FCC SAR TEST REPORT

Report No:	E5/2018/C0055
Applicant:	Huawei Technologies Co., Ltd.
Manufacturer:	Huawei Technologies Co., Ltd.
Factory:	Huawei Technologies Co., Ltd.
Product Name:	Smart Phone
Model No.(EUT):	CLT-L04
Trade Mark:	HUAWEI
FCC ID:	QISCLT-L04
Standards:	FCC 47CFR §2.1093
Date of Receipt:	2018-12-05
Date of Test:	2018-12-07 to 2018-12-27
Date of Issue:	2018-12-27
Test conclusion:	**PASS ***

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Signed on behalf of SGS

Sr. Engineer	**Asst. Manager**
Matt Kuo	John Yeh
Matt Kuo	**John Yeh**
Date: Dec.27, 2018	**Date: Dec.27, 2018**

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REVISION HISTORY

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2018-12-27		Original

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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.79	0.61	**0.91**	/
GSM1900	0.67	0.40	0.73	2.25
WCDMA Band II	0.87	0.62	0.86	2.33
WCDMA Band IV	0.78	0.50	0.60	2.49
WCDMA Band V	0.57	0.50	0.73	/
LTE Band 2	0.79	**0.62**	0.90	2.17
LTE Band 4	0.98	0.52	0.59	**2.66**
LTE Band 5	0.80	0.42	0.59	/
LTE Band 7	0.51	0.40	0.54	1.19
LTE Band 12	**1.03**	0.28	0.38	/
LTE Band 17	0.99	0.28	0.39	/
LTE Band 26	0.70	0.36	0.55	/
LTE Band 38	0.53	0.23	0.70	/
LTE Band 41	0.57	0.21	0.46	/
WI-FI (2.4GHz)	0.76	0.18	0.70	/
WI-FI (5GHz)	0.52	0.24	0.70	1.43
Bluetooth	0.10	<0.10	<0.10	/
SAR Limited(W/kg)	1.6			4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	1.57	0.97	1.45	2.66
SPLSR	N/A	N/A	N/A	N/A
SPLSR Limited	0.04			0.1

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1 General Information

1.1 Details of Client

Applicant:	Huawei Technologies Co., Ltd.
Address:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Manufacturer:	Huawei Technologies Co., Ltd.
Address:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Factory:	Huawei Technologies Co., Ltd.
Address:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

1.2 Test Location

Applicant:	SGS Taiwan Ltd. Electronics & Communication Laboratory
Address:	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan
Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

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1.3 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	Smart Phone		
Model No.(EUT):	CLT-L04		
FCC ID:	QISCLT-L04		
Trade Mark:	HUAWEI		
Product Phase:	production unit		
SN:	DXU7N18306000036/DXU0218211000230/DXU0218211000205/ DXU0218211000125/DXU0218211000122/DXU0218211000094/ DXU0218211000220		
Hardware Version:	HL1CLTM		
Software Version:	CLT-L04 8.1.0.178(C792)		
Antenna Type:	Inner Antenna		
Device Operating Configurations :			
Modulation Mode:	GSM:GMSK, 8PSK; WCDMA: QPSK; LTE:QPSK,16QAM,64QAM WIFI: DSSS,OFDM;BT: GFSK, π/4DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	14	HSUPA UE Category	6
DC-HSDPA UE Category:	24		
LTE Release	13		
Power Class:	4,tested with power level 5(GSM850)		
	1,tested with power level 0(GSM1900)		
	3, tested with power control “all 1”(WCDMA Band II/IV/V)		
	3, tested with power control Max Power(LTE Band 2/4/5/7/12/17/26/38/41)		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824 - 849	869 - 894
	GSM1900	1850-1910	1930-1990
	WCDMA Band V	824 - 849	869 - 894
	WCDMA Band IV	1710–1755	2110–2155
	WCDMA Band II	1850-1910	1930-1990
	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	2570-2620
	LTE Band 41	2545-2655	2545-2655
	Bluetooth	2400-2483.5	2400-2483.5
	Wi-Fi 2.4G	2412-2462	2412-2462
	Wi-Fi 5G	5150-5350 5470-5850	5150-5350 5470-5850
	NFC	13.56	13.56

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Battery Information1#:	Model: HB436486ECW
	Rated capacity: 3900mAh
	Battery Type: Rechargeable Li-ion Battery
	Manufacturer: Desay Battery Co., Ltd.
Battery Information2#:	Model: HB436486ECW
	Rated capacity: 3900mAh
	Battery Type: Rechargeable Li-ion Battery
	Manufacturer: Sunwoda Electronic Co., LTD
Battery Information3#:	Model: HB436486ECW
	Rated capacity: 3900mAh
	Battery Type: Rechargeable Li-ion Battery
	Manufacturer: SCUD (FUJIAN) Electronics Co., Ltd
Headset Information1#:	Model: MEND1632B729000
	Manufacturer: JIANGXI LIANCHUANG HONGSHENG ELECTRONIC CO., LTD
Headset Information2#:	Model: 1331-3301-6001-TC-296
	Manufacturer: BOLUO COUNTY QUANCHENG ELECTRONIC CO., LTD
Headset Information3#:	Model: WINDY-C
	Manufacturer: Goer Tek Inc
Headset Information4#:	Model: L99EP003-CS-H
	Manufacturer: MERRY ELECTRONICS (SHENZHEN) CO., LTD.

Remark:

The mobile phone CLT-L04(NEW) and CLT-L04(BEFORE) are LTE/UMTS/GSM mobile phone with Bluetooth. The differences between CLT-L04(NEW) and CLT-L04(BEFORE) are showed in the following table. Other parts of the mobile phone are the same, including the appearance, the antenna, Chipset, Bluetooth mode, Wifi mode, Adapter, Battery, and so on.

	CLT-L04(NEW)	CLT-L04(BEFORE)
GSM four bands	B2/B3/B5/B8	B2/B3/B5/B8
WCDMA bands	B1/2/4/5/6/8/19	B1/2/4/5/6/8/19
LTE bands	FDD LTE： B1/2/3/4/5/6/7/8/9/12/17/18/19/20/ B26/28/32 TDD LTE： B34/B38/39/40/41(110M,2545-2655)	FDD LTE： B1/2/3/4/5/6/7/8/9/12/17/18/19/20/ B26/28/32 TDD LTE： B34/B38/39/40/41(110M,2545-2655)
FCC bands	GSM850/1900 WB2/B4/B5 LTE B2/4/5/B7/B12/B17/B26/38/B41	GSM850/1900 WB2/B4/B5 LTE B2/4/5/B7/B12/B17/B26/38/B41
SIM card	the same	the same
NFC	the same	the same
External camera	the same	the same
internal camera	the same	the same
FLASH	the same	the same
Mainboard	the same	the same

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PCB layout	the same	the same
Appearance	the same	the same
Bluetooth mode	the same	the same
WLAN mode	the same	the same
BT/ WLAN antenna	the same	the same
GSM/ WCDMA /LTE antenna	the same	The same
SAR sensor	On bottom side of antenna board	On top side of antennal board
Adapter	the same	the same
Battery	the same	the same
Chipset	the same	the same
Memory	the same	the same
RF Parameter	The same RF Parameter in the same band	The same RF Parameter in the same band
Dimension	the same	the same
Main Frequency NV	The same NV in the same band	The same NV in the same band

According to the difference description above, in this report, the GSM1900, WCDMA Band II/IV, LTE Band 2/4/7 of 0mm is all test, others is test at the worst case of the Original report E5/2018/20036 and update the conducted power for the SAR test configuration.

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1.3.1 DUT Antenna Locations

The test device is a mobile phone. The display diagonal dimension is 154mm and the overall diagonal dimension of this device is 165mm.
According to the distance between LTE/WCDMA/GSM&WIFI antennas and the sides of the EUT we can draw the conclusion that:

EUT Sides for SAR Testing						
Mode	Front	Back	Left	Right	Top	Bottom
Ant.1(Main Ant.)	Yes	Yes	Yes	Yes	No	Yes
Ant.2(Second Ant.)	Yes	Yes	Yes	Yes	Yes	No
Ant.3(5G WIFI2 Ant.)	Yes	Yes	Yes	No	Yes	No
Ant.4(2.4G WIFI1, BT&5G WIFI1 Ant.)	Yes	Yes	No	Yes	Yes	No
Ant.4(LTEB4/7 MIMO Ant.)	NA	NA	NA	NA	NA	NA
Ant.5(2.4G WIFI2 Ant.)	Yes	Yes	Yes	No	Yes	No
Ant.6(LTE B7 MIMO Ant.)	NA	NA	NA	NA	NA	NA
Ant.7(LTE B4MIMO Ant.)	NA	NA	NA	NA	NA	NA

Table 1： EUT Sides for SAR Testing

Note:

1) When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.
2) Main antenna(Ant1) and Secondary antenna(Ant.2) can't transmit simultaneously which will be chosen based on the RSSI. Only one antenna can be used for 2G/3G/4G transmission at a time. Ant.1, Ant.2, Ant.4, Ant.7 supports DL LTE 4*4 MIMO (Band LTE B4), Ant.1, Ant.2, Ant.4, Ant.6 supports DL LTE 4*4 MIMO (Band LTE B7).
3) Ant.4(LTEB4/7 MIMO Ant.), Ant.6(LTE B7 MIMO Ant.) and Ant.7(LTE B4MIMO Ant.) does not support TX function

1.3.1.1 Detailed DUT Antenna Locations

Please see the Appendix E

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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 cannot transmit simultaneously.

SAR test procedure for dynamic antenna switching is as below:

The Main Antenna and Second Antenna are set to the MAX transmit power level respectively and test the SAR respectively in all applicable RF exposure conditions. Some commands or test scripts are supplied to fix the operation state and choose the antenna so that only one TX antenna is chosen and tested at a time. All independent antennas will be completely covered by the appropriate SAR measurements and all simultaneous transmission possibilities will be fully considered to ensure SAR compliance.

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1.3.3 Power reduction specification

1) This device uses the Accelerometer & Gyroscope sensor & audio receiver to indicate whether the user is making a call at Left/Right head scenario or not. The selection between Left/Right head and body power levels is based on the A-G sensor & an audio receiver detection mechanism. The audio receiver is used to determine head or body scenario. The A-G sensor is used just to determine proximity to Left or Right head scenario. The relevant power levels is set for 2G&3G&4G and Wi-Fi antennas accordingly.

Table: Summery of A-G sensor & an audio receiver detection mechanism

Receiver on (Left head scenario)	Receiver on (Right head scenario)	Receiver on (Unknown Left or right head scenario)	Receiver off (Body/other scenario)
Power Level A	Power Level B	Power Level Min(A:B)	Power Level C

Note:The power level A and B and C can be set to the same or different according to different bands.

2) This device uses a single fixed level of power reduction through static table look-up for SAR compliance and it is triggered by a single event or operation:

a) 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.

b) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions. The standalone SAR compliance still uses the standalone SAR results tested at the maximum output power level without any power reduction.

c) A fixed level power reduction is applied for some frequency bands when capacitive proximity sensor mode becomes active to ensure body SAR compliance.

The following tables summarize the key power reduction information. The detailed full power which is the Max. power the state can use and reduced tune-up specifications and conducted power measurement results are provided in Section 8 of this report.

Second antenna Power Reduction Level Amount (dBm)														
Power Reduction Scenario	GSM 850	GSM 1900	WCDMA Band 2	WCDMA Band 4	WCDMA Band 5	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 17	LTE Band 26	LTE Band 38	LTE Band 41
Receiver on (left head)	3.0	3.0	5.5	3.5	4.0	4.5	3.0	2.0	7.5	1.6	1.7	2.5	4.5	4.0
Receiver on (right head)	3.0	4.0	6.5	5.0	4.0	6.0	5.0	2.5	11.0	2.0	2.5	2.5	8.5	8.0
Receiver on(unknown)	3.0	4.0	6.5	5.0	4.0	6.0	5.0	2.5	11.0	2.0	2.5	2.5	8.5	8.0
Receiver off(body)	3.0	4.0	1.0	1.0	0.0	1.0	0.5	0.0	3.5	0.0	0.0	0.0	2.5	2.5
Receiver on(left head)+WiFi on	6.0	6.0	9.0	6.5	7.0	7.5	6.0	5.0	9.0	4.6	4.7	5.5	7.5	7.0
Receiver on (right head)+WiFi on	6.0	7.0	10.0	8.0	7.0	9.0	8.0	5.5	12.5	5.0	5.5	5.5	11.5	11.0
Receiver on(unknown)+WiFi on	6.0	7.0	10.0	8.0	7.0	9.0	8.0	5.5	12.5	5.0	5.5	5.5	11.5	11.0
Receiver off(body)+WiFi on	6.0	7.0	4.5	4.0	3.0	4.0	3.5	3.0	5.0	3.0	3.0	3.0	5.5	5.5

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Main antenna Power Reduction Level Amount (dBm)								
Power Reduction Scenario	GSM1900	WCDMA Band 2	WCDMA Band 4	LTE Band 2	LTE Band 4	LTE Band 7	LTE Band 38	LTE Band 41
Receiver on(head)+SAR sensor off	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Receiver off+SAR Sensor on Level D0+wifi hotspot off	1.0	3.0	2.0	2.5	2.0	3.0	0.5	0.0
Receiver off+SAR Sensor on Level D1+wifi hotspot off	1.0	3.0	2.0	2.5	2.0	1.0	0.0	0.0
Receiver off+SAR Sensor on Level D2&D3+wifi hotspot off	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Receiver off+SAR Sensor off+wifi hotspot on	3.0	5.0	5.0	5.0	5.5	4.0	1.0	2.5
Receiver off+SAR Sensor on Level D0+wifi hotspot on	4.0	8.0	7.0	7.5	7.5	7.0	1.5	2.5
Receiver off+SAR Sensor on Level D1+wifi hotspot on	4.0	8.0	7.0	7.5	7.5	5.0	1.0	2.5

WiFi antenna					
Power Reduction Scenario	WiFi 2.4G		WiFi 5G		
	2.4G Wifi2	2.4G Wifi1	CH	5G Wifi2	5G Wifi1
Receiver off(Body Scene)	0.0	0.0	36-165	0.0	0.0
Receiver on(Left or Right Head or Unknown L/R)	0.0	3.0	36-64	3.0	6.0
			100-165	3.0	8.0

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1.3.4 Downlink LTE CA additional specification

The device supports Release 13 downlink LTE Carrier Aggregation (CA) only. All uplink communications are identical to the Release 8 Specifications.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V13.5.0 (2016-09). The conducted power measurement results of downlink LTE CA are provided in Section 8 of this report per 3GPP TS 36.521-1 V13.3.0 (2016-09). According to KDB 941225 D05A, the downlink LTE CA SAR test is not required and PAG requirements can be excluded.

LTE CA+DL 4*4 MIMO

Model Name	**CLT-L04C (FCC)**
LTE Band support DL 4*4MIMO	B4/B7
Intra-band contiguous CA With DL 4*4MIMO	**4*4MIMO Band**
CA_7C	B7
Inter-band CA (two bands) With DL 4*4MIMO	**4*4MIMO Band**
CA_2A-4A	B4
CA_2A-7A	B7
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_5A-7A	B7
CA_7A-12A	B7
Inter-band CA (Three bands) With DL 4*4MIMO	**4*4MIMO Band**
CA_2A-4A-5A	B4
CA_2A-4A-7A	B4/B7
CA_2A-4A-12A	B4(B2/B4 PCC ONLY)
CA_4A-7A-12A	B4/B7(B4/B7 PCC ONLY)
CA_4A-12A-12A	B4(B4 PCC ONLY)
Inter-band CA (Four bands) With DL 4*4MIMO	**4*4MIMO Band**
CA_2A-4A-7C	B4 or B7
CA_2A-4A-7A-12A	B4(2/4/7PCC)

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Intra-band contiguous CA operating bands

E-UTRA CA Band	E-UTRA Band	Uplink (UL) operating band BS receive / UE transmit F_{UL_low} – F_{UL_high}			Downlink (DL) operating band BS transmit / UE receive F_{DL_low} – F_{DL_high}			Duplex Mode
CA_7	7	2500 MHz	–	2570 MHz	2620 MHz	–	2690 MHz	FDD

Range	CC-Combo / NRB_agg [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N_{UL}	f_{UL} [MHz]	N_{DL}	f_{DL} [MHz]	BW [RB]	N_{UL}	f_{UL} [MHz]	N_{DL}	f_{DL} [MHz]
Low	50+100	50	20805	2505.5	2805	2625.5	100	20949	2519.9	2949	2639.9
		100	20850	2510	2850	2630	50	20994	2524.4	2994	2644.4
	75+75	75	20825	2507.5	2825	2627.5	75	20975	2522.5	2975	2642.5
	75+100	75	20828	2507.8	2828	2627.8	100	20999	2524.9	2999	2644.9
		100	20850	2510	2850	2630	75	21021	2527.1	3021	2647.1
	100+100	100	20850	2510	2850	2630	100	21048	2529.8	3048	2649.8
Mid	50+100	50	21006	2525.6	3006	2645.6	100	21150	2540	3150	2660
		100	21051	2530.1	3051	2650.1	50	21195	2544.5	3195	2664.5
	75+75	75	21025	2527.5	3025	2647.5	75	21175	2542.5	3175	2662.5
	75+100	75	21003	2525.3	3003	2645.3	100	21174	2542.4	3174	2662.4
		100	21026	2527.6	3026	2647.6	75	21197	2544.7	3197	2664.7
	100+100	100	21001	2525.1	3001	2645.1	100	21199	2544.9	3199	2664.9
High	50+100	50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680
		100	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5
	75+75	75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5
	75+100	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680
		100	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2
	100+100	100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680

Note 1: Carriers in increasing frequency order.

