19.42
		6	0	20.50	18.97	19.23	19.37
	64QAM	1	0	20.50	18.90	19.55	19.62
		1	3	20.50	19.02	19.53	19.56
		1	5	20.50	18.89	19.61	19.53
		3	0	20.50	18.90	19.40	19.56
		3	2	20.50	18.96	19.32	19.54
		3	3	20.50	18.92	19.39	19.48
		6	0	20.50	19.17	19.31	19.42
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23025CH	23095CH	23165CH
3MHz	QPSK	1	0	20.50	19.03	19.45	19.39
		1	7	20.50	19.03	19.44	19.40
		1	14	20.50	19.05	19.46	19.45
		8	0	20.50	19.21	19.40	19.39
		8	4	20.50	19.20	19.40	19.41
		8	7	20.50	19.19	19.42	19.38
		15	0	20.50	19.44	19.40	19.38
	16QAM	1	0	20.50	19.08	19.55	19.53
		1	7	20.50	19.05	19.48	19.54
		1	14	20.50	19.12	19.56	19.55
		8	0	20.50	19.09	19.44	19.39
		8	4	20.50	19.13	19.40	19.37
		8	7	20.50	19.00	19.33	19.30
		15	0	20.50	19.17	19.34	19.38
	64QAM	1	0	20.50	19.08	19.41	19.44
		1	7	20.50	19.06	19.60	19.44
		1	14	20.50	18.79	19.61	19.45
		8	0	20.50	19.18	19.42	19.38
		8	4	20.50	19.14	19.36	19.37
		8	7	20.50	19.04	19.38	19.37
		15	0	20.50	19.27	19.37	19.40

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23035CH	23095CH	23155CH
5MHz	QPSK	1	0	20.50	19.17	19.60	19.46
		1	13	20.50	19.14	19.59	19.41
		1	24	20.50	19.13	19.58	19.49
		12	0	20.50	19.40	19.46	19.41
		12	6	20.50	19.40	19.46	19.39
		12	13	20.50	19.39	19.44	19.41
		25	0	20.50	19.42	19.43	19.40
	16QAM	1	0	20.50	19.34	19.76	19.59
		1	13	20.50	19.31	19.78	19.58
		1	24	20.50	19.31	19.76	19.67
		12	0	20.50	19.32	19.45	19.35
		12	6	20.50	19.32	19.45	19.37
		12	13	20.50	19.32	19.45	19.35
		25	0	20.50	19.31	19.34	19.31
	64QAM	1	0	20.50	18.95	19.65	19.55
		1	13	20.50	18.93	19.64	19.60
		1	24	20.50	18.95	19.62	19.57
		12	0	20.50	19.33	19.44	19.36
		12	6	20.50	19.34	19.46	19.36
		12	13	20.50	19.33	19.44	19.35
		25	0	20.50	19.32	19.38	19.31
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23060CH	23095CH	23130CH
10MHz	QPSK	1	0	20.50	19.43	19.68	19.55
		1	25	20.50	19.29	19.66	19.55
		1	49	20.50	19.32	19.62	19.54
		25	0	20.50	19.45	19.61	19.45
		25	13	20.50	19.48	19.61	19.43
		25	25	20.50	19.48	19.59	19.45
		50	0	20.50	19.45	19.48	19.43
	16QAM	1	0	20.50	19.45	19.65	19.79
		1	25	20.50	19.27	19.74	19.51
		1	49	20.50	19.28	19.67	19.56
		25	0	20.50	19.39	19.51	19.36
		25	13	20.50	19.37	19.51	19.40
		25	25	20.50	19.40	19.53	19.34
		50	0	20.50	19.41	19.33	19.32
	64QAM	1	0	20.50	19.31	19.68	19.62
		1	25	20.50	19.20	19.71	19.68
		1	49	20.50	19.23	19.69	19.60
		25	0	20.50	19.43	19.52	19.36
		25	13	20.50	19.40	19.55	19.37
		25	25	20.50	19.44	19.51	19.38
		50	0	20.50	19.39	19.39	19.34

Table 73: Conducted power measurement results of LTE Band 12 (Receiver ON)

7.1.20 Conducted power measurements of LTE Band 12 (Main Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23017CH	23095CH	23173CH
1.4MHz	QPSK	1	0	25.00	23.70	23.79	23.80
		1	3	25.00	23.73	23.82	23.80
		1	5	25.00	23.84	23.85	23.79
		3	0	25.00	23.70	23.77	23.78
		3	2	25.00	23.64	23.80	23.75
		3	3	25.00	23.68	23.77	23.78
		6	0	24.00	22.65	22.73	22.84
	16QAM	1	0	24.00	22.75	22.91	22.80
		1	3	24.00	22.72	22.74	22.95
		1	5	24.00	22.79	22.97	22.87
		3	0	24.00	22.77	22.76	22.82
		3	2	24.00	22.68	22.74	22.81
		3	3	24.00	22.76	22.80	22.85
		6	0	23.00	21.62	21.68	21.71
	64QAM	1	0	23.00	22.03	22.05	22.06
		1	3	23.00	21.85	21.84	22.18
		1	5	23.00	21.95	22.05	22.00
		3	0	23.00	21.75	21.92	21.75
		3	2	23.00	21.73	21.76	21.71
		3	3	23.00	21.82	21.83	21.83
		6	0	22.00	20.68	20.76	20.65
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23025CH	23095CH	23165CH
3MHz	QPSK	1	0	25.00	23.76	23.90	23.83
		1	7	25.00	23.74	23.80	23.83
		1	14	25.00	23.75	23.91	23.86
		8	0	24.00	22.76	22.83	22.83
		8	4	24.00	22.75	22.81	22.81
		8	7	24.00	22.72	22.86	22.86
		15	0	24.00	22.75	22.73	22.72
	16QAM	1	0	24.00	22.83	23.00	22.90
		1	7	24.00	22.87	22.95	22.91
		1	14	24.00	22.91	22.89	22.83
		8	0	23.00	21.79	21.83	21.76
		8	4	23.00	21.71	21.71	21.75
		8	7	23.00	21.77	21.71	21.75
		15	0	23.00	21.75	21.69	21.67
	64QAM	1	0	23.00	21.94	21.96	21.99
		1	7	23.00	21.82	22.01	21.87
		1	14	23.00	21.94	21.95	22.01
		8	0	22.00	20.78	20.74	20.75
		8	4	22.00	20.75	20.75	20.77
		8	7	22.00	20.78	20.76	20.77
		15	0	22.00	20.73	20.72	20.75

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23035CH	23095CH	23155CH
5MHz	QPSK	1	0	25.00	23.76	23.82	23.81
		1	13	25.00	23.77	23.85	23.80
		1	24	25.00	23.78	23.87	23.80
		12	0	24.00	22.83	22.90	22.84
		12	6	24.00	22.84	22.85	22.84
		12	13	24.00	22.83	22.84	22.85
		25	0	24.00	22.78	22.80	22.80
	16QAM	1	0	24.00	23.12	23.17	23.15
		1	13	24.00	23.12	23.12	23.07
		1	24	24.00	23.07	23.00	23.05
		12	0	23.00	21.80	21.85	21.81
		12	6	23.00	21.81	21.83	21.84
		12	13	23.00	21.78	21.82	21.84
		25	0	23.00	21.71	21.70	21.73
	64QAM	1	0	23.00	21.90	21.99	21.86
		1	13	23.00	21.91	21.94	21.80
		1	24	23.00	21.86	22.02	21.88
		12	0	22.00	20.78	20.92	20.78
		12	6	22.00	20.79	20.82	20.78
		12	13	22.00	20.80	20.83	20.80
		25	0	22.00	20.77	20.77	20.74
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23060CH	23095CH	23130CH
10MHz	QPSK	1	0	25.00	23.89	23.85	23.89
		1	25	25.00	23.89	23.86	23.91
		1	49	25.00	23.85	23.85	23.89
		25	0	24.00	22.86	22.91	22.92
		25	13	24.00	22.81	22.87	22.82
		25	25	24.00	22.85	22.87	22.82
		50	0	24.00	22.78	22.78	22.80
	16QAM	1	0	24.00	22.87	22.88	22.82
		1	25	24.00	22.79	22.87	22.88
		1	49	24.00	22.92	22.87	22.85
		25	0	23.00	21.79	21.78	21.76
		25	13	23.00	21.78	21.78	21.77
		25	25	23.00	21.77	21.76	21.77
		50	0	23.00	21.75	21.77	21.72
	64QAM	1	0	23.00	22.04	22.09	21.86
		1	25	23.00	21.92	21.96	21.84
		1	49	23.00	21.95	21.97	22.04
		25	0	22.00	20.83	20.83	20.83
		25	13	22.00	20.80	20.84	20.83
		25	25	22.00	20.78	20.84	20.85
		50	0	22.00	20.79	20.79	20.73

Table 74: Conducted power measurement results of LTE Band 12

7.1.21 Conducted power measurements of LTE Band 17 (Second Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23755CH	23790CH	23825CH
5MHz	QPSK	1	0	24.50	23.57	23.49	23.40
		1	13	24.50	23.59	23.57	23.38
		1	24	24.50	23.60	23.57	23.41
		12	0	23.50	22.59	22.46	22.46
		12	6	23.50	22.62	22.46	22.40
		12	13	23.50	22.62	22.45	22.40
		25	0	23.50	22.46	22.32	22.37
	16QAM	1	0	23.50	22.69	22.55	22.44
		1	13	23.50	22.63	22.67	22.49
		1	24	23.50	22.67	22.56	22.43
		12	0	22.50	21.45	21.37	21.19
		12	6	22.50	21.43	21.38	21.19
		12	13	22.50	21.43	21.38	21.19
		25	0	22.50	21.37	21.08	21.28
	64QAM	1	0	22.50	21.54	21.51	21.35
		1	13	22.50	21.59	21.58	21.40
		1	24	22.50	21.71	21.52	21.32
		12	0	21.50	20.55	20.45	20.37
		12	6	21.50	20.58	20.50	20.47
		12	13	21.50	20.58	20.41	20.38
		25	0	21.50	20.41	20.32	20.35
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23780CH	23790CH	23800CH
10MHz	QPSK	1	0	24.50	23.75	23.64	23.60
		1	25	24.50	23.75	23.65	23.60
		1	49	24.50	23.69	23.68	23.65
		25	0	23.50	22.44	22.49	22.45
		25	13	23.50	22.45	22.52	22.48
		25	25	23.50	22.45	22.49	22.44
		50	0	23.50	22.39	22.43	22.41
	16QAM	1	0	23.50	22.69	22.61	22.66
		1	25	23.50	22.70	22.57	22.69
		1	49	23.50	22.67	22.51	22.65
		25	0	22.50	21.39	21.38	21.31
		25	13	22.50	21.39	21.37	21.31
		25	25	22.50	21.37	21.37	21.31
		50	0	22.50	21.23	21.25	21.20
	64QAM	1	0	22.50	21.71	21.64	21.54
		1	25	22.50	21.66	21.58	21.46
		1	49	22.50	21.63	21.57	21.53
		25	0	21.50	20.43	20.46	20.37
		25	13	21.50	20.45	20.44	20.37
		25	25	21.50	20.43	20.44	20.45
		50	0	21.50	20.36	20.38	20.35

Table 75: Conducted power measurement results of LTE Band 17 (Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23755CH	23790CH	23825CH
5MHz	QPSK	1	0	20.50	19.64	19.46	19.43
		1	13	20.50	19.63	19.46	19.37
		1	24	20.50	19.50	19.46	19.36
		12	0	20.50	19.56	19.50	19.39
		12	6	20.50	19.57	19.47	19.45
		12	13	20.50	19.56	19.42	19.49
		25	0	20.50	19.51	19.33	19.35
	16QAM	1	0	20.50	19.74	19.63	19.62
		1	13	20.50	19.62	19.72	19.58
		1	24	20.50	19.74	19.60	19.71
		12	0	20.50	19.55	19.41	19.27
		12	6	20.50	19.53	19.36	19.36
		12	13	20.50	19.50	19.44	19.27
		25	0	20.50	19.44	19.33	19.35
	64QAM	1	0	20.50	19.66	19.59	19.46
		1	13	20.50	19.76	19.56	19.46
		1	24	20.50	19.73	19.55	19.54
		12	0	20.50	19.58	19.41	19.34
		12	6	20.50	19.55	19.43	19.49
		12	13	20.50	19.59	19.51	19.37
		25	0	20.50	19.38	19.19	19.37
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23780CH	23790CH	23800CH
10MHz	QPSK	1	0	20.50	19.64	19.59	19.57
		1	25	20.50	19.60	19.56	19.59
		1	49	20.50	19.64	19.58	19.63
		25	0	20.50	19.43	19.47	19.44
		25	13	20.50	19.45	19.49	19.43
		25	25	20.50	19.43	19.47	19.43
		50	0	20.50	19.38	19.43	19.42
	16QAM	1	0	20.50	19.59	19.61	19.65
		1	25	20.50	19.54	19.69	19.61
		1	49	20.50	19.59	19.56	19.55
		25	0	20.50	19.51	19.48	19.35
		25	13	20.50	19.49	19.44	19.39
		25	25	20.50	19.47	19.44	19.36
		50	0	20.50	19.38	19.32	19.33
	64QAM	1	0	20.50	19.81	19.80	19.79
		1	25	20.50	19.79	19.75	19.79
		1	49	20.50	19.91	19.79	19.75
		25	0	20.50	19.41	19.42	19.39
		25	13	20.50	19.44	19.42	19.44
		25	25	20.50	19.43	19.38	19.41
		50	0	20.50	19.36	19.42	19.43

Table 76: Conducted power measurement results of LTE Band 17 (Receiver ON)

7.1.22 Conducted power measurements of LTE Band 17 (Main Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23755CH	23790CH	23825CH
5MHz	QPSK	1	0	25.00	23.94	23.80	23.81
		1	13	25.00	23.85	23.78	23.82
		1	24	25.00	23.82	23.80	23.88
		12	0	24.00	22.80	22.83	22.80
		12	6	24.00	22.79	22.81	22.85
		12	13	24.00	22.78	22.84	22.80
		25	0	24.00	22.71	22.88	22.82
	16QAM	1	0	24.00	22.94	22.97	22.98
		1	13	24.00	22.96	23.00	23.01
		1	24	24.00	22.98	23.00	23.02
		12	0	23.00	21.80	21.87	21.75
		12	6	23.00	21.85	21.89	21.72
		12	13	23.00	21.80	21.89	21.78
		25	0	23.00	21.71	21.73	21.71
	64QAM	1	0	23.00	22.01	22.02	21.98
		1	13	23.00	22.08	22.01	22.16
		1	24	23.00	21.88	21.94	22.05
		12	0	22.00	20.89	20.80	20.78
		12	6	22.00	20.80	20.83	20.79
		12	13	22.00	20.80	20.81	20.78
		25	0	22.00	20.76	20.76	20.72
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	23780CH	23790CH	23800CH
10MHz	QPSK	1	0	25.00	23.96	23.90	23.81
		1	25	25.00	23.83	23.96	23.85
		1	49	25.00	23.99	23.84	23.85
		25	0	24.00	22.90	22.91	22.84
		25	13	24.00	22.90	22.82	22.93
		25	25	24.00	22.78	22.92	22.79
		50	0	24.00	22.78	22.86	22.80
	16QAM	1	0	24.00	22.95	22.97	22.96
		1	25	24.00	22.89	22.89	22.79
		1	49	24.00	22.89	22.92	22.86
		25	0	23.00	21.73	21.77	21.65
		25	13	23.00	21.75	21.68	21.78
		25	25	23.00	21.69	21.67	21.70
		50	0	23.00	21.73	21.70	21.73
	64QAM	1	0	23.00	21.98	21.95	21.82
		1	25	23.00	21.87	21.85	21.83
		1	49	23.00	21.73	21.84	21.97
		25	0	22.00	20.69	20.77	20.82
		25	13	22.00	20.77	20.76	20.75
		25	25	22.00	20.79	20.72	20.81
		50	0	22.00	20.67	20.70	20.74

Table 77: Conducted power measurement results of LTE Band 17

7.1.23 Conducted power measurements of LTE Band 26 (Second Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26697CH	26865CH	27033CH
1.4MHz	QPSK	1	0	24.50	23.47	23.52	23.18
		1	3	24.50	23.53	23.48	23.16
		1	5	24.50	23.54	23.45	23.19
		3	0	23.50	23.41	23.37	23.17
		3	2	23.50	23.45	23.33	23.20
		3	3	23.50	23.42	23.35	23.14
		6	0	23.50	22.48	22.36	22.14
	16QAM	1	0	23.50	22.63	22.41	22.24
		1	3	23.50	22.57	22.40	22.15
		1	5	23.50	22.41	22.52	22.12
		3	0	22.50	22.45	22.43	22.11
		3	2	22.50	22.39	22.39	22.16
		3	3	22.50	22.45	22.41	22.18
		6	0	22.50	21.39	21.35	21.20
	64QAM	1	0	22.50	21.70	21.63	21.32
		1	3	22.50	21.67	21.63	21.38
		1	5	22.50	21.66	21.53	21.30
		3	0	22.50	21.54	21.46	21.05
		3	2	22.50	21.54	21.49	21.34
		3	3	22.50	21.48	21.54	21.23
		6	0	21.50	20.48	20.31	20.22
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26705CH	26865CH	27025CH
3MHz	QPSK	1	0	24.50	23.48	23.44	23.23
		1	7	24.50	23.42	23.46	23.23
		1	14	24.50	23.53	23.53	23.22
		8	0	23.50	22.45	22.47	22.25
		8	4	23.50	22.43	22.46	22.21
		8	7	23.50	22.46	22.46	22.21
		15	0	23.50	22.42	22.41	22.28
	16QAM	1	0	23.50	22.63	22.59	22.32
		1	7	23.50	22.60	22.62	22.34
		1	14	23.50	22.67	22.53	22.36
		8	0	22.50	21.39	21.45	21.20
		8	4	22.50	21.39	21.42	21.19
		8	7	22.50	21.35	21.43	21.20
		15	0	22.50	21.39	21.34	21.16
	64QAM	1	0	22.50	21.74	21.55	21.35
		1	7	22.50	21.69	21.56	21.34
		1	14	22.50	21.80	21.63	21.45
		8	0	21.50	20.46	20.42	20.19
		8	4	21.50	20.39	20.44	20.24
		8	7	21.50	20.46	20.38	20.15

		15	0	21.50	20.34	20.35	20.19
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Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26715CH	26865CH	27015CH
5MHz	QPSK	1	0	24.50	23.48	23.49	23.28
		1	13	24.50	23.48	23.48	23.30
		1	24	24.50	23.57	23.48	23.29
		12	0	23.50	22.52	22.63	22.35
		12	6	23.50	22.51	22.60	22.34
		12	13	23.50	22.51	22.61	22.35
		25	0	23.50	22.41	22.48	22.30
	16QAM	1	0	23.50	22.56	22.57	22.22
		1	13	23.50	22.77	22.56	22.41
		1	24	23.50	22.73	22.72	22.38
		12	0	22.50	21.45	21.59	21.31
		12	6	22.50	21.56	21.56	21.32
		12	13	22.50	21.47	21.55	21.33
		25	0	22.50	21.32	21.39	21.24
	64QAM	1	0	22.50	21.71	21.67	21.46
		1	13	22.50	21.60	21.61	21.37
		1	24	22.50	21.67	21.65	21.44
		12	0	21.50	20.52	20.54	20.28
		12	6	21.50	20.41	20.52	20.31
		12	13	21.50	20.43	20.56	20.26
		25	0	21.50	20.30	20.36	20.27
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26750CH	26865CH	26990CH
10MHz	QPSK	1	0	24.50	23.36	23.43	22.98
		1	25	24.50	23.38	23.56	23.01
		1	49	24.50	23.43	23.54	23.06
		25	0	23.50	22.05	22.60	22.31
		25	13	23.50	22.13	22.60	22.31
		25	25	23.50	22.18	22.62	22.31
		50	0	23.50	22.19	22.44	22.27
	16QAM	1	0	23.50	22.51	22.57	21.97
		1	25	23.50	22.49	22.58	21.93
		1	49	23.50	22.53	22.57	22.05
		25	0	22.50	20.92	21.49	21.24
		25	13	22.50	20.94	21.47	21.27
		25	25	22.50	20.96	21.47	21.27
		50	0	22.50	21.17	21.36	21.22
	64QAM	1	0	22.50	21.58	21.71	21.20
		1	25	22.50	21.61	21.75	21.21
		1	49	22.50	21.52	21.71	21.24
		25	0	21.50	19.87	20.52	20.25
		25	13	21.50	19.92	20.56	20.28
		25	25	21.50	19.88	20.55	20.25
		50	0	21.50	20.14	20.35	20.25

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26775CH	26865CH	26965CH
15MHz	QPSK	1	0	24.50	23.33	23.55	23.38
		1	38	24.50	23.39	23.51	23.36
		1	74	24.50	23.35	23.51	23.36
		36	0	23.50	22.39	22.60	22.24
		36	18	23.50	22.39	22.60	22.24
		36	39	23.50	22.39	22.60	22.23
		75	0	23.50	22.48	22.45	22.33
	16QAM	1	0	23.50	22.51	22.76	22.46
		1	38	23.50	22.45	22.77	22.63
		1	74	23.50	22.53	22.67	22.46
		36	0	22.50	21.30	21.57	21.24
		36	18	22.50	21.33	21.54	21.37
		36	39	22.50	21.33	21.55	21.27
		75	0	22.50	21.43	21.37	21.25
	64QAM	1	0	22.50	21.55	21.62	21.44
		1	38	22.50	21.72	21.63	21.45
		1	74	22.50	21.65	21.56	21.40
		36	0	21.50	20.27	20.55	20.08
		36	18	21.50	20.27	20.57	20.11
		36	39	21.50	20.23	20.56	20.11
		75	0	21.50	20.42	20.43	20.26

Table 78: Conducted power measurement results of LTE Band 26 (Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26697CH	26865CH	27033CH
1.4MHz	QPSK	1	0	20.00	19.00	19.02	18.77
		1	3	20.00	19.02	19.02	18.78
		1	5	20.00	19.04	18.97	18.76
		3	0	20.00	18.95	18.97	18.66
		3	2	20.00	18.92	18.94	18.70
		3	3	20.00	19.00	18.97	18.72
		6	0	20.00	18.92	18.97	18.64
	16QAM	1	0	20.00	19.06	19.03	18.79
		1	3	20.00	19.06	19.06	18.74
		1	5	20.00	19.04	19.00	18.77
		3	0	20.00	18.97	18.93	18.58
		3	2	20.00	18.94	18.83	18.74
		3	3	20.00	18.87	18.92	18.80
		6	0	20.00	18.86	18.86	18.67
	64QAM	1	0	20.00	19.00	19.04	18.83
		1	3	20.00	19.00	19.16	18.90
		1	5	20.00	18.95	19.11	18.78
		3	0	20.00	19.02	18.92	18.70
		3	2	20.00	19.15	18.92	18.76
		3	3	20.00	18.96	18.89	18.73
		6	0	20.00	18.94	18.97	18.69
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26705CH	26865CH	27025CH
3MHz	QPSK	1	0	20.00	19.06	19.02	18.91
		1	7	20.00	19.04	19.02	18.91
		1	14	20.00	19.03	18.98	18.91
		8	0	20.00	18.97	18.99	18.79
		8	4	20.00	19.01	19.00	18.82
		8	7	20.00	18.95	18.91	18.75
		15	0	20.00	19.03	18.99	18.71
	16QAM	1	0	20.00	19.16	19.22	19.05
		1	7	20.00	19.22	19.15	19.09
		1	14	20.00	19.10	19.22	19.03
		8	0	20.00	18.85	18.93	18.71
		8	4	20.00	18.84	18.91	18.73
		8	7	20.00	18.88	18.87	18.71
		15	0	20.00	18.99	18.94	18.69
	64QAM	1	0	20.00	19.13	19.08	19.08
		1	7	20.00	19.16	19.12	19.07
		1	14	20.00	19.26	19.11	18.97
		8	0	20.00	18.96	18.96	18.83
		8	4	20.00	18.98	18.93	18.80
		8	7	20.00	18.95	19.01	18.84
		15	0	20.00	18.96	18.98	18.70

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26715CH	26865CH	27015CH
5MHz	QPSK	1	0	20.00	19.05	19.04	18.90
		1	13	20.00	19.06	19.05	18.91
		1	24	20.00	19.10	19.02	18.90
		12	0	20.00	19.03	19.09	18.94
		12	6	20.00	19.04	19.08	18.94
		12	13	20.00	19.05	19.05	18.95
		25	0	20.00	18.96	19.06	18.87
	16QAM	1	0	20.00	19.29	19.08	19.12
		1	13	20.00	19.26	19.27	19.10
		1	24	20.00	19.35	19.30	19.03
		12	0	20.00	19.05	19.05	18.97
		12	6	20.00	19.02	19.05	18.90
		12	13	20.00	19.04	19.06	18.92
		25	0	20.00	19.00	18.86	18.85
	64QAM	1	0	20.00	19.13	19.25	19.03
		1	13	20.00	19.12	19.19	19.01
		1	24	20.00	19.16	19.25	19.02
		12	0	20.00	19.00	19.05	18.94
		12	6	20.00	19.04	19.09	18.91
		12	13	20.00	19.02	19.04	18.95
		25	0	20.00	18.91	19.00	18.83
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26750CH	26865CH	26990CH
10MHz	QPSK	1	0	20.00	19.02	19.10	18.57
		1	25	20.00	19.03	19.12	18.60
		1	49	20.00	19.02	19.13	18.66
		25	0	20.00	18.63	19.10	18.80
		25	13	20.00	18.63	19.10	18.80
		25	25	20.00	18.62	19.11	18.80
		50	0	20.00	18.86	19.05	18.88
	16QAM	1	0	20.00	19.08	19.17	18.77
		1	25	20.00	19.00	19.08	18.70
		1	49	20.00	19.13	19.06	18.74
		25	0	20.00	18.58	18.98	18.74
		25	13	20.00	18.61	18.99	18.73
		25	25	20.00	18.64	19.00	18.74
		50	0	20.00	18.93	18.85	18.83
	64QAM	1	0	20.00	19.27	19.22	18.75
		1	25	20.00	19.20	19.14	18.81
		1	49	20.00	19.21	19.21	18.81
		25	0	20.00	18.72	18.95	18.75
		25	13	20.00	18.66	19.01	18.77
		25	25	20.00	18.63	19.04	18.79
		50	0	20.00	18.87	18.99	18.88

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26775CH	26865CH	26965CH
15MHz	QPSK	1	0	20.00	19.02	18.99	18.93
		1	38	20.00	19.09	19.03	18.93
		1	74	20.00	19.03	19.02	18.93
		36	0	20.00	18.98	19.14	18.84
		36	18	20.00	18.93	19.15	18.90
		36	39	20.00	18.92	19.15	18.86
		75	0	20.00	19.01	19.03	18.80
	16QAM	1	0	20.00	19.25	19.16	19.03
		1	38	20.00	19.25	19.16	19.04
		1	74	20.00	19.21	19.08	19.07
		36	0	20.00	19.00	19.03	18.79
		36	18	20.00	18.92	19.10	18.80
		36	39	20.00	18.92	19.09	18.78
		75	0	20.00	18.92	18.95	18.77
	64QAM	1	0	20.00	19.08	19.18	18.96
		1	38	20.00	19.07	19.34	18.94
		1	74	20.00	19.15	19.21	19.09
		36	0	20.00	18.95	19.10	18.75
		36	18	20.00	18.92	19.14	18.74
		36	39	20.00	18.92	19.13	18.75
		75	0	20.00	18.94	18.94	18.80

Table 79: Conducted power measurement results of LTE Band 26 (Receiver ON)

7.1.24 Conducted power measurements of LTE Band 26 (Main Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26697CH	26865CH	27033CH
1.4MHz	QPSK	1	0	25.00	23.84	23.84	23.64
		1	3	25.00	23.90	23.84	23.63
		1	5	25.00	23.88	23.83	23.62
		3	0	25.00	23.83	23.69	23.54
		3	2	25.00	23.82	23.72	23.57
		3	3	25.00	23.93	23.71	23.55
		6	0	24.00	22.79	22.78	22.53
	16QAM	1	0	24.00	22.90	22.79	22.53
		1	3	24.00	22.68	22.84	22.62
		1	5	24.00	22.72	22.90	22.73
		3	0	24.00	22.71	22.72	22.62
		3	2	24.00	22.73	22.65	22.48
		3	3	24.00	22.74	22.72	22.69
		6	0	23.00	21.66	21.63	21.58
	64QAM	1	0	23.00	21.81	21.76	21.74
		1	3	23.00	21.82	21.75	21.82
		1	5	23.00	21.92	22.03	21.64
		3	0	23.00	21.85	21.79	21.59
		3	2	23.00	21.82	21.82	21.68
		3	3	23.00	21.79	21.74	21.57
		6	0	22.00	20.68	20.65	20.54
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26705CH	26865CH	27025CH
3MHz	QPSK	1	0	25.00	23.79	23.79	23.69
		1	7	25.00	23.64	23.79	23.71
		1	14	25.00	23.61	23.92	23.69
		8	0	24.00	22.72	22.78	22.64
		8	4	24.00	22.74	22.79	22.63
		8	7	24.00	22.74	22.76	22.67
		15	0	24.00	22.85	22.83	22.67
	16QAM	1	0	24.00	23.04	22.84	22.80
		1	7	24.00	22.90	22.85	22.90
		1	14	24.00	23.12	22.93	22.88
		8	0	23.00	21.86	21.77	21.59
		8	4	23.00	21.89	21.84	21.62
		8	7	23.00	21.87	21.84	21.61
		15	0	23.00	21.78	21.76	21.64
	64QAM	1	0	23.00	22.07	21.93	21.81
		1	7	23.00	22.23	21.99	21.63
		1	14	23.00	21.97	21.90	21.91
		8	0	22.00	20.96	20.79	20.63
		8	4	22.00	20.87	20.81	20.62
		8	7	22.00	20.87	20.81	20.61
		15	0	22.00	20.89	20.81	20.66

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26715CH	26865CH	27015CH
5MHz	QPSK	1	0	25.00	24.02	23.83	23.79
		1	13	25.00	23.91	23.83	23.72
		1	24	25.00	24.05	23.83	23.79
		12	0	24.00	22.96	22.91	22.78
		12	6	24.00	22.94	22.92	22.73
		12	13	24.00	22.96	22.92	22.76
		25	0	24.00	22.90	22.83	22.67
	16QAM	1	0	24.00	23.12	22.94	22.92
		1	13	24.00	23.05	22.84	22.94
		1	24	24.00	23.19	22.95	22.95
		12	0	23.00	21.97	21.96	21.71
		12	6	23.00	21.93	21.97	21.65
		12	13	23.00	21.94	21.95	21.75
		25	0	23.00	21.82	21.73	21.63
	64QAM	1	0	23.00	22.01	21.92	21.78
		1	13	23.00	22.01	21.89	21.83
		1	24	23.00	22.06	21.95	21.79
		12	0	22.00	20.88	20.84	20.74
		12	6	22.00	20.88	20.82	20.72
		12	13	22.00	20.94	20.83	20.74
		25	0	22.00	20.84	20.85	20.70
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26750CH	26865CH	26990CH
10MHz	QPSK	1	0	25.00	23.98	23.89	23.70
		1	25	25.00	23.95	23.91	23.79
		1	49	25.00	23.98	23.91	23.78
		25	0	24.00	22.94	22.83	22.77
		25	13	24.00	22.98	22.85	22.75
		25	25	24.00	22.95	22.89	22.76
		50	0	24.00	22.84	22.81	22.73
	16QAM	1	0	24.00	22.94	22.86	22.80
		1	25	24.00	22.96	22.82	22.68
		1	49	24.00	22.95	22.85	22.92
		25	0	23.00	21.89	21.81	21.67
		25	13	23.00	21.87	21.77	21.66
		25	25	23.00	21.84	21.80	21.70
		50	0	23.00	21.79	21.81	21.63
	64QAM	1	0	23.00	22.05	21.99	21.85
		1	25	23.00	22.00	21.99	21.84
		1	49	23.00	22.06	21.91	21.96
		25	0	22.00	20.89	20.82	20.71
		25	13	22.00	20.92	20.82	20.71
		25	25	22.00	20.89	20.83	20.69
		50	0	22.00	20.91	20.77	20.67

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	26775CH	26865CH	26965CH
15MHz	QPSK	1	0	25.00	23.95	23.93	23.89
		1	38	25.00	24.01	23.95	23.85
		1	74	25.00	24.01	23.92	23.87
		36	0	24.00	22.99	22.94	22.89
		36	18	24.00	23.01	22.93	22.79
		36	39	24.00	23.01	22.95	22.79
		75	0	24.00	22.91	22.84	22.80
	16QAM	1	0	24.00	23.08	22.54	22.90
		1	38	24.00	23.00	22.72	22.90
		1	74	24.00	22.98	22.73	23.01
		36	0	23.00	21.86	21.81	21.71
		36	18	23.00	21.82	21.80	21.69
		36	39	23.00	21.82	21.82	21.68
		75	0	23.00	21.76	21.70	21.64
	64QAM	1	0	23.00	21.96	21.73	21.89
		1	38	23.00	21.94	21.63	21.93
		1	74	23.00	22.06	21.75	21.95
		36	0	22.00	20.84	20.79	20.80
		36	18	22.00	20.89	20.77	20.68
		36	39	22.00	20.85	20.81	20.78
		75	0	22.00	20.77	20.73	20.69

Table 80: Conducted power measurement results of LTE Band 26

7.1.25 Conducted power measurements of LTE Band 38 (Second Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37775CH	38000CH	38225CH
5MHz	QPSK	1	0	21.00	20.17	20.28	20.27
		1	13	21.00	20.18	20.27	20.28
		1	24	21.00	20.20	20.26	20.28
		12	0	21.00	20.19	20.29	20.30
		12	6	21.00	20.21	20.30	20.29
		12	13	21.00	20.21	20.30	20.29
		25	0	21.00	20.16	20.23	20.24
	16QAM	1	0	21.00	20.24	20.34	20.38
		1	13	21.00	20.24	20.31	20.38
		1	24	21.00	20.25	20.34	20.40
		12	0	21.00	20.12	20.20	20.13
		12	6	21.00	20.12	20.19	20.14
		12	13	21.00	20.11	20.19	20.13
		25	0	21.00	20.09	20.18	20.21
	64QAM	1	0	21.00	20.22	20.31	20.32
		1	13	21.00	20.21	20.30	20.31
		1	24	21.00	20.22	20.29	20.31
		12	0	21.00	20.24	20.31	20.34
		12	6	21.00	20.25	20.31	20.34
		12	13	21.00	20.23	20.30	20.34
		25	0	21.00	20.11	20.17	20.19
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37800CH	38000CH	38200CH
10MHz	QPSK	1	0	21.00	20.24	20.36	20.40
		1	25	21.00	20.23	20.35	20.40
		1	49	21.00	20.22	20.34	20.40
		25	0	21.00	20.17	20.23	20.31
		25	13	21.00	20.17	20.23	20.31
		25	25	21.00	20.18	20.23	20.31
		50	0	21.00	20.08	20.21	20.23
	16QAM	1	0	21.00	20.30	20.40	20.42
		1	25	21.00	20.31	20.39	20.41
		1	49	21.00	20.28	20.38	20.41
		25	0	21.00	20.02	20.12	20.14
		25	13	21.00	20.03	20.12	20.14
		25	25	21.00	20.01	20.12	20.14
		50	0	21.00	20.01	20.11	20.17
	64QAM	1	0	21.00	20.22	20.34	20.41
		1	25	21.00	20.23	20.35	20.40
		1	49	21.00	20.27	20.33	20.41
		25	0	21.00	20.14	20.21	20.26
		25	13	21.00	20.13	20.20	20.26
		25	25	21.00	20.13	20.20	20.26
		50	0	21.00	20.03	20.14	20.18

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37825CH	38000CH	38175CH
15MHz	QPSK	1	0	21.00	20.32	20.36	20.43
		1	38	21.00	20.31	20.36	20.42
		1	74	21.00	20.30	20.36	20.43
		36	0	21.00	20.26	20.36	20.39
		36	18	21.00	20.26	20.36	20.39
		36	39	21.00	20.26	20.36	20.40
		75	0	21.00	20.19	20.27	20.27
	16QAM	1	0	21.00	20.39	20.44	20.51
		1	38	21.00	20.39	20.44	20.52
		1	74	21.00	20.39	20.44	20.52
		36	0	21.00	20.19	20.31	20.33
		36	18	21.00	20.19	20.30	20.34
		36	39	21.00	20.19	20.30	20.34
		75	0	21.00	20.07	20.20	20.19
	64QAM	1	0	21.00	20.23	20.35	20.52
		1	38	21.00	20.28	20.34	20.51
		1	74	21.00	20.26	20.33	20.51
		36	0	21.00	20.20	20.31	20.35
		36	18	21.00	20.20	20.31	20.35
		36	39	21.00	20.20	20.31	20.36
		75	0	21.00	20.15	20.25	20.28
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37850CH	38000CH	38150CH
20MHz	QPSK	1	0	21.00	20.28	20.37	20.41
		1	50	21.00	20.27	20.36	20.40
		1	99	21.00	20.27	20.35	20.40
		50	0	21.00	20.27	20.36	20.43
		50	25	21.00	20.29	20.37	20.42
		50	50	21.00	20.27	20.36	20.42
		100	0	21.00	20.24	20.29	20.33
	16QAM	1	0	21.00	20.35	20.41	20.45
		1	50	21.00	20.36	20.39	20.43
		1	99	21.00	20.36	20.39	20.44
		50	0	21.00	20.29	20.38	20.43
		50	25	21.00	20.31	20.38	20.44
		50	50	21.00	20.30	20.38	20.44
		100	0	21.00	20.22	20.21	20.24
	64QAM	1	0	21.00	20.27	20.38	20.38
		1	50	21.00	20.30	20.37	20.39
		1	99	21.00	20.30	20.38	20.39
		50	0	21.00	20.22	20.30	20.30
		50	25	21.00	20.22	20.30	20.30
		50	50	21.00	20.22	20.30	20.30
		100	0	21.00	20.27	20.26	20.27

Table 81: Conducted power measurement results of LTE Band 38 (Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37775CH	38000CH	38225CH
5MHz	QPSK	1	0	14.50	13.72	13.76	13.79
		1	13	14.50	13.71	13.76	13.80
		1	24	14.50	13.71	13.77	13.80
		12	0	14.50	13.77	13.87	13.82
		12	6	14.50	13.76	13.86	13.82
		12	13	14.50	13.76	13.88	13.81
		25	0	14.50	13.71	13.76	13.74
	16QAM	1	0	14.50	13.82	13.91	13.93
		1	13	14.50	13.82	13.89	13.94
		1	24	14.50	13.83	13.88	13.93
		12	0	14.50	13.71	13.74	13.72
		12	6	14.50	13.71	13.75	13.72
		12	13	14.50	13.71	13.74	13.72
		25	0	14.50	13.69	13.74	13.75
	64QAM	1	0	14.50	13.93	13.83	13.88
		1	13	14.50	13.93	13.82	13.89
		1	24	14.50	13.93	13.83	13.89
		12	0	14.50	13.91	13.85	13.91
		12	6	14.50	13.90	13.84	13.90
		12	13	14.50	13.90	13.85	13.91
		25	0	14.50	13.72	13.70	13.79
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37800CH	38000CH	38200CH
10MHz	QPSK	1	0	14.50	13.90	13.91	13.91
		1	25	14.50	13.90	13.90	13.92
		1	49	14.50	13.90	13.90	13.92
		25	0	14.50	13.79	13.86	13.87
		25	13	14.50	13.79	13.86	13.86
		25	25	14.50	13.79	13.86	13.86
		50	0	14.50	13.68	13.78	13.79
	16QAM	1	0	14.50	13.95	13.97	14.02
		1	25	14.50	13.94	13.96	14.01
		1	49	14.50	13.94	13.96	14.01
		25	0	14.50	13.71	13.74	13.71
		25	13	14.50	13.70	13.73	13.72
		25	25	14.50	13.71	13.74	13.72
		50	0	14.50	13.60	13.70	13.72
	64QAM	1	0	14.50	14.02	13.95	14.10
		1	25	14.50	14.04	13.96	14.12
		1	49	14.50	14.01	13.97	14.10
		25	0	14.50	13.76	13.78	13.90
		25	13	14.50	13.77	13.77	13.91
		25	25	14.50	13.77	13.77	13.91
		50	0	14.50	13.61	13.68	13.75

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37825CH	38000CH	38175CH
15MHz	QPSK	1	0	14.50	13.96	13.95	14.01
		1	38	14.50	13.96	13.94	14.01
		1	74	14.50	13.96	13.96	14.01
		36	0	14.50	13.86	13.94	13.97
		36	18	14.50	13.86	13.94	13.99
		36	39	14.50	13.86	13.94	13.97
		75	0	14.50	13.77	13.40	13.88
	16QAM	1	0	14.50	14.07	14.11	14.13
		1	38	14.50	14.07	14.11	14.13
		1	74	14.50	14.07	14.10	14.13
		36	0	14.50	13.92	13.91	13.97
		36	18	14.50	13.92	13.92	13.96
		36	39	14.50	13.92	13.91	13.96
		75	0	14.50	13.81	13.75	13.79
	64QAM	1	0	14.50	14.11	14.03	14.15
		1	38	14.50	14.09	14.03	14.15
		1	74	14.50	14.09	14.04	14.15
		36	0	14.50	13.78	13.84	13.91
		36	18	14.50	13.79	13.84	13.91
		36	39	14.50	13.79	13.84	13.92
		75	0	14.50	13.70	13.76	13.90
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37850CH	38000CH	38150CH
20MHz	QPSK	1	0	14.50	13.84	13.85	13.90
		1	50	14.50	13.85	13.88	13.91
		1	99	14.50	13.83	13.86	13.90
		50	0	14.50	14.01	13.95	14.05
		50	25	14.50	14.00	13.96	14.05
		50	50	14.50	13.54	13.96	14.05
		100	0	14.50	13.87	13.87	13.88
	16QAM	1	0	14.50	13.97	13.98	13.98
		1	50	14.50	13.98	13.99	14.00
		1	99	14.50	13.94	13.99	14.00
		50	0	14.50	14.08	14.03	14.12
		50	25	14.50	14.08	14.04	14.13
		50	50	14.50	14.08	14.04	14.12
		100	0	14.50	13.86	13.80	13.81
	64QAM	1	0	14.50	14.06	14.03	13.99
		1	50	14.50	14.06	14.02	13.98
		1	99	14.50	14.03	14.04	13.98
		50	0	14.50	13.80	13.82	13.84
		50	25	14.50	13.80	13.82	13.84
		50	50	14.50	13.80	13.82	13.83
		100	0	14.50	13.71	13.80	13.83

Table 82: Conducted power measurement results of LTE Band 38 (Receiver ON)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37775CH	38000CH	38225CH
5MHz	QPSK	1	0	13.50	12.66	12.65	12.81
		1	13	13.50	12.65	12.65	12.82
		1	24	13.50	12.64	12.65	12.82
		12	0	13.50	12.57	12.69	12.74
		12	6	13.50	12.54	12.69	12.75
		12	13	13.50	12.52	12.69	12.75
		25	0	13.50	12.52	12.66	12.72
	16QAM	1	0	13.50	12.60	12.61	12.87
		1	13	13.50	12.60	12.61	12.87
		1	24	13.50	12.60	12.61	12.87
		12	0	13.50	12.47	12.61	12.69
		12	6	13.50	12.47	12.61	12.70
		12	13	13.50	12.47	12.61	12.70
		25	0	13.50	12.39	12.55	12.61
	64QAM	1	0	13.50	12.63	12.74	12.82
		1	13	13.50	12.63	12.73	12.82
		1	24	13.50	12.62	12.75	12.81
		12	0	13.50	12.48	12.63	12.66
		12	6	13.50	12.45	12.63	12.66
		12	13	13.50	12.47	12.63	12.66
		25	0	13.50	12.51	12.65	12.67
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37800CH	38000CH	38200CH
10MHz	QPSK	1	0	13.50	12.70	12.69	13.01
		1	25	13.50	12.70	12.70	13.01
		1	49	13.50	12.70	12.70	13.01
		25	0	13.50	12.57	12.75	12.88
		25	13	13.50	12.56	12.75	12.88
		25	25	13.50	12.56	12.75	12.88
		50	0	13.50	12.54	12.66	12.72
	16QAM	1	0	13.50	12.76	12.84	13.10
		1	25	13.50	12.76	12.85	13.11
		1	49	13.50	12.77	12.84	13.11
		25	0	13.50	12.55	12.73	12.85
		25	13	13.50	12.57	12.73	12.85
		25	25	13.50	12.57	12.73	12.85
		50	0	13.50	12.44	12.60	12.67
	64QAM	1	0	13.50	12.72	12.72	13.02
		1	25	13.50	12.72	12.72	13.02
		1	49	13.50	12.72	12.71	13.02
		25	0	13.50	12.63	12.82	12.93
		25	13	13.50	12.63	12.81	12.93
		25	25	13.50	12.62	12.82	12.93
		50	0	13.50	12.50	12.66	12.73

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37825CH	38000CH	38175CH
15MHz	QPSK	1	0	13.50	12.73	12.75	12.93
		1	38	13.50	12.73	12.76	12.92
		1	74	13.50	12.72	12.76	12.94
		36	0	13.50	12.66	12.69	12.96
		36	18	13.50	12.66	12.69	12.97
		36	39	13.50	12.66	12.69	12.97
		75	0	13.50	12.59	12.70	12.79
	16QAM	1	0	13.50	12.88	12.96	13.20
		1	38	13.50	12.88	12.96	13.21
		1	74	13.50	12.88	12.94	13.20
		36	0	13.50	12.59	12.61	12.84
		36	18	13.50	12.58	12.62	12.84
		36	39	13.50	12.58	12.62	12.84
		75	0	13.50	12.44	12.56	12.66
	64QAM	1	0	13.50	12.77	12.74	12.96
		1	38	13.50	12.77	12.74	12.96
		1	74	13.50	12.77	12.75	12.96
		36	0	13.50	12.64	12.67	12.96
		36	18	13.50	12.64	12.67	12.97
		36	39	13.50	12.65	12.68	12.97
		75	0	13.50	12.53	12.64	12.81
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37850CH	38000CH	38150CH
20MHz	QPSK	1	0	13.50	12.72	12.68	12.77
		1	50	13.50	12.73	12.69	12.78
		1	99	13.50	12.72	12.68	12.77
		50	0	13.50	12.76	12.75	13.02
		50	25	13.50	12.75	12.74	13.02
		50	50	13.50	12.75	12.74	13.03
		100	0	13.50	12.61	12.71	12.81
	16QAM	1	0	13.50	12.79	12.73	12.92
		1	50	13.50	12.79	12.73	12.92
		1	99	13.50	12.79	12.73	12.92
		50	0	13.50	12.65	12.73	12.93
		50	25	13.50	12.65	12.74	12.93
		50	50	13.50	12.65	12.73	12.93
		100	0	13.50	12.55	12.65	12.74
	64QAM	1	0	13.50	12.81	12.83	12.91
		1	50	13.50	12.81	12.82	12.91
		1	99	13.50	12.81	12.82	12.90
		50	0	13.50	12.77	12.85	13.15
		50	25	13.50	12.77	12.85	13.15
		50	50	13.50	12.77	12.85	13.15
		100	0	13.50	12.61	12.71	12.80