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non-contiguous intra-band CA

E-UTRA CA Band	E-UTRA Band	Uplink (UL) operating band BS receive / UE transmit F_{UL_low} – F_{UL_high}			Downlink (DL) operating band BS transmit / UE receive F_{DL_low} – F_{DL_high}			Duplex Mode
CA_4-4	4	1710 MHz	–	1785 MHz	2110 MHz	–	2155 MHz	FDD
CA_7-7	7	2500 MHz	–	2570 MHz	2620 MHz	–	2690 MHz	FDD
CA_12-12	12	699 MHz	–	716 MHz	729 MHz	–	746 MHz	FDD

E-UTRA CA configuration / Bandwidth combination set						
E-UTRACA configuration	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_4A-4A	5, 10, 15, 20	5, 10, 15, 20			40	0
	5, 10	5, 10			20	1
CA_7A-7A	5	15			40	0
	10	10, 15				
	15	15, 20				
	20	20				
	5, 10, 15, 20	5, 10, 15, 20			40	1
	5, 10, 15, 20	5, 10			30	2
	10, 15, 20	10, 15, 20			40	3
CA_12A-12A	5	5			10	0

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Test frequencies for CA_4A-4A

Test Frequency ID	CC-Combo / NRB_agg [RB]	CC1 Note1					Wgap [MHz]	CC2 Note1				
		BW [RB]	N_{UL}	f_{UL} [MHz]	N_{DL}	f_{DL} [MHz]		BW [RB]	N_{UL}	f_{UL} [MHz]	N_{DL}	f_{DL} [MHz]
Low WGap	25+25	25	20125	1727.5	2125	2127.5	5	25	20225	1737.5	2225	2137.5
	50+50	50	20100	1725	2100	2125	5	50	20250	1740	2250	2140
	50+100	50	20095	1724.5	2095	2124.5	5	100	20255	1740.5	2255	2140.5
	100+100	100	20050	1720	2050	2120	5	100	20300	1745	2300	2145
Max WGap	25+25	25	19975	1712.5	1975	2112.5	35	25	20375	1752.5	2375	2152.5
	25+50	25	19975	1712.5	1975	2112.5	30	50	20350	1750	2350	2150
		50	20000	1715	2000	2115	30	25	20375	1752.5	2375	2152.5
	25+75	25	19975	1712.5	1975	2112.5	25	75	20325	1747.5	2325	2147.5
		75	20025	1717.5	2025	2117.5	25	25	20375	1752.5	2375	2152.5
	50+50	50	20000	1715	2000	2115	25	50	20350	1750	2350	2150
	25+100	25	19975	1712.5	1975	2112.5	20	100	20300	1745	2300	2145
		100	20050	1720	2050	2120	20	25	20375	1752.5	2375	2152.5
	50+75	50	20000	1715	2000	2115	20	75	20325	1747.5	2325	2147.5
		75	20025	1717.5	2025	2117.5	20	50	20350	1750	2350	2150
	50+100	50	20000	1715	2000	2115	15	100	20300	1745	2300	2145
		100	20050	1720	2050	2120	15	50	20350	1750	2350	2150
	75+75	75	20025	1717.5	2025	2117.5	15	75	20325	1747.5	2325	2147.5
	75+100	75	20025	1717.5	2025	2117.5	10	100	20300	1745	2300	2145
		100	20050	1720	2050	2120	10	75	20325	1747.5	2325	2147.5
	100+100	100	20050	1720	2050	2120	5	100	20300	1745	2300	2145

Note 1: Carriers in increasing frequency order.

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Test frequencies for CA_7A-7A

Test Frequency ID	CC-Combo / NRB_agg [RB]	CC1 Note1					Wgap [MHz]	CC2 Note1				
		BW [RB]	N_{UL}	f_{UL} [MHz]	N_{DL}	f_{DL} [MHz]		BW [RB]	N_{UL}	f_{UL} [MHz]	N_{DL}	f_{DL} [MHz]
Max WGap	25+25	25	20775	2502.5	2775	2622.5	60	25	21425	2567.5	3425	2687.5
	25+50	25	20775	2502.5	2775	2622.5	55	50	21400	2565	3400	2685
		50	20800	2505	2800	2625	55	25	21425	2567.5	3425	2687.5
	25+75	25	20775	2502.5	2775	2622.5	50	75	21375	2562.5	3375	2682.5
		75	20825	2507.5	2825	2627.5	50	25	21425	2567.5	3425	2687.5
	50+50	50	20800	2505	2800	2625	50	50	21400	2565	3400	2685
	25+100	25	20775	2502.5	2775	2622.5	45	100	21350	2560	3350	2680
		100	20850	2510	2850	2630	45	25	21425	2567.5	3425	2687.5
	50+75	50	20800	2505	2800	2625	45	75	21375	2562.5	3375	2682.5
		75	20825	2507.5	2825	2627.5	45	50	21400	2565	3400	2685
	50+100	50	20800	2505	2800	2625	40	100	21350	2560	3350	2680
		100	20850	2510	2850	2630	40	50	21400	2565	3400	2685
	75+75	75	20825	2507.5	2825	2627.5	40	75	21375	2562.5	3375	2682.5
	75+100	75	20825	2507.5	2825	2627.5	35	100	21350	2560	3350	2680
		100	20850	2510	2850	2630	35	75	21375	2562.5	3375	2682.5
	100+100	100	20850	2510	2850	2630	30	100	21350	2560	3350	2680
Refsens[2]	75+100	75	21025	2527.5	3025	2647.5	15	100	21350	2560	3350	2680
	100+100	100	21000	2525	3000	2645	15	100	21350	2560	3350	2680
	25+100	25	20975	2522.5	2975	2642.5	25	100	21350	2560	3350	2680
	50+100	50	21000	2525	3000	2645	20	100	21350	2560	3350	2680

Note 1: Carriers in increasing frequency order.
Note 2: Test point derived with regard to REFSENS requirements.

Test frequencies for CA_12A-12A

Test Frequency ID	CC-Combo / NRB_agg [RB]	CC1 Note1					Wgap [MHz]	CC2 Note1				
		BW [RB]	N_{UL}	f_{UL} [MHz]	N_{DL}	f_{DL} [MHz]		BW [RB]	N_{UL}	f_{UL} [MHz]	N_{DL}	f_{DL} [MHz]
Max WGap	25+25	25	23035	701.5	5035	731.5	7	25	23155	713.5	5155	743.5

Note 1: Carriers in increasing frequency order.

Inter-band Downlink CA (two bands)

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E-UTRA CA Configuration	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-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-28A	2			Yes	Yes	Yes	Yes	40	0
	28			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-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-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-28A	4			Yes	Yes	Yes	Yes	40	0
	28			Yes	Yes	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_7A-12A	7			Yes	Yes	Yes	Yes	30	0
	12			Yes	Yes				
CA_7A-28A	7			Yes	Yes	Yes	Yes	35	0

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	28			Yes	Yes	Yes			
	7			Yes	Yes	Yes	Yes	40	1
	28			Yes	Yes	Yes	Yes		
CA_7C-28A	7	See CA_7C bandwidth combination set 2 in table 5.4.2A.1-1						60	0
	28			Yes	Yes	Yes	Yes		

Note:

1）For the inter-band CA combinations, Except CA_2A-12B, CA_4A-12A, CA_4A-12B, CA_4A-28A, B12/B28 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 V13.5.0 (2016-09).

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

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Inter-band Downlink CA (Three bands)

E-UTRA CA Configuration	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-12A	2			Yes	Yes	Yes	Yes	50	0
	4			Yes	Yes	Yes	Yes		
	12			Yes	Yes				
CA_2A-7A-12A	2			Yes	Yes	Yes	Yes	50	0
	7			Yes	Yes	Yes	Yes		
	12			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: All the listed bands above can be used as PCC or SCC except for CA_2A-4A-12A，CA_4A_7A_12A, CA_4A_12A_12A, B12 cannot be PCC.

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Inter-band CA operating bands (four bands)

E-UTRA CA Band	E-UTRA Band	Uplink (UL) operating band BS receive / UE transmit F_{UL_low} – F_{UL_high}			Downlink (DL) operating band BS transmit / UE receive F_{DL_low} – F_{DL_high}			Duplex Mode
2-4-7	2	1850 MHz	–	1910 MHz	1930 MHz	–	1990 MHz	FDD
	4	1710 MHz	–	1785 MHz	2110 MHz	–	2155 MHz	
	7	2500 MHz	–	2570 MHz	2620 MHz	–	2690 MHz	
2-4-7-12	2	1850 MHz	–	1910 MHz	1930 MHz	–	1990 MHz	FDD
	4	1710 MHz	–	1785 MHz	2110 MHz	–	2155 MHz	
	7	2500 MHz	–	2570 MHz	2620 MHz	–	2690 MHz	
	12	699 MHz	–	716 MHz	729 MHz	–	746 MHz	

E-UTRA CA Configuration	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-7C	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-7A-12A	2			Yes	Yes	Yes	Yes	70	0
	4			Yes	Yes	Yes	Yes		
	7			Yes	Yes	Yes	Yes		
	12			Yes	Yes				

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1.4 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE Std C95.1 – 1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02
KDB 447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03

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1.5 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	**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

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.)

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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

Table 2： The Ambient Conditions

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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

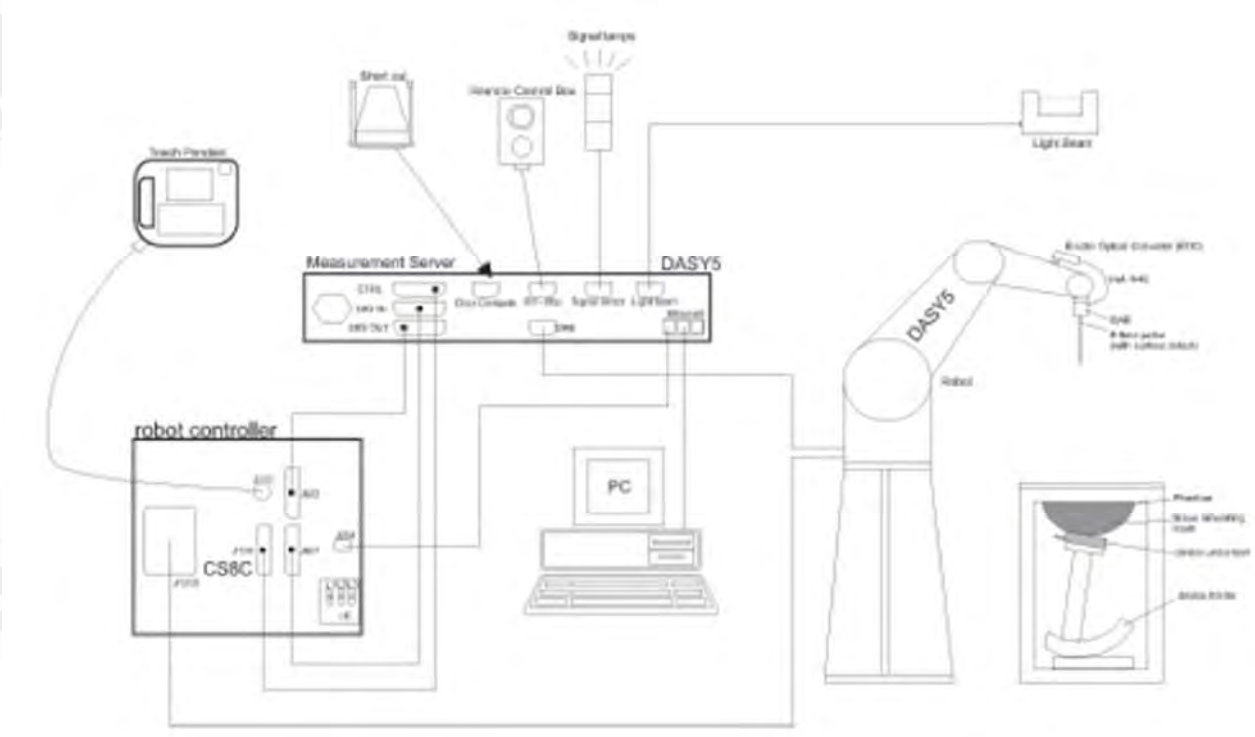
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

The DASY5 system for performing compliance tests consists of the following items:
A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration

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- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

3.2 Isotropic E-field Probe EX3DV4

	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 TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/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: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

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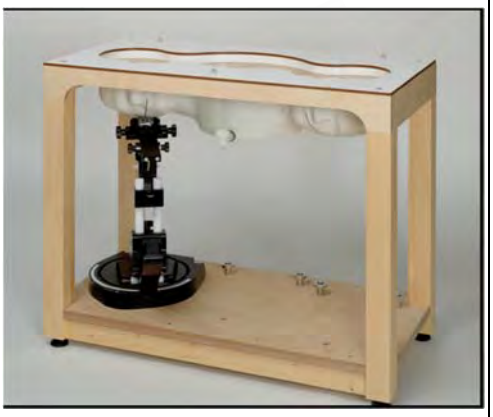
3.3 Data Acquisition Electronics (DAE)

Model	DAE4
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5µV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm

3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx. 25 liters
Wooden Support	SPEAG standard phantom table



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.

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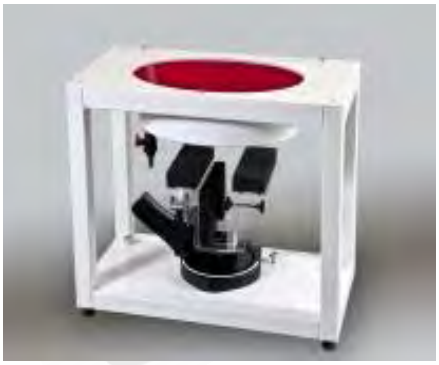
3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2.0 ± 0.2 mm (bottom plate)
Dimensions	Major axis: 600 mm Minor axis: 400 mm
Filling Volume	approx. 30 liters
Wooden Support	SPEAG standard phantom table



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.

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3.6 Device Holder for Transmitters

F-2. **Device Holder for Transmitters**

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε=3 and loss tangent δ=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.

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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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.

Step 2: *Area scan*

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: *Zoom scan*

Around this point, a volume of 32mm*32mm*30mm (f≤2GHz), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification).The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.

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			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. ± 5 %

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3.7.2 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], [m W/g], [m W/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.

3.7.3 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 Normi, ai0, ai1, ai2
- Conversion factor ConvFi
- Diode compression point Dcpi
Device parameters: - Frequency f
- Crest factor cf
Media parameters: - Conductivity ε
- 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 Vi = compensated signal of channel i (i = x, y, z)

Ui = 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:

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E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$

H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1} f + a_{i2} f^2) / f$$

With Vi = compensated signal of channel i (i = x, y, z)
Normi = sensor sensitivity of channel I (i = x, y, z)
[mV/(V/m)2] for E-field Probes
ConvF = sensitivity enhancement in solution
aij = sensor sensitivity factors for H-field probes
f = carrier frequency [GHz]
Ei = electric field strength of channel i in V/m

Hi = magnetic field strength of channel i in A/m

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

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

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

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

σ= conductivity in [mho/m] or [Siemens/m]

ε= 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.

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

with Ppwe = equivalent power density of a plane wave in mW/cm2
Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m

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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, 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.

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4.2 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.

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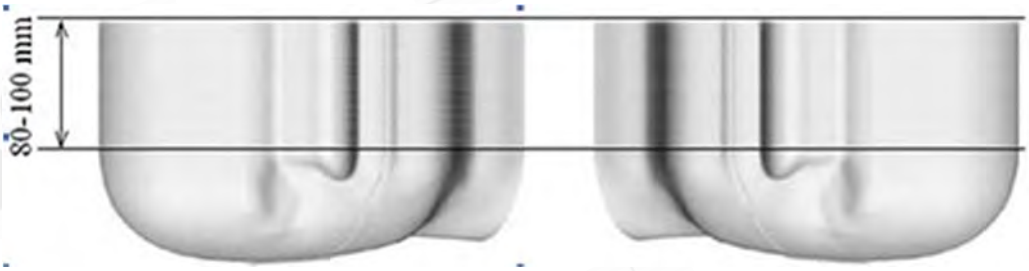
5 Description of Test Position

5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

Note: The centre strip including the nose region has a different thickness tolerance.