Table 83: Conducted power measurement results of LTE Band 38 (Second Antenna+WiFi Antenna, Receiver ON)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37775CH	38000CH	38225CH
5MHz	QPSK	1	0	20.00	19.08	19.15	19.25
		1	13	20.00	19.05	19.16	19.24
		1	24	20.00	19.07	19.19	19.25
		12	0	20.00	19.02	19.15	19.20
		12	6	20.00	19.05	19.15	19.20
		12	13	20.00	19.04	19.18	19.20
		25	0	20.00	19.00	19.12	19.20
	16QAM	1	0	20.00	19.00	19.18	19.20
		1	13	20.00	18.99	19.18	19.21
		1	24	20.00	18.99	19.18	19.21
		12	0	20.00	18.95	19.10	19.22
		12	6	20.00	18.95	19.10	19.22
		12	13	20.00	18.94	19.09	19.22
		25	0	20.00	18.87	19.02	19.09
	64QAM	1	0	20.00	19.04	19.14	19.22
		1	13	20.00	19.04	19.13	19.21
		1	24	20.00	19.03	19.13	19.21
		12	0	20.00	18.91	19.06	19.27
		12	6	20.00	18.91	19.05	19.27
		12	13	20.00	18.90	19.06	19.27
		25	0	20.00	18.96	19.09	19.16
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37800CH	38000CH	38200CH
10MHz	QPSK	1	0	20.00	19.11	19.19	19.28
		1	25	20.00	19.10	19.18	19.28
		1	49	20.00	19.11	19.18	19.28
		25	0	20.00	19.04	19.18	19.22
		25	13	20.00	19.05	19.20	19.23
		25	25	20.00	19.04	19.21	19.21
		50	0	20.00	19.00	19.13	19.21
	16QAM	1	0	20.00	19.22	19.30	19.41
		1	25	20.00	19.22	19.30	19.41
		1	49	20.00	19.21	19.29	19.41
		25	0	20.00	19.01	19.17	19.23
		25	13	20.00	19.01	19.17	19.23
		25	25	20.00	19.02	19.18	19.24
		50	0	20.00	18.91	19.05	19.14
	64QAM	1	0	20.00	19.10	19.16	19.45
		1	25	20.00	19.09	19.15	19.45
		1	49	20.00	19.10	19.16	19.45
		25	0	20.00	19.01	19.32	19.21
		25	13	20.00	19.00	19.31	19.21
		25	25	20.00	19.01	19.31	19.22
		50	0	20.00	18.99	19.11	19.20

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37825CH	38000CH	38175CH
15MHz	QPSK	1	0	20.00	19.18	19.19	19.31
		1	38	20.00	19.18	19.19	19.34
		1	74	20.00	19.17	19.21	19.32
		36	0	20.00	19.04	19.13	19.31
		36	18	20.00	19.06	19.14	19.30
		36	39	20.00	19.06	19.15	19.31
		75	0	20.00	19.06	19.17	19.20
	16QAM	1	0	20.00	19.55	19.63	19.50
		1	38	20.00	19.36	19.12	19.51
		1	74	20.00	19.36	19.30	19.50
		36	0	20.00	19.03	19.16	19.23
		36	18	20.00	19.06	19.11	19.29
		36	39	20.00	19.05	19.18	19.27
		75	0	20.00	18.98	18.96	18.99
	64QAM	1	0	20.00	19.16	19.30	19.49
		1	38	20.00	19.23	18.99	19.48
		1	74	20.00	19.16	19.34	19.47
		36	0	20.00	19.28	19.11	19.42
		36	18	20.00	19.09	19.18	19.42
		36	39	20.00	19.12	19.08	19.42
		75	0	20.00	19.12	19.14	19.13
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37850CH	38000CH	38150CH
20MHz	QPSK	1	0	20.00	19.12	19.12	19.30
		1	50	20.00	19.13	19.18	19.29
		1	99	20.00	19.12	19.12	19.13
		50	0	20.00	19.17	19.18	19.25
		50	25	20.00	19.10	19.19	19.27
		50	50	20.00	19.17	19.18	19.16
		100	0	20.00	19.10	19.18	19.24
	16QAM	1	0	20.00	19.37	19.59	19.64
		1	50	20.00	19.37	19.56	19.63
		1	99	20.00	19.18	19.24	19.31
		50	0	20.00	19.06	19.20	19.25
		50	25	20.00	19.07	19.21	19.15
		50	50	20.00	19.07	19.21	19.26
		100	0	20.00	19.18	19.04	19.14
	64QAM	1	0	20.00	19.15	19.11	19.08
		1	50	20.00	19.23	19.19	19.34
		1	99	20.00	19.25	19.18	19.08
		50	0	20.00	19.13	19.26	19.36
		50	25	20.00	19.12	19.42	19.12
		50	50	20.00	19.12	19.42	19.36
		100	0	20.00	19.05	19.15	19.12

Table 84: Conducted power measurement results of LTE Band 38 (Second Antenna+WiFi Antenna, Receiver OFF)

7.1.26 Conducted power measurements of LTE Band 38 (Main Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37775CH	38000CH	38225CH
5MHz	QPSK	1	0	24.50	23.66	23.86	23.80
		1	13	24.50	23.69	23.85	23.80
		1	24	24.50	23.75	23.88	23.80
		12	0	23.50	22.76	22.85	22.83
		12	6	23.50	22.76	22.85	22.83
		12	13	23.50	22.76	22.85	22.84
		25	0	23.50	22.64	22.73	22.83
	16QAM	1	0	23.50	23.06	23.11	23.18
		1	13	23.50	23.02	23.22	23.15
		1	24	23.50	23.02	23.21	23.13
		12	0	22.50	21.69	21.84	21.75
		12	6	22.50	21.66	21.84	21.76
		12	13	22.50	21.67	21.80	21.77
		25	0	22.50	21.52	21.77	21.68
	64QAM	1	0	22.50	21.76	21.96	21.91
		1	13	22.50	21.74	21.88	21.84
		1	24	22.50	21.74	21.87	21.79
		12	0	21.50	20.73	20.92	19.83
		12	6	21.50	20.64	20.92	20.78
		12	13	21.50	20.64	20.92	20.79
		25	0	21.50	20.69	20.85	20.83
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37800CH	38000CH	38200CH
10MHz	QPSK	1	0	24.50	23.72	23.89	23.89
		1	25	24.50	23.69	23.86	23.89
		1	49	24.50	23.66	23.85	23.89
		25	0	23.50	22.77	22.88	22.88
		25	13	23.50	22.76	22.88	22.87
		25	25	23.50	22.76	22.87	22.87
		50	0	23.50	22.68	22.80	22.88
	16QAM	1	0	23.50	23.00	23.12	23.05
		1	25	23.50	23.04	23.09	23.05
		1	49	23.50	23.07	23.16	23.05
		25	0	22.50	21.76	21.87	21.87
		25	13	22.50	21.77	21.81	21.88
		25	25	22.50	21.77	21.83	21.87
		50	0	22.50	21.72	21.84	21.84
	64QAM	1	0	22.50	21.69	21.88	22.01
		1	25	22.50	21.74	21.95	22.07
		1	49	22.50	21.69	21.88	22.07
		25	0	21.50	20.66	20.86	20.89
		25	13	21.50	20.65	20.86	20.89

		25	25	21.50	20.66	20.85	20.89
		50	0	21.50	20.72	20.73	20.84

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37825CH	38000CH	38175CH
15MHz	QPSK	1	0	24.50	23.77	23.91	24.02
		1	38	24.50	23.78	23.98	24.01
		1	74	24.50	23.78	24.00	24.00
		36	0	23.50	22.79	22.78	22.95
		36	18	23.50	22.79	22.77	22.96
		36	39	23.50	22.78	22.78	22.97
		75	0	23.50	22.75	22.74	22.90
	16QAM	1	0	23.50	23.10	23.20	23.38
		1	38	23.50	23.05	23.18	23.37
		1	74	23.50	23.05	23.18	23.37
		36	0	22.50	21.80	21.91	21.89
		36	18	22.50	21.82	21.91	21.90
		36	39	22.50	21.80	21.92	21.91
		75	0	22.50	21.62	21.72	21.75
	64QAM	1	0	22.50	21.75	21.97	22.02
		1	38	22.50	21.80	21.97	22.03
		1	74	22.50	21.86	21.90	21.97
		36	0	21.50	20.79	20.85	20.85
		36	18	21.50	20.79	20.86	20.95
		36	39	21.50	20.80	20.86	20.96
		75	0	21.50	20.70	20.81	20.80
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37850CH	38000CH	38150CH
20MHz	QPSK	1	0	24.50	23.78	24.03	24.01
		1	50	24.50	23.84	24.01	23.92
		1	99	24.50	23.87	24.00	23.91
		50	0	23.50	22.83	22.96	23.00
		50	25	23.50	22.83	22.96	23.02
		50	50	23.50	22.84	22.97	23.01
		100	0	23.50	22.82	22.83	22.91
	16QAM	1	0	23.50	23.12	23.21	23.16
		1	50	23.50	23.13	23.17	23.15
		1	99	23.50	23.11	23.19	23.12
		50	0	22.50	21.80	21.89	21.90
		50	25	22.50	21.71	21.89	21.88
		50	50	22.50	21.71	21.89	21.87
		100	0	22.50	21.77	21.80	21.86
	64QAM	1	0	22.50	21.85	22.06	22.14
		1	50	22.50	21.91	21.97	22.10
		1	99	22.50	21.90	21.97	22.11
		50	0	21.50	20.82	20.91	20.94
		50	25	21.50	20.82	20.92	20.94
		50	50	21.50	20.83	20.90	20.95
		100	0	21.50	20.70	20.81	20.83

Table 85: Conducted power measurement results of LTE Band 38 (Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37775CH	38000CH	38225CH
5MHz	QPSK	1	0	23.50	22.81	22.91	23.00
		1	13	23.50	22.88	23.00	23.00
		1	24	23.50	22.86	22.99	23.00
		12	0	23.50	22.39	22.47	22.33
		12	6	23.50	22.44	22.47	22.33
		12	13	23.50	22.42	22.46	22.34
		25	0	23.50	22.40	22.51	22.40
	16QAM	1	0	23.50	22.94	23.09	23.12
		1	13	23.50	23.01	23.16	23.11
		1	24	23.50	23.01	23.14	23.11
		12	0	22.50	21.90	21.89	21.81
		12	6	22.50	21.91	21.99	21.82
		12	13	22.50	21.91	21.99	21.82
		25	0	22.50	21.78	21.88	21.78
	64QAM	1	0	22.50	21.61	21.80	21.67
		1	13	22.50	21.60	21.86	21.67
		1	24	22.50	21.61	21.85	21.67
		12	0	21.50	20.87	20.92	20.86
		12	6	21.50	20.87	20.93	20.92
		12	13	21.50	20.87	20.92	20.92
		25	0	21.50	20.70	20.84	20.83
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37800CH	38000CH	38200CH
10MHz	QPSK	1	0	23.50	23.06	22.98	22.95
		1	25	23.50	22.99	22.96	23.07
		1	49	23.50	22.97	22.99	23.07
		25	0	23.50	22.40	22.43	22.45
		25	13	23.50	22.39	22.45	22.48
		25	25	23.50	22.40	22.39	22.47
		50	0	23.50	22.32	22.42	22.43
	16QAM	1	0	23.50	23.18	23.20	23.20
		1	25	23.50	23.19	23.14	23.21
		1	49	23.50	23.17	23.15	23.19
		25	0	22.50	21.80	21.87	21.87
		25	13	22.50	21.82	21.86	21.90
		25	25	22.50	21.84	21.86	21.90
		50	0	22.50	21.74	21.80	21.87
	64QAM	1	0	22.50	21.71	21.96	21.84
		1	25	22.50	21.64	21.81	21.91
		1	49	22.50	21.63	21.81	21.91
		25	0	21.50	20.68	20.84	20.86
		25	13	21.50	20.68	20.84	20.87
		25	25	21.50	20.68	20.85	20.87
		50	0	21.50	20.82	20.87	20.84

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37825CH	38000CH	38175CH
15MHz	QPSK	1	0	23.50	22.91	23.02	23.12
		1	38	23.50	22.93	23.08	23.12
		1	74	23.50	22.92	23.07	23.12
		36	0	23.50	22.48	22.50	22.55
		36	18	23.50	22.48	22.50	22.55
		36	39	23.50	22.47	22.50	22.56
		75	0	23.50	22.42	22.47	22.43
	16QAM	1	0	23.50	23.29	23.29	23.31
		1	38	23.50	23.29	23.26	23.32
		1	74	23.50	23.29	23.24	23.41
		36	0	22.50	21.90	21.98	22.01
		36	18	22.50	21.91	21.98	22.02
		36	39	22.50	21.91	21.98	22.02
		75	0	22.50	21.83	21.81	21.78
	64QAM	1	0	22.50	21.67	21.92	21.89
		1	38	22.50	21.66	21.84	21.88
		1	74	22.50	21.66	21.84	21.89
		36	0	21.50	20.88	20.89	20.93
		36	18	21.50	20.93	20.89	21.07
		36	39	21.50	20.88	20.89	21.07
		75	0	21.50	20.94	20.90	20.91
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	37850CH	38000CH	38150CH
20MHz	QPSK	1	0	23.50	23.01	22.98	23.03
		1	50	23.50	22.98	22.97	22.99
		1	99	23.50	22.90	22.96	22.99
		50	0	23.50	22.47	22.50	22.53
		50	25	23.50	22.47	22.49	22.55
		50	50	23.50	22.46	22.50	22.54
		100	0	23.50	22.37	22.50	22.44
	16QAM	1	0	23.50	23.08	23.17	23.25
		1	50	23.50	23.08	23.15	23.26
		1	99	23.50	23.08	23.15	23.25
		50	0	22.50	21.97	21.89	21.93
		50	25	22.50	21.98	21.90	21.94
		50	50	22.50	21.98	21.90	21.94
		100	0	22.50	21.77	21.90	21.83
	64QAM	1	0	22.50	21.79	21.92	21.98
		1	50	22.50	21.80	21.92	21.97
		1	99	22.50	21.80	21.90	21.96
		50	0	21.50	20.91	20.87	20.91
		50	25	21.50	20.91	20.87	20.91
		50	50	21.50	20.86	20.87	20.91
		100	0	21.50	20.82	20.86	20.85

Table 86: Conducted power measurement results of LTE Band 38 (Reduced Power Level D2/D6)

7.1.27 Conducted power measurements of LTE Band 41 (Second Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	Channel
				Max.	40165CH	40515CH	40865CH	41215CH
5MHz	QPSK	1	0	23.00	22.16	22.01	22.21	22.12
		1	13	23.00	22.07	22.00	22.23	22.11
		1	24	23.00	22.01	21.94	22.18	22.03
		12	0	23.00	22.20	22.06	22.30	22.18
		12	6	23.00	22.21	22.06	22.30	22.18
		12	13	23.00	22.20	22.06	22.30	22.18
		25	0	23.00	22.03	21.97	22.15	22.03
	16QAM	1	0	23.00	22.44	22.42	22.56	22.46
		1	13	23.00	22.44	22.43	22.55	22.44
		1	24	23.00	22.43	22.42	22.55	22.43
		12	0	22.00	21.15	21.10	21.32	21.23
		12	6	22.00	21.16	21.11	21.33	21.23
		12	13	22.00	21.16	21.11	21.31	21.23
		25	0	22.00	21.07	21.00	21.27	21.06
	64QAM	1	0	22.00	20.97	20.84	21.06	20.95
		1	13	22.00	20.96	20.83	21.06	20.95
		1	24	22.00	20.96	20.83	21.05	20.96
		12	0	21.00	20.18	20.11	20.33	20.29
		12	6	21.00	20.16	20.12	20.33	20.30
		12	13	21.00	20.17	20.12	20.33	20.29
		25	0	21.00	20.13	20.07	20.28	20.19
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	Channel
				Max.	40190CH	40523CH	40856CH	41190CH
10MHz	QPSK	1	0	23.00	22.20	22.00	22.31	22.11
		1	25	23.00	22.00	21.89	22.06	22.01
		1	49	23.00	21.43	21.88	22.07	22.06
		25	0	23.00	22.15	22.15	22.29	22.21
		25	13	23.00	22.14	22.04	22.29	22.21
		25	25	23.00	22.13	22.04	22.30	22.21
		50	0	23.00	22.03	22.07	22.20	22.11
	16QAM	1	0	23.00	22.38	22.29	22.47	22.32
		1	25	23.00	22.38	22.28	22.47	22.41
		1	49	23.00	22.39	22.30	22.47	22.40
		25	0	22.00	21.05	21.01	21.20	21.09
		25	13	22.00	21.06	21.01	21.20	21.10
		25	25	22.00	21.04	21.02	21.21	21.10
		50	0	22.00	20.94	20.96	21.11	21.08
	64QAM	1	0	22.00	20.96	20.86	21.04	20.96
		1	25	22.00	20.94	20.85	21.07	20.95
		1	49	22.00	20.98	20.85	21.08	20.95
		25	0	21.00	20.18	20.12	20.34	20.25
		25	13	21.00	20.16	20.13	20.33	20.25

		25	25	21.00	20.18	20.13	20.34	20.22
		50	0	21.00	19.99	19.99	20.20	20.08
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	Channel
				Max.	40215CH	40523CH	40840CH	41165CH
15MHz	QPSK	1	0	23.00	22.24	22.03	22.27	22.12
		1	38	23.00	21.96	21.98	22.22	22.09
		1	74	23.00	21.24	21.96	22.11	22.04
		36	0	23.00	22.20	22.13	22.30	22.21
		36	18	23.00	22.21	22.13	22.29	22.22
		36	39	23.00	22.21	22.13	22.29	22.22
		75	0	23.00	22.01	22.06	22.23	22.07
	16QAM	1	0	23.00	22.64	22.47	22.70	22.65
		1	38	23.00	22.64	22.45	22.73	22.64
		1	74	23.00	22.65	22.45	22.72	22.63
		36	0	22.00	21.02	20.96	21.15	21.08
		36	18	22.00	21.02	20.97	21.15	21.12
		36	39	22.00	21.03	20.97	21.16	21.09
		75	0	22.00	20.96	21.02	21.20	21.08
	64QAM	1	0	22.00	20.96	20.92	21.04	20.98
		1	38	22.00	20.96	20.91	21.03	20.98
		1	74	22.00	20.96	20.91	21.03	20.99
		36	0	21.00	20.08	20.07	20.29	20.22
		36	18	21.00	20.09	20.07	20.30	20.19
		36	39	21.00	20.10	20.07	20.30	20.18
		75	0	21.00	19.99	20.08	20.24	20.17
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	Channel
				Max.	40240CH	40540CH	40840CH	41140CH
20MHz	QPSK	1	0	23.00	22.08	22.96	22.09	22.06
		1	50	23.00	21.68	22.95	21.99	21.75
		1	99	23.00	21.55	22.94	22.22	22.17
		50	0	23.00	22.07	22.17	22.33	22.18
		50	25	23.00	22.08	22.17	22.31	22.19
		50	50	23.00	22.08	22.17	22.32	22.19
		100	0	23.00	22.05	22.11	22.29	22.13
	16QAM	1	0	23.00	22.40	22.26	22.45	22.36
		1	50	23.00	22.36	22.26	22.43	22.36
		1	99	23.00	22.37	22.26	22.43	22.37
		50	0	22.00	21.04	21.13	21.30	21.24
		50	25	22.00	21.04	21.13	21.27	21.24
		50	50	22.00	21.05	21.14	21.26	21.24
		100	0	22.00	20.95	21.02	21.25	21.19
	64QAM	1	0	22.00	20.90	20.79	20.92	20.86
		1	50	22.00	20.90	20.78	20.92	20.86
		1	99	22.00	20.89	20.78	20.91	20.86
		50	0	21.00	20.11	20.09	20.30	20.19
		50	25	21.00	20.17	20.10	20.29	20.19
		50	50	21.00	20.16	20.10	20.28	20.20
		100	0	21.00	20.02	20.11	20.31	20.24

Table 87: Conducted power measurement results of LTE Band 41 (Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	Channel
				Max.	40165CH	40515CH	40865CH	41215CH
5MHz	QPSK	1	0	14.50	13.69	13.54	13.83	13.71
		1	13	14.50	13.67	13.54	13.83	13.70
		1	24	14.50	13.69	13.55	13.83	13.70
		12	0	14.50	13.72	13.60	13.83	13.78
		12	6	14.50	13.73	13.60	13.82	13.78
		12	13	14.50	13.73	13.60	13.82	13.78
		25	0	14.50	13.64	13.52	13.78	13.62
	16QAM	1	0	14.50	13.79	13.62	13.92	13.75
		1	13	14.50	13.79	13.62	13.92	13.75
		1	24	14.50	13.79	13.62	13.93	13.75
		12	0	14.50	13.83	13.67	13.92	13.76
		12	6	14.50	13.84	13.67	13.93	13.77
		12	13	14.50	13.84	13.67	13.93	13.76
		25	0	14.50	13.45	13.36	13.60	13.41
	64QAM	1	0	14.50	13.77	13.64	13.89	13.70
		1	13	14.50	13.76	13.63	13.88	13.70
		1	24	14.50	13.76	13.62	13.88	13.71
		12	0	14.50	13.69	13.52	13.86	13.66
		12	6	14.50	13.69	13.51	13.86	13.66
		12	13	14.50	13.69	13.51	13.86	13.67
		25	0	14.50	13.65	13.50	13.80	13.61
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	Channel
				Max.	40190CH	40523CH	40856CH	41190CH
10MHz	QPSK	1	0	14.50	13.75	13.61	13.84	13.76
		1	25	14.50	13.74	13.62	13.85	13.76
		1	49	14.50	13.74	13.61	13.84	13.76
		25	0	14.50	13.68	13.59	13.86	13.78
		25	13	14.50	13.69	13.58	13.85	13.77
		25	25	14.50	13.68	13.58	13.86	13.76
		50	0	14.50	13.57	13.55	13.74	13.69
	16QAM	1	0	14.50	14.02	13.95	14.13	14.08
		1	25	14.50	14.02	13.95	14.12	14.07
		1	49	14.50	14.01	13.96	14.12	14.08
		25	0	14.50	13.63	13.52	13.76	13.66
		25	13	14.50	13.63	13.52	13.76	13.67
		25	25	14.50	13.61	13.52	13.76	13.68
		50	0	14.50	13.60	13.51	13.74	13.59
	64QAM	1	0	14.50	13.79	13.68	13.88	13.77
		1	25	14.50	13.80	13.66	13.88	13.78
		1	49	14.50	13.79	13.67	13.88	13.78
		25	0	14.50	13.70	13.54	13.78	13.73
		25	13	14.50	13.70	13.54	13.79	13.73
		25	25	14.50	13.72	13.54	13.78	13.73
		50	0	14.50	13.62	13.58	13.77	13.60

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	Channel
				Max.	40215CH	40523CH	40840CH	41165CH
15MHz	QPSK	1	0	14.50	13.78	13.70	13.83	13.73
		1	38	14.50	13.78	13.65	13.83	13.76
		1	74	14.50	13.78	13.70	13.84	13.73
		36	0	14.50	13.70	13.68	13.88	13.79
		36	18	14.50	13.70	13.67	13.86	13.80
		36	39	14.50	13.70	13.68	13.88	13.79
		75	0	14.50	13.64	13.61	13.78	13.68
	16QAM	1	0	14.50	13.96	13.85	14.04	13.95
		1	38	14.50	13.97	13.85	14.04	13.99
		1	74	14.50	13.97	13.82	14.05	13.95
		36	0	14.50	13.57	13.49	13.70	13.65
		36	18	14.50	13.58	13.49	13.69	13.66
		36	39	14.50	13.57	13.49	13.69	13.66
		75	0	14.50	13.57	13.62	13.73	13.65
	64QAM	1	0	14.50	13.81	13.70	13.83	13.79
		1	38	14.50	13.81	13.68	13.89	13.80
		1	74	14.50	13.79	13.71	13.89	13.80
		36	0	14.50	13.75	13.65	13.87	13.78
		36	18	14.50	13.76	13.64	13.87	13.78
		36	39	14.50	13.76	13.66	13.87	13.78
		75	0	14.50	13.57	13.60	13.76	13.67
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	Channel
				Max.	40240CH	40540CH	40840CH	41140CH
20MHz	QPSK	1	0	14.50	13.59	13.43	13.64	13.51
		1	50	14.50	13.60	13.43	13.64	13.51
		1	99	14.50	13.59	13.43	13.65	13.52
		50	0	14.50	13.74	13.76	13.90	13.82
		50	25	14.50	13.74	13.75	13.90	13.82
		50	50	14.50	13.73	13.76	13.90	13.82
		100	0	14.50	13.61	13.68	13.88	13.73
	16QAM	1	0	14.50	13.76	13.59	13.74	13.62
		1	50	14.50	13.75	13.59	13.87	13.77
		1	99	14.50	13.74	13.56	13.78	13.73
		50	0	14.50	13.72	13.67	13.83	13.76
		50	25	14.50	13.69	13.68	13.79	13.67
		50	50	14.50	13.70	13.68	13.63	13.66
		100	0	14.50	13.59	13.64	13.79	13.64
	64QAM	1	0	14.50	13.67	13.27	13.48	13.34
		1	50	14.50	13.59	13.18	13.52	13.22
		1	99	14.50	13.26	13.27	13.49	13.38
		50	0	14.50	13.72	13.68	13.83	13.81
		50	25	14.50	13.59	13.60	13.77	13.69
		50	50	14.50	13.45	13.45	13.67	13.58
		100	0	14.50	13.62	13.62	13.81	13.64