F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)

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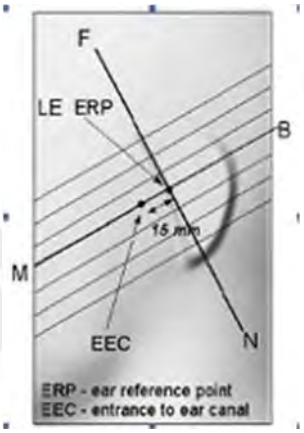
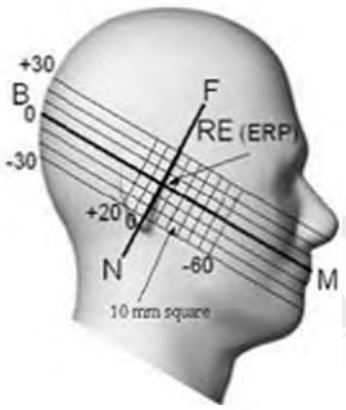
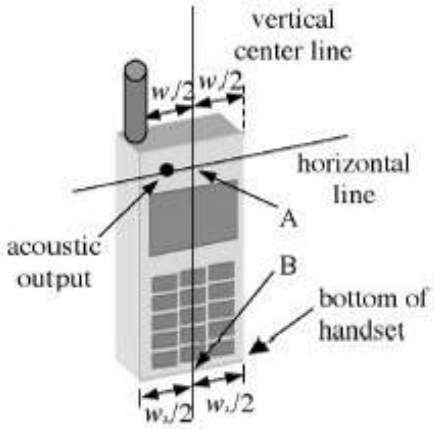


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

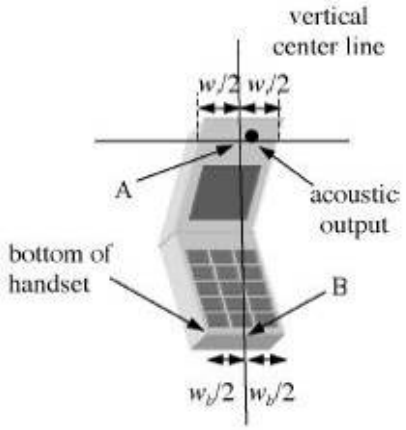


F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines-“fixed case”



F-8. Handset vertical and horizontal reference lines-“clam-shell case”

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5.1.3 Definition of the “cheek” position

a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom ("initial position"). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.

b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.

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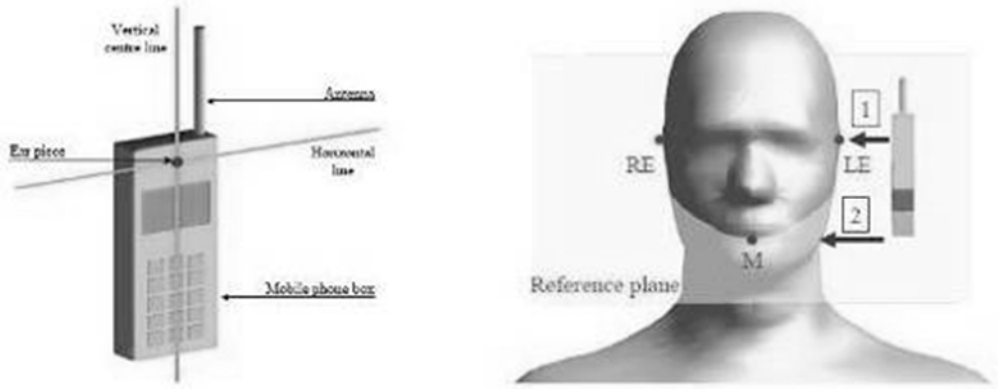
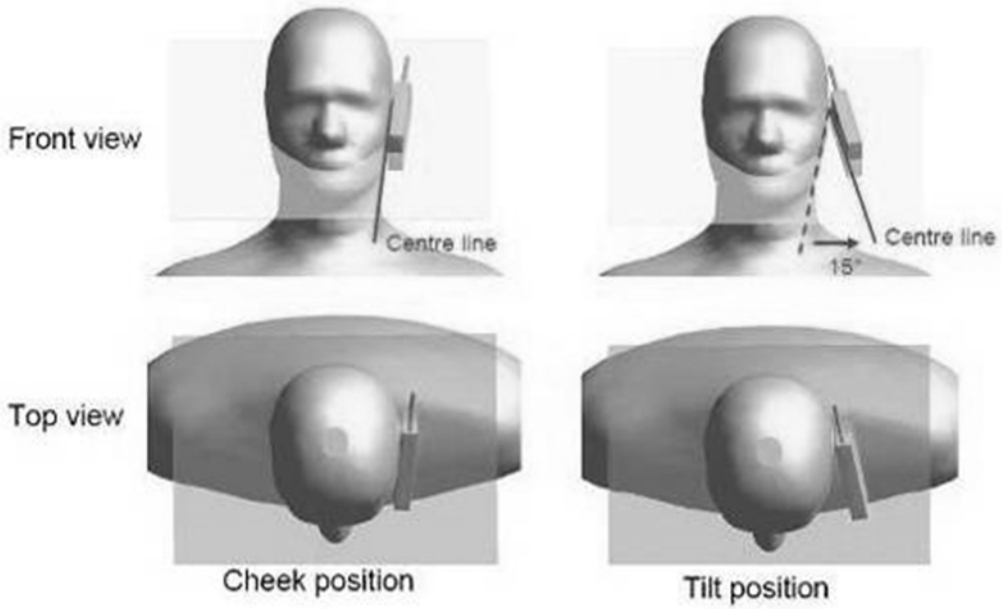
5.1.4 Definition of the “tilted” position

a) Position the device in the “cheek” position described above;

b) While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-9. **Definition of the reference lines and points, on the phone and on the phantom and initial position**



F-10. **“Cheek” and “tilt” positions of the mobile phone on the left side**

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5.2 Body Exposure Condition

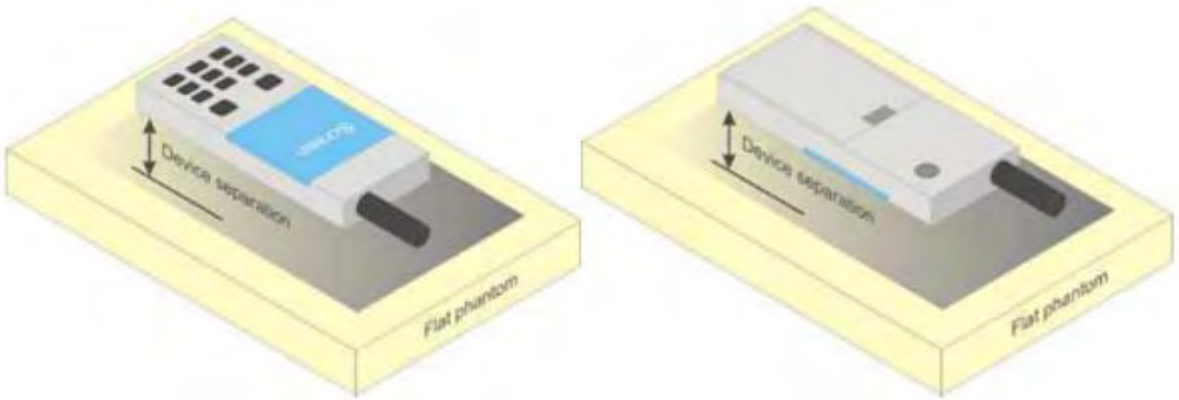
5.2.1 Body-worn accessory exposure conditions

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 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 Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



F-11. Test positions for body-worn devices

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5.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.

5.3 Extremity exposure conditions

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.
Due to the SAR result, only the following frequency bands need to test with 0mm for the Product Specific 10-g SAR, the others are not required.

Main Antenna Test data											
Band	Test position of Hotspot with 10mm	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Product Specific 10-g SAR SAR Exclusion
Product extremity condition											
GSM 1900	Bottom side	GPRS 2TS	810/1909.8	1:4.15	0.500	-0.10	24.60	29.00	2.754	1.377	No
WCDMA Band II	Bottom side	RMC	9538/1907.6	1:1	0.710	-0.04	18.65	24.50	3.846	2.731	No
WCDMA Band IV	Bottom side	RMC	1412/1732.4	1:1	0.496	0.08	18.18	24.00	3.819	1.894	No
LTE Band 2	Bottom side	QPSK	18700/1860	1:1	0.535	0.10	18.62	24.00	3.451	1.847	No
LTE Band 4	Bottom side	QPSK	20175/1732.5	1:1	0.465	0.03	17.69	24.00	4.276	1.988	No
LTE Band 7	Bottom side	QPSK	20850/2510	1:1	0.489	-0.02	19.18	23.60	2.767	1.353	No

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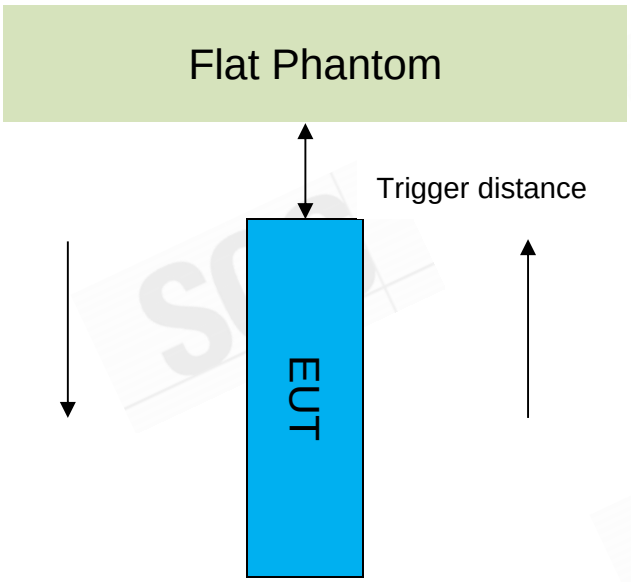
5.4 Proximity Sensor Triggering Test

5.4.1 Main antenna Proximity Sensor

1) Proximity sensor triggering distances

The Proximity sensor triggering was applied to GSM1900, WCDMA Band II/IV; LTE Band 2, 4,7,38 Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.



Proximity Sensor Triggering Distance(mm)			
Position	Front	Back	Bottom
Minimum	10(GSM1900, WCDMA Band II/IV, LTE Band 2/4/7) 5(LTE Band 7/38)	8 (GSM1900, WCDMA Band II/IV, LTE Band 2/4/7) 4(LTE Band 7/38)	10(GSM1900, WCDMA Band II/IV, LTE B2/4/7) 5(LTE B7/38)
Required SAR Test	9(GSM1900, WCDMA B2/4, LTE Band 2/4/7) 4(LTE Band7/38)	7(GSM1900, WCDMA Band II/IV, LTE Band 2/4/7) 3(LTE Band 7/38)	9(GSM1900, WCDMA Band II/IV, LTE B2/4/7) 4(LTE Band 7/38)

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Band	Test position	Sensor Trigger Distance range(DUT to Phantom)	Power reduction amount(dB)	Max Power level（dBm）	Power Level
GSM1900	Bottom side	0≤distance≤10mm	1	29	level D1
		10mm<distance≤16mm	0	30	level D2
		16mm<distance	0	30	level D3
	Back side	0≤distance≤8mm	1	29	level D1
		8mm<distance≤14mm	0	30	level D2
		distance>14mm	0	30	level D3
	Front side	0≤distance≤10mm	1	29	level D1
		10mm<distance≤16mm	0	30	level D2
		16mm<distance	0	30	level D3
	Left side	ALL	0	30	level D3
	Right side	ALL	0	30	level D3
	Top side	ALL	0	30	level D3
WCDMA B2	Bottom side	0≤distance≤10mm	3	20.5	level D1
		10mm<distance≤16mm	0	23.5	level D2
		16mm<distance	0	23.5	level D3
	Back side	0≤distance≤8mm	3	20.5	level D1
		8mm<distance≤14mm	0	23.5	level D2
		distance>14mm	0	23.5	level D3
	Front side	0≤distance≤10mm	3	20.5	level D1
		10mm<distance≤16mm	0	23.5	level D2
		16mm<distance	0	23.5	level D3
	Left side	ALL	0	23.5	level D3
	Right side	ALL	0	23.5	level D3
	Top side	ALL	0	23.5	level D3
WCDMA B 4	Bottom side	0≤distance≤10mm	2	21	level D1
		10mm<distance≤16mm	0	23	level D2
		16mm<distance	0	23	level D3
	Back side	0≤distance≤8mm	2	21	level D1
		8mm<distance≤14mm	0	23	level D2
		distance>14mm	0	23	level D3
	Front side	0≤distance≤10mm	2	21	level D1
		10mm<distance≤16mm	0	23	level D2
		16mm<distance	0	23	level D3
	Left side	ALL	0	23	level D3
	Right side	ALL	0	23	level D3
	Top side	ALL	0	23	level D3
LTE B2	Bottom side	0≤distance≤10mm	2.5	20.5	level D1
		10mm<distance≤16mm	0	23	level D2

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		16mm<distance	0	23	level D3
	Back side	0≤distance≤8mm	2.5	20.5	level D1
		8mm<distance≤14mm	0	23	level D2
		distance>14mm	0	23	level D3
	Front side	0≤distance≤10mm	2.5	20.5	level D1
		10mm<distance≤16mm	0	23	level D2
		16mm<distance	0	23	level D3
	Left side	ALL	0	23	level D3
	Right side	ALL	0	23	level D3
	Top side	ALL	0	23	level D3
LTE B4	Bottom side	0≤distance≤10mm	2	20.5	level D1
		10mm<distance≤16mm	0	22.5	level D2
		16mm<distance	0	22.5	level D3
	Back side	0≤distance≤8mm	2	20.5	level D1
		8mm<distance≤14mm	0	22.5	level D2
		distance>14mm	0	22.5	level D3
	Front side	0≤distance≤10mm	2	20.5	level D1
		10mm<distance≤16mm	0	22.5	level D2
		16mm<distance	0	22.5	level D3
	Left side	ALL	0	22.5	level D3
	Right side	ALL	0	22.5	level D3
	Top side	ALL	0	22.5	level D3
LTE B7	Bottom side	0≤distance≤5mm	3	19.6	level D0
		5mm<distance≤10mm	1	21.6	level D1
		10mm<distance≤16mm	0	22.6	level D2
		16mm<distance	0	22.6	level D3
	Back side	0≤distance≤4mm	3	19.6	level D0
		4mm<distance≤8mm	1	21.6	level D1
		8mm<distance≤14mm	0	22.6	level D2
		distance>14mm	0	22.6	level D3
	Front side	0≤distance≤5mm	3	19.6	level D0
		5mm<distance≤10mm	1	21.6	level D1
		10mm<distance≤16mm	0	22.6	level D2
		16mm<distance	0	22.6	level D3
	Left side	ALL	0	22.6	level D3
	Right side	ALL	0	22.6	level D3
	Top side	ALL	0	22.6	level D3
LTE B38	Bottom side	0≤distance≤5mm	0.5	22.5	level D0
		5mm<distance≤10mm	0	23	level D1
		10mm<distance≤16mm	0	23	level D2
		16mm<distance	0	23	level D3
	Back side	0≤distance≤4mm	0.5	22.5	level D0
		4mm<distance≤8mm	0	23	level D1

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		8mm<distance≤14mm	0	23	level D2
		distance>14mm	0	23	level D3
	Front side	0≤distance≤5mm	0.5	22.5	level D0
		5mm<distance≤10mm	0	23	level D1
		10mm<distance≤16mm	0	23	level D2
		16mm<distance	0	23	level D3
	Left side	ALL	0	23	level D3
	Right side	ALL	0	23	level D3
	Top side	ALL	0	23	level D3

Note:

1) SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.

2) For body-worn SAR, no additional SAR test with sensor off is required since the sensor triggering distance is < 15mm. Body-worn SAR is tested at the full power level.

3) For hotspot SAR, no additional SAR test with sensor off is required since the power level in hotspot mode with sensor off and sensor on are the same.

For Product Specific 10-g SAR, additional SAR test with sensor off is required at the conservative sensor triggering distance minus 1mm for the required test positions per KDB 616217

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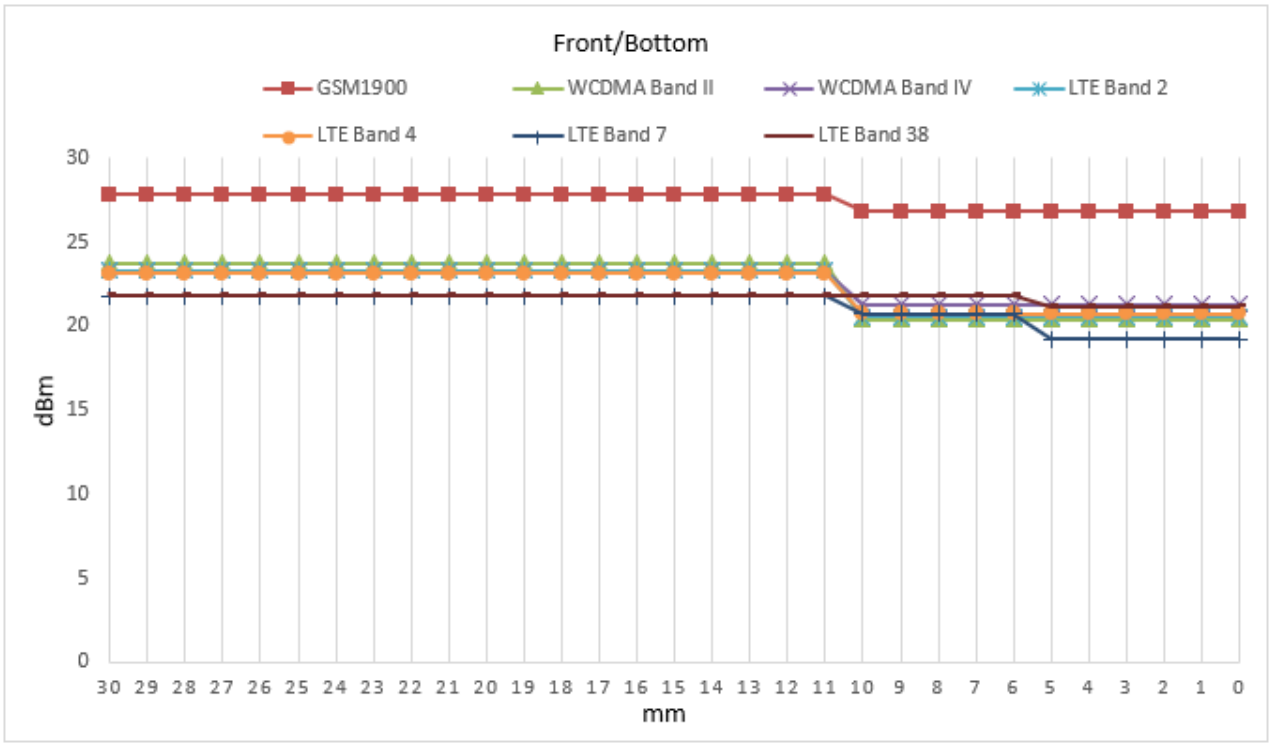
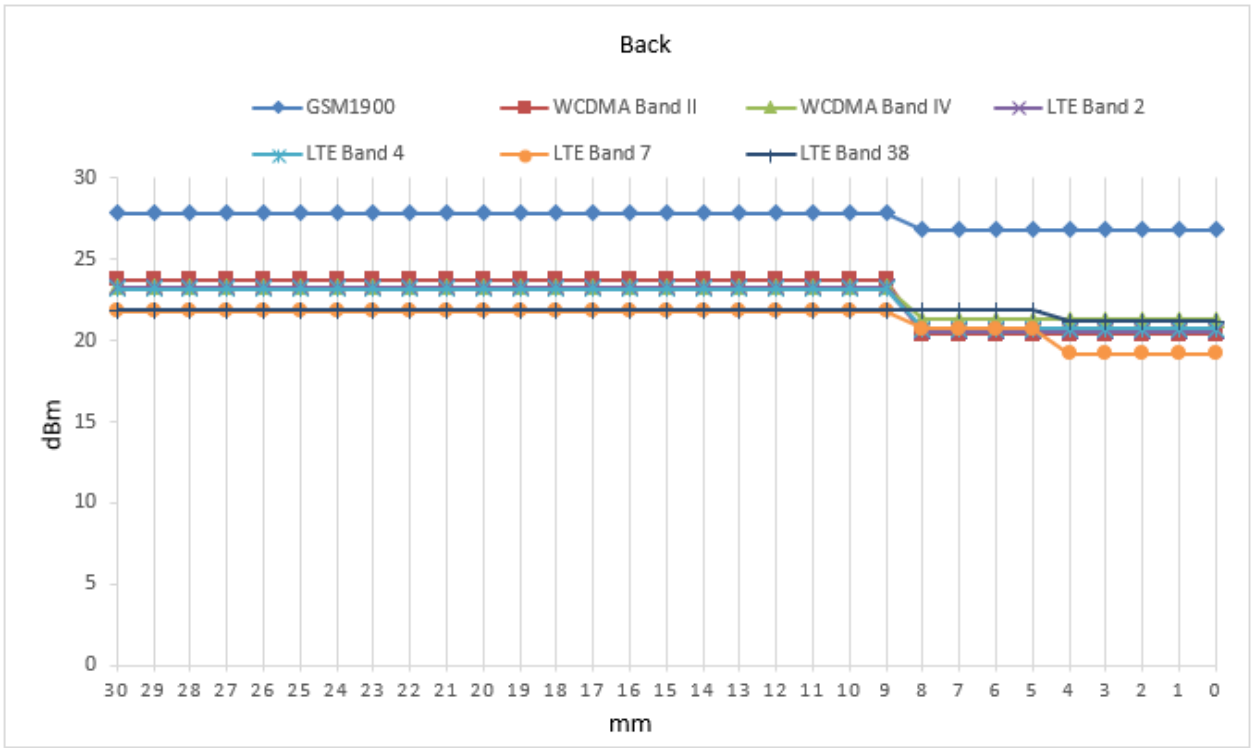
- DUT Moving Toward（Trigger）the Phantom





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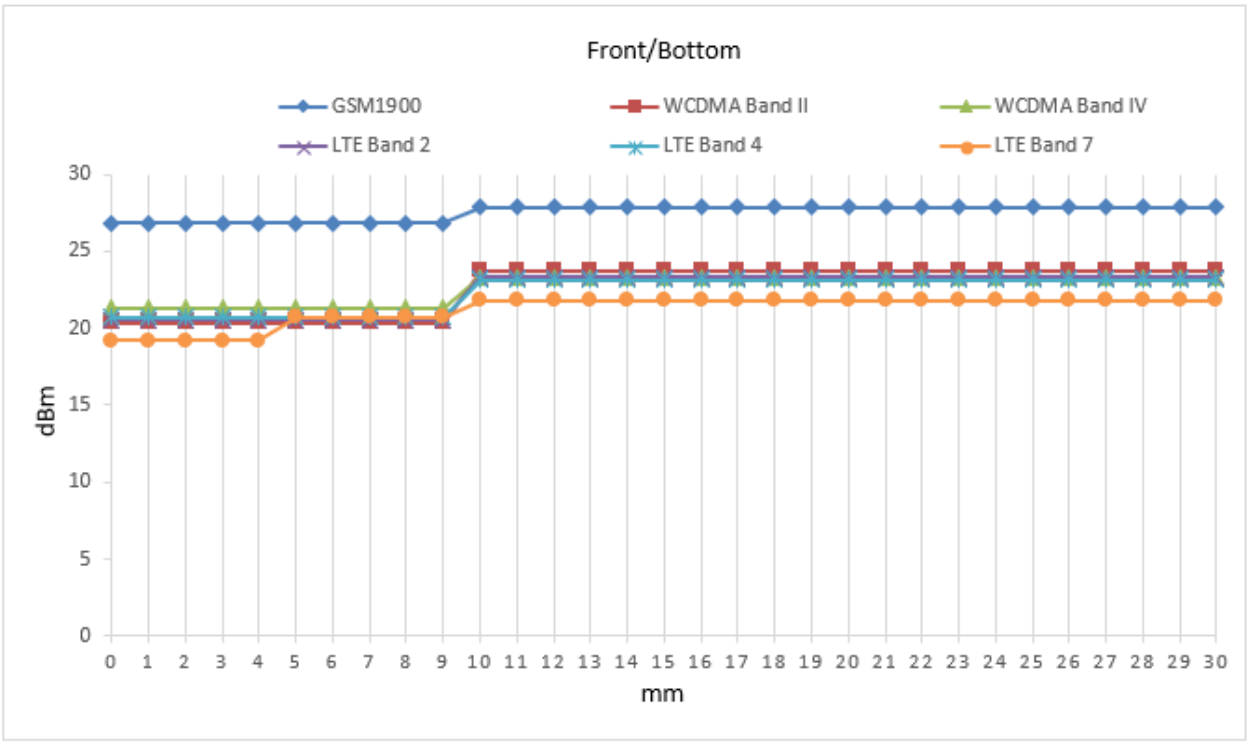
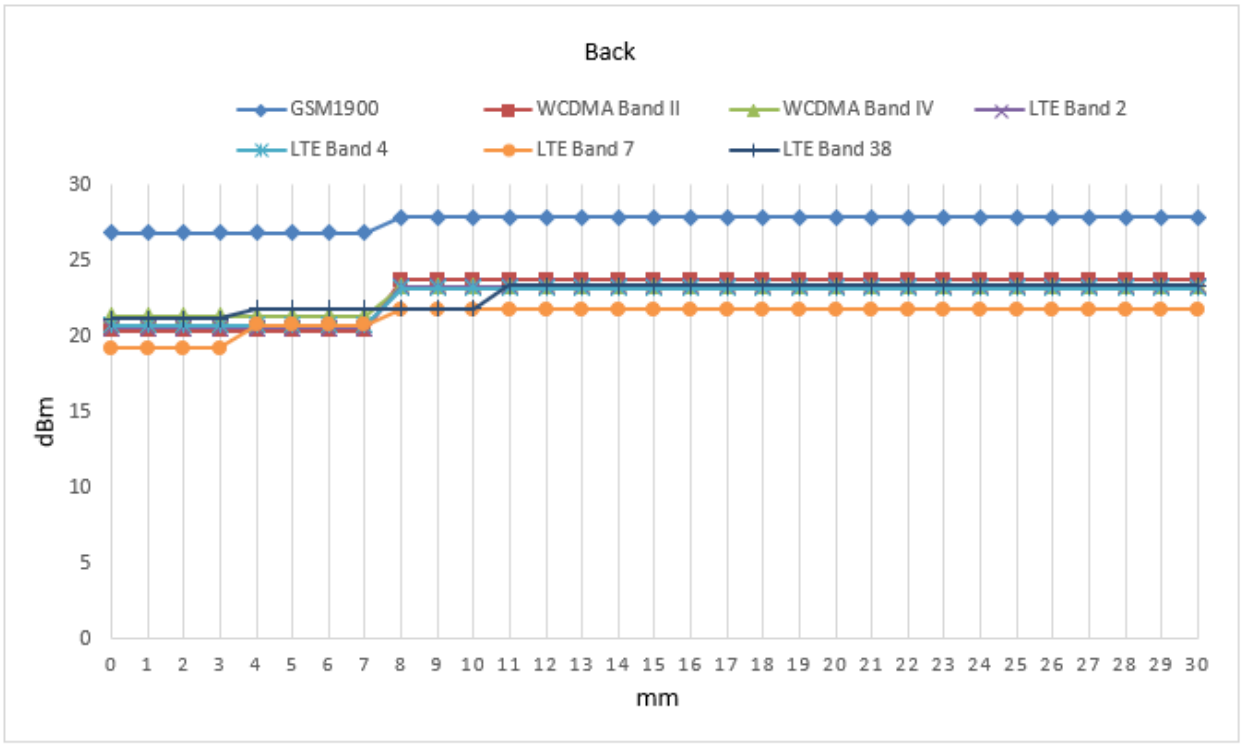
- DUT Moving Away（Release）from the Phantom





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2) Proximity sensor coverage

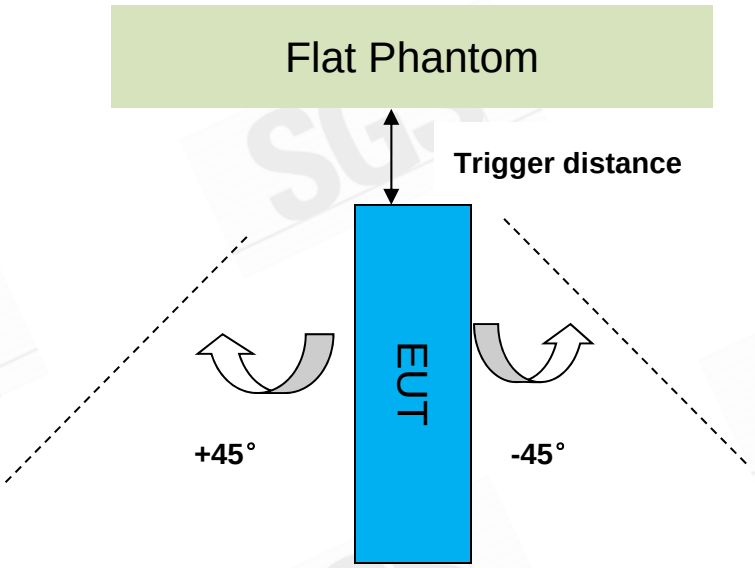
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and “along the direction of maximum antenna and sensor offset”.

The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

3) Device tilt angle influences to proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom.

Rotating the tablet around the edge next to the phantom in ≤ 10° increments until the tablet is ± 45° from the vertical position at 0°, and the maximum output power remains in the reduced mode.



The Sensor Triggering Distance(mm)	
Position	Bottom
Minimum	10
Required SAR Test	9

Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Bottom Side												
Band(MHz)	Minimum trigger distance Per KDB616217 §6.2	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°
WCDMA Band II	10mm	10mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA Band II	10mm	10mm	on	on	on	on	on	on	on	on	on	on	on
WCDMA Band IV	10mm	10mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 2	10mm	10mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 4	10mm	10mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 7	10mm	10mm	on	on	on	on	on	on	on	on	on	on	on

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The Sensor Triggering Distance(mm)	
Position	Bottom
Minimum	5
Required SAR Test	4

Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Bottom Side													
Band(MHz)	Minimum trigger distance Per KDB616217§6.2	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°
LTE Band 7	5mm	4mm	on	on	on	on	on	on	on	on	on	on	on
LTE Band 38	5mm	4mm	on	on	on	on	on	on	on	on	on	on	on

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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands：

Ingredients (% by weight)	Frequency (MHz)							
	450		700-950		1700-2000		2300-2700	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body
Water	38.56	51.16	40.30	50.75	55.24	70.17	55.00	68.53
Salt (NaCl)	3.95	1.49	1.38	0.94	0.31	0.39	0.2	0.1
Sucrose	56.32	46.78	57.90	48.21	0	0	0	0
HEC	0.98	0.52	0.24	0	0	0	0	0
Bactericide	0.19	0.05	0.18	0.10	0	0	0	0
Tween	0	0	0	0	44.45	29.44	44.80	31.37
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate					Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose			
HSL5GHz is composed of the following ingredients： Water：50-65% Mineral oil：10-30% Emulsifiers：8-25% Sodium salt：0-1.5%								
MSL5GHz is composed of the following ingredients： Water：64-78% Mineral oil：11-18% Emulsifiers：9-15% Sodium salt：2-3%								

Table 3： Recipe of Tissue Simulate Liquid

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6.1.2 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the Agilent Model 85070E Dielectric Probe in conjunction with Agilent E5071C Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Tissue Type	Measured Frequency (MHz)	Target Tissue (±5%)		Measured Tissue		Liquid Temp.	Measured Date
		ε_r	σ(S/m)	ε_r	σ(S/m)	(℃)	
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	42.729	0.886	22.1	2018/12/8
750 Body	750	55.5 (52.73~58.28)	0.96 (0.91~1.00)	56.746	0.951	22.1	2018/12/9
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	42.974	0.911	22.1	2018/12/8
835 Body	835	55.2 (52.44~57.96)	0.97 (0.92~1.02)	56.398	0.996	22.1	2018/12/8
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.548	1.333	22.2	2018/12/10
1750 Body	1750	53.4 (50.73~56.07)	1.49 (1.42~1.56)	54.513	1.438	22.2	2018/12/16
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	40.600	1.362	22.3	2018/12/9
1900 Body	1900	53.3 (50.64~55.97)	1.52 (1.44~1.60)	52.651	1.499	22.3	2018/12/17
1900 Body	1900	53.3 (50.64~55.97)	1.52 (1.44~1.60)	52.531	1.483	22.3	2018/12/27
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	40.409	1.797	22.0	2018/12/10
2450 Body	2450	52.70 (50.07~55.34)	1.95 (1.85~2.05)	51.486	1.890	22.0	2018/12/11
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	39.951	1.968	22.1	2018/12/10
2600 Body	2600	52.50 (49.88~55.13)	2.16 (2.05~2.27)	51.122	2.056	22.1	2018/12/14
2600 Body	2600	52.50 (49.88~55.13)	2.16 (2.05~2.27)	52.093	2.158	22.1	2018/12/15
5600 Head	5600	35.5 (33.73~37.28)	5.07 (4.82~5.32)	35.778	5.059	22.2	2018/12/7
5600 Body	5600	48.5 (46.08~50.93)	5.77 (5.48~6.06)	48.938	5.720	22.2	2018/12/7
5750 Body	5750	48.3 (45.89~50.72)	5.94 (5.64~6.24)	48.371	5.91	22.2	2018/12/7