Table 88: Conducted power measurement results of LTE Band 41 (Receiver ON)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	Channel
				Max.	40165CH	40515CH	40865CH	41215CH
5MHz	QPSK	1	0	12.00	11.19	11.05	11.33	11.17
		1	13	12.00	11.18	11.05	11.34	11.16
		1	24	12.00	11.19	11.06	11.32	11.15
		12	0	12.00	11.27	11.14	11.40	11.31
		12	6	12.00	11.27	11.15	11.40	11.31
		12	13	12.00	11.28	11.16	11.40	11.32
		25	0	12.00	11.17	11.12	11.34	11.22
	16QAM	1	0	12.00	11.37	11.33	11.51	11.40
		1	13	12.00	11.37	11.31	11.52	11.41
		1	24	12.00	11.39	11.33	11.52	11.40
		12	0	12.00	11.32	11.20	11.42	11.36
		12	6	12.00	11.31	11.20	11.42	11.36
		12	13	12.00	11.32	11.20	11.42	11.36
		25	0	12.00	11.04	10.96	11.16	11.07
	64QAM	1	0	12.00	11.38	11.25	11.55	11.40
		1	13	12.00	11.40	11.26	11.55	11.39
		1	24	12.00	11.38	11.26	11.55	11.41
		12	0	12.00	11.38	11.27	11.49	11.45
		12	6	12.00	11.38	11.26	11.48	11.44
		12	13	12.00	11.39	11.26	11.49	11.44
		25	0	12.00	11.19	11.12	11.32	11.24
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	Channel
				Max.	40190CH	40523CH	40856CH	41190CH
10MHz	QPSK	1	0	12.00	11.31	11.24	11.45	11.31
		1	25	12.00	11.32	11.25	11.45	11.32
		1	49	12.00	11.31	11.24	11.45	11.32
		25	0	12.00	11.24	11.15	11.39	11.33
		25	13	12.00	11.24	11.14	11.39	11.33
		25	25	12.00	11.24	11.15	11.38	11.32
		50	0	12.00	11.17	11.11	11.31	11.27
	16QAM	1	0	12.00	11.63	11.53	11.77	11.64
		1	25	12.00	11.63	11.53	11.77	11.64
		1	49	12.00	11.64	11.53	11.77	11.64
		25	0	12.00	11.16	11.08	11.30	11.27
		25	13	12.00	11.16	11.09	11.29	11.22
		25	25	12.00	11.16	11.07	11.30	11.27
		50	0	12.00	11.17	11.16	11.30	11.29
	64QAM	1	0	12.00	11.42	11.24	11.58	11.38
		1	25	12.00	11.42	11.26	11.58	11.38
		1	49	12.00	11.42	11.24	11.58	11.38
		25	0	12.00	11.23	11.15	11.46	11.27
		25	13	12.00	11.23	11.15	11.46	11.27
		25	25	12.00	11.23	11.15	11.46	11.28
		50	0	12.00	11.10	11.09	11.28	11.25

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	Channel
				Max.	40215CH	40523CH	40840CH	41165CH
15MHz	QPSK	1	0	12.00	11.36	11.25	11.42	11.36
		1	38	12.00	11.35	11.25	11.42	11.37
		1	74	12.00	11.35	11.24	11.43	11.36
		36	0	12.00	11.29	11.16	11.40	11.30
		36	18	12.00	11.28	11.15	11.41	11.30
		36	39	12.00	11.29	11.15	11.41	11.30
		75	0	12.00	11.14	11.14	11.30	11.20
	16QAM	1	0	12.00	11.29	11.19	11.39	11.33
		1	38	12.00	11.29	11.18	11.38	11.33
		1	74	12.00	11.29	11.18	11.39	11.33
		36	0	12.00	11.15	11.14	11.34	11.27
		36	18	12.00	11.16	11.14	11.34	11.28
		36	39	12.00	11.15	11.14	11.34	11.28
		75	0	12.00	11.08	11.14	11.24	11.22
	64QAM	1	0	12.00	11.39	11.26	11.48	11.36
		1	38	12.00	11.39	11.26	11.48	11.36
		1	74	12.00	11.38	11.26	11.48	11.37
		36	0	12.00	11.22	11.16	11.36	11.30
		36	18	12.00	11.21	11.16	11.35	11.30
		36	39	12.00	11.22	11.15	11.35	11.30
		75	0	12.00	11.14	11.20	11.31	11.27
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	Channel
				Max.	40240CH	40540CH	40840CH	41140CH
20MHz	QPSK	1	0	12.00	11.11	11.00	11.16	11.13
		1	50	12.00	11.12	11.00	11.16	11.13
		1	99	12.00	11.10	11.00	11.16	11.14
		50	0	12.00	11.24	11.23	11.37	11.33
		50	25	12.00	11.23	11.22	11.40	11.34
		50	50	12.00	11.25	11.22	11.40	11.33
		100	0	12.00	11.13	11.18	11.36	11.28
	16QAM	1	0	12.00	11.28	11.18	11.31	11.29
		1	50	12.00	11.27	11.18	11.31	11.30
		1	99	12.00	11.28	11.18	11.31	11.30
		50	0	12.00	11.17	11.20	11.33	11.29
		50	25	12.00	11.17	11.21	11.35	11.28
		50	50	12.00	11.16	11.19	11.33	11.29
		100	0	12.00	11.06	11.14	11.31	11.21
	64QAM	1	0	12.00	11.28	11.15	11.30	11.27
		1	50	12.00	11.26	11.14	11.30	11.27
		1	99	12.00	11.27	11.14	11.30	11.27
		50	0	12.00	11.17	11.25	11.34	11.28
		50	25	12.00	11.17	11.24	11.34	11.29
		50	50	12.00	11.17	11.24	11.35	11.28
		100	0	12.00	11.17	11.21	11.45	11.31

Table 89: Conducted power measurement results of LTE Band 41 (Second Antenna+WiFi Antenna, Receiver ON)

Bandwidth	Modulation	RB size	RB offset	Tune-up		Channel	Channel	Channel	Channel
				Min.	Max.	40165CH	40515CH	40865CH	41215CH
5MHz	QPSK	1	0	17.50	20.50	19.55	19.47	19.74	19.60
		1	13	17.50	20.50	19.53	19.49	19.76	19.58
		1	24	17.50	20.50	19.57	19.48	19.80	19.69
		12	0	17.50	20.50	19.65	19.55	19.69	19.78
		12	6	17.50	20.50	19.63	19.54	19.69	19.77
		12	13	17.50	20.50	19.61	19.53	19.69	19.76
		25	0	17.50	20.50	19.47	19.49	19.61	19.72
	16QAM	1	0	17.50	20.50	19.90	19.86	20.15	20.13
		1	13	17.50	20.50	19.90	19.85	20.14	20.12
		1	24	17.50	20.50	19.90	19.85	20.14	20.11
		12	0	17.50	20.50	19.68	19.53	19.88	19.83
		12	6	17.50	20.50	19.68	19.53	19.88	19.85
		12	13	17.50	20.50	19.68	19.52	19.88	19.84
		25	0	17.50	20.50	19.53	19.33	19.74	19.58
	64QAM	1	0	17.50	20.50	19.79	19.66	19.95	19.87
		1	13	17.50	20.50	19.78	19.65	19.95	19.87
		1	24	17.50	20.50	19.79	19.64	19.95	19.87
		12	0	17.50	20.50	19.66	19.49	19.81	19.73
		12	6	17.50	20.50	19.65	19.49	19.81	19.73
		12	13	17.50	20.50	19.68	19.61	19.80	19.73
		25	0	17.50	20.50	19.64	19.53	19.75	19.70
Bandwidth	Modulation	RB size	RB offset	Tune-up		Channel	Channel	Channel	Channel
				Min.	Max.	40190CH	40523CH	40856CH	41190CH
10MHz	QPSK	1	0	17.50	20.50	19.77	19.72	19.97	19.85
		1	25	17.50	20.50	19.77	19.71	19.96	19.85
		1	49	17.50	20.50	19.77	19.70	19.97	19.85
		25	0	17.50	20.50	19.70	19.54	19.80	19.83
		25	13	17.50	20.50	19.71	19.53	19.80	19.84
		25	25	17.50	20.50	19.71	19.51	19.80	19.84
		50	0	17.50	20.50	19.52	19.54	19.64	19.61
	16QAM	1	0	17.50	20.50	19.80	19.69	19.94	19.94
		1	25	17.50	20.50	19.68	19.68	19.93	19.93
		1	49	17.50	20.50	19.69	19.67	19.93	19.93
		25	0	17.50	20.50	19.70	19.58	19.82	19.78
		25	13	17.50	20.50	19.70	19.58	19.84	19.78
		25	25	17.50	20.50	19.70	19.58	19.85	19.76
		50	0	17.50	20.50	19.49	19.46	19.70	19.74
	64QAM	1	0	17.50	20.50	19.83	19.82	19.95	19.89
		1	25	17.50	20.50	19.83	19.81	19.94	19.89
		1	49	17.50	20.50	19.84	19.80	19.94	19.89
		25	0	17.50	20.50	19.64	19.57	19.84	19.77
		25	13	17.50	20.50	19.64	19.59	19.84	19.77
		25	25	17.50	20.50	19.64	19.57	19.84	19.76
		50	0	17.50	20.50	19.49	19.59	19.70	19.60

Bandwidth	Modulation	RB size	RB offset	Tune-up		Channel	Channel	Channel	Channel
				Min.	Max.	40215CH	40523CH	40840CH	41165CH
15MHz	QPSK	1	0	17.50	20.50	19.70	19.60	19.85	19.79
		1	38	17.50	20.50	19.70	19.60	19.84	19.79
		1	74	17.50	20.50	19.70	19.61	19.84	19.79
		36	0	17.50	20.50	19.64	19.62	19.86	19.79
		36	18	17.50	20.50	19.64	19.61	19.86	19.78
		36	39	17.50	20.50	19.64	19.61	19.86	19.78
		75	0	17.50	20.50	19.48	19.58	19.77	19.76
	16QAM	1	0	17.50	20.50	19.61	19.47	19.67	19.67
		1	38	17.50	20.50	19.63	19.47	19.69	19.67
		1	74	17.50	20.50	19.63	19.47	19.70	19.67
		36	0	17.50	20.50	19.52	19.53	19.74	19.71
		36	18	17.50	20.50	19.52	19.58	19.74	19.71
		36	39	17.50	20.50	19.53	19.61	19.74	19.71
		75	0	17.50	20.50	19.46	19.54	19.72	19.65
	64QAM	1	0	17.50	20.50	19.83	19.65	19.92	19.93
		1	38	17.50	20.50	19.83	19.64	19.94	19.93
		1	74	17.50	20.50	19.83	19.64	19.93	19.94
		36	0	17.50	20.50	19.67	19.61	19.85	19.79
		36	18	17.50	20.50	19.67	19.64	19.84	19.78
		36	39	17.50	20.50	19.65	19.64	19.84	19.78
		75	0	17.50	20.50	19.52	19.60	19.79	19.69
Bandwidth	Modulation	RB size	RB offset	Tune-up		Channel	Channel	Channel	Channel
				Min.	Max.	40240CH	40540CH	40840CH	41140CH
20MHz	QPSK	1	0	17.50	20.50	19.51	19.43	19.73	19.55
		1	50	17.50	20.50	19.50	19.43	19.74	19.56
		1	99	17.50	20.50	19.50	19.43	19.76	19.53
		50	0	17.50	20.50	19.57	19.73	19.85	19.74
		50	25	17.50	20.50	19.58	19.72	19.85	19.73
		50	50	17.50	20.50	19.58	19.71	19.86	19.73
		100	0	17.50	20.50	19.53	19.54	19.80	19.76
	16QAM	1	0	17.50	20.50	19.97	19.84	20.04	19.96
		1	50	17.50	20.50	19.98	19.83	20.02	19.97
		1	99	17.50	20.50	19.98	19.83	20.03	19.98
		50	0	17.50	20.50	19.49	19.63	19.78	19.66
		50	25	17.50	20.50	19.49	19.65	19.78	19.65
		50	50	17.50	20.50	19.50	19.65	19.78	19.76
		100	0	17.50	20.50	19.47	19.63	19.75	19.67
	64QAM	1	0	17.50	20.50	19.72	19.64	19.81	19.71
		1	50	17.50	20.50	19.73	19.63	19.80	19.72
		1	99	17.50	20.50	19.72	19.63	19.82	19.72
		50	0	17.50	20.50	19.63	19.62	19.79	19.76
		50	25	17.50	20.50	19.63	19.65	19.80	19.76
		50	50	17.50	20.50	19.63	19.65	19.80	19.75
		100	0	17.50	20.50	19.52	19.65	19.85	19.79

Table 90: Conducted power measurement results of LTE Band 41 (Second Antenna+WiFi Antenna, Receiver OFF)

7.1.28 Conducted power measurements of LTE Band 41 (Main Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up		Channel	Channel	Channel	Channel
				Min.	Max.	40165CH	40515CH	40865CH	41215CH
5MHz	QPSK	1	0	21.00	24.00	23.37	23.27	23.39	23.32
		1	13	21.00	24.00	23.29	23.29	23.42	23.29
		1	24	21.00	24.00	23.49	23.41	23.41	23.28
		12	0	20.00	23.00	22.36	22.08	22.42	22.27
		12	6	20.00	23.00	22.48	22.35	22.42	22.27
		12	13	20.00	23.00	22.59	22.08	22.41	22.27
		25	0	20.00	23.00	22.41	22.15	22.39	22.19
	16QAM	1	0	20.00	23.00	22.42	22.35	22.54	22.34
		1	13	20.00	23.00	22.35	22.35	22.53	22.32
		1	24	20.00	23.00	22.35	22.34	22.53	22.32
		12	0	19.00	22.00	21.20	21.21	21.39	21.24
		12	6	19.00	22.00	21.21	21.21	21.40	21.25
		12	13	19.00	22.00	21.21	21.22	21.39	21.25
		25	0	19.00	22.00	21.09	21.05	21.20	21.03
	64QAM	1	0	19.00	22.00	21.36	21.26	21.44	21.31
		1	13	19.00	22.00	21.32	21.26	21.44	21.30
		1	24	19.00	22.00	21.29	21.25	21.44	21.29
		12	0	18.00	21.00	20.32	20.16	20.45	20.29
		12	6	18.00	21.00	20.32	20.19	20.44	20.30
		12	13	18.00	21.00	20.32	20.15	20.45	20.26
		25	0	18.00	21.00	20.12	20.18	20.43	20.18
Bandwidth	Modulation	RB size	RB offset	Tune-up		Channel	Channel	Channel	Channel
				Min.	Max.	40190CH	40523CH	40856CH	41190CH
10MHz	QPSK	1	0	21.00	24.00	23.39	23.33	23.48	23.27
		1	25	21.00	24.00	23.37	23.32	23.47	23.30
		1	49	21.00	24.00	23.37	23.43	23.49	23.31
		25	0	20.00	23.00	22.32	22.21	22.43	22.22
		25	13	20.00	23.00	22.32	22.22	22.43	22.22
		25	25	20.00	23.00	22.32	22.22	22.43	22.22
		50	0	20.00	23.00	22.18	22.15	22.27	22.16
	16QAM	1	0	20.00	23.00	22.60	22.60	22.68	22.50
		1	25	20.00	23.00	22.60	22.59	22.68	22.54
		1	49	20.00	23.00	22.61	22.59	22.67	22.54
		25	0	19.00	22.00	21.20	21.12	21.31	21.13
		25	13	19.00	22.00	21.20	21.13	21.32	21.15
		25	25	19.00	22.00	21.21	21.13	21.32	21.15
		50	0	19.00	22.00	21.15	21.18	21.29	21.16
	64QAM	1	0	19.00	22.00	21.33	21.26	21.40	21.22
		1	25	19.00	22.00	21.33	21.29	21.40	21.21
		1	49	19.00	22.00	21.32	21.29	21.44	21.20
		25	0	18.00	21.00	20.23	20.27	20.35	20.31
		25	13	18.00	21.00	20.28	20.28	20.44	20.31
		25	25	18.00	21.00	20.29	20.27	20.45	20.31
		50	0	18.00	21.00	20.13	20.15	20.30	20.14

Bandwidth	Modulation	RB size	RB offset	Tune-up		Channel	Channel	Channel	Channel
				Min.	Max.	40215CH	40523CH	40840CH	41165CH
15MHz	QPSK	1	0	21.00	24.00	23.23	23.38	23.46	23.29
		1	38	21.00	24.00	23.33	23.37	23.37	23.29
		1	74	21.00	24.00	23.31	23.36	23.45	23.29
		36	0	20.00	23.00	22.23	22.14	22.48	22.26
		36	18	20.00	23.00	22.24	22.15	22.49	22.26
		36	39	20.00	23.00	22.24	22.15	22.49	22.26
		75	0	20.00	23.00	22.18	22.25	22.44	22.19
	16QAM	1	0	20.00	23.00	22.79	22.70	22.81	22.73
		1	38	20.00	23.00	22.79	22.68	22.88	22.72
		1	74	20.00	23.00	22.79	22.68	22.88	22.72
		36	0	19.00	22.00	21.16	21.15	21.40	21.30
		36	18	19.00	22.00	21.17	21.15	21.40	21.31
		36	39	19.00	22.00	21.17	21.15	21.41	21.31
		75	0	19.00	22.00	21.14	21.14	21.30	21.14
	64QAM	1	0	19.00	22.00	21.40	21.28	21.37	21.30
		1	38	19.00	22.00	21.39	21.28	21.49	21.30
		1	74	19.00	22.00	21.38	21.27	21.49	21.30
		36	0	18.00	21.00	20.34	20.39	20.34	20.32
		36	18	18.00	21.00	20.34	20.39	20.35	20.32
		36	39	18.00	21.00	20.35	20.39	20.36	20.30
		75	0	18.00	21.00	20.18	20.28	20.29	20.25
Bandwidth	Modulation	RB size	RB offset	Tune-up		Channel	Channel	Channel	Channel
				Min.	Max.	40240CH	40540CH	40840CH	41140CH
20MHz	QPSK	1	0	21.00	24.00	23.19	23.14	23.24	23.18
		1	50	21.00	24.00	23.17	23.14	23.23	23.20
		1	99	21.00	24.00	23.15	23.13	23.22	23.19
		50	0	20.00	23.00	22.26	22.37	22.52	22.32
		50	25	20.00	23.00	22.21	22.36	22.52	22.32
		50	50	20.00	23.00	22.22	22.36	22.53	22.32
		100	0	20.00	23.00	22.16	22.21	22.33	22.21
	16QAM	1	0	20.00	23.00	22.27	22.33	22.43	22.23
		1	50	20.00	23.00	22.27	22.22	22.42	22.23
		1	99	20.00	23.00	22.26	22.22	22.41	22.23
		50	0	19.00	22.00	21.20	21.27	21.40	21.28
		50	25	19.00	22.00	21.14	21.27	21.41	21.27
		50	50	19.00	22.00	21.13	21.27	21.41	21.27
		100	0	19.00	22.00	21.13	21.22	21.27	21.21
	64QAM	1	0	19.00	22.00	21.21	21.25	21.33	21.16
		1	50	19.00	22.00	21.20	21.11	21.37	21.17
		1	99	19.00	22.00	21.19	21.16	21.36	21.16
		50	0	18.00	21.00	20.20	20.30	20.37	20.30
		50	25	18.00	21.00	20.20	20.30	20.37	20.29
		50	50	18.00	21.00	20.21	20.29	20.37	20.29
		100	0	18.00	21.00	20.16	20.34	20.23	20.31

Table 91: Conducted power measurement results of LTE Band 41

7.1.29 Conducted power measurements of LTE Band 66 (Second Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131979CH	132322CH	132665CH
1.4MHz	QPSK	1	0	22.00	20.82	20.71	20.68
		1	3	22.00	20.42	20.72	20.66
		1	5	22.00	20.79	20.64	20.69
		3	0	22.00	20.50	20.69	20.73
		3	2	22.00	20.80	20.74	20.76
		3	3	22.00	20.72	20.67	20.68
		6	0	22.00	20.70	20.71	20.74
	16QAM	1	0	22.00	20.97	21.04	21.03
		1	3	22.00	21.05	21.03	20.93
		1	5	22.00	21.05	21.04	21.03
		3	0	22.00	20.84	20.81	20.80
		3	2	22.00	20.80	20.78	20.80
		3	3	22.00	20.80	20.80	20.82
		6	0	22.00	20.72	20.72	20.74
	64QAM	1	0	22.00	20.75	20.91	20.68
		1	3	22.00	20.78	20.90	20.64
		1	5	22.00	20.71	20.82	20.58
		3	0	22.00	20.71	20.79	20.53
		3	2	22.00	20.69	20.74	20.48
		3	3	22.00	20.67	20.70	20.43
		6	0	21.50	19.99	19.92	20.13
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131987CH	132322CH	132657CH
3MHz	QPSK	1	0	22.00	20.63	20.68	20.62
		1	7	22.00	20.73	20.75	20.75
		1	14	22.00	20.69	20.69	20.71
		8	0	22.00	20.74	20.72	20.74
		8	4	22.00	20.73	20.72	20.71
		8	7	22.00	20.70	20.70	20.70
		15	0	22.00	20.67	20.71	20.71
	16QAM	1	0	22.00	20.98	20.99	20.98
		1	7	22.00	21.02	21.02	21.02
		1	14	22.00	20.93	20.93	20.91
		8	0	22.00	20.75	20.70	20.64
		8	4	22.00	20.65	20.69	20.68
		8	7	22.00	20.76	20.76	20.73
		15	0	22.00	20.66	20.66	20.60
	64QAM	1	0	22.00	20.75	20.91	20.68
		1	7	22.00	20.79	20.88	20.66
		1	14	22.00	20.75	20.81	20.62
		8	0	21.50	19.94	20.04	19.58
		8	4	21.50	20.00	20.05	19.91
		8	7	21.50	20.04	20.04	20.05
		15	0	21.50	20.02	19.95	20.11

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
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				Max.	131997CH	132322CH	132647CH
5MHz	QPSK	1	0	22.00	20.67	20.59	20.68
		1	13	22.00	20.70	20.69	20.68
		1	24	22.00	20.41	20.41	20.42
		12	0	22.00	20.73	20.73	20.60
		12	6	22.00	20.72	20.73	20.73
		12	13	22.00	20.59	20.71	20.70
		25	0	22.00	20.65	20.70	20.69
	16QAM	1	0	22.00	20.99	20.98	21.00
		1	13	22.00	20.93	20.93	20.93
		1	24	22.00	20.62	20.67	20.68
		12	0	22.00	20.70	20.69	20.70
		12	6	22.00	20.66	20.75	20.74
		12	13	22.00	20.57	20.70	20.71
		25	0	22.00	20.52	20.62	20.63
	64QAM	1	0	22.00	20.77	20.89	20.67
		1	13	22.00	20.75	20.92	20.66
		1	24	22.00	20.71	20.82	20.62
		12	0	21.50	19.97	20.03	19.59
		12	6	21.50	20.02	20.05	19.90
		12	13	21.50	20.05	20.05	20.05
		25	0	21.50	20.00	19.95	20.12
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132022CH	132322CH	132622CH
10MHz	QPSK	1	0	22.00	20.66	20.57	20.67
		1	25	22.00	20.27	20.24	20.27
		1	49	22.00	20.66	20.66	20.67
		25	0	22.00	20.67	20.71	20.70
		25	13	22.00	20.66	20.69	20.67
		25	25	22.00	20.76	20.76	20.76
		50	0	22.00	20.70	20.66	20.66
	16QAM	1	0	22.00	20.96	20.99	20.92
		1	25	22.00	20.41	20.57	20.56
		1	49	22.00	20.86	20.97	20.99
		25	0	22.00	20.51	20.46	20.58
		25	13	22.00	20.48	20.44	20.46
		25	25	22.00	20.58	20.58	20.60
		50	0	22.00	20.59	20.45	20.60
	64QAM	1	0	22.00	20.77	20.89	20.65
		1	25	22.00	20.78	20.89	20.66
		1	49	22.00	20.72	20.79	20.60
		25	0	21.50	19.94	20.03	19.57
		25	13	21.50	19.99	20.10	19.91
		25	25	21.50	20.07	20.01	20.04
		50	0	21.50	20.00	19.94	20.09