Table 4： Measurement result of Tissue electric parameters

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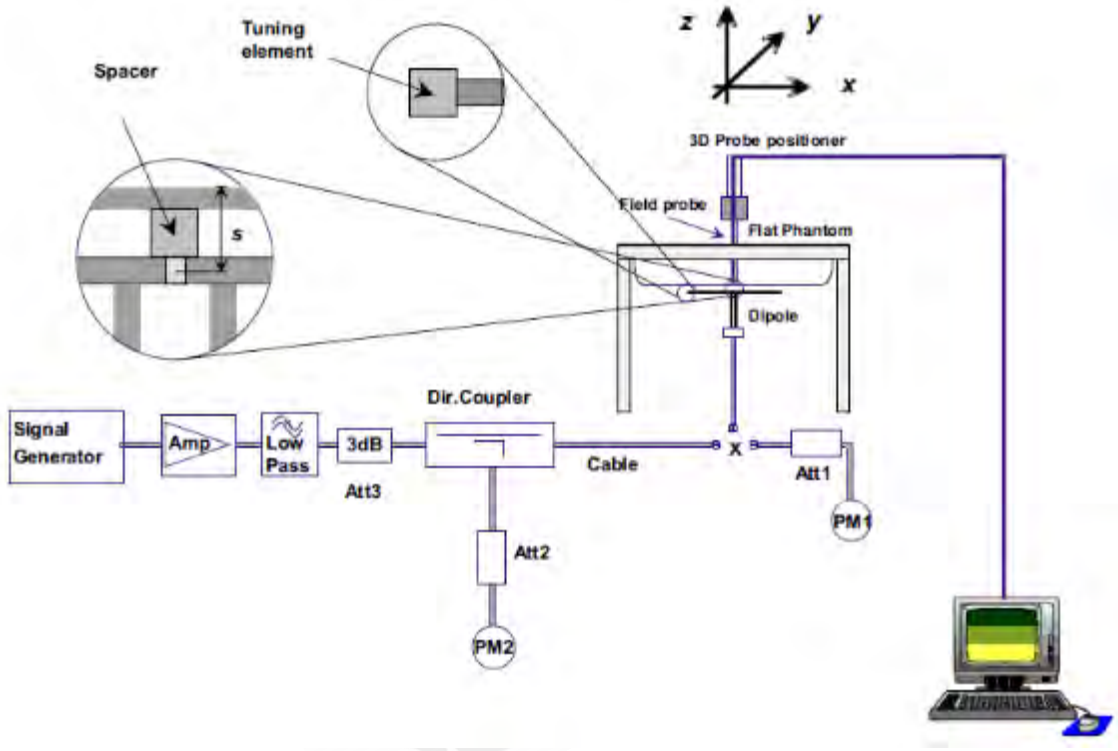
6.2 SAR System Check

The microwave circuit arrangement for system check is sketched in below figure. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table(A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12. the microwave circuit arrangement used for SAR system check

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6.2.1 Justification for Extended SAR Dipole Calibrations

1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. 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) Return-loss is within 10% of calibrated measurement;
d) Impedance 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.

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6.2.2 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W) (±10%)	Target SAR (normalized to 1W) (±10%)	Liquid Temp. (℃)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D750V3	Head	1.97	1.30	7.88	5.20	8.17 (7.35~8.99)	5.36 (4.82~5.9)	22.1	2018/12/8
	Body	2.10	1.40	8.40	5.60	8.57 (7.71~9.43)	5.66 (5.09~6.23)	22.1	2018/12/9
D835V2	Head	2.49	1.63	9.96	6.52	9.59 (8.63~10.55)	6.29 (5.66~6.92)	22.1	2018/12/8
	Body	2.50	1.65	10.00	6.60	9.65 (8.69~10.62)	6.46 (5.81~7.11)	22.1	2018/12/8
D1750V2	Head	8.86	4.75	35.44	19.00	36.7 (33.03~40.37)	19.5 (17.55~21.45)	22.3	2018/12/10
	Body	9.15	4.87	36.60	19.48	37 (33.30~40.70)	19.7 (17.73~21.67)	22.3	2018/12/16
D1900V2	Head	10.10	5.22	40.40	20.88	40.7 (36.63~44.77)	21.1 (18.99~23.21)	22.3	2018/12/9
	Body	10.20	5.39	40.80	21.56	41.6 (37.44~45.76)	21.4 (19.26~23.54)	22.3	2018/12/17
	Body	11.10	5.61	44.40	22.44	41.6 (37.44~45.76)	21.4 (19.26~23.54)	22.3	2018/12/27
D2450V2	Head	13.10	6.07	52.40	24.28	53.1 (47.79~58.41)	24.9 (22.41~27.39)	22.0	2018/12/10
	Body	12.10	5.69	48.40	22.76	51.0 (45.9~56.1)	23.5 (21.15~25.85)	22.0	2018/12/11
D2600V2	Head	14.00	6.16	56.00	24.64	56.6 (50.94~62.26)	25.4 (22.86~27.94)	22.3	2018/12/10
	Body	12.70	5.73	50.80	22.92	54.2 (48.78~59.62)	24.3 (21.87~26.73)	22.3	2018/12/14
	Body	13.30	6.01	53.20	24.04	54.2 (48.78~59.62)	24.3 (21.87~26.73)	22.3	2018/12/15
Validation Kit		**Measured SAR 100mW**	**Measured SAR 100mW**	**Measured SAR (normalized to 1W)**	**Measured SAR (normalized to 1W)**	**Target SAR (normalized to 1W) (±10%)**	**Target SAR (normalized to 1W) (±10%)**	**Liquid Temp. (℃)**	**Measured Date**
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D5GHzV2	Head (5.6GHz)	7.77	2.19	77.70	21.90	80.4 (72.36~88.44)	22.8 (20.52~25.08)	22.2	2018/12/7
	Body (5.6GHz)	8.99	2.48	89.90	24.80	81.1 (72.99~89.21)	22.9 (20.61~25.19)	22.2	2018/12/7
	Body (5.75GHz)	6.76	1.84	67.60	18.40	74.8 (67.32~82.28)	21 (18.9~23.1)	22.2	2018/12/7

Table 5： SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A

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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, 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 ≤ ¼ 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.

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using CMW500 the power lever is set to “5”and “0” in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 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.

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.

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 8-PSK.

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode

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7.2.2 WCDMA 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）. Head SAR

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. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure

3）. Body SAR

SAR for body 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. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreaing code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4）. HSDPA / HSUPA / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ 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 conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors(βc, βd), and HS-DPCCH power offset parameters (ΔACK, ΔNACK, ΔCQI) are set according to values indicated in the following table The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

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Sub-test	βc	Bd	βd(SF)	βc/βd	βhs	CM(dB)	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

Note1: ΔACK, ΔNACK and ΔCQI= 8 Ahs = βhs/βc=30/15 βhs=30/15*βc
Note2:For the HS-DPCCH power mask requirement test in clause 5.2C,5.7A,and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A,and HSDPA EVM with phase discontinuity in clause 5.13.1AA, ΔACK and ΔNACK= 8 (Ahs=30/15) with βhs=30/15*βc,and ΔCQI=
7 (Ahs=24/15) with βhs=24/15*βc.
Note3: CM=1 forβc/βd =12/15, βhs/βc=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.

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

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HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter-TTI Interval	MaximumH S-DSCH Transport BlockBits/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

Table 7： HSDPA UE category

b) HSUPA

Due to inner loop power control requirements in HSUPA, 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 HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the „WCDMA Handset“ and „Release 5 HSUPA Data Device“ sections of 3G device.

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Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs}(1)	β_{ec}	β_{ed}	β_{ec} (SF)	β_{ed} (code)	CM(2) (dB)	MPR (dB)	AG(4) Index	E-TFCI
1	11/15(3)	15/15(3)	64	11/15(3)	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1}:47/15 β_{ed2}:47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15(4)	15/15(4)	64	15/15(4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

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 $\beta_d = 15/15$.

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 $\beta_d = 15/15$.

Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Table 8： Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading 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&2SF4	11484	5.76
	4	4	2		20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF4	22996	?
	4	4	10		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 9： HSUPA UE category

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c) 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/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH _Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	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 10：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.

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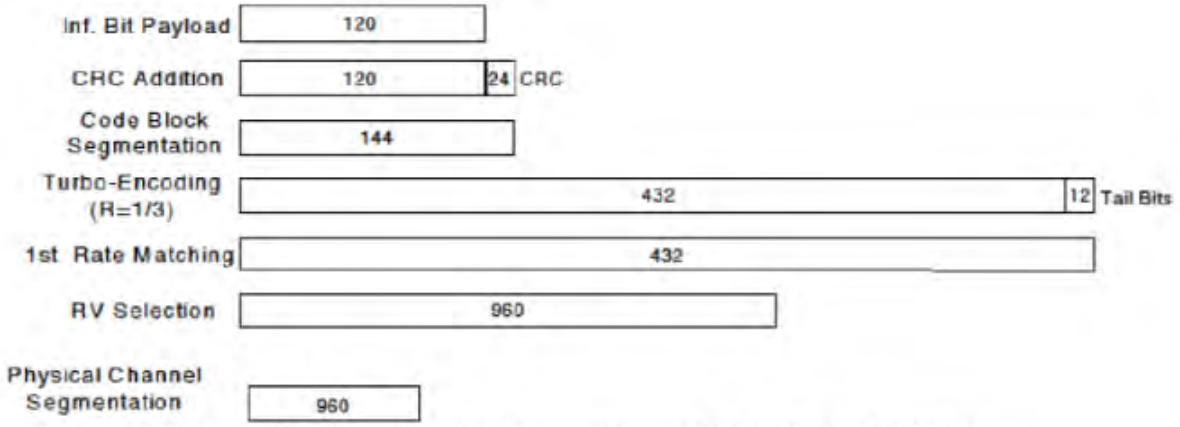

Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{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: 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.

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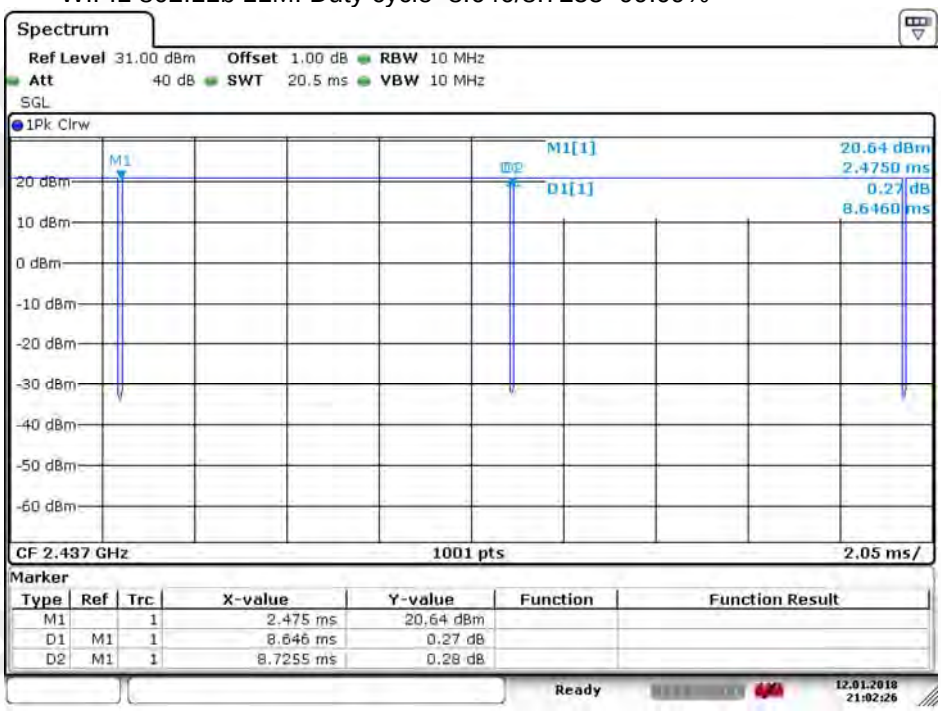
7.2.3 WiFi Test Configuration

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.3.1 Duty cycle

1) 2.4GHz Wi-Fi 802.11b:
WIFI1 802.11b 11M: Duty cycle=8.646/8.7255=99.09%



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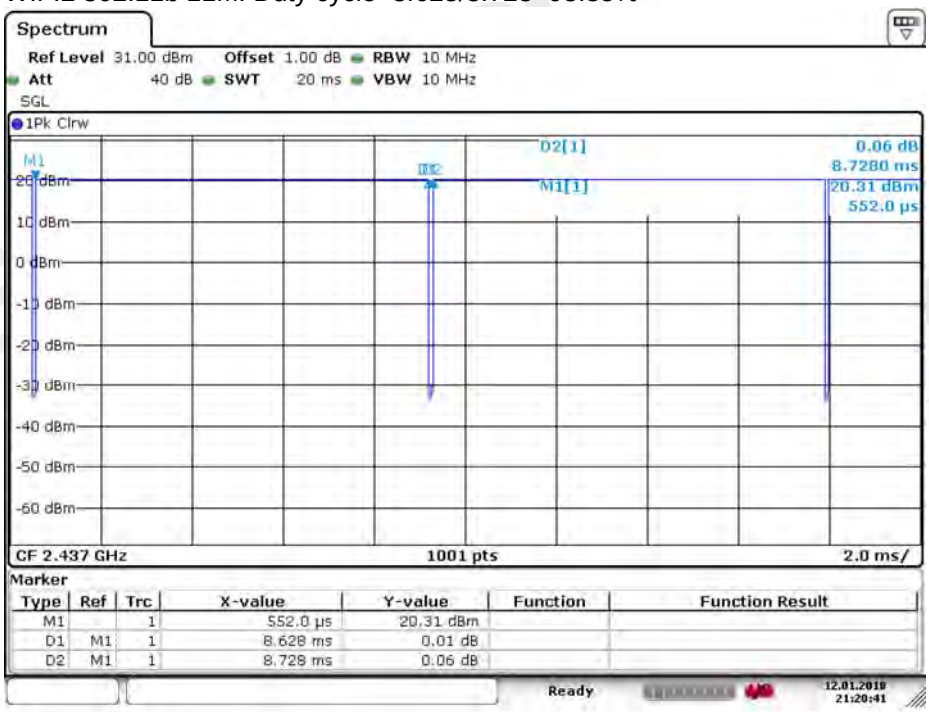
WIFI2 802.11b 11M: Duty cycle=8.628/8.728=98.85%



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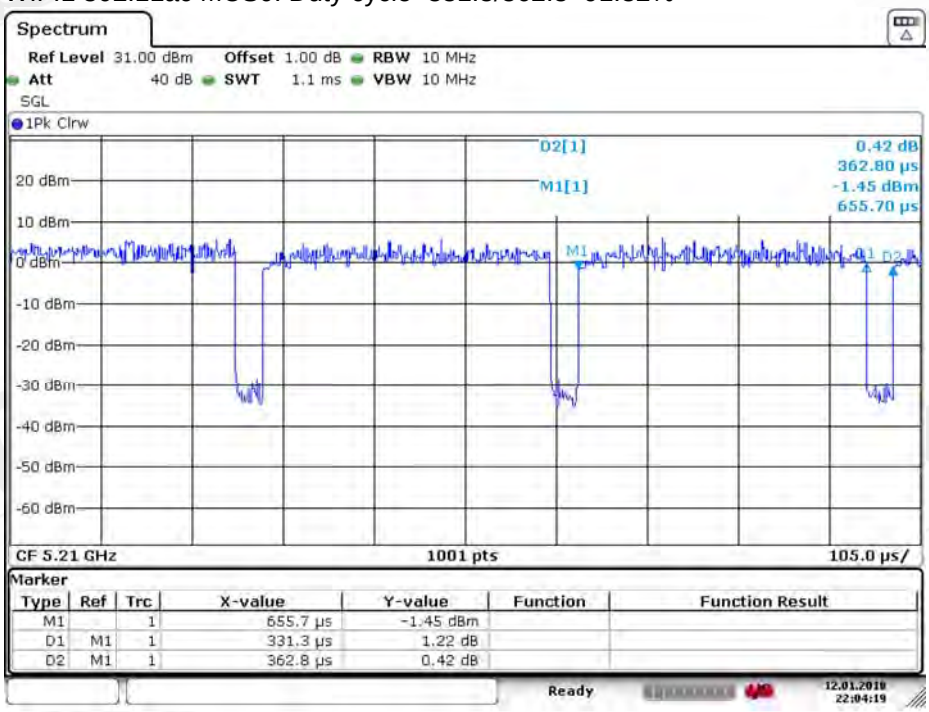
2) 5GHz Wi-Fi 802.11a:
WIFI1 802.11ac MCS0: Duty cycle=331.3/362.8=91.32%



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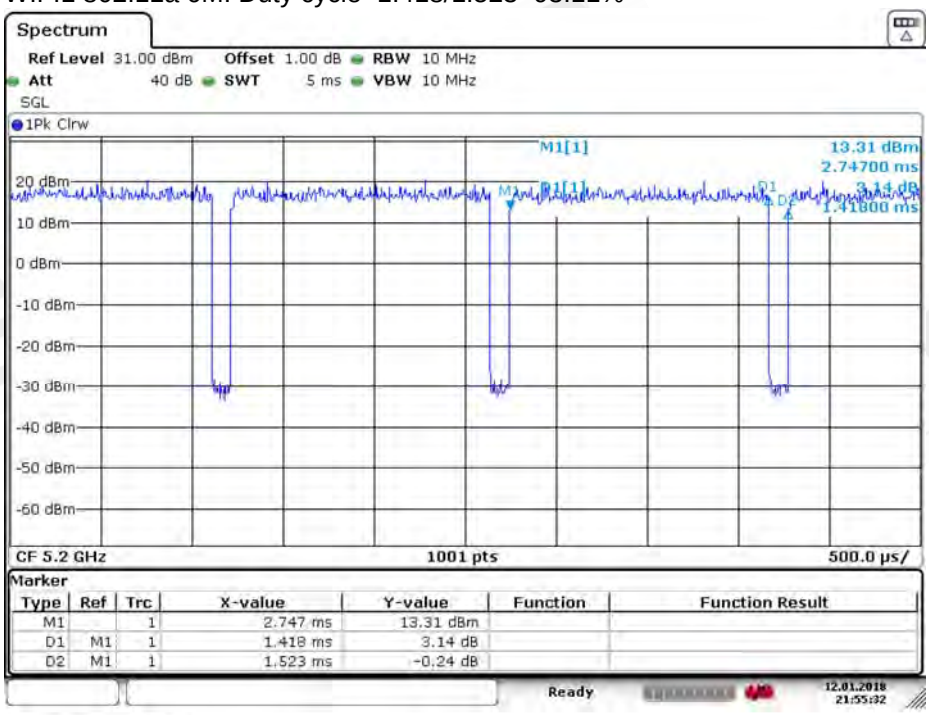
WIFI1 802.11a 6M: Duty cycle=1.418/1.523=93.11%



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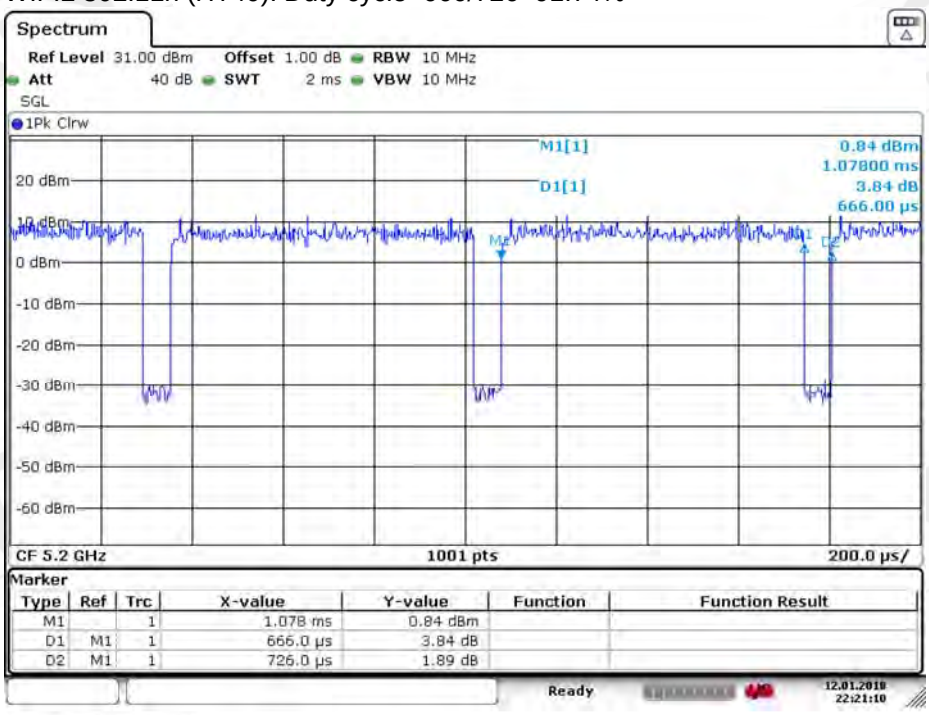
WIFI2 802.11n (HT40): Duty cycle=666/726=91.74%



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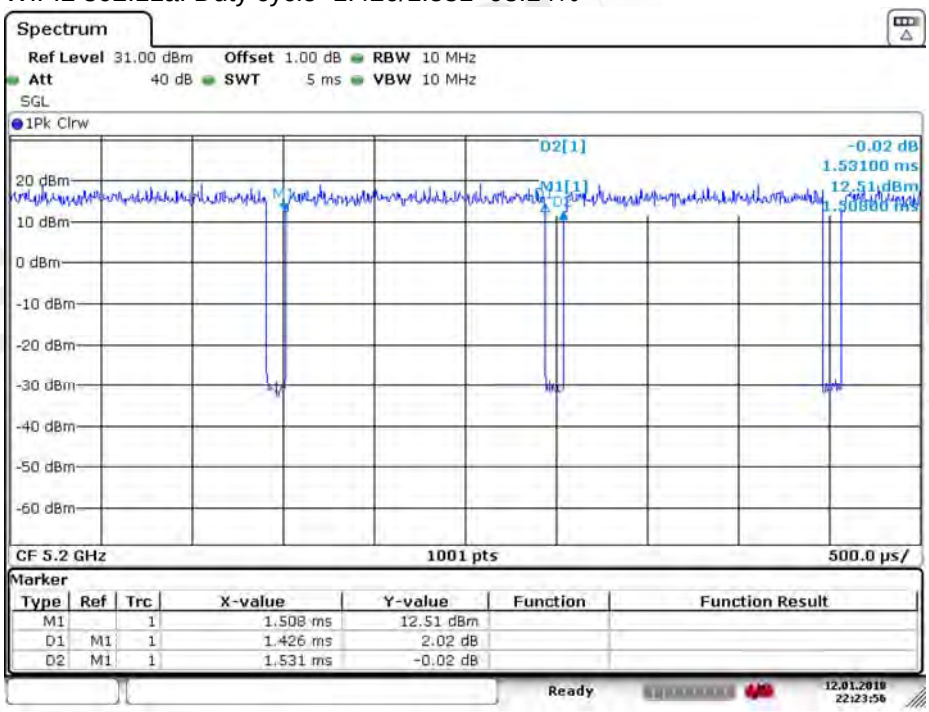
WIFI2 802.11a: Duty cycle=1.426/1.531=93.14%



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7.2.3.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

1）. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
2）. When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
3）. For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 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 ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

7.2.3.3 Initial Test Configuration Procedures

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. SAR test reduction for subsequent highest output test channels is determined according to *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 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

7.2.3.4 Subsequent Test Configuration Procedures

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. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

1）. When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.

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2）. When the highest *reported* SAR for the initial test configuration (when applicable, include subsequent highest output channels), 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 ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

3）. The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.

a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.

b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the *reported* SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.

4）. SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:

a) replace “subsequent test configuration” with “next subsequent test configuration” (i.e., subsequent next highest specified maximum output power configuration)

b) replace “initial test configuration” with “all tested higher output power configurations”

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7.2.3.5 2.4 GHz WiFi SAR 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. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

- **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 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.

- **2.4 GHz 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, including sub-sections). 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.

- **SAR Test Requirements for OFDM configurations**

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. 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.

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7.2.3.6 5 GHz WiFi SAR Procedures

- **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.

- **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, 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. 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.

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- **OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements**

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
   a) The channel closest to mid-band frequency is selected for SAR measurement.
   b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

- **SAR Test Requirements for OFDM configurations**

When SAR measurement is required for 802.11 a/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.

7.2.3.7 WiFi CDD/MIMO SAR Considerations

Per KDB 248227D01v02r01, 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 <1.6W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

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7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

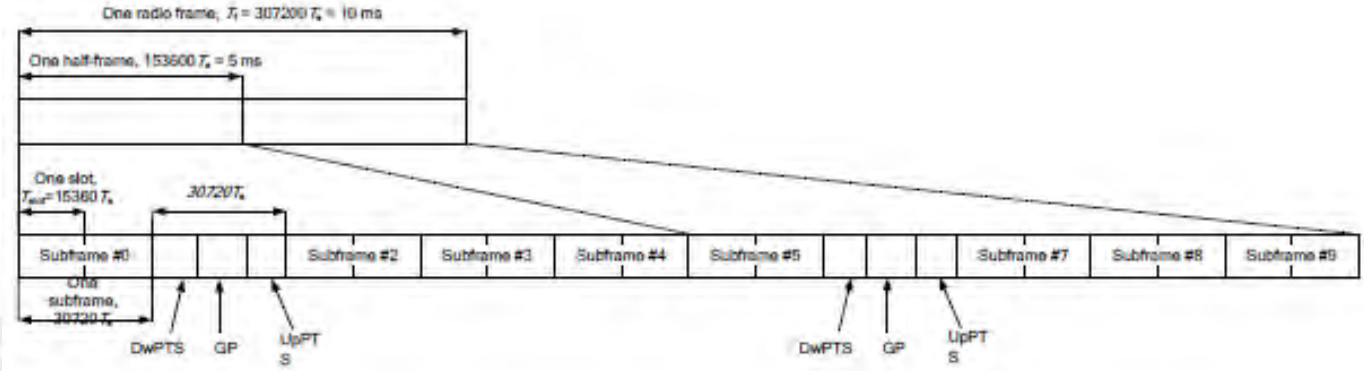
TDD LTE test consideration

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.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band support 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.

Frame structure type 2:



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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.Ts	2192.Ts	2560.Ts	7680.Ts	2192.Ts	2560.Ts
1	19760.Ts			20480.Ts		
2	21952.Ts			23040.Ts		
3	24144.Ts			25600.Ts		
4	26336.Ts			7680.Ts	4384.Ts	5120.Ts
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts		
6	19760.Ts			23040.Ts		
7	21952.Ts			25600.Ts		
8	24144.Ts			-	-	-
9	13168.Ts			-	-	-

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

Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U]/10ms

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

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A) Spectrum Plots for RB Configurations
A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

B) MPR
MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 V13.5.0 (2016-09) Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

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

D) Largest channel bandwidth standalone SAR test requirements
1) 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.

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

3) 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 1) and 2) 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.

4) 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 > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) 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 > ½ 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.

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8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power of Main Antenna

8.1.1.1 Conducted Power of GSM

GSM 850 Full Power										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	**32.59**	**32.75**	**32.81**	33.60	-9.19	23.40	23.56	23.62	24.41
GPRS/ EGPRS (GMSK)	1 TX Slot	32.62	32.71	32.83	33.60	-9.19	23.43	23.52	23.64	24.41
	2 TX Slots	**30.42**	**30.59**	**30.57**	**32.00**	**-6.18**	**24.24**	**24.41**	**24.39**	**25.82**
	3 TX Slots	28.13	28.21	28.24	30.00	-4.42	23.71	23.79	23.82	25.58
	4 TX Slots	26.12	26.16	26.19	27.60	-3.17	22.95	22.99	23.02	24.43
EGPRS (8PSK)	1 TX Slot	27.22	27.33	27.34	28.00	-9.19	18.03	18.14	18.15	18.81
	2 TX Slots	24.71	24.77	24.73	26.00	-6.18	18.53	18.59	18.55	19.82
	3 TX Slots	22.69	22.71	22.81	24.00	-4.42	18.27	18.29	18.39	19.58
	4 TX Slots	20.51	20.59	20.73	21.50	-3.17	17.34	17.42	17.56	18.33
GSM 1900 Full Power										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	**30.24**	**30.25**	**30.33**	31.00	-9.19	21.05	21.06	21.14	21.81
GPRS/ EGPRS (GMSK)	1 TX Slot	30.29	30.21	30.35	31.00	-9.19	21.10	21.02	21.16	21.81
	2 TX Slots	**27.81**	**27.83**	**27.79**	**29.00**	**-6.18**	**21.63**	**21.65**	**21.61**	**22.82**
	3 TX Slots	25.65	25.54	25.49	27.00	-4.42	21.23	21.12	21.07	22.58
	4 TX Slots	23.55	23.41	23.48	24.50	-3.17	20.38	20.24	20.31	21.33
EGPRS (8PSK)	1 TX Slot	26.45	26.44	26.42	27.00	-9.19	17.26	17.25	17.23	17.81
	2 TX Slots	23.72	23.63	23.51	25.00	-6.18	17.54	17.45	17.33	18.82
	3 TX Slots	21.34	21.33	21.63	23.00	-4.42	16.92	16.91	17.21	18.58
	4 TX Slots	19.32	19.14	19.07	20.50	-3.17	16.15	15.97	15.90	17.33
GSM 1900 Hotspot on (SAR sensor off)										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	26.94	26.91	26.82	28.00	-9.19	17.75	17.72	17.63	18.81
GPRS/ EGPRS (GMSK)	1 TX Slot	26.93	26.90	26.81	28.00	-9.19	17.74	17.71	17.62	18.81
	2 TX Slots	**24.70**	**24.60**	**24.60**	**26.00**	**-6.18**	**18.52**	**18.42**	**18.42**	**19.82**
	3 TX Slots	22.60	22.50	22.50	24.00	-4.42	18.18	18.08	18.08	19.58
	4 TX Slots	20.50	20.40	20.30	21.50	-3.17	17.33	17.23	17.13	18.33
EGPRS (8PSK)	1 TX Slot	22.71	22.62	22.63	24.00	-9.19	13.52	13.43	13.44	14.81
	2 TX Slots	20.59	20.45	20.47	22.00	-6.18	14.41	14.27	14.29	15.82
	3 TX Slots	18.26	18.12	18.17	20.00	-4.42	13.84	13.70	13.75	15.58
	4 TX Slots	15.34	15.43	15.35	17.50	-3.17	12.17	12.26	12.18	14.33

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GSM 1900 Body Scene (SAR sensor on Level D0&D1)										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	29.33	29.17	29.28	30.00	-9.19	20.14	19.98	20.09	20.81
GPRS/ EGPRS (GMSK)	1 TX Slot	29.42	29.21	29.32	30.00	-9.19	20.23	20.02	20.13	20.81
	2 TX Slots	**26.89**	**26.81**	**26.83**	**28.00**	**-6.18**	**20.71**	**20.63**	**20.65**	**21.82**
	3 TX Slots	24.65	24.53	24.55	26.00	-4.42	20.23	20.11	20.13	21.58
	4 TX Slots	22.07	21.91	21.85	23.50	-3.17	18.90	18.74	18.68	20.33
EGPRS (8PSK)	1 TX Slot	25.12	25.04	25.03	26.00	-9.19	15.93	15.85	15.84	16.81
	2 TX Slots	22.48	22.38	22.39	24.00	-6.18	16.30	16.20	16.21	17.82
	3 TX Slots	20.16	20.02	20.04	22.00	-4.42	15.74	15.60	15.62	17.58
	4 TX Slots	17.32	17.28	17.26	19.50	-3.17	14.15	14.11	14.09	16.33
GSM 1900 Hotspot on + SAR sensor on Level D0&D1										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	26.09	26.05	26.10	27.00	-9.19	16.90	16.86	16.91	17.81
GPRS/ EGPRS (GMSK)	1 TX Slot	26.12	26.07	26.08	27.00	-9.19	16.93	16.88	16.89	17.81
	2 TX Slots	23.93	23.79	23.83	25.00	-6.18	17.75	17.61	17.65	18.82
	3 TX Slots	21.76	21.63	21.61	23.00	-4.42	17.34	17.21	17.19	18.58
	4 TX Slots	19.46	19.27	19.24	20.50	-3.17	16.29	16.10	16.07	17.33
EGPRS (8PSK)	1 TX Slot	21.84	21.73	21.68	23.00	-9.19	12.65	12.54	12.49	13.81
	2 TX Slots	19.59	19.45	19.47	21.00	-6.18	13.41	13.27	13.29	14.82
	3 TX Slots	17.32	17.26	17.34	19.00	-4.42	12.90	12.84	12.92	14.58
	4 TX Slots	14.52	14.34	14.42	16.50	-3.17	11.35	11.17	11.25	13.33