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132047CH	132322CH	132597CH
15MHz	QPSK	1	0	22.00	20.70	20.79	20.66
		1	38	22.00	20.71	20.73	20.69
		1	74	22.00	20.70	20.75	20.59
		36	0	22.00	20.79	20.59	20.75
		36	18	22.00	20.77	20.70	20.71
		36	39	22.00	20.78	20.73	20.67
		75	0	22.00	20.80	20.62	20.73
	16QAM	1	0	22.00	20.81	20.97	20.72
		1	38	22.00	20.83	20.95	20.71
		1	74	22.00	20.79	20.86	20.66
		36	0	22.00	20.73	20.73	20.67
		36	18	22.00	20.70	20.69	20.61
		36	39	22.00	20.71	20.70	20.64
		75	0	22.00	20.73	20.57	20.69
	64QAM	1	0	22.00	20.76	20.93	20.66
		1	38	22.00	20.78	20.89	20.68
		1	74	22.00	20.75	20.79	20.62
		36	0	21.50	19.94	20.06	19.59
		36	18	21.50	19.99	20.08	19.93
		36	39	21.50	20.04	20.03	20.06
		75	0	21.50	19.98	19.92	20.13
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132072CH	132322CH	132572CH
20MHz	QPSK	1	0	22.00	20.90	20.86	20.76
		1	50	22.00	20.06	20.28	20.29
		1	99	22.00	20.85	20.77	20.78
		50	0	22.00	20.83	20.70	20.70
		50	25	22.00	20.76	20.72	20.66
		50	50	22.00	20.81	20.74	20.71
		100	0	22.00	20.82	20.73	20.73
	16QAM	1	0	22.00	21.20	20.99	21.01
		1	50	22.00	20.78	20.08	20.61
		1	99	22.00	21.14	20.95	21.10
		50	0	22.00	20.73	20.69	20.62
		50	25	22.00	20.67	20.57	20.61
		50	50	22.00	20.72	20.69	20.65
		100	0	22.00	20.79	20.68	20.68
	64QAM	1	0	22.00	20.77	20.89	20.66
		1	50	22.00	20.75	20.87	20.64
		1	99	22.00	20.74	20.83	20.59
		50	0	21.50	20.01	20.10	19.63
		50	25	21.50	20.06	20.13	19.96
		50	50	21.50	20.10	20.09	20.11
		100	0	21.50	20.06	19.98	20.16

Table 92: Conducted power measurement results of LTE Band 66 (Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131979CH	132322CH	132665CH
1.4MHz	QPSK	1	0	15.50	14.22	14.01	14.13
		1	3	15.50	13.83	14.16	14.16
		1	5	15.50	14.21	14.21	14.20
		3	0	15.50	14.15	14.10	14.10
		3	2	15.50	14.35	14.12	14.15
		3	3	15.50	14.26	14.18	14.20
		6	0	15.50	14.26	14.17	14.11
	16QAM	1	0	15.50	14.33	14.43	14.43
		1	3	15.50	14.43	14.45	14.48
		1	5	15.50	14.47	14.45	14.43
		3	0	15.50	14.22	14.16	14.18
		3	2	15.50	14.30	14.19	14.32
		3	3	15.50	14.26	14.28	14.26
		6	0	15.50	14.22	14.21	14.23
	64QAM	1	0	15.50	14.35	14.18	14.02
		1	3	15.50	14.32	14.18	14.10
		1	5	15.50	14.14	14.23	14.10
		3	0	15.50	14.12	14.04	14.02
		3	2	15.50	14.04	13.97	13.98
		3	3	15.50	14.09	14.12	14.10
		6	0	15.50	14.19	14.00	14.01
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131987CH	132322CH	132657CH
3MHz	QPSK	1	0	15.50	14.09	14.06	14.06
		1	7	15.50	14.20	14.19	14.18
		1	14	15.50	14.05	14.06	14.19
		8	0	15.50	14.11	14.09	14.09
		8	4	15.50	14.19	14.17	14.21
		8	7	15.50	14.11	14.11	14.10
		15	0	15.50	14.10	14.13	14.12
	16QAM	1	0	15.50	14.38	14.36	14.37
		1	7	15.50	14.46	14.48	14.46
		1	14	15.50	14.33	14.34	14.32
		8	0	15.50	14.15	14.14	14.08
		8	4	15.50	14.19	14.23	14.17
		8	7	15.50	14.26	14.19	14.27
		15	0	15.50	14.09	14.08	14.11
	64QAM	1	0	15.50	14.33	14.16	14.04
		1	7	15.50	14.32	14.22	14.08
		1	14	15.50	14.18	14.26	14.06
		8	0	15.50	14.12	14.04	13.98
		8	4	15.50	14.07	13.98	13.96
		8	7	15.50	14.10	14.11	14.07
		15	0	15.50	14.17	14.02	14.04

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131997CH	132322CH	132647CH
5MHz	QPSK	1	0	15.50	14.04	14.05	14.04
		1	13	15.50	14.05	14.03	14.05
		1	24	15.50	13.88	13.91	13.91
		12	0	15.50	14.10	14.19	14.17
		12	6	15.50	14.08	14.20	14.20
		12	13	15.50	14.17	14.17	14.19
		25	0	15.50	14.08	14.16	14.09
	16QAM	1	0	15.50	14.50	14.36	14.36
		1	13	15.50	14.33	14.34	14.32
		1	24	15.50	14.09	14.06	14.10
		12	0	15.50	14.05	14.13	14.13
		12	6	15.50	14.21	14.10	14.11
		12	13	15.50	14.16	14.16	14.15
		25	0	15.50	14.09	14.00	13.99
	64QAM	1	0	15.50	14.35	14.16	14.01
		1	13	15.50	14.29	14.18	14.08
		1	24	15.50	14.16	14.23	14.06
		12	0	15.50	14.12	14.06	13.99
		12	6	15.50	14.05	13.98	13.97
		12	13	15.50	14.08	14.13	14.06
		25	0	15.50	14.16	14.01	14.00
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132022CH	132322CH	132622CH
10MHz	QPSK	1	0	15.50	14.06	14.04	14.03
		1	25	15.50	13.77	13.72	13.75
		1	49	15.50	14.05	14.11	14.05
		25	0	15.50	14.08	14.13	14.13
		25	13	15.50	14.05	14.13	14.12
		25	25	15.50	14.13	14.13	14.12
		50	0	15.50	14.05	14.14	14.14
	16QAM	1	0	15.50	14.43	14.40	14.42
		1	25	15.50	13.91	14.10	14.04
		1	49	15.50	14.27	14.31	14.35
		25	0	15.50	14.08	14.05	14.08
		25	13	15.50	14.03	14.00	14.03
		25	25	15.50	14.08	14.07	13.96
		50	0	15.50	14.05	13.99	14.05
	64QAM	1	0	15.50	14.35	14.16	14.02
		1	25	15.50	14.30	14.18	14.08
		1	49	15.50	14.18	14.24	14.08
		25	0	15.50	14.12	14.04	14.02
		25	13	15.50	14.03	13.99	13.98
		25	25	15.50	14.06	14.11	14.08
		50	0	15.50	14.17	13.99	14.04

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132047CH	132322CH	132597CH
15MHz	QPSK	1	0	15.50	14.23	14.26	14.02
		1	38	15.50	14.19	14.22	14.08
		1	74	15.50	14.13	14.15	14.03
		36	0	15.50	14.23	14.13	14.15
		36	18	15.50	14.24	14.09	14.15
		36	39	15.50	14.27	14.14	14.13
		75	0	15.50	14.28	14.10	14.17
	16QAM	1	0	15.50	14.39	14.23	14.07
		1	38	15.50	14.36	14.25	14.14
		1	74	15.50	14.21	14.30	14.13
		36	0	15.50	14.17	14.10	14.06
		36	18	15.50	14.11	14.04	14.02
		36	39	15.50	14.14	14.16	14.14
		75	0	15.50	14.22	14.06	14.08
	64QAM	1	0	15.50	14.31	14.16	14.02
		1	38	15.50	14.29	14.22	14.10
		1	74	15.50	14.16	14.22	14.10
		36	0	15.50	14.13	14.03	14.01
		36	18	15.50	14.05	14.00	13.95
		36	39	15.50	14.07	14.09	14.07
		75	0	15.50	14.15	14.02	14.01
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132072CH	132322CH	132572CH
20MHz	QPSK	1	0	15.50	14.31	14.22	14.14
		1	50	15.50	13.74	13.76	13.80
		1	99	15.50	14.30	14.18	14.23
		50	0	15.50	14.33	14.12	14.10
		50	25	15.50	14.26	14.19	14.06
		50	50	15.50	14.18	14.11	14.09
		100	0	15.50	14.27	14.16	14.10
	16QAM	1	0	15.50	14.55	14.49	14.34
		1	50	15.50	14.34	13.48	14.14
		1	99	15.50	14.51	14.36	14.52
		50	0	15.50	14.12	14.06	14.01
		50	25	15.50	14.14	14.12	14.06
		50	50	15.50	14.12	14.16	14.05
		100	0	15.50	14.14	14.17	14.06
	64QAM	1	0	15.50	14.34	14.18	13.99
		1	50	15.50	14.31	14.18	14.09
		1	99	15.50	14.14	14.23	14.09
		50	0	15.50	14.12	14.02	14.01
		50	25	15.50	14.07	13.96	13.98
		50	50	15.50	14.08	14.11	14.11
		100	0	15.50	14.17	14.00	14.03

Table 93: Conducted power measurement results of LTE Band 66 (Receiver ON)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131979CH	132322CH	132665CH
1.4MHz	QPSK	1	0	13.00	11.74	11.57	11.64
		1	3	13.00	11.43	11.64	11.63
		1	5	13.00	11.71	11.73	11.72
		3	0	13.00	11.53	11.59	11.62
		3	2	13.00	11.57	11.65	11.66
		3	3	13.00	11.66	11.64	11.73
		6	0	13.00	11.58	11.68	11.63
	16QAM	1	0	13.00	11.90	12.03	12.03
		1	3	13.00	11.96	12.01	12.03
		1	5	13.00	12.02	12.01	11.90
		3	0	13.00	11.68	11.70	11.71
		3	2	13.00	11.89	11.76	11.89
		3	3	13.00	11.82	11.82	11.85
		6	0	13.00	11.63	11.75	11.78
	64QAM	1	0	13.00	11.70	11.75	11.51
		1	3	13.00	11.82	11.83	11.61
		1	5	13.00	11.70	11.71	11.61
		3	0	13.00	11.69	11.52	11.45
		3	2	13.00	11.65	11.66	11.46
		3	3	13.00	11.68	11.66	11.59
		6	0	13.00	11.68	11.47	11.56
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131987CH	132322CH	132657CH
3MHz	QPSK	1	0	13.00	11.59	11.55	11.59
		1	7	13.00	11.77	11.76	11.76
		1	14	13.00	11.54	11.61	11.68
		8	0	13.00	11.59	11.57	11.60
		8	4	13.00	11.75	11.75	11.75
		8	7	13.00	11.56	11.57	11.56
		15	0	13.00	11.61	11.64	11.63
	16QAM	1	0	13.00	11.89	11.86	11.89
		1	7	13.00	12.05	12.07	12.07
		1	14	13.00	11.87	11.88	11.86
		8	0	13.00	11.63	11.62	11.62
		8	4	13.00	11.77	11.76	11.76
		8	7	13.00	11.64	11.70	11.65
		15	0	13.00	11.69	11.68	11.64
	64QAM	1	0	13.00	11.72	11.74	11.50
		1	7	13.00	11.80	11.82	11.61
		1	14	13.00	11.73	11.75	11.63
		8	0	13.00	11.72	11.52	11.45
		8	4	13.00	11.66	11.66	11.44
		8	7	13.00	11.67	11.64	11.61
		15	0	13.00	11.71	11.49	11.58

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131997CH	132322CH	132647CH
5MHz	QPSK	1	0	13.00	11.55	11.57	11.54
		1	13	13.00	11.59	11.62	11.62
		1	24	13.00	11.41	11.42	11.39
		12	0	13.00	11.62	11.73	11.64
		12	6	13.00	11.58	11.69	11.69
		12	13	13.00	11.65	11.76	11.71
		25	0	13.00	11.58	11.67	11.64
	16QAM	1	0	13.00	11.99	11.87	11.86
		1	13	13.00	11.89	11.88	11.86
		1	24	13.00	11.61	11.62	11.58
		12	0	13.00	11.60	11.57	11.59
		12	6	13.00	11.65	11.64	11.67
		12	13	13.00	11.67	11.68	11.69
		25	0	13.00	11.61	11.46	11.46
	64QAM	1	0	13.00	11.71	11.73	11.53
		1	13	13.00	11.80	11.82	11.61
		1	24	13.00	11.72	11.76	11.62
		12	0	13.00	11.71	11.56	11.49
		12	6	13.00	11.63	11.63	11.47
		12	13	13.00	11.66	11.65	11.59
		25	0	13.00	11.68	11.48	11.60
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132022CH	132322CH	132622CH
10MHz	QPSK	1	0	13.00	11.56	11.55	11.58
		1	25	13.00	11.18	11.17	11.16
		1	49	13.00	11.57	11.60	11.56
		25	0	13.00	11.64	11.70	11.68
		25	13	13.00	11.61	11.68	11.67
		25	25	13.00	11.67	11.73	11.75
		50	0	13.00	11.63	11.71	11.69
	16QAM	1	0	13.00	11.96	11.93	11.95
		1	25	13.00	11.49	11.56	11.49
		1	49	13.00	11.82	11.89	11.88
		25	0	13.00	11.60	11.59	11.61
		25	13	13.00	11.53	11.53	11.54
		25	25	13.00	11.60	11.59	11.48
		50	0	13.00	11.58	11.56	11.58
	64QAM	1	0	13.00	11.72	11.73	11.49
		1	25	13.00	11.82	11.82	11.60
		1	49	13.00	11.74	11.73	11.61
		25	0	13.00	11.69	11.52	11.49
		25	13	13.00	11.63	11.65	11.43
		25	25	13.00	11.64	11.65	11.60
		50	0	13.00	11.69	11.49	11.56

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132047CH	132322CH	132597CH
15MHz	QPSK	1	0	13.00	11.73	11.71	11.54
		1	38	13.00	11.71	11.69	11.61
		1	74	13.00	11.57	11.64	11.54
		36	0	13.00	11.76	11.62	11.70
		36	18	13.00	11.80	11.63	11.63
		36	39	13.00	11.74	11.64	11.64
		75	0	13.00	11.79	11.60	11.65
	16QAM	1	0	13.00	11.78	11.80	11.56
		1	38	13.00	11.85	11.86	11.67
		1	74	13.00	11.77	11.79	11.68
		36	0	13.00	11.76	11.59	11.52
		36	18	13.00	11.71	11.69	11.51
		36	39	13.00	11.72	11.72	11.65
		75	0	13.00	11.74	11.55	11.64
	64QAM	1	0	13.00	11.73	11.75	11.52
		1	38	13.00	11.78	11.80	11.62
		1	74	13.00	11.70	11.75	11.62
		36	0	13.00	11.69	11.55	11.48
		36	18	13.00	11.63	11.63	11.46
		36	39	13.00	11.65	11.68	11.61
		75	0	13.00	11.69	11.50	11.56
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132072CH	132322CH	132572CH
20MHz	QPSK	1	0	13.00	11.76	11.71	11.60
		1	50	13.00	11.26	11.29	11.23
		1	99	13.00	11.82	11.68	11.67
		50	0	13.00	11.75	11.63	11.60
		50	25	13.00	11.76	11.72	11.56
		50	50	13.00	11.66	11.66	11.64
		100	0	13.00	11.82	11.65	11.66
	16QAM	1	0	13.00	12.13	11.89	11.85
		1	50	13.00	11.81	11.16	11.68
		1	99	13.00	12.01	11.83	11.96
		50	0	13.00	11.66	11.57	11.53
		50	25	13.00	11.55	11.63	11.60
		50	50	13.00	11.61	11.60	11.58
		100	0	13.00	11.75	11.71	11.59
	64QAM	1	0	13.00	11.71	11.75	11.49
		1	50	13.00	11.82	11.81	11.63
		1	99	13.00	11.71	11.74	11.61
		50	0	13.00	11.72	11.51	11.48
		50	25	13.00	11.63	11.62	11.46
		50	50	13.00	11.64	11.69	11.61
		100	0	13.00	11.69	11.51	11.60

Table 94: Conducted power measurement results of LTE Band 66 (Second Antenna+WiFi Antenna, Receiver ON)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131979CH	132322CH	132665CH
1.4MHz	QPSK	1	0	19.50	18.20	18.03	18.16
		1	3	19.50	17.92	18.15	18.15
		1	5	19.50	18.19	18.10	18.09
		3	0	19.50	18.05	18.07	18.06
		3	2	19.50	18.06	18.18	18.15
		3	3	19.50	18.21	18.08	18.08
		6	0	19.50	18.00	18.24	18.13
	16QAM	1	0	19.50	18.36	18.46	18.45
		1	3	19.50	18.46	18.50	18.38
		1	5	19.50	18.50	18.50	18.51
		3	0	19.50	18.16	18.17	18.24
		3	2	19.50	18.24	18.23	18.23
		3	3	19.50	18.33	18.27	18.24
		6	0	19.50	18.24	18.21	18.24
	64QAM	1	0	19.50	18.15	18.26	18.13
		1	3	19.50	18.21	18.36	18.11
		1	5	19.50	18.31	18.21	18.17
		3	0	19.50	18.15	18.04	18.11
		3	2	19.50	18.07	18.09	18.07
		3	3	19.50	18.11	18.13	17.92
		6	0	19.50	18.16	17.98	18.13
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131987CH	132322CH	132657CH
3MHz	QPSK	1	0	19.50	18.11	18.07	18.10
		1	7	19.50	18.09	18.13	18.10
		1	14	19.50	18.12	18.09	18.13
		8	0	19.50	18.07	18.05	18.05
		8	4	19.50	18.11	18.13	18.08
		8	7	19.50	18.06	18.06	18.05
		15	0	19.50	18.14	18.23	18.19
	16QAM	1	0	19.50	18.40	18.33	18.40
		1	7	19.50	18.48	18.49	18.48
		1	14	19.50	18.36	18.36	18.35
		8	0	19.50	18.22	18.16	18.16
		8	4	19.50	18.10	18.20	18.20
		8	7	19.50	18.20	18.13	18.13
		15	0	19.50	18.12	18.11	18.05
	64QAM	1	0	19.50	18.12	18.25	18.12
		1	7	19.50	18.19	18.33	18.13
		1	14	19.50	18.33	18.22	18.19
		8	0	19.50	18.14	18.00	18.10
		8	4	19.50	18.10	18.11	18.03
		8	7	19.50	18.12	18.11	17.94

		15	0	19.50	18.17	18.01	18.13
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Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131997CH	132322CH	132647CH
5MHz	QPSK	1	0	19.50	18.05	18.08	18.07
		1	13	19.50	18.10	18.09	18.10
		1	24	19.50	17.91	17.91	17.88
		12	0	19.50	18.11	18.09	18.08
		12	6	19.50	18.13	18.14	18.14
		12	13	19.50	18.22	18.09	18.10
		25	0	19.50	18.09	18.18	18.18
	16QAM	1	0	19.50	18.44	18.41	18.39
		1	13	19.50	18.35	18.37	18.38
		1	24	19.50	18.12	18.10	18.10
		12	0	19.50	18.13	18.21	18.21
		12	6	19.50	18.17	18.11	18.11
		12	13	19.50	18.09	18.15	18.16
		25	0	19.50	18.00	18.03	18.03
	64QAM	1	0	19.50	18.15	18.24	18.13
		1	13	19.50	18.21	18.34	18.14
		1	24	19.50	18.34	18.24	18.18
		12	0	19.50	18.11	18.00	18.11
		12	6	19.50	18.10	18.07	18.03
		12	13	19.50	18.10	18.14	17.92
		25	0	19.50	18.19	17.97	18.12
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132022CH	132322CH	132622CH
10MHz	QPSK	1	0	19.50	18.09	18.04	18.07
		1	25	19.50	17.68	17.73	17.72
		1	49	19.50	18.18	18.18	18.16
		25	0	19.50	18.18	18.16	18.15
		25	13	19.50	18.15	18.15	18.14
		25	25	19.50	18.23	18.22	18.22
		50	0	19.50	18.11	18.14	18.14
	16QAM	1	0	19.50	18.30	18.44	18.37
		1	25	19.50	17.99	18.06	18.13
		1	49	19.50	18.34	18.47	18.45
		25	0	19.50	17.98	17.98	17.96
		25	13	19.50	17.96	17.96	17.93
		25	25	19.50	18.07	18.09	17.98
		50	0	19.50	17.99	17.95	18.06
	64QAM	1	0	19.50	18.12	18.27	18.12
		1	25	19.50	18.17	18.34	18.14
		1	49	19.50	18.33	18.22	18.18
		25	0	19.50	18.14	18.03	18.11
		25	13	19.50	18.08	18.09	18.05
		25	25	19.50	18.08	18.12	17.93
		50	0	19.50	18.17	17.99	18.13

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132047CH	132322CH	132597CH
15MHz	QPSK	1	0	19.50	18.11	18.22	18.03
		1	38	19.50	18.08	18.30	18.11
		1	74	19.50	18.19	18.20	18.06
		36	0	19.50	18.19	18.09	18.15
		36	18	19.50	18.28	18.22	18.18
		36	39	19.50	18.31	18.26	18.19
		75	0	19.50	18.27	18.08	18.22
	16QAM	1	0	19.50	18.20	18.32	18.20
		1	38	19.50	18.24	18.40	18.18
		1	74	19.50	18.37	18.27	18.23
		36	0	19.50	18.19	18.08	18.15
		36	18	19.50	18.13	18.15	18.11
		36	39	19.50	18.16	18.19	18.00
		75	0	19.50	18.22	18.05	18.20
	64QAM	1	0	19.50	18.15	18.27	18.14
		1	38	19.50	18.19	18.32	18.12
		1	74	19.50	18.34	18.23	18.20
		36	0	19.50	18.12	18.04	18.08
		36	18	19.50	18.08	18.11	18.07
		36	39	19.50	18.11	18.14	17.93
		75	0	19.50	18.16	18.01	18.13
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132072CH	132322CH	132572CH
20MHz	QPSK	1	0	19.50	18.32	18.30	18.14
		1	50	19.50	17.65	17.80	17.89
		1	99	19.50	18.42	18.19	18.29
		50	0	19.50	18.35	18.14	18.17
		50	25	19.50	18.23	18.19	18.04
		50	50	19.50	18.36	18.23	18.20
		100	0	19.50	18.21	18.18	18.19
	16QAM	1	0	19.50	18.59	18.49	18.45
		1	50	19.50	18.40	17.65	18.17
		1	99	19.50	18.59	18.43	18.52
		50	0	19.50	18.22	18.11	18.13
		50	25	19.50	18.13	17.99	18.03
		50	50	19.50	18.13	18.16	18.13
		100	0	19.50	18.14	18.07	18.12
	64QAM	1	0	19.50	18.17	18.24	18.16
		1	50	19.50	18.18	18.33	18.15
		1	99	19.50	18.34	18.21	18.17
		50	0	19.50	18.12	18.01	18.10
		50	25	19.50	18.06	18.10	18.04
		50	50	19.50	18.09	18.15	17.95
		100	0	19.50	18.18	18.00	18.12

Table 95: Conducted power measurement results of LTE Band 66 (Second Antenna+WiFi Antenna, Receiver OFF)

7.1.30 Conducted power measurements of LTE Band 66 (Main Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131979CH	132322CH	132665CH
1.4MHz	QPSK	1	0	24.50	23.36	23.28	23.39
		1	3	24.50	23.16	23.41	23.26
		1	5	24.50	23.37	23.29	23.27
		3	0	24.50	23.23	23.35	23.42
		3	2	24.50	23.17	23.43	23.31
		3	3	24.50	23.29	23.31	23.33
		6	0	23.50	22.40	23.33	23.36
	16QAM	1	0	23.50	22.67	22.81	22.80
		1	3	23.50	22.77	22.80	22.80
		1	5	23.50	22.79	22.69	22.81
		3	0	23.50	22.36	22.40	22.52
		3	2	23.50	22.56	22.56	22.41
		3	3	23.50	22.42	22.38	22.46
		6	0	22.50	22.26	22.37	22.35
	64QAM	1	0	22.50	21.58	21.79	21.73
		1	3	22.50	21.47	21.43	21.50
		1	5	22.50	21.59	21.50	21.40
		3	0	22.50	21.61	21.76	21.72
		3	2	22.50	21.47	21.43	21.51
		3	3	22.50	21.58	21.50	21.44
		6	0	21.50	20.14	20.18	20.23
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131987CH	132322CH	132657CH
3MHz	QPSK	1	0	24.50	23.39	23.39	23.38
		1	7	24.50	23.32	23.32	23.32
		1	14	24.50	23.27	23.30	23.31
		8	0	23.50	23.31	23.32	23.33
		8	4	23.50	23.38	23.37	23.35
		8	7	23.50	23.34	23.32	23.35
		15	0	23.50	22.44	22.39	22.37
	16QAM	1	0	23.50	22.73	22.73	22.71
		1	7	23.50	22.84	22.84	22.82
		1	14	23.50	22.79	22.79	22.79
		8	0	22.50	22.22	22.30	22.23
		8	4	22.50	22.25	22.36	22.24
		8	7	22.50	22.31	22.32	22.26
		15	0	22.50	21.27	21.26	21.27
	64QAM	1	0	22.50	21.61	21.77	21.74
		1	7	22.50	21.47	21.38	21.49
		1	14	22.50	21.59	21.48	21.44
		8	0	21.50	20.15	20.21	20.26
		8	4	21.50	20.00	19.99	20.08
		8	7	21.50	20.12	20.03	20.08

		15	0	21.50	20.07	20.20	20.12
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Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131997CH	132322CH	132647CH
5MHz	QPSK	1	0	24.50	23.37	23.27	23.38
		1	13	24.50	23.31	23.32	23.26
		1	24	24.50	22.90	22.92	22.89
		12	0	23.50	23.49	23.46	23.44
		12	6	23.50	23.37	23.36	23.34
		12	13	23.50	23.39	23.38	23.37
		25	0	23.50	22.35	22.33	22.31
	16QAM	1	0	23.50	22.77	22.76	22.65
		1	13	23.50	22.83	22.84	22.76
		1	24	23.50	22.46	22.39	22.36
		12	0	22.50	22.43	22.36	22.36
		12	6	22.50	22.39	22.42	22.38
		12	13	22.50	22.36	22.33	22.31
		25	0	22.50	21.28	21.37	21.37
	64QAM	1	0	22.50	21.59	21.80	21.72
		1	13	22.50	21.48	21.42	21.53
		1	24	22.50	21.58	21.52	21.43
		12	0	21.50	20.17	20.19	20.26
		12	6	21.50	20.00	19.95	20.04
		12	13	21.50	20.08	20.06	20.09
		25	0	21.50	20.05	20.23	20.09
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132022CH	132322CH	132622CH
10MHz	QPSK	1	0	24.50	23.39	23.38	23.40
		1	25	24.50	23.14	23.15	23.09
		1	49	24.50	23.41	23.44	23.41
		25	0	23.50	22.33	22.33	22.33
		25	13	23.50	22.32	22.36	22.33
		25	25	23.50	22.44	22.34	22.33
		50	0	23.50	22.48	22.34	22.35
	16QAM	1	0	23.50	22.83	22.83	22.84
		1	25	23.50	22.13	22.09	22.15
		1	49	23.50	22.82	22.76	22.81
		25	0	22.50	21.27	21.29	21.29
		25	13	22.50	21.23	21.23	21.23
		25	25	22.50	21.39	21.40	21.41
		50	0	22.50	21.25	21.24	21.25
	64QAM	1	0	22.50	21.56	21.80	21.72
		1	25	22.50	21.47	21.40	21.49
		1	49	22.50	21.61	21.48	21.44
		25	0	21.50	20.15	20.20	20.23
		25	13	21.50	19.99	19.99	20.07
		25	25	21.50	20.12	20.06	20.11
		50	0	21.50	20.06	20.23	20.10

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132047CH	132322CH	132597CH
15MHz	QPSK	1	0	24.50	23.43	23.26	23.38
		1	38	24.50	23.47	23.36	23.27
		1	74	24.50	23.38	23.28	23.17
		36	0	23.50	22.36	22.45	22.41
		36	18	23.50	22.47	22.34	22.34
		36	39	23.50	22.50	22.35	22.30
		75	0	23.50	22.39	22.31	22.34
	16QAM	1	0	23.50	22.46	22.49	22.24
		1	38	23.50	22.54	22.46	22.30
		1	74	23.50	22.49	22.40	22.15
		36	0	22.50	21.38	21.28	21.40
		36	18	22.50	21.34	21.26	21.31
		36	39	22.50	21.37	21.29	21.23
		75	0	22.50	21.44	21.32	21.23
	64QAM	1	0	22.50	21.60	21.80	21.69
		1	38	22.50	21.46	21.42	21.52
		1	74	22.50	21.58	21.51	21.43
		36	0	21.50	20.17	20.21	20.24
		36	18	21.50	20.01	19.95	20.05
		36	39	21.50	20.10	20.02	20.09
		75	0	21.50	20.07	20.21	20.13
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132072CH	132322CH	132572CH
20MHz	QPSK	1	0	24.50	23.47	23.50	23.56
		1	50	24.50	23.14	22.78	22.91
		1	99	24.50	23.73	23.44	23.29
		50	0	23.50	22.37	22.39	22.31
		50	25	23.50	22.39	22.38	22.40
		50	50	23.50	22.36	22.37	22.29
		100	0	23.50	22.37	22.36	22.42
	16QAM	1	0	23.50	23.00	22.62	22.78
		1	50	23.50	22.61	22.21	22.32
		1	99	23.50	23.19	22.56	22.66
		50	0	22.50	21.33	21.31	21.20
		50	25	22.50	21.27	21.29	21.30
		50	50	22.50	21.51	21.31	21.19
		100	0	22.50	21.43	21.32	21.39
	64QAM	1	0	22.50	21.64	21.84	21.77
		1	50	22.50	21.53	21.46	21.56
		1	99	22.50	21.66	21.55	21.48
		50	0	21.50	20.21	20.25	20.30
		50	25	21.50	20.06	20.03	20.11
		50	50	21.50	20.16	20.10	20.16
		100	0	21.50	20.13	20.27	20.17

Table 96: Conducted power measurement results of LTE Band 66 (Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131979CH	132322CH	132665CH
1.4MHz	QPSK	1	0	19.50	18.43	18.33	18.40
		1	3	19.50	18.19	18.39	18.37
		1	5	19.50	18.32	18.46	18.43
		3	0	19.50	18.17	18.45	18.47
		3	2	19.50	18.36	18.41	18.41
		3	3	19.50	18.36	18.43	18.49
		6	0	19.50	18.42	18.52	18.46
	16QAM	1	0	19.50	18.76	18.78	18.79
		1	3	19.50	18.83	18.81	18.80
		1	5	19.50	18.78	18.80	18.79
		3	0	19.50	18.49	18.50	18.56
		3	2	19.50	18.54	18.53	18.54
		3	3	19.50	18.48	18.48	18.50
		6	0	19.50	18.48	18.40	18.51
	64QAM	1	0	19.50	18.77	18.78	18.73
		1	3	19.50	18.79	18.77	18.70
		1	5	19.50	18.41	18.37	18.44
		3	0	19.50	18.43	18.37	18.43
		3	2	19.50	18.40	18.41	18.43
		3	3	19.50	18.40	18.42	18.42
		6	0	19.50	18.37	18.30	18.31
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131987CH	132322CH	132657CH
3MHz	QPSK	1	0	19.50	18.33	18.41	18.48
		1	7	19.50	18.43	18.46	18.45
		1	14	19.50	18.44	18.46	18.46
		8	0	19.50	18.44	18.44	18.47
		8	4	19.50	18.47	18.34	18.42
		8	7	19.50	18.48	18.47	18.48
		15	0	19.50	18.47	18.49	18.50
	16QAM	1	0	19.50	18.80	18.67	18.81
		1	7	19.50	18.81	18.80	18.81
		1	14	19.50	18.77	18.84	18.84
		8	0	19.50	18.43	18.44	18.43
		8	4	19.50	18.45	18.45	18.46
		8	7	19.50	18.47	18.44	18.52
		15	0	19.50	18.41	18.40	18.39
	64QAM	1	0	19.50	18.74	18.75	18.74
		1	7	19.50	18.77	18.78	18.71
		1	14	19.50	18.44	18.41	18.42
		8	0	19.50	18.43	18.36	18.45
		8	4	19.50	18.40	18.43	18.40
		8	7	19.50	18.44	18.40	18.43
		15	0	19.50	18.34	18.31	18.29

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131997CH	132322CH	132647CH
5MHz	QPSK	1	0	19.50	18.42	18.42	18.39
		1	13	19.50	18.45	18.47	18.44
		1	24	19.50	17.86	17.85	17.84
		12	0	19.50	18.47	18.43	18.42
		12	6	19.50	18.50	18.49	18.47
		12	13	19.50	18.36	18.51	18.49
		25	0	19.50	18.46	18.46	18.46
	16QAM	1	0	19.50	18.82	18.82	18.80
		1	13	19.50	18.83	18.83	18.74
		1	24	19.50	18.48	18.44	18.48
		12	0	19.50	18.49	18.43	18.49
		12	6	19.50	18.47	18.47	18.47
		12	13	19.50	18.47	18.47	18.47
		25	0	19.50	18.42	18.38	18.37
	64QAM	1	0	19.50	18.75	18.77	18.73
		1	13	19.50	18.77	18.78	18.67
		1	24	19.50	18.42	18.38	18.43
		12	0	19.50	18.42	18.37	18.42
		12	6	19.50	18.40	18.40	18.41
		12	13	19.50	18.44	18.41	18.43
		25	0	19.50	18.37	18.34	18.31
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132022CH	132322CH	132622CH
10MHz	QPSK	1	0	19.50	18.38	18.45	18.47
		1	25	19.50	18.08	18.10	18.11
		1	49	19.50	18.35	18.41	18.45
		25	0	19.50	18.46	18.48	18.37
		25	13	19.50	18.45	18.45	18.46
		25	25	19.50	18.48	18.40	18.39
		50	0	19.50	18.45	18.44	18.47
	16QAM	1	0	19.50	18.73	18.74	18.75
		1	25	19.50	18.19	18.26	18.11
		1	49	19.50	18.82	18.82	18.82
		25	0	19.50	18.38	18.40	18.40
		25	13	19.50	18.29	18.30	18.30
		25	25	19.50	18.41	18.41	18.41
		50	0	19.50	18.31	18.33	18.33
	64QAM	1	0	19.50	18.96	18.73	18.75
		1	25	19.50	18.59	18.09	18.32
		1	49	19.50	19.18	18.66	18.72
		25	0	19.50	18.33	18.30	18.11
		25	13	19.50	18.23	18.31	18.15
		25	25	19.50	18.41	18.29	18.22
		50	0	19.50	18.34	18.35	18.33

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132047CH	132322CH	132597CH
15MHz	QPSK	1	0	19.50	18.38	18.41	18.35
		1	38	19.50	18.34	18.43	18.41
		1	74	19.50	18.39	18.42	18.29
		36	0	19.50	18.41	18.50	18.37
		36	18	19.50	18.48	18.44	18.41
		36	39	19.50	18.42	18.49	18.29
		75	0	19.50	18.39	18.37	18.44
	16QAM	1	0	19.50	18.54	18.46	18.21
		1	38	19.50	18.50	18.57	18.28
		1	74	19.50	18.51	18.50	18.28
		36	0	19.50	18.46	18.28	18.31
		36	18	19.50	18.35	18.31	18.38
		36	39	19.50	18.33	18.27	18.34
		75	0	19.50	18.45	18.39	18.24
	64QAM	1	0	19.50	18.94	18.71	18.74
		1	38	19.50	18.57	18.08	18.30
		1	74	19.50	19.21	18.65	18.69
		36	0	19.50	18.30	18.32	18.14
		36	18	19.50	18.23	18.31	18.15
		36	39	19.50	18.43	18.31	18.22
		75	0	19.50	18.36	18.38	18.33
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132072CH	132322CH	132572CH
20MHz	QPSK	1	0	19.50	18.50	18.41	18.29
		1	50	19.50	18.09	17.82	17.74
		1	99	19.50	18.67	18.51	18.49
		50	0	19.50	18.39	18.51	18.29
		50	25	19.50	18.32	18.42	18.38
		50	50	19.50	18.50	18.45	18.39
		100	0	19.50	18.46	18.47	18.42
	16QAM	1	0	19.50	19.02	18.76	18.79
		1	50	19.50	18.65	18.15	18.35
		1	99	19.50	19.26	18.70	18.75
		50	0	19.50	18.38	18.36	18.19
		50	25	19.50	18.30	18.37	18.23
		50	50	19.50	18.49	18.35	18.30
		100	0	19.50	18.39	18.42	18.37
	64QAM	1	0	19.50	18.94	18.69	18.73
		1	50	19.50	18.59	18.08	18.30
		1	99	19.50	19.20	18.66	18.69
		50	0	19.50	18.32	18.32	18.14
		50	25	19.50	18.25	18.32	18.19
		50	50	19.50	18.42	18.31	18.24
		100	0	19.50	18.35	18.37	18.33

Table 97: Conducted power measurement results of LTE Band 66 (Reduced Power Level D2)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131979CH	132322CH	132665CH
1.4MHz	QPSK	1	0	17.50	16.47	16.47	16.45
		1	3	17.50	16.13	16.49	16.47
		1	5	17.50	16.52	16.51	16.52
		3	0	17.50	16.45	16.44	16.41
		3	2	17.50	16.38	16.50	16.46
		3	3	17.50	16.36	16.52	16.52
		6	0	17.50	16.32	16.53	16.56
	16QAM	1	0	17.50	16.55	16.50	16.56
		1	3	17.50	16.61	16.61	16.52
		1	5	17.50	16.62	16.52	16.58
		3	0	17.50	16.39	16.48	16.47
		3	2	17.50	16.52	16.50	16.51
		3	3	17.50	16.57	16.57	16.56
		6	0	17.50	16.62	16.48	16.59
	64QAM	1	0	17.50	16.49	16.41	16.53
		1	3	17.50	16.50	16.66	16.47
		1	5	17.50	16.37	16.59	16.32
		3	0	17.50	16.38	16.38	16.32
		3	2	17.50	16.35	16.36	16.42
		3	3	17.50	16.46	16.43	16.32
		6	0	17.50	16.34	16.33	16.24
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131987CH	132322CH	132657CH
3MHz	QPSK	1	0	17.50	16.41	16.40	16.40
		1	7	17.50	16.49	16.47	16.49
		1	14	17.50	16.52	16.52	16.50
		8	0	17.50	16.49	16.49	16.48
		8	4	17.50	16.54	16.53	16.52
		8	7	17.50	16.49	16.49	16.48
		15	0	17.50	16.52	16.52	16.52
	16QAM	1	0	17.50	16.58	16.58	16.53
		1	7	17.50	16.58	16.64	16.60
		1	14	17.50	16.63	16.57	16.61
		8	0	17.50	16.31	16.48	16.42
		8	4	17.50	16.40	16.40	16.27
		8	7	17.50	16.53	16.35	16.36
		15	0	17.50	16.48	16.47	16.47
	64QAM	1	0	17.50	16.48	16.42	16.53
		1	7	17.50	16.47	16.67	16.46
		1	14	17.50	16.35	16.61	16.33
		8	0	17.50	16.38	16.41	16.30
		8	4	17.50	16.31	16.39	16.38
		8	7	17.50	16.42	16.41	16.27
		15	0	17.50	16.34	16.35	16.24

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131997CH	132322CH	132647CH
5MHz	QPSK	1	0	17.50	16.49	16.49	16.35
		1	13	17.50	16.51	16.52	16.41
		1	24	17.50	16.35	16.38	16.38
		12	0	17.50	16.44	16.44	16.51
		12	6	17.50	16.42	16.42	16.42
		12	13	17.50	16.41	16.41	16.50
		25	0	17.50	16.43	16.42	16.50
	16QAM	1	0	17.50	16.64	16.60	16.64
		1	13	17.50	16.64	16.70	16.65
		1	24	17.50	16.36	16.38	16.37
		12	0	17.50	16.36	16.32	16.33
		12	6	17.50	16.38	16.44	16.37
		12	13	17.50	16.35	16.36	16.34
		25	0	17.50	16.35	16.34	16.34
	64QAM	1	0	17.50	16.50	16.41	16.53
		1	13	17.50	16.46	16.67	16.47
		1	24	17.50	16.35	16.59	16.32
		12	0	17.50	16.38	16.39	16.34
		12	6	17.50	16.30	16.38	16.42
		12	13	17.50	16.43	16.42	16.31
		25	0	17.50	16.34	16.32	16.25
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132022CH	132322CH	132622CH
10MHz	QPSK	1	0	17.50	16.47	16.47	16.37
		1	25	17.50	16.00	16.09	16.09
		1	49	17.50	16.44	16.50	16.51
		25	0	17.50	16.41	16.40	16.52
		25	13	17.50	16.48	16.48	16.35
		25	25	17.50	16.51	16.52	16.48
		50	0	17.50	16.46	16.47	16.38
	16QAM	1	0	17.50	16.55	16.64	16.57
		1	25	17.50	16.35	16.38	16.33
		1	49	17.50	16.56	16.55	16.60
		25	0	17.50	16.32	16.32	16.41
		25	13	17.50	16.40	16.39	16.23
		25	25	17.50	16.39	16.39	16.41
		50	0	17.50	16.42	16.38	16.40
	64QAM	1	0	17.50	16.49	16.41	16.54
		1	25	17.50	16.50	16.67	16.44
		1	49	17.50	16.38	16.59	16.33
		25	0	17.50	16.38	16.40	16.31
		25	13	17.50	16.32	16.37	16.41
		25	25	17.50	16.44	16.42	16.31
		50	0	17.50	16.33	16.31	16.27

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132047CH	132322CH	132597CH
15MHz	QPSK	1	0	17.50	16.46	16.36	16.47
		1	38	17.50	16.51	16.54	16.35
		1	74	17.50	16.36	16.42	16.31
		36	0	17.50	16.49	16.53	16.51
		36	18	17.50	16.47	16.49	16.49
		36	39	17.50	16.56	16.52	16.39
		75	0	17.50	16.40	16.52	16.43
	16QAM	1	0	17.50	16.53	16.48	16.59
		1	38	17.50	16.53	16.72	16.50
		1	74	17.50	16.42	16.67	16.37
		36	0	17.50	16.42	16.46	16.38
		36	18	17.50	16.38	16.44	16.46
		36	39	17.50	16.50	16.46	16.35
		75	0	17.50	16.39	16.38	16.31
	64QAM	1	0	17.50	16.47	16.41	16.56
		1	38	17.50	16.46	16.67	16.43
		1	74	17.50	16.37	16.59	16.30
		36	0	17.50	16.37	16.42	16.30
		36	18	17.50	16.33	16.39	16.41
		36	39	17.50	16.44	16.39	16.32
		75	0	17.50	16.33	16.34	16.26
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132072CH	132322CH	132572CH
20MHz	QPSK	1	0	17.50	16.58	16.54	16.47
		1	50	17.50	16.10	16.12	16.10
		1	99	17.50	16.64	16.46	16.53
		50	0	17.50	16.57	16.41	16.51
		50	25	17.50	16.43	16.50	16.46
		50	50	17.50	16.51	16.50	16.44
		100	0	17.50	16.59	16.47	16.48
	16QAM	1	0	17.50	17.04	16.88	16.90
		1	50	17.50	16.62	16.46	16.30
		1	99	17.50	17.11	16.85	16.86
		50	0	17.50	16.49	16.45	16.45
		50	25	17.50	16.36	16.40	16.34
		50	50	17.50	16.43	16.43	16.45
		100	0	17.50	16.53	16.38	16.39
	64QAM	1	0	17.50	16.49	16.43	16.52
		1	50	17.50	16.47	16.67	16.43
		1	99	17.50	16.35	16.63	16.29
		50	0	17.50	16.35	16.43	16.33
		50	25	17.50	16.32	16.39	16.42
		50	50	17.50	16.44	16.41	16.27
		100	0	17.50	16.36	16.31	16.23

Table 98: Conducted power measurement results of LTE Band 66 (Reduced Power D4/D5)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131979CH	132322CH	132665CH
1.4MHz	QPSK	1	0	12.50	11.53	11.38	11.37
		1	3	12.50	11.08	11.43	11.40
		1	5	12.50	11.51	11.46	11.43
		3	0	12.50	11.45	11.39	11.37
		3	2	12.50	11.41	11.43	11.40
		3	3	12.50	11.33	11.51	11.49
		6	0	12.50	11.42	11.49	11.54
	16QAM	1	0	12.50	11.57	11.57	11.53
		1	3	12.50	11.49	11.49	11.46
		1	5	12.50	11.54	11.51	11.50
		3	0	12.50	11.44	11.40	11.47
		3	2	12.50	11.48	11.46	11.35
		3	3	12.50	11.51	11.50	11.48
		6	0	12.50	11.59	11.47	11.46
	64QAM	1	0	12.50	11.47	11.48	11.47
		1	3	12.50	11.44	11.69	11.47
		1	5	12.50	11.37	11.60	11.43
		3	0	12.50	11.43	11.34	11.35
		3	2	12.50	11.34	11.29	11.35
		3	3	12.50	11.41	11.32	11.22
		6	0	12.50	11.34	11.28	11.26
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131987CH	132322CH	132657CH
3MHz	QPSK	1	0	12.50	11.38	11.39	11.39
		1	7	12.50	11.41	11.40	11.39
		1	14	12.50	11.56	11.54	11.55
		8	0	12.50	11.41	11.42	11.41
		8	4	12.50	11.53	11.52	11.52
		8	7	12.50	11.49	11.55	11.53
		15	0	12.50	11.52	11.51	11.50
	16QAM	1	0	12.50	11.49	11.46	11.66
		1	7	12.50	11.45	11.46	11.59
		1	14	12.50	11.73	11.67	11.65
		8	0	12.50	11.35	11.26	11.52
		8	4	12.50	11.53	11.38	11.35
		8	7	12.50	11.59	11.58	11.46
		15	0	12.50	11.43	11.42	11.43
	64QAM	1	0	12.50	11.50	11.51	11.45
		1	7	12.50	11.42	11.65	11.47
		1	14	12.50	11.35	11.59	11.41
		8	0	12.50	11.44	11.32	11.35
		8	4	12.50	11.32	11.33	11.33
		8	7	12.50	11.44	11.28	11.22
		15	0	12.50	11.36	11.32	11.27

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	131997CH	132322CH	132647CH
5MHz	QPSK	1	0	12.50	11.50	11.50	11.34
		1	13	12.50	11.50	11.51	11.42
		1	24	12.50	11.31	11.35	11.39
		12	0	12.50	11.38	11.37	11.46
		12	6	12.50	11.37	11.35	11.47
		12	13	12.50	11.37	11.36	11.44
		25	0	12.50	11.35	11.33	11.45
	16QAM	1	0	12.50	11.63	11.58	11.63
		1	13	12.50	11.63	11.68	11.60
		1	24	12.50	11.35	11.33	11.29
		12	0	12.50	11.32	11.31	11.28
		12	6	12.50	11.32	11.47	11.28
		12	13	12.50	11.26	11.26	11.27
		25	0	12.50	11.26	11.27	11.26
	64QAM	1	0	12.50	11.50	11.49	11.46
		1	13	12.50	11.40	11.66	11.46
		1	24	12.50	11.36	11.58	11.43
		12	0	12.50	11.42	11.37	11.34
		12	6	12.50	11.34	11.33	11.34
		12	13	12.50	11.45	11.29	11.26
		25	0	12.50	11.33	11.28	11.25
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132022CH	132322CH	132622CH
10MHz	QPSK	1	0	12.50	11.47	11.47	11.35
		1	25	12.50	11.03	11.04	11.04
		1	49	12.50	11.36	11.38	11.39
		25	0	12.50	11.32	11.33	11.44
		25	13	12.50	11.45	11.44	11.34
		25	25	12.50	11.37	11.36	11.47
		50	0	12.50	11.47	11.45	11.33
	16QAM	1	0	12.50	11.58	11.52	11.51
		1	25	12.50	11.33	11.29	11.27
		1	49	12.50	11.49	11.43	11.45
		25	0	12.50	11.24	11.25	11.34
		25	13	12.50	11.35	11.38	11.26
		25	25	12.50	11.25	11.25	11.27
		50	0	12.50	11.38	11.37	11.38
	64QAM	1	0	12.50	11.49	11.50	11.49
		1	25	12.50	11.42	11.69	11.45
		1	49	12.50	11.37	11.56	11.42
		25	0	12.50	11.43	11.34	11.35
		25	13	12.50	11.34	11.31	11.37
		25	25	12.50	11.41	11.30	11.21
		50	0	12.50	11.34	11.30	11.24

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132047CH	132322CH	132597CH
15MHz	QPSK	1	0	12.50	11.50	11.35	11.44
		1	38	12.50	11.50	11.45	11.39
		1	74	12.50	11.40	11.33	11.29
		36	0	12.50	11.50	11.51	11.47
		36	18	12.50	11.41	11.51	11.46
		36	39	12.50	11.54	11.48	11.36
		75	0	12.50	11.45	11.45	11.38
	16QAM	1	0	12.50	11.55	11.54	11.52
		1	38	12.50	11.48	11.73	11.53
		1	74	12.50	11.41	11.63	11.47
		36	0	12.50	11.47	11.40	11.39
		36	18	12.50	11.39	11.37	11.41
		36	39	12.50	11.49	11.36	11.29
		75	0	12.50	11.40	11.35	11.31
	64QAM	1	0	12.50	11.52	11.47	11.47
		1	38	12.50	11.45	11.69	11.46
		1	74	12.50	11.36	11.58	11.42
		36	0	12.50	11.44	11.35	11.32
		36	18	12.50	11.33	11.29	11.34
		36	39	12.50	11.42	11.30	11.22
		75	0	12.50	11.32	11.28	11.26
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	132072CH	132322CH	132572CH
20MHz	QPSK	1	0	12.50	11.64	11.51	11.50
		1	50	12.50	11.05	11.06	11.17
		1	99	12.50	11.54	11.44	11.40
		50	0	12.50	11.54	11.38	11.49
		50	25	12.50	11.42	11.48	11.39
		50	50	12.50	11.47	11.45	11.43
		100	0	12.50	11.56	11.43	11.34
	16QAM	1	0	12.50	12.00	11.82	11.76
		1	50	12.50	11.58	11.24	11.40
		1	99	12.50	11.92	11.78	11.80
		50	0	12.50	11.44	11.41	11.43
		50	25	12.50	11.36	11.38	11.32
		50	50	12.50	11.38	11.33	11.36
		100	0	12.50	11.49	11.33	11.27
	64QAM	1	0	12.50	11.50	11.47	11.48
		1	50	12.50	11.44	11.67	11.45
		1	99	12.50	11.35	11.58	11.42
		50	0	12.50	11.43	11.34	11.35
		50	25	12.50	11.34	11.33	11.36
		50	50	12.50	11.43	11.32	11.25
		100	0	12.50	11.36	11.30	11.26

Table 99: Conducted power measurement results of LTE Band 66 (Reduced Power Level D6)

7.1.31 Conducted power measurements of Downlink LTE CA

The following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A.

Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼dB higher than the maximum output power measured when downlink carrier aggregation inactive.

Power test equipment: R&S Radio Communication Tester CMW500 and/or Anritsu Radio Communication Analyzer MTT8821C were used

The power measurements result are in the table as below:

DL LTE CA Class	PCC								SCC1			SCC2			SCC3			Power			
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC DL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Ref B/LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up
CA_2C	2	20	64QAM	1	0	100	0	19100	1100	2	20	902	/	/	/	/	/	/	18.74	18.70	19.50
CA_3B	5	10	QPSK	1	49	50	0	20450	2450	5	10	2549	/	/	/	/	/	/	23.44	22.64	24.50
CA_3BC	38	20	16QAM	1	0	100	0	38150	38150	38	20	37962	/	/	/	/	/	/	20.45	19.97	21.00
CA_41C	41	20	QPSK	1	0	100	0	40540	40540	41	20	40738	/	/	/	/	/	/	22.96	21.80	23.00
CA_66B	66	10	64QAM	1	49	50	0	132622	67086	66	10	66585	/	/	/	/	/	/	20.99	21.01	22.00
CA_66C	66	20	16QAM	1	0	100	0	132072	66536	66	20	66734	/	/	/	/	/	/	21.20	21.16	22.00
CA_2A-17A	2	20	64QAM	1	0	100	0	19100	1100	17	10	5790	/	/	/	/	/	/	18.74	18.67	19.50
	17	10	64QAM	1	49	50	0	23780	5780	2	20	900	/	/	/	/	/	/	19.91	19.89	20.50
CA_4A-17A	4	20	QPSK	1	50	100	0	20050	2050	17	10	5790	/	/	/	/	/	/	20.25	20.15	21.00
	17	10	64QAM	1	49	50	0	23780	5780	4	20	2175	/	/	/	/	/	/	19.91	19.90	20.50
CA_5A-7A	5	10	QPSK	1	49	50	0	20525	2525	7	20	3100	/	/	/	/	/	/	23.44	23.40	24.50
	7	20	16QAM	1	50	100	0	20850	2850	5	10	2525	/	/	/	/	/	/	18.14	18.10	19.00
CA_41A-41A	41	20	QPSK	1	0	100	0	40540	40540	41	20	41140	/	/	/	/	/	/	22.96	21.89	23.00
CA_41D	41	20	QPSK	1	0	100	0	40540	40540	41	20	40738	41	20	40836	/	/	/	22.96	21.58	23.00
CA_66D	66	20	16QAM	1	0	100	0	132072	66536	66	20	66734	66	20	66932	/	/	/	21.20	21.17	22.00
CA_2A-4A-4A	2	20	64QAM	1	0	100	0	19100	1100	4	20	2175	4	20	2300	/	/	/	18.74	18.69	19.50
	4	20	QPSK	1	50	100	0	20050	2050	4	20	2300	2	20	900	/	/	/	20.25	20.16	21.00
CA_2A-6A-6A	2	20	64QAM	1	0	100	0	19100	1100	66	20	66786	66	20	67236	/	/	/	18.74	18.55	19.50
	66	20	16QAM	1	0	100	0	132072	66536	66	20	67236	2	20	900	/	/	/	21.20	21.10	22.00
CA_4A-4A-5A	4	20	QPSK	1	50	100	0	20050	2050	4	20	2300	5	10	2525	/	/	/	20.25	20.11	21.00
	5	10	QPSK	1	49	50	0	20525	2525	4	20	2175	4	20	2300	/	/	/	23.44	23.35	24.50
CA_4A-4A-7A	4	20	QPSK	1	50	100	0	20050	2050	4	20	2300	7	20	3100	/	/	/	20.25	20.08	21.00
	7	20	16QAM	1	50	100	0	20850	2850	4	20	2175	4	20	2300	/	/	/	18.14	18.05	19.00
CA_4A-12B	4	20	QPSK	1	50	100	0	20050	2050	12	10	5095	12	5	5155	/	/	/	20.25	20.30	21.00
CA_4A-4A-12A	4	20	QPSK	1	50	100	0	20050	2050	4	20	2300	12	10	5095	/	/	/	20.25	20.14	21.00
CA_5A-7C	5	10	QPSK	1	49	50	0	20525	2525	7	20	3100	7	20	3298	/	/	/	23.44	23.29	24.50
	7	20	16QAM	1	50	100	0	20850	2850	7	20	3048	5	10	3525	/	/	/	19.14	18.10	19.00
CA_5A-6A-6A	5	10	QPSK	1	49	50	0	20525	2525	66	20	66786	66	20	67236	/	/	/	23.44	23.26	24.50
	66	20	16QAM	1	0	100	0	132072	66536	66	20	67236	5	10	2525	/	/	/	21.20	21.10	22.00
CA_12A-6A-6A	66	20	16QAM	1	0	100	0	132072	66536	66	20	67236	12	10	5095	/	/	/	21.20	21.08	22.00
	2	20	64QAM	1	0	100	0	19100	1100	4	20	2175	5	10	2525	/	/	/	18.74	18.74	19.50
CA_2A-4A-5A	4	20	QPSK	1	50	100	0	20050	2050	2	20	900	5	10	2525	/	/	/	20.25	20.07	21.00
	5	10	QPSK	1	49	50	0	20525	2525	2	20	900	4	20	2175	/	/	/	23.44	23.17	24.50
CA_7C-6A-6A	7	20	16QAM	1	50	100	0	20850	2850	7	20	3048	66	20	66786	66	20	67236	18.14	18.11	19.00
	66	20	16QAM	1	0	100	0	132072	66536	66	20	67236	7	20	3100	7	20	3298	21.20	21.06	22.00
CA_2A-4A-7C	2	20	64QAM	1	0	100	0	19100	1100	4	20	2175	7	20	3100	7	20	3298	18.74	18.59	19.50
	7	20	16QAM	1	50	100	0	20850	2850	7	20	3048	2	20	900	4	20	2175	19.14	18.06	19.00
CA_2A-4A-7A-7A	2	20	64QAM	1	0	100	0	19100	1100	4	20	2175	7	20	3100	7	20	3350	18.74	18.61	19.50
	4	20	QPSK	1	50	100	0	20050	2050	2	20	900	7	20	3100	7	20	3350	20.25	20.10	21.00
CA_2A-4A-12A-12A	2	20	64QAM	1	0	100	0	19100	1100	4	20	2175	12	5	5095	12	5	5155	18.74	18.59	19.50
	4	20	QPSK	1	50	100	0	20050	2050	2	20	900	12	5	5095	12	5	5155	20.25	20.07	21.00
CA_2A-2A-12A-6A	2	20	64QAM	1	0	100	0	19100	1100	2	20	700	12	10	5095	66	20	66786	18.74	18.73	19.50
	66	20	16QAM	1	0	100	0	132072	66536	2	20	900	2	20	1100	12	10	5095	21.20	21.14	22.00
CA_2A-12B-6A	2	20	64QAM	1	0	100	0	19100	1100	12	10	5095	12	5	5155	66	20	66786	18.74	18.69	19.50
	66	20	16QAM	1	0	100	0	132072	66536	2	20	900	12	10	5095	12	5	5155	21.20	21.09	22.00
CA_2A-4A-7A-12A	2	20	64QAM	1	0	100	0	19100	1100	4	20	2175	12	10	5095	12	10	5095	18.74	18.59	19.50
	4	20	QPSK	1	50	100	0	20050	2050	2	20	900	7	20	3100	12	10	5095	20.25	20.03	21.00
	7	20	16QAM	1	50	100	0	20850	2850	2	20	900	4	20	2300	12	10	5095	18.14	18.13	19.00

Table 100: Conducted power measurement results of DL CA(Second Antenna, Full Power)

DL TE CA Class	PCC								SCC1		SCC2		SCC3		Power						
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	DL TE CA Tx Power (dBm)	Tune-up			
CA_2C	2	20	16QAM	1	0	100	0	19100	1100	2	20	902	/	/	/	/	12.11	12.05	13.00		
CA_5B	5	10	64QAM	1	49	50	0	20525	2525	5	10	2527	/	/	/	/	19.12	19.09	20.00		
CA_38C	38	20	16QAM	50	25	100	0	38150	38150	38	20	37952	/	/	/	/	14.13	13.61	14.50		
CA_41C	41	20	QPSK	50	0	100	0	40840	40840	41	20	41038	/	/	/	/	13.90	13.23	14.50		
CA_66B	66	10	64QAM	1	0	50	0	12022	66486	66	10	66588	/	/	/	/	14.43	14.40	15.50		
CA_66C	66	20	16QAM	1	0	100	0	12022	66536	66	20	66734	/	/	/	/	14.55	14.38	15.50		
CA_2A-17A	2	20	16QAM	1	0	100	0	19100	1100	17	10	5790	/	/	/	/	12.11	12.03	13.00		
	17	10	64QAM	1	49	50	0	23780	5780	2	20	900	/	/	/	/	19.91	19.90	20.50		
CA_4A-17A	4	20	16QAM	1	50	100	0	20050	2050	17	10	5790	/	/	/	/	13.55	13.28	14.00		
	17	10	64QAM	1	49	50	0	23780	5780	4	20	2175	/	/	/	/	19.91	19.75	20.50		
CA_5A-7A	5	10	64QAM	1	49	50	0	20525	2525	7	20	3100	/	/	/	/	19.12	19.05	20.00		
	7	20	16QAM	1	0	100	0	20880	2850	5	10	2525	/	/	/	/	12.02	11.98	13.00		
CA_41A-41A	41	20	QPSK	50	0	100	0	40840	40840	41	20	41140	/	/	/	/	13.90	13.51	14.50		
CA_41D	41	10	16QAM	1	0	50	0	40856	40856	41	20	40974	41	20	41172	/	/	14.13	13.19	14.50	
CA_66D	66	20	16QAM	1	0	100	0	12022	66536	66	20	66734	66	20	66932	/	/	14.55	14.36	15.50	
CA_2A-4A-4A	2	20	16QAM	1	0	100	0	19100	1100	4	20	2175	4	20	2300	/	/	12.11	12.10	13.00	
	4	20	16QAM	1	50	100	0	20050	2050	4	20	2300	2	20	900	/	/	13.55	13.43	14.00	
CA_2A-66A-66A	2	20	16QAM	1	0	100	0	19100	1100	66	20	66786	66	20	67236	/	/	12.11	12.03	13.00	
	66	20	16QAM	1	0	100	0	12022	66536	66	20	67236	2	20	900	/	/	14.55	14.30	15.50	
CA_4A-4A-5A	4	20	16QAM	1	50	100	0	20050	2050	4	20	2300	5	10	2525	/	/	13.55	13.41	14.00	
	5	10	64QAM	1	49	50	0	20525	2525	4	20	2175	4	20	2300	/	/	19.12	18.94	20.00	
CA_4A-4A-7A	4	20	16QAM	1	50	100	0	20050	2050	4	20	2300	7	20	3100	/	/	13.55	13.40	14.00	
	7	20	16QAM	1	0	100	0	20880	2850	4	20	2175	4	20	2300	/	/	12.02	11.96	13.00	
CA_4A-12B	4	20	16QAM	1	50	100	0	20050	2050	12	10	5095	12	5	5155	/	/	13.55	13.24	14.00	
CA_4A-4A-12A	4	20	16QAM	1	50	100	0	20050	2050	4	20	2300	12	10	5095	/	/	13.55	13.15	14.00	
CA_5A-7C	5	10	64QAM	1	49	50	0	20525	2525	7	20	3100	7	20	3298	/	/	19.12	19.10	20.00	
	7	20	16QAM	1	0	100	0	20880	2850	7	20	3048	5	10	2525	/	/	12.02	11.69	13.00	
CA_5A-66A-66A	5	10	64QAM	1	49	50	0	20525	2525	66	20	66768	66	20	67236	/	/	19.12	19.08	20.00	
	66	20	16QAM	1	0	100	0	12022	66536	66	20	67236	5	10	2525	/	/	14.55	14.50	15.50	
CA_12A-66A-66A	66	20	16QAM	1	0	100	0	12022	66536	66	20	67236	12	10	5095	/	/	14.55	14.49	15.50	
	2	20	16QAM	1	0	100	0	19100	1100	4	20	2175	5	10	2525	/	/	12.11	12.06	13.00	
CA_2A-4A-5A	4	20	16QAM	1	50	100	0	20050	2050	2	20	900	5	10	2525	/	/	13.55	13.18	14.00	
	5	10	64QAM	1	49	50	0	20525	2525	2	20	900	4	20	2175	/	/	19.12	19.05	20.00	
CA_7C-66A-66A	7	20	16QAM	1	0	100	0	20880	2850	7	20	3048	66	20	66768	66	20	67236	12.02	11.97	13.00
	66	20	16QAM	1	0	100	0	12022	66536	66	20	67236	7	20	3100	7	20	3298	14.55	14.53	15.50
	2	20	16QAM	1	0	100	0	19100	1100	4	20	2175	7	20	3100	7	20	3298	12.11	12.07	13.00
CA_2A-4A-7C	7	20	16QAM	1	0	100	0	20880	2850	7	20	3048	2	20	900	4	20	2175	12.02	12.03	13.00
	4	20	16QAM	1	50	100	0	20050	2050	2	20	900	7	20	3100	7	20	3298	13.55	13.26	14.00
CA_2A-4A-7A-7A	2	20	16QAM	1	0	100	0	19100	1100	4	20	2175	7	20	3100	7	20	3350	12.11	12.00	13.00
	4	20	16QAM	1	50	100	0	20050	2050	2	20	900	7	20	3100	7	20	3350	13.55	13.44	14.00
	7	20	16QAM	1	0	100	0	20880	2850	7	20	3350	2	20	900	4	20	2175	12.02	11.79	13.00
CA_2A-4A-12A-12A	2	20	16QAM	1	0	100	0	19100	1100	4	20	2175	12	5	5095	12	5	5155	12.11	12.09	13.00
	4	20	16QAM	1	50	100	0	20050	2050	2	20	900	12	5	5095	12	5	5155	13.55	13.45	14.00
CA_2A-2A-12A-66A	2	20	16QAM	1	0	100	0	19100	1100	2	20	700	12	10	5095	66	20	66786	12.11	11.98	13.00
	66	20	16QAM	1	0	100	0	12022	66536	2	20	900	2	20	1100	12	10	5095	14.55	14.28	15.50
CA_2A-12B-66A	2	20	16QAM	1	0	100	0	19100	1100	12	10	5095	12	5	5155	66	20	66786	12.11	11.86	13.00
	66	20	16QAM	1	0	100	0	12022	66536	2	20	900	12	10	5095	12	5	5155	14.55	14.36	15.50
CA_2A-4A-7A-12A	2	20	16QAM	1	0	100	0	19100	1100	4	20	2175	7	20	3100	12	10	5095	12.11	11.94	13.00
	4	20	16QAM	1	50	100	0	20050	2050	2	20	900	7	20	3100	12	10	5095	13.55	13.37	14.00
	7	20	16QAM	1	0	100	0	20880	2850	2	20	900	4	20	2300	12	10	5095	12.02	11.86	13.00

Table 101: Conducted power measurement results of DL CA(Second Antenna,Receiver ON)

DL LTE CA Class	PCC								SCC1			SCC 2			SCC 3			Power			
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB Size	PCC UL RB offset	PCC DL RB Size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up
CA_2C	2	20	16QAM	1	0	100	0	19100	1100	2	20	902	/	/	/	/	/	/	11.17	11.10	12.00
CA_38C	38	20	64QAM	50	0	100	0	38150	38150	38	20	37952	/	/	/	/	/	/	13.15	12.70	13.50
CA_41C	41	20	64QAM	100	0	100	0	40840	40840	41	20	41038	/	/	/	/	/	/	11.45	10.80	12.00
CA_66B	66	10	16QAM	1	0	50	0	132022	66486	66	10	66585	/	/	/	/	/	/	11.96	11.86	13.00
CA_66C	66	20	16QAM	1	0	100	0	132072	66536	66	20	66734	/	/	/	/	/	/	12.13	12.10	13.00
CA_2A-17A	2	20	16QAM	1	0	100	0	19100	1100	17	10	5790	/	/	/	/	/	/	11.17	11.05	12.00
	17	10	64QAM	1	49	50	0	23780	5780	2	20	900	/	/	/	/	/	/	19.91	19.86	20.50
CA_4A-17A	4	20	16QAM	1	50	100	0	20550	2050	17	10	5790	/	/	/	/	/	/	11.72	11.80	12.50
	17	10	64QAM	1	49	50	0	23780	5780	4	20	2175	/	/	/	/	/	/	19.91	19.45	20.50
CA_5A-7A	5	10	64QAM	1	49	50	0	20525	2525	7	20	3100	/	/	/	/	/	/	19.12	19.10	20.00
	7	20	16QAM	1	0	100	0	20550	2050	5	10	2525	/	/	/	/	/	/	12.02	11.98	13.00
CA_41A-41A	41	20	64QAM	100	0	100	0	40840	40840	41	20	41140	/	/	/	/	/	/	11.45	11.02	12.00
CA_41D	41	20	64QAM	100	0	100	0	40840	40840	41	20	41038	41	20	41236	/	/	/	11.45	10.71	12.00
CA_66D	66	20	16QAM	1	0	100	0	132072	66536	66	20	66734	66	20	66932	/	/	/	12.13	12.19	13.00
CA_2A-4A-4A	2	20	16QAM	1	0	100	0	19100	1100	4	20	2175	4	20	2300	/	/	/	11.17	11.06	12.00
	4	20	16QAM	1	50	100	0	20550	2050	4	20	2300	2	20	900	/	/	/	11.72	11.71	12.50
CA_2A-6A-6A	2	20	16QAM	1	0	100	0	19100	1100	66	20	66766	66	20	67236	/	/	/	11.17	11.02	12.00
	66	20	16QAM	1	0	100	0	132072	66536	66	20	67236	2	20	900	/	/	/	12.13	12.11	13.00
CA_4A-4A-5A	4	20	16QAM	1	50	100	0	20550	2050	4	20	2300	5	10	2525	/	/	/	11.72	11.68	12.50
	5	10	64QAM	1	49	50	0	20525	2525	4	20	2175	4	20	2300	/	/	/	19.12	19.08	20.00
CA_4A-4A-7A	4	20	16QAM	1	50	100	0	20550	2050	4	20	2300	7	20	3100	/	/	/	11.72	11.58	12.50
	7	20	16QAM	1	0	100	0	20550	2050	4	20	2175	4	20	2300	/	/	/	12.02	11.96	13.00
CA_4A-12B	4	20	16QAM	1	50	100	0	20550	2050	12	10	5095	12	5	5155	/	/	/	11.72	11.59	12.50
CA_4A-4A-12A	4	20	16QAM	1	50	100	0	20550	2050	4	20	2300	12	10	5095	/	/	/	11.72	11.58	12.50
CA_5A-7C	5	10	64QAM	1	49	50	0	20525	2525	7	20	3100	7	20	3298	/	/	/	19.12	19.04	20.00
	7	20	16QAM	1	0	100	0	20550	2050	7	20	3048	5	10	2525	/	/	/	12.02	11.86	13.00
CA_5A-6A-6A	5	10	64QAM	1	49	50	0	20525	2525	66	20	66768	66	20	67236	/	/	/	19.12	19.11	20.00
	66	20	16QAM	1	0	100	0	132072	66536	66	20	67236	5	10	2525	/	/	/	12.13	12.07	13.00
CA_12A-6A-6A	66	20	16QAM	1	0	100	0	132072	66536	66	20	67236	12	10	5095	/	/	/	12.13	12.06	13.00
	2	20	16QAM	1	0	100	0	19100	1100	4	20	2175	5	10	2525	/	/	/	11.17	11.17	12.00
CA_2A-4A-5A	4	20	16QAM	1	50	100	0	20550	2050	2	20	900	5	10	2525	/	/	/	11.72	11.49	12.50
	5	10	64QAM	1	49	50	0	20525	2525	2	20	900	4	20	2175	/	/	/	19.12	19.10	20.00
CA_7C-6A-6A	7	20	16QAM	1	0	100	0	20550	2050	7	20	3048	66	20	66768	66	20	67236	12.02	11.84	13.00
	66	20	16QAM	1	0	100	0	132072	66536	66	20	67236	7	20	3100	7	20	3298	12.13	12.06	13.00
CA_2A-4A-7C	2	20	16QAM	1	0	100	0	19100	1100	4	20	2175	7	20	3100	7	20	3298	11.17	11.14	12.00
	7	20	16QAM	1	0	100	0	20550	2050	7	20	3048	2	20	900	4	20	2175	12.02	11.86	13.00
CA_2A-4A-7A-7A	4	20	16QAM	1	50	100	0	20550	2050	2	20	900	7	20	3100	7	20	3298	11.72	11.74	12.50
	2	20	16QAM	1	0	100	0	19100	1100	4	20	2175	7	20	3100	7	20	3350	11.17	11.08	12.00
	4	20	16QAM	1	50	100	0	20550	2050	2	20	900	7	20	3100	7	20	3350	11.72	11.66	12.50
	7	20	16QAM	1	0	100	0	20550	2050	7	20	3350	2	20	900	4	20	2175	12.02	11.79	13.00
CA_2A-4A-12A-12A	2	20	16QAM	1	0	100	0	19100	1100	4	20	2175	12	5	5095	12	5	5155	11.17	11.06	12.00
	4	20	16QAM	1	50	100	0	20550	2050	2	20	900	12	5	5095	12	5	5155	11.72	11.63	12.50
CA_2A-2A-12A-6A	2	20	16QAM	1	0	100	0	19100	1100	2	20	700	12	10	5095	66	20	66796	11.17	11.07	12.00
	66	20	16QAM	1	0	100	0	132072	66536	2	20	900	2	20	1100	12	10	5095	12.13	12.11	13.00
CA_2A-12B-6A	2	20	16QAM	1	0	100	0	19100	1100	12	10	5095	12	5	5155	66	20	66796	11.17	10.98	12.00
	66	20	16QAM	1	0	100	0	132072	66536	2	20	900	12	10	5095	12	5	5155	12.13	12.09	13.00
CA_2A-4A-7A-12A	2	20	16QAM	1	0	100	0	19100	1100	4	20	2175	7	20	3100	12	10	5095	11.17	10.89	12.00
	4	20	16QAM	1	50	100	0	20550	2050	2	20	900	7	20	3100	12	10	5095	11.72	11.59	12.50
	7	20	16QAM	1	0	100	0	20550	2050	2	20	900	4	20	2300	12	10	5095	12.02	11.68	13.00

Table 102: Conducted power measurement results of DL CA (Second Antenna+WiFi Antenna, Receiver ON)

DL LTE CA Class	PCC									SCC1			SCC 2			SCC 3			Power		
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 8 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up
CA_2C	2	20	16QAM	1	99	100	0	19100	1100	2	20	902	/	/	/	/	/	/	17.74	17.43	18.50
CA_38C	38	20	16QAM	1	0	100	0	38150	38150	38	20	37952	/	/	/	/	/	/	19.64	18.99	20.00
CA_41C	41	20	16QAM	1	0	100	0	40840	40840	41	20	41038	/	/	/	/	/	/	20.04	19.27	20.50
CA_66B	66	10	16QAM	1	49	50	0	132322	66786	66	10	66885	/	/	/	/	/	/	18.47	18.43	19.50
CA_66C	66	20	16QAM	1	0	100	0	132072	66536	66	20	66734	/	/	/	/	/	/	18.59	18.40	19.50
CA_2A-17A	2	20	16QAM	1	99	100	0	19100	1100	17	10	5790	/	/	/	/	/	/	17.74	17.55	18.50
CA_4A-17A	17	10	QPSK	1	0	50	0	23780	5780	2	20	900	/	/	/	/	/	/	23.75	23.63	24.50
	4	20	16QAM	1	0	100	0	20550	2050	17	10	5790	/	/	/	/	/	/	18.75	18.59	19.50
	17	10	QPSK	1	0	50	0	23780	5780	4	20	2175	/	/	/	/	/	/	23.75	23.63	24.50
CA_5A-7A	5	10	QPSK	1	49	50	0	20525	2525	7	20	3100	/	/	/	/	/	/	23.44	23.40	24.50
CA_41A-41A	7	20	16QAM	1	50	100	0	20550	2050	5	10	2525	/	/	/	/	/	/	18.14	17.95	19.00
	41	20	16QAM	1	0	100	0	40840	40840	41	20	41140	/	/	/	/	/	/	20.04	19.51	20.50
	CA_41D	41	20	16QAM	1	0	100	0	40840	40840	41	20	41038	41	20	41236	/	/	/	20.04	19.21
CA_66D	66	20	16QAM	1	0	100	0	132072	66536	66	20	66734	66	20	66932	/	/	/	18.59	18.34	19.50
CA_2A-4A-4A	2	20	16QAM	1	99	100	0	19100	1100	4	20	2175	4	20	2300	/	/	/	17.74	17.51	19.50
CA_2A-6A-6A	4	20	16QAM	1	0	100	0	20550	2050	4	20	2300	2	20	900	/	/	/	18.75	18.59	19.50
	2	20	16QAM	1	99	100	0	19100	1100	66	20	66766	66	20	67236	/	/	/	17.74	17.46	18.50
	66	20	16QAM	1	0	100	0	132072	66536	66	20	67236	2	20	900	/	/	/	15.59	15.31	19.50
CA_4A-4A-5A	4	20	16QAM	1	0	100	0	20550	2050	4	20	2300	5	10	2525	/	/	/	18.75	18.59	19.50
CA_4A-4A-7A	5	10	QPSK	1	49	50	0	20525	2525	7	20	3100	7	20	3298	/	/	/	23.44	23.40	24.50
	4	20	16QAM	1	0	100	0	20550	2050	4	20	2300	7	20	3100	/	/	/	18.75	18.59	19.50
	7	20	16QAM	1	50	100	0	20550	2050	4	20	2175	4	20	2300	/	/	/	18.14	17.86	19.00
CA_4A-12B	4	20	16QAM	1	0	100	0	20550	2050	12	10	5095	12	5	5155	/	/	/	18.75	18.59	19.50
CA_4A-4A-12A	4	20	16QAM	1	0	100	0	20550	2050	4	20	2300	12	10	5095	/	/	/	18.75	18.59	19.50
CA_5A-7C	5	10	QPSK	1	49	50	0	20525	2525	7	20	3100	7	20	3298	/	/	/	23.44	23.40	24.50
CA_5A-6A-6A	7	20	16QAM	1	50	100	0	20550	2050	7	20	3045	5	10	2525	/	/	/	18.14	17.88	19.00
	5	10	QPSK	1	49	50	0	20525	2525	66	20	66768	66	20	67236	/	/	/	23.44	23.40	24.50
	66	20	16QAM	1	0	100	0	132072	66536	66	20	67236	5	10	2525	/	/	/	18.59	18.36	19.50
CA_12A-6A-6A	66	20	16QAM	1	0	100	0	132072	66536	66	20	67236	12	10	5095	/	/	/	18.59	18.40	19.50
CA_2A-4A-5A	2	20	16QAM	1	99	100	0	19100	1100	4	20	2175	5	10	2525	/	/	/	17.74	17.36	18.50
	4	20	16QAM	1	0	100	0	20550	2050	2	20	900	5	10	2525	/	/	/	18.75	18.59	19.50
	5	10	QPSK	1	49	50	0	20525	2525	2	20	900	4	20	2175	/	/	/	23.44	23.40	24.50
CA_7C-6A-6A	7	20	16QAM	1	50	100	0	20550	2050	7	20	3045	66	20	66766	66	20	67236	18.14	17.64	19.00
CA_7C	66	20	16QAM	1	0	100	0	132072	66536	66	20	67236	7	20	3100	7	20	3298	18.59	18.55	19.50
	2	20	16QAM	1	99	100	0	19100	1100	4	20	2175	7	20	3100	7	20	3298	17.74	17.56	18.50
	7	20	16QAM	1	50	100	0	20550	2050	2	20	3045	2	20	900	2	20	2175	18.14	17.95	19.00
CA_2A-4A-7C	2	20	16QAM	1	0	100	0	20550	2050	2	20	900	7	20	3100	7	20	3298	18.75	18.59	19.50
CA_2A-4A-7A-7A	4	20	16QAM	1	99	100	0	19100	1100	4	20	2175	7	20	3100	7	20	3350	17.74	17.51	18.50
	4	20	16QAM	1	0	100	0	20550	2050	2	20	900	7	20	3100	7	20	3350	18.75	18.59	19.50
	7	20	16QAM	1	50	100	0	20550	2050	2	20	3350	2	20	900	4	20	2175	18.14	18.06	19.00
CA_2A-4A-12A-12A	2	20	16QAM	1	99	100	0	19100	1100	4	20	2175	12	5	5095	12	5	5155	17.74	17.59	18.50
CA_2A-12A-12A-6A	4	20	16QAM	1	0	100	0	20550	2050	2	20	900	12	5	5095	12	5	5155	18.75	18.59	19.50
	2	20	16QAM	1	99	100	0	19100	1100	2	20	700	12	10	5095	66	20	66766	17.74	17.55	18.50
	66	20	16QAM	1	0	100	0	132072	66536	2	20	900	2	20	1100	12	10	5095	18.59	18.53	19.50
CA_2A-12B-6A	2	20	16QAM	1	99	100	0	19100	1100	12	10	5095	12	5	5155	66	20	66766	17.74	17.43	18.50
CA_2A	66	20	16QAM	1	0	100	0	132072	66536	2	20	900	12	10	5095	66	20	66766	18.59	18.49	19.50
	2	20	16QAM	1	99	100	0	19100	1100	2	20	2175	7	20	3100	12	10	5095	17.74	17.59	18.50
	4	20	16QAM	1	0	100	0	20550	2050	2	20	900	7	20	3100	12	10	5095	18.75	18.59	19.50
CA_2A-4A-7A-12A	7	20	16QAM	1	50	100	0	20550	2050	2	20	900	4	20	2300	12	10	5095	18.14	18.10	19.00

DL LTE CA Class	PCC								SCC1		SCC 2			SCC 3			Power				
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 5 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up
CA_2C	2	20	QPSK	1	0	100	0	18700	700	2	20	898	/	/	/	/	/	/	23.68	23.62	24.50
CA_5B	5	10	QPSK	1	25	50	0	20450	2450	5	10	2549	/	/	/	/	/	/	23.97	23.71	25.00
CA_38C	38	20	QPSK	1	0	100	0	38150	38150	38	20	37952	/	/	/	/	/	/	24.04	23.70	24.50
CA_41C	41	20	QPSK	1	0	100	0	40840	40840	41	20	41038	/	/	/	/	/	/	23.24	22.98	24.00
CA_66B	66	10	QPSK	1	49	50	0	132322	66786	66	10	66985	/	/	/	/	/	/	23.44	23.34	24.50
CA_66C	66	20	QPSK	1	99	100	0	132072	66536	66	20	66734	/	/	/	/	/	/	23.73	23.51	24.50
CA_2A-17A	2	20	QPSK	1	0	100	0	18700	700	17	10	5790	/	/	/	/	/	/	23.68	23.56	24.50
CA_2A-17A	17	10	QPSK	1	49	50	0	23780	5780	2	20	900	/	/	/	/	/	/	23.99	23.78	25.00
CA_4A-17A	4	20	QPSK	1	0	100	0	20300	2300	17	10	5790	/	/	/	/	/	/	23.45	23.36	24.50
CA_4A-17A	17	10	QPSK	1	49	50	0	23780	5780	4	20	2175	/	/	/	/	/	/	23.99	23.78	25.00
CA_5A-7A	5	10	QPSK	1	25	50	0	20450	2450	7	20	3100	/	/	/	/	/	/	23.97	23.87	25.00
CA_5A-7A	7	20	QPSK	1	50	100	0	20850	2850	5	10	2525	/	/	/	/	/	/	23.58	23.50	24.50
CA_41A-41A	41	20	QPSK	1	0	100	0	40840	40840	41	20	41140	/	/	/	/	/	/	23.24	22.97	24.00
CA_41D	41	20	QPSK	1	0	100	0	40840	40840	41	20	41038	41	20	41236	/	/	/	23.24	22.92	24.00
CA_66D	66	20	QPSK	1	99	100	0	132072	66536	66	20	66734	66	20	66932	/	/	/	23.73	23.47	24.50
CA_2A-4A-4A	2	20	QPSK	1	0	100	0	18700	700	4	20	2175	4	20	2300	/	/	/	23.68	23.65	24.50
CA_2A-4A-4A	4	20	QPSK	1	0	100	0	20300	2300	4	20	2050	2	20	900	/	/	/	23.45	23.36	24.50
CA_2A-66A-66A	2	20	QPSK	1	0	100	0	18700	700	66	20	66786	66	20	67236	/	/	/	23.68	23.51	24.50
CA_2A-66A-66A	66	20	QPSK	1	99	100	0	132072	66536	66	20	67236	2	20	900	/	/	/	23.73	23.50	24.50
CA_4A-4A-5A	4	20	QPSK	1	0	100	0	20300	2300	4	20	2050	5	10	2525	/	/	/	23.45	23.36	24.50
CA_4A-4A-5A	5	10	QPSK	1	25	50	0	20450	2450	4	20	2175	4	20	2300	/	/	/	23.97	23.87	25.00
CA_4A-4A-7A	4	20	QPSK	1	0	100	0	20300	2300	4	20	2050	7	20	3100	/	/	/	23.45	23.36	24.50
CA_4A-4A-7A	7	20	QPSK	1	50	100	0	20850	2850	4	20	2175	4	20	2300	/	/	/	23.58	23.43	24.50
CA_4A-12B	4	20	QPSK	1	0	100	0	20300	2300	12	10	5095	12	5	5155	/	/	/	23.45	23.36	24.50
CA_4A-4A-12A	4	20	QPSK	1	0	100	0	20300	2300	4	20	2050	12	10	5095	/	/	/	23.45	23.36	24.50
CA_5A-7C	5	10	QPSK	1	25	50	0	20450	2450	7	20	3100	7	20	3298	/	/	/	23.97	23.87	25.00
CA_5A-7C	7	20	QPSK	1	50	100	0	20850	2850	7	20	3048	5	10	2525	/	/	/	23.58	23.41	24.50
CA_5A-66A-66A	5	10	QPSK	1	25	50	0	20450	2450	66	20	66786	66	20	67236	/	/	/	23.97	23.87	25.00
CA_5A-66A-66A	66	20	QPSK	1	99	100	0	132072	66536	66	20	67236	5	10	2525	/	/	/	23.73	23.39	24.50
CA_12A-66A-66A	66	20	QPSK	1	99	100	0	132072	66536	66	20	67236	12	10	5095	/	/	/	23.73	23.53	24.50
CA_2A-4A-5A	2	20	QPSK	1	0	100	0	18700	700	4	20	2175	5	10	2525	/	/	/	23.68	23.60	24.50
CA_2A-4A-5A	4	20	QPSK	1	0	100	0	20300	2300	2	20	900	5	10	2525	/	/	/	23.45	23.36	24.50
CA_2A-4A-5A	5	10	QPSK	1	25	50	0	20450	2450	2	20	900	4	20	2175	/	/	/	23.97	23.87	25.00
CA_7C-66A-66A	7	20	QPSK	1	50	100	0	20850	2850	7	20	3048	66	20	66786	66	20	67236	23.58	23.53	24.50
CA_7C-66A-66A	66	20	QPSK	1	99	100	0	132072	66536	66	20	67236	7	20	3100	7	20	3298	23.73	23.41	24.50
CA_2A-4A-7C	7	20	QPSK	1	0	100	0	20300	2300	4	20	2175	7	20	3100	7	20	3298	23.68	23.46	24.50
CA_2A-4A-7C	4	20	QPSK	1	0	100	0	20300	2300	2	20	900	7	20	3100	7	20	3298	23.45	23.36	24.50
CA_2A-4A-7A-7A	2	20	QPSK	1	0	100	0	18700	700	4	20	2175	7	20	3100	7	20	3350	23.68	23.37	24.50
CA_2A-4A-7A-7A	4	20	QPSK	1	0	100	0	20300	2300	2	20	900	7	20	3100	7	20	3350	23.45	23.36	24.50
CA_2A-4A-7A-7A	7	20	QPSK	1	50	100	0	20850	2850	7	20	3350	2	20	900	4	20	2175	23.58	23.39	24.50
CA_2A-4A-12A-12A	2	20	QPSK	1	0	100	0	18700	700	4	20	2175	12	5	5095	12	5	5155	23.68	23.46	24.50
CA_2A-4A-12A-12A	4	20	QPSK	1	0	100	0	20300	2300	2	20	900	12	5	5095	12	5	5155	23.45	23.36	24.50
CA_2A-12A-12A-66A	2	20	QPSK	1	0	100	0	18700	700	2	20	1100	12	10	5095	66	20	66786	23.68	23.58	24.50
CA_2A-12A-12A-66A	66	20	QPSK	1	99	100	0	132072	66536	2	20	900	2	20	1100	12	10	5095	23.73	23.46	24.50
CA_2A-12B-66A	2	20	QPSK	1	0	100	0	18700	700	12	10	5095	12	5	5155	66	20	66786	23.68	23.62	24.50
CA_2A-12B-66A	66	20	QPSK	1	99	100	0	132072	66536	2	20	900	12	10	5095	12	5	5155	23.73	23.54	24.50
CA_2A-4A-7A-12A	2	20	QPSK	1	0	100	0	18700	700	4	20	2175	7	20	3100	12	10	5095	23.68	23.67	24.50
CA_2A-4A-7A-12A	4	20	QPSK	1	0	100	0	20300	2300	2	20	900	7	20	3100	12	10	5095	23.45	23.36	24.50
CA_2A-4A-7A-12A	7	20	QPSK	1	50	100	0	20850	2850	2	20	900	4	20	2300	12	10	5095	23.58	23.50	24.50

Table 104: Conducted power measurement results of DL CA(Main Antenna,Full Power)

DL LTE CA Class	PCC								SCC1			SCC 2			SCC 3			Power				
	PCC Band	PCC Bandwidth (MHz)	Modulation	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	SCC Band	SCC Bandwidth (MHz)	SCC DL Channel	Rel 5 LTE Tx Power (dBm)	DL LTE CA Tx Power (dBm)	Tune-up	
CA_2C	2	20	16QAM	1	50	100	0	19100	1100	2	20	902	/	/	/	/	/	/	19.99	19.70	20.50	
CA_3C	38	20	16QAM	1	50	100	0	38150	38150	38	20	37952	/	/	/	/	/	/	23.26	22.62	23.50	
CA_66B	66	10	64QAM	1	49	50	0	132022	66486	66	10	66888	/	/	/	/	/	/	19.18	19.14	19.50	
CA_66C	66	20	16QAM	1	99	100	0	132072	66536	66	20	66734	/	/	/	/	/	/	19.26	19.17	19.50	
CA_2A-17A	2	20	16QAM	1	50	100	0	19100	1100	17	10	5790	/	/	/	/	/	/	19.99	19.68	20.50	
CA_2A-17A	17	10	QPSK	1	49	50	0	23780	5780	2	20	900	/	/	/	/	/	/	23.99	23.78	25.00	
CA_4A-17A	4	20	16QAM	1	50	100	0	20300	2300	17	10	5790	/	/	/	/	/	/	20.46	20.37	21.00	
CA_4A-17A	17	10	QPSK	1	49	50	0	23780	5780	4	20	2175	/	/	/	/	/	/	23.99	23.78	25.00	
CA_5A-7A	5	10	QPSK	1	25	50	0	20450	2450	7	20	3100	/	/	/	/	/	/	23.97	23.87	25.00	
CA_5A-7A	7	20	QPSK	50	25	100	0	20850	2850	5	10	2525	/	/	/	/	/	/	20.20	20.06	21.00	
CA_66D	66	20	16QAM	1	99	100	0	132072	66536	66	20	66734	66	20	66932	/	/	/	19.26	19.20	19.50	
CA_2A-4A-4A	2	20	16QAM	1	50	100	0	19100	1100	4	20	2175	4	20	2300	/	/	/	19.99	19.91	20.50	
CA_2A-4A-4A	4	20	16QAM	1	50	100	0	20300	2300	4	20	2050	2	20	900	/	/	/	20.46	20.37	21.00	
CA_2A-66A-66A	2	20	16QAM	1	50	100	0	19100	1100	66	20	66786	66	20	67236	/	/	/	19.99	19.58	20.50	
CA_2A-66A-66A	66	20	16QAM	1	99	100	0	132072	66536	66	20	67236	2	20	900	/	/	/	19.26	19.14	19.50	
CA_4A-4A-5A	4	20	16QAM	1	50	100	0	20300	2300	4	20	2050	5	10	2525	/	/	/	20.46	20.37	21.00	
CA_4A-4A-5A	5	10	QPSK	1	25	50	0	20450	2450	4	20	2175	4	20	2300	/	/	/	23.97	23.87	25.00	
CA_4A-4A-7A	4	20	16QAM	1	50	100	0	20300	2300	4	20	2050	7	20	3100	/	/	/	20.46	20.37	21.00	
CA_4A-4A-7A	7	20	QPSK	50	25	100	0	20850	2850	4	20	2175	4	20	2300	/	/	/	20.20	20.11	21.00	
CA_4A-12B	4	20	16QAM	1	50	100	0	20300	2300	12	5	5095	12	5	5155	/	/	/	20.46	20.37	21.00	
CA_4A-4A-12A	4	20	16QAM	1	50	100	0	20300	2300	4	20	2050	12	10	5095	/	/	/	20.46	20.37	21.00	
CA_5A-7C	5	10	QPSK	1	25	50	0	20450	2450	7	20	3100	7	20	3298	/	/	/	23.97	23.87	25.00	
CA_5A-7C	7	20	QPSK	50	25	100	0	20850	2850	7	20	3048	5	10	2525	/	/	/	20.20	20.04	21.00	
CA_5A-66A-66A	5	10	QPSK	1	25	50	0	20450	2450	66	20	66768	66	20	67236	/	/	/	23.97	23.87	25.00	
CA_12A-66A-66A	66	20	16QAM	1	99	100	0	132072	66536	66	20	67236	5	10	2525	/	/	/	19.26	19.14	19.50	
CA_12A-66A-66A	66	20	16QAM	1	99	100	0	132072	66536	66	20	67236	12	10	5095	/	/	/	19.26	19.16	19.50	
CA_2A-4A-5A	2	20	16QAM	1	50	100	0	19100	1100	4	20	2175	5	10	2525	/	/	/	19.99	19.69	20.50	
CA_2A-4A-5A	4	20	16QAM	1	50	100	0	20300	2300	2	20	900	5	10	2525	/	/	/	20.46	20.37	21.00	
CA_2A-4A-5A	5	10	QPSK	1	25	50	0	20450	2450	2	20	900	4	20	2175	/	/	/	23.97	23.87	25.00	
CA_7C-66A-66A	7	20	QPSK	50	25	100	0	20850	2850	7	20	3048	66	20	66786	66	20	67236	20.13	19.97	20.50	
CA_7C-66A-66A	66	20	16QAM	1	99	100	0	132072	66536	66	20	67236	7	20	3100	7	20	3298	19.26	19.04	19.50	
CA_2A-4A-7C	2	20	16QAM	1	50	100	0	19100	1100	4	20	2175	7	20	3100	7	20	3298	19.99	19.58	20.50	
CA_2A-4A-7C	7	20	QPSK	50	25	100	0	20850	2850	7	20	3048	2	20	900	4	20	2175	20.20	20.14	21.00	
CA_2A-4A-7A-7A	4	20	16QAM	1	50	100	0	20300	2300	2	20	900	7	20	3100	7	20	3298	20.46	20.37	21.00	
CA_2A-4A-7A-7A	2	20	16QAM	1	50	100	0	19100	1100	4	20	2175	7	20	3100	7	20	3350	19.99	19.83	20.50	
CA_2A-4A-7A-7A	4	20	16QAM	1	50	100	0	20300	2300	2	20	900	7	20	3100	7	20	3350	20.46	20.37	21.00	
CA_2A-4A-7A-7A	7	20	QPSK	50	25	100	0	20850	2850	7	20	3350	2	20	900	4	20	2175	20.20	20.08	21.00	
CA_2A-4A-12A-12A	2	20	16QAM	1	50	100	0	19100	1100	4	20	2175	12	5	5095	12	5	5155	19.99	19.84	20.50	
CA_2A-4A-12A-12A	4	20	16QAM	1	50	100	0	20300	2300	2	20	900	12	5	5095	12	5	5155	20.46	20.37	21.00	
CA_2A-2A-12A-66A	2	20	16QAM	1	50	100	0	19100	1100	2	20	700	12	10	5095	66	20	66786	19.99	19.89	20.50	
CA_2A-2A-12A-66A	66	20	16QAM	1	99	100	0	132072	66536	2	20	900	2	20	1100	12	10	5095	19.26	19.11	19.50	
CA_2A-12B-66A	2	20	16QAM	1	50	100	0	19100	1100	12	5	5095	66	20	66786	19	10	5095	19.99	19.89	20.50	
CA_2A-12B-66A	66	20	16QAM	1	99	100	0	132072	66536	2	20	900	12	5	5155	12	10	5095	19.26	19.04	19.50	
CA_2A-4A-7A-12A	2	20	16QAM	1	50	100	0	19100	1100	4	20	2175	7	12	10	5095	12	10	5095	19.99	19.80	20.50
CA_2A-4A-7A-12A	4	20	16QAM	1	50	100	0	20300	2300	2	20	900	7	20	3100	12	10	5095	20.46	20.37	21.00	
CA_2A-4A-7A-12A	7	20	QPSK	50	25	100	0	20850	2850	2	20	900	4	20	2300	12	10	5095	20.20	20.06	21.00	