Table 11：Conducted Power of GSM

Note:

1）. CMU200 measures GSM 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:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

2）. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8

3）. When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used

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8.1.1.2 Conducted Power of WCDMA

WCDMA Band II Full Power					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	**23.77**	**23.74**	**23.73**	24.50
	12.2kbps AMR	23.74	23.69	23.69	24.50
HSDPA	Subtest 1	23.22	23.18	23.15	24.00
	Subtest 2	22.69	22.66	22.63	23.50
	Subtest 3	21.68	21.62	21.58	22.50
	Subtest 4	21.67	21.63	21.63	22.50
HSUPA	Subtest 1	22.19	22.14	22.10	23.00
	Subtest 2	19.78	19.73	19.66	20.50
	Subtest 3	20.24	20.22	20.14	21.00
	Subtest 4	19.44	19.37	19.31	20.00
	Subtest 5	22.28	22.30	22.29	23.00
DC-HSDPA	Subtest 1	23.24	23.24	23.26	24.00
	Subtest 2	22.72	22.74	22.73	23.50
	Subtest 3	21.71	21.74	21.72	22.50
	Subtest 4	21.74	21.74	21.76	22.50
WCDMA Band II Hotspot on+sensor off					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	**18.76**	**18.74**	**18.65**	19.50
	12.2kbps AMR	18.70	18.69	18.59	19.50
HSDPA	Subtest 1	18.19	18.19	18.06	19.00
	Subtest 2	17.67	17.66	17.53	18.50
	Subtest 3	16.62	16.65	16.50	17.50
	Subtest 4	16.64	16.65	16.49	17.50
HSUPA	Subtest 1	17.16	17.17	17.01	18.00
	Subtest 2	14.73	14.73	14.55	15.50
	Subtest 3	15.18	15.25	15.04	16.00
	Subtest 4	14.31	14.44	14.20	15.00
	Subtest 5	17.29	17.33	17.17	18.00
DC-HSDPA	Subtest 1	18.22	18.19	18.10	19.00
	Subtest 2	17.71	17.67	17.60	18.50
	Subtest 3	16.73	16.66	16.61	17.50
	Subtest 4	16.74	16.69	16.65	17.50
WCDMA Band II Hotspot on+sensor on					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	18.21	18.25	18.17	19.00
	12.2kbps AMR	18.16	18.20	18.14	19.00
HSDPA	Subtest 1	17.63	17.68	17.59	18.50
	Subtest 2	17.13	17.17	17.08	18.00
	Subtest 3	16.09	16.13	16.08	17.00
	Subtest 4	16.09	16.16	16.05	17.00
HSUPA	Subtest 1	16.59	16.64	16.58	17.50

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	Subtest 2	14.10	14.16	14.16	15.00
	Subtest 3	14.64	14.73	14.63	15.50
	Subtest 4	13.81	13.87	13.78	14.50
	Subtest 5	16.72	16.81	16.75	17.50
DC-HSDPA	Subtest 1	17.67	17.71	17.64	18.50
	Subtest 2	17.18	17.20	17.12	18.00
	Subtest 3	16.14	16.16	16.08	17.00
	Subtest 4	16.20	16.24	16.12	17.00
WCDMA Band II Body Scene (0mm) (SAR sensor on Level D0&D1)					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	**20.30**	**20.37**	**20.40**	21.50
	12.2kbps AMR	20.48	20.45	20.39	21.50
HSDPA	Subtest 1	19.71	19.69	19.68	21.00
	Subtest 2	19.13	19.06	19.09	20.50
	Subtest 3	18.35	18.38	18.38	19.50
	Subtest 4	18.38	18.41	18.44	19.50
HSUPA	Subtest 1	19.17	19.18	19.34	20.00
	Subtest 2	16.41	16.04	16.21	17.50
	Subtest 3	16.76	16.87	16.89	18.00
	Subtest 4	16.08	16.14	16.17	17.00
	Subtest 5	19.05	19.11	19.21	20.00
DC-HSDPA	Subtest 1	19.70	19.60	19.62	21.00
	Subtest 2	19.11	19.01	19.04	20.50
	Subtest 3	18.33	18.32	18.34	19.50
	Subtest 4	18.32	18.35	18.41	19.50
WCDMA Band II SAR sensor on Level D0&D1 +Wifi Hotspot on					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	15.34	15.39	15.43	16.50
	12.2kbps AMR	15.54	15.48	15.46	16.50
HSDPA	Subtest 1	14.69	14.70	14.72	16.00
	Subtest 2	14.05	14.03	14.07	15.50
	Subtest 3	13.34	13.30	13.30	14.50
	Subtest 4	13.36	13.34	13.37	14.50
HSUPA	Subtest 1	14.16	14.13	14.22	15.00
	Subtest 2	11.02	10.99	11.06	12.50
	Subtest 3	11.88	11.89	11.91	13.00
	Subtest 4	11.11	10.99	11.03	12.00
	Subtest 5	14.19	14.28	14.21	15.00
DC-HSDPA	Subtest 1	14.58	14.67	14.66	16.00
	Subtest 2	14.00	13.95	14.01	15.50
	Subtest 3	13.31	13.23	13.26	14.50
	Subtest 4	13.32	13.28	13.31	14.50

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WCDMA Band IV Full Power					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	**23.29**	**23.31**	**23.36**	24.00
	12.2kbps AMR	23.24	23.28	23.32	24.00
HSDPA	Subtest 1	22.73	22.73	22.78	23.50
	Subtest 2	22.19	22.23	22.26	23.00
	Subtest 3	21.67	21.69	21.73	22.50
	Subtest 4	21.66	21.70	21.75	22.50
HSUPA	Subtest 1	21.23	21.23	21.25	22.00
	Subtest 2	18.77	18.81	18.76	20.00
	Subtest 3	19.32	19.28	19.29	20.50
	Subtest 4	18.48	18.45	18.40	19.50
	Subtest 5	21.40	21.46	21.50	22.00
DC-HSDPA	Subtest 1	22.76	22.77	22.82	23.50
	Subtest 2	22.27	22.28	22.35	23.00
	Subtest 3	21.70	21.77	21.79	22.50
	Subtest 4	21.74	21.79	21.86	22.50
WCDMA Band IV Hotspot on+sensor off					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	**18.16**	**18.18**	**18.35**	19.00
	12.2kbps AMR	18.14	18.14	18.30	19.00
HSDPA	Subtest 1	17.63	17.59	17.76	18.50
	Subtest 2	17.09	17.06	17.26	18.00
	Subtest 3	16.56	16.54	16.73	17.50
	Subtest 4	16.59	16.56	16.72	17.50
HSUPA	Subtest 1	16.08	16.06	16.21	17.00
	Subtest 2	13.64	13.64	13.78	15.00
	Subtest 3	14.16	14.09	14.28	15.50
	Subtest 4	13.35	13.20	13.41	14.50
	Subtest 5	16.35	16.35	16.52	17.00
DC-HSDPA	Subtest 1	17.62	17.66	17.85	18.50
	Subtest 2	17.08	17.12	17.33	18.00
	Subtest 3	16.59	16.58	16.81	17.50
	Subtest 4	16.65	16.67	16.80	17.50
WCDMA Band IV Hotspot on+sensor on					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	16.28	16.27	16.14	17.00
	12.2kbps AMR	16.25	16.24	16.10	17.00
HSDPA	Subtest 1	15.74	15.73	15.56	16.50
	Subtest 2	15.23	15.20	15.03	16.00
	Subtest 3	14.69	14.66	14.50	15.50
	Subtest 4	14.71	14.67	14.51	15.50
HSUPA	Subtest 1	14.21	14.18	14.03	15.00

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	Subtest 2	11.77	11.75	11.54	13.00
	Subtest 3	12.28	12.24	12.10	13.50
	Subtest 4	11.38	11.41	11.24	12.50
	Subtest 5	14.42	14.43	14.31	15.00
DC-HSDPA	Subtest 1	15.75	15.75	15.60	16.50
	Subtest 2	15.27	15.23	15.09	16.00
	Subtest 3	14.74	14.76	14.62	15.50
	Subtest 4	14.77	14.75	14.62	15.50
WCDMA Band IV Body Scene (SAR sensor on Level D0&D1)					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	**21.26**	**21.31**	**21.15**	22.00
	12.2kbps AMR	21.18	21.17	21.09	22.00
HSDPA	Subtest 1	20.83	20.38	20.47	21.50
	Subtest 2	19.55	19.46	19.63	21.00
	Subtest 3	19.10	18.95	19.14	20.50
	Subtest 4	19.09	19.00	19.12	20.50
HSUPA	Subtest 1	18.98	18.87	18.85	20.00
	Subtest 2	16.83	16.71	16.45	18.00
	Subtest 3	16.98	16.94	16.88	18.50
	Subtest 4	15.97	15.86	15.89	17.50
	Subtest 5	19.23	19.36	19.28	20.00
DC-HSDPA	Subtest 1	20.77	20.31	20.43	21.50
	Subtest 2	19.52	19.41	19.62	21.00
	Subtest 3	19.05	18.91	19.10	20.50
	Subtest 4	19.07	18.97	19.05	20.50

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WCDMA Band V Full Power					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	**23.61**	**23.66**	**23.72**	24.50
	12.2kbps AMR	23.55	23.61	23.66	24.50
HSDPA	Subtest 1	23.48	23.60	23.63	24.50
	Subtest 2	23.08	23.19	23.21	24.00
	Subtest 3	22.68	22.70	22.77	23.50
	Subtest 4	22.60	22.70	22.75	23.50
HSUPA	Subtest 1	23.02	23.10	23.17	24.00
	Subtest 2	20.61	20.69	20.72	21.50
	Subtest 3	21.66	21.67	21.82	22.50
	Subtest 4	20.79	20.82	20.84	21.50
	Subtest 5	22.29	22.31	22.41	23.00
DC-HSDPA	Subtest 1	23.46	23.53	23.58	24.50
	Subtest 2	23.21	23.25	23.28	24.00
	Subtest 3	22.64	22.70	22.73	23.50
	Subtest 4	22.70	22.74	22.81	23.50

Table 12：Conducted Power of WCDMA

Note:

1) when the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.

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8.1.1.3 Conducted Power Of LTE

LTE Band 2 Full Power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	23.41	23.30	23.49	24.00
		1	2	23.01	23.16	23.11	24.00
		1	5	23.20	23.21	23.23	24.00
		3	0	23.37	23.24	23.45	24.00
		3	2	22.95	23.12	23.08	24.00
		3	3	23.16	23.19	23.18	24.00
		6	0	22.21	22.21	22.17	23.00
	16QAM	1	0	22.58	22.64	22.61	23.00
		1	2	22.25	22.43	22.21	23.00
		1	5	22.44	22.56	22.46	23.00
		3	0	22.54	22.59	22.57	23.00
		3	2	22.23	22.40	22.16	23.00
		3	3	22.42	22.54	22.41	23.00
		6	0	21.14	21.16	21.14	22.00
	64QAM	1	0	21.41	21.33	21.59	22.00
		1	2	21.04	21.18	21.14	22.00
		1	5	21.23	21.24	21.29	22.00
		3	0	21.42	21.29	21.55	22.00
		3	2	21.04	21.17	21.10	22.00
		3	3	21.17	21.28	21.24	22.00
		6	0	20.29	20.26	20.22	21.00
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Channel 18615**	**Channel 18900**	**Channel 19185**	**Tune up**
3MHz	QPSK	1	0	23.44	23.34	23.53	24.00
		1	7	23.03	23.20	23.13	24.00
		1	14	23.22	23.25	23.28	24.00
		8	0	22.27	22.22	22.32	23.00
		8	4	22.21	22.25	22.15	23.00
		8	7	22.22	22.24	22.25	23.00
		15	0	22.24	22.25	22.20	23.00
	16QAM	1	0	22.62	22.69	22.67	23.00
		1	7	22.30	22.47	22.25	23.00
		1	14	22.48	22.58	22.49	23.00
		8	0	21.23	21.16	21.18	22.00
		8	4	21.11	21.20	21.13	22.00
		8	7	21.14	21.21	21.18	22.00
		15	0	21.18	21.19	21.19	22.00
	64QAM	1	0	21.47	21.40	21.57	22.00
		1	7	21.04	21.22	21.21	22.00
		1	14	21.25	21.32	21.30	22.00
		8	0	20.32	20.27	20.36	21.00
		8	4	20.25	20.30	20.23	21.00
		8	7	20.29	20.31	20.28	21.00

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		15	0	20.27	20.33	20.20	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	23.50	23.40	23.55	24.00
		1	13	23.08	23.22	23.18	24.00
		1	24	23.26	23.29	23.32	24.00
		12	0	22.31	22.27	22.37	23.00
		12	6	22.25	22.30	22.21	23.00
		12	13	22.26	22.27	22.30	23.00
		25	0	22.28	22.30	22.26	23.00
	16QAM	1	0	22.65	22.73	22.70	23.00
		1	13	22.35	22.49	22.28	23.00
		1	24	22.53	22.60	22.53	23.00
		12	0	21.27	21.22	21.23	22.00
		12	6	21.16	21.24	21.19	22.00
		12	13	21.18	21.27	21.23	22.00
		25	0	21.22	21.24	21.22	22.00
	64QAM	1	0	21.57	21.46	21.64	22.00
		1	13	21.10	21.22	21.21	22.00
		1	24	21.26	21.29	21.38	22.00
		12	0	20.33	20.30	20.42	21.00
		12	6	20.28	20.32	20.28	21.00
		12	13	20.33	20.29	20.31	21.00
		25	0	20.35	20.31	20.29	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	23.54	23.44	23.60	24.00
		1	25	23.12	23.24	23.21	24.00
		1	49	23.31	23.32	23.35	24.00
		25	0	22.35	22.32	22.40	23.00
		25	13	22.27	22.34	22.27	23.00
		25	25	22.29	22.31	22.34	23.00
		50	0	22.34	22.33	22.32	23.00
	16QAM	1	0	22.71	22.77	22.75	23.00
		1	25	22.38	22.54	22.32	23.00
		1	49	22.58	22.64	22.55	23.00
		25	0	21.32	21.28	21.28	22.00
		25	13	21.19	21.27	21.23	22.00
		25	25	21.21	21.30	21.27	22.00
		50	0	21.25	21.28	21.25	22.00
	64QAM	1	0	21.56	21.47	21.64	22.00
		1	25	21.17	21.24	21.23	22.00
		1	49	21.39	21.34	21.43	22.00
		25	0	20.36	20.38	20.47	21.00
		25	13	20.31	20.42	20.27	21.00
		25	25	20.38	20.33	20.43	21.00
		50	0	20.41	20.39	20.38	21.00

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Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	23.56	23.49	23.63	24.00
		1	38	23.15	23.26	23.24	24.00
		1	74	23.37	23.37	23.39	24.00
		36	0	22.40	22.37	22.43	23.00
		36	18	22.33	22.38	22.32	23.00
		36	39	22.32	22.35	22.39	23.00
		75	0	22.37	22.38	22.38	23.00
	16QAM	1	0	22.75	22.80	22.80	23.00
		1	38	22.40	22.58	22.36	23.00
		1	74	22.63	22.69	22.61	23.00
		36	0	21.38	21.32	21.33	22.00
		36	18	21.25	21.31	21.27	22.00
		36	39	21.26	21.32	21.29	22.00
		75	0	21.29	21.30	21.30	22.00
	64QAM	1	0	21.61	21.50	21.68	22.00
		1	38	21.23	21.30	21.32	22.00
		1	74	21.42	21.43	21.46	22.00
		36	0	20.46	20.46	20.52	21.00
		36	18	20.36	20.44	20.38	21.00
		36	39	20.38	20.39	20.42	21.00
		75	0	20.42	20.45	20.41	21.00

Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	**23.61**	**23.54**	**23.65**	24.00
		1	50	23.20	23.30	23.30	24.00
		1	99	23.43	23.43	23.44	24.00
		50	0	22.45	22.42	**22.48**	23.00
		50	25	22.37	22.40	22.35	23.00
		50	50	22.37	22.40	22.41	23.00
		100	0	22.40	22.41	22.40	23.00
	16QAM	1	0	22.81	22.85	22.83	23.00
		1	50	22.44	22.63	22.40	23.00
		1	99	22.66	22.72	22.67	23.00
		50	0	21.41	21.36	21.39	22.00
		50	25	21.28	21.33	21.30	22.00
		50	50	21.29	21.37	21.33	22.00
		100	0	21.32	21.35	21.33	22.00
	64QAM	1	0	21.67	21.63	21.68	22.00
		1	50	21.25	21.34	21.35	22.00
		1	99	21.48	21.50	21.44	22.00
		50	0	20.49	20.47	20.55	21.00
		50	25	20.43	20.48	20.39	21.00
		50	50	20.40	20.48	20.44	21.00
		100	0	20.40	20.46	20.47	21.00

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LTE Band 2 Hotspot on+sensor off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	18.41	18.38	18.40	19.00
		1	2	17.67	17.77	17.66	19.00
		1	5	18.29	18.15	18.21	19.00
		3	0	18.38	18.31	18.30	19.00
		3	2	18.20	18.22	18.17	19.00
		3	3	18.19	18.20	18.18	19.00
		6	0	18.26	18.20	18.25	19.00
	16QAM	1	0	18.66	18.59	18.60	19.00
		1	2	18.42	18.47	18.38	19.00
		1	5	18.57	18.48	18.55	19.00
		3	0	18.21	18.14	18.21	19.00
		3	2	18.14	18.12	18.12	19.00
		3	3	18.13	18.17	18.09	19.00
		6	0	18.13	18.15	18.11	19.00
	64QAM	1	0	18.60	18.54	18.51	19.00
		1	2	18.32	18.37	18.27	19.00
		1	5	18.52	18.33	18.49	19.00
		3	0	18.09	18.03	18.14	19.00
		3	2	18.05	18.05	18.01	19.00
		3	3	18.06	18.05	18.04	19.00
		6	0	18.00	18.03	18.01	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	18.46	18.44	18.46	19.00
		1	7	17.70	17.82	17.72	19.00
		1	14	18.31	18.21	18.26	19.00
		8	0	18.40	18.35	18.33	19.00
		8	4	18.25	18.27	18.20	19.00
		8	7	18.22	18.25	18.24	19.00
		15	0	18.30	18.25	18.27	19.00
	16QAM	1	0	18.68	18.63	18.66	19.00
		1	7	18.47	18.52	18.42	19.00
		1	14	18.61	18.54	18.60	19.00
		8	0	18.24	18.17	18.24	19.00
		8	4	18.16	18.15	18.15	19.00
		8	7	18.16	18.22	18.13	19.00
		15	0	18.17	18.19	18.15	19.00
	64QAM	1	0	18.56	18.48	18.54	19.00
		1	7	18.36	18.39	18.32	19.00
		1	14	18.55	18.46	18.46	19.00
		8	0	18.17	18.10	18.17	19.00
		8	4	18.08	18.07	18.06	19.00
		8	7	18.11	18.08	18.00	19.00
		15	0	18.03	18.07	18.03	19.00

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Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	18.52	18.47	18.50	19.00
		1	13	17.74	17.85	17.76	19.00
		1	24	18.34	18.25	18.30	19.00
		12	0	18.43	18.37	18.35	19.00
		12	6	18.29	18.33	18.24	19.00
		12	13	18.27	18.29	18.28	19.00
		25	0	18.34	18.29	18.29	19.00
	16QAM	1	0	18.73	18.66	18.71	19.00
		1	13	18.52	18.55	18.45	19.00
		1	24	18.66	18.57	18.64	19.00
		12	0	18.26	18.22	18.29	19.00
		12	6	18.20	18.19	18.20	19.00
		12	13	18.21	18.28	18.18	19.00
		25	0	18.21	18.24	18.19	19.00
	64QAM	1	0	18.60	18.58	18.58	19.00
		1	13	18.46	18.41	18.34	19.00
		1	24	18.53	18.47	18.58	19.00
		12	0	18.15	18.15	18.19	19.00
		12	6	18.07	18.04	18.08	19.00
		12	13	18.09	18.14	18.09	19.00
		25	0	18.14	18.10	18.13	19.00

Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	18.57	18.52	18.52	19.00
		1	25	17.78	17.87	17.81	19.00
		1	49	18.38	18.31	18.36	19.00
		25	0	18.45	18.40	18.38	19.00
		25	13	18.32	18.36	18.29	19.00
		25	25	18.32	18.32	18.32	19.00
		50	0	18.39	18.32	18.32	19.00
	16QAM	1	0	18.76	18.72	18.76	19.00
		1	25	18.56	18.61	18.51	19.00
		1	49	18.69	18.60	18.66	19.00
		25	0	18.32	18.27	18.34	19.00
		25	13	18.23	18.24	18.23	19.00
		25	25	18.25	18.31	18.21	19.00
		50	0	18.27	18.27	18.25	19.00
	64QAM	1	0	18.65	18.60	18.69	19.00
		1	25	18.47	18.51	18.41	19.00
		1	49	18.54	18.49	18.57	19.00
		25	0	18.25	18.12	18.21	19.00
		25	13	18.13	18.13	18.08	19.00
		25	25	18.14	18.26	18.10	19.00
		50	0	18.19	18.14	18.20	19.00

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15MHz	QPSK	1	0	18.59	18.54	18.57	19.00
		1	38	17.82	17.92	17.84	19.00
		1	74	18.41	18.36	18.38	19.00
		36	0	18.47	18.42	18.40	19.00
		36	18	18.35	18.38	18.33	19.00
		36	39	18.37	18.37	18.36	19.00
		75	0	18.42	18.37	18.37	19.00
	16QAM	1	0	18.80	18.75	18.82	19.00
		1	38	18.58	18.67	18.56	19.00
		1	74	18.72	18.63	18.71	19.00
		36	0	18.35	18.32	18.37	19.00
		36	18	18.27	18.30	18.29	19.00
		36	39	18.29	18.34	18.27	19.00
		75	0	18.30	18.32	18.30	19.00
	64QAM	1	0	18.68	18.64	18.71	19.00
		1	38	18.44	18.52	18.44	19.00
		1	74	18.62	18.51	18.63	19.00
		36	0	18.24	18.24	18.30	19.00
		36	18	18.14	18.22	18.21	19.00
		36	39	18.21	18.24	18.19	19.00
		75	0	18.16	18.19	18.24	19.00

Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	**18.62**	18.57	18.60	19.00
		1	50	17.84	17.96	17.90	19.00
		1	99	18.43	18.40	18.41	19.00
		50	0	**18.50**	**18.45**	**18.44**	19.00
		50	25	18.39	18.43	18.37	19.00
		50	50	18.42	18.40	18.41	19.00
		100	0	**18.44**	18.41	18.40	19.00
	16QAM	1	0	18.85	18.79	18.85	19.00
		1	50	18.61	18.70	18.61	19.00
		1	99	18.76	18.68	18.73	19.00
		50	0	18.39	18.37	18.39	19.00
		50	25	18.30	18.35	18.32	19.00
		50	50	18.35	18.37	18.33	19.00
		100	0	18.34	18.35	18.33	19.00
	64QAM	1	0	18.74	18.64	18.73	19.00
		1	50	18.55	18.56	18.53	19.00
		1	99	18.69	18.60	18.59	19.00
		50	0	18.25	18.30	18.33	19.00
		50	25	18.20	18.30	18.26	19.00
		50	50	18.27	18.28	18.24	19.00
		100	0	18.24	18.27	18.23	19.00

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LTE Band 2 Body Scene(SAR sensor on Level D0&D1)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	20.49	20.47	20.39	21.50
		1	2	20.29	20.35	19.91	21.50
		1	5	20.46	20.44	19.81	21.50
		3	0	20.44	20.38	20.11	21.50
		3	2	20.21	20.54	19.99	21.50
		3	3	20.40	20.37	19.76	21.50
		6	0	20.40	20.36	20.09	21.50
	16QAM	1	0	20.88	20.68	20.48	21.50
		1	2	20.63	20.45	20.24	21.50
		1	5	20.49	20.69	20.14	21.50
		3	0	20.45	20.46	20.10	21.50
		3	2	20.53	20.34	19.92	21.50
		3	3	20.47	20.46	19.81	21.50
		6	0	20.50	20.35	20.08	21.50
	64QAM	1	0	20.36	20.21	19.91	21.50
		1	2	20.20	20.07	19.89	21.50
		1	5	20.25	20.23	19.56	21.50
		3	0	20.19	20.10	19.79	21.50
		3	2	20.14	20.08	19.77	21.50
		3	3	20.22	20.08	20.12	21.50
		6	0	20.13	20.09	19.75	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	20.57	20.51	20.48	21.50
		1	7	20.40	20.50	20.31	21.50
		1	14	20.43	20.46	19.92	21.50
		8	0	20.48	20.53	20.43	21.50
		8	4	20.44	20.46	20.29	21.50
		8	7	20.38	20.47	20.31	21.50
		15	0	20.44	20.49	20.30	21.50
	16QAM	1	0	20.84	20.86	20.59	21.50
		1	7	20.47	20.63	20.50	21.50
		1	14	20.69	20.73	20.00	21.50
		8	0	20.51	20.49	20.40	21.50
		8	4	20.42	20.44	20.28	21.50
		8	7	20.41	20.52	20.32	21.50
		15	0	20.44	20.41	20.29	21.50
	64QAM	1	0	20.36	20.45	20.15	21.50
		1	7	20.27	20.00	20.08	21.50
		1	14	20.32	20.31	20.13	21.50
		8	0	20.24	20.16	20.06	21.00
		8	4	20.16	20.17	20.11	21.00
		8	7	20.19	20.12	20.05	21.00
		15	0	20.22	20.17	20.07	21.00

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Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	20.57	20.53	20.57	21.50
		1	13	20.43	20.58	20.49	21.50
		1	24	20.44	20.63	19.96	21.50
		12	0	20.60	20.57	20.50	21.50
		12	6	20.43	20.47	20.49	21.50
		12	13	20.50	20.58	20.33	21.50
		25	0	20.45	20.53	20.49	21.50
	16QAM	1	0	20.82	20.80	20.82	21.50
		1	13	20.77	20.79	20.73	21.50
		1	24	20.75	20.88	20.28	21.50
		12	0	20.51	20.54	20.49	21.50
		12	6	20.39	20.52	20.39	21.50
		12	13	20.45	20.53	20.23	21.50
		25	0	20.43	20.46	20.46	21.50
	64QAM	1	0	20.41	20.60	20.37	21.50
		1	13	20.43	20.53	20.22	21.50
		1	24	20.33	20.37	19.68	21.50
		12	0	20.35	20.40	20.27	21.00
		12	6	20.26	20.29	20.14	21.00
		12	13	20.27	20.29	20.13	21.00
		25	0	20.26	20.21	20.23	21.00

Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	20.07	20.12	20.09	21.50
		1	25	20.48	20.40	20.49	21.50
		1	49	20.20	20.44	19.95	21.50
		25	0	20.70	20.55	20.51	21.50
		25	13	20.33	20.47	20.49	21.50
		25	25	20.30	20.43	20.35	21.50
		50	0	20.30	20.43	20.37	21.50
	16QAM	1	0	20.48	20.40	20.21	21.50
		1	25	20.60	20.66	20.69	21.50
		1	49	20.41	20.54	20.23	21.50
		25	0	20.69	20.61	20.46	21.50
		25	13	20.44	20.39	20.40	21.50
		25	25	20.27	20.40	20.37	21.50
		50	0	20.37	20.44	20.44	21.50
	64QAM	1	0	20.03	20.04	19.76	21.50
		1	25	20.17	20.17	20.22	21.50
		1	49	20.06	20.26	19.68	21.50
		25	0	20.23	20.32	20.11	21.00
		25	13	20.11	20.18	20.15	21.00
		25	25	20.07	20.18	20.04	21.00
		50	0	20.23	20.19	20.06	21.00

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Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	19.84	19.91	19.84	21.50
		1	38	20.50	20.60	20.53	21.50
		1	74	20.46	20.46	20.13	21.50
		36	0	20.64	20.58	20.47	21.50
		36	18	20.47	20.52	20.48	21.50
		36	39	20.51	20.60	20.54	21.50
		75	0	20.59	20.55	20.54	21.50
	16QAM	1	0	20.08	20.02	20.04	21.50
		1	38	20.78	20.85	20.73	21.50
		1	74	20.63	20.60	20.36	21.50
		36	0	20.55	20.49	20.47	21.50
		36	18	20.47	20.46	20.30	21.50
		36	39	20.44	20.51	20.31	21.50
		75	0	20.49	20.47	20.30	21.50
	64QAM	1	0	19.75	19.63	19.55	21.50
		1	38	20.35	20.37	20.26	21.50
		1	74	20.25	20.29	19.88	21.50
		36	0	20.29	20.24	20.08	21.00
		36	18	20.16	20.20	20.07	21.00
		36	39	20.18	20.25	20.06	21.00
		75	0	20.18	20.18	20.07	21.00

Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	20.10	19.96	20.24	21.50
		1	50	20.41	**20.56**	20.27	21.50
		1	99	**20.53**	20.53	**20.56**	21.50
		50	0	20.53	20.65	**20.66**	21.50
		50	25	20.46	20.44	20.36	21.50
		50	50	20.50	20.48	20.41	21.50
		100	0	20.51	**20.61**	20.37	21.50
	16QAM	1	0	20.17	20.32	20.34	21.50
		1	50	20.82	20.88	20.49	21.50
		1	99	20.97	20.87	20.80	21.50
		50	0	20.59	20.55	20.56	21.50
		50	25	20.55	20.39	20.30	21.50
		50	50	20.55	20.42	20.32	21.50
		100	0	20.59	20.55	20.49	21.50
	64QAM	1	0	19.83	19.89	19.73	21.50
		1	50	20.06	20.35	20.17	21.50
		1	99	20.32	20.32	20.33	21.50
		50	0	20.42	20.27	20.15	21.00
		50	25	20.27	20.18	20.11	21.00
		50	50	20.29	20.21	20.14	21.00
		100	0	20.33	20.21	20.16	21.00

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LTE Band 2 SAR sensor on level D0&D1 +Wifi Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	15.48	15.39	15.26	16.50
		1	2	15.31	15.29	14.90	16.50
		1	5	15.53	15.56	14.80	16.50
		3	0	15.42	15.42	15.13	16.50
		3	2	15.44	15.31	14.93	16.50
		3	3	15.47	15.42	14.81	16.50
		6	0	15.46	15.37	15.04	16.50
	16QAM	1	0	15.76	15.85	15.42	16.50
		1	2	15.42	15.50	15.16	16.50
		1	5	15.64	15.55	14.91	16.50
		3	0	15.35	15.29	15.21	16.50
		3	2	15.33	15.39	14.80	16.50
		3	3	15.37	15.25	14.88	16.50
		6	0	15.47	15.25	15.07	16.50
	64QAM	1	0	15.40	15.31	15.16	16.50
		1	2	15.18	15.09	14.70	16.50
		1	5	15.34	15.31	14.53	16.50
		3	0	15.28	15.15	14.88	16.50
		3	2	15.19	15.03	14.71	16.50
		3	3	15.29	15.24	14.67	16.50
		6	0	15.17	15.06	14.77	16.50
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	15.43	15.39	15.49	16.50
		1	7	15.13	15.41	15.28	16.50
		1	14	15.34	15.39	14.73	16.50
		8	0	15.31	15.38	15.45	16.50
		8	4	15.39	15.38	15.37	16.50
		8	7	15.55	15.32	15.35	16.50
		15	0	15.59	15.38	15.40	16.50
	16QAM	1	0	15.87	15.70	15.51	16.50
		1	7	15.58	15.42	15.34	16.50
		1	14	15.66	15.50	15.04	16.50
		8	0	15.43	15.53	15.38	16.50
		8	4	15.34	15.52	15.39	16.50
		8	7	15.47	15.58	15.38	16.50
		15	0	15.44	15.31	15.30	16.50
	64QAM	1	0	15.29	15.37	15.31	16.50
		1	7	15.14	15.42	15.05	16.50
		1	14	15.27	15.11	14.54	16.50
		8	0	15.30	15.10	15.10	16.50
		8	4	15.17	15.16	15.06	16.50
		8	7	15.20	15.16	14.98	16.50

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		15	0	15.21	15.09	15.09	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	15.67	15.44	15.59	16.50
		1	13	15.48	15.40	15.61	16.50
		1	24	15.42	15.46	14.93	16.50
		12	0	15.48	15.44	15.53	16.50
		12	6	15.44	15.44	15.44	16.50
		12	13	15.48	15.52	15.46	16.50
		25	0	15.45	15.42	15.44	16.50
	16QAM	1	0	15.77	15.80	15.73	16.50
		1	13	15.71	15.77	15.72	16.50
		1	24	15.77	15.79	15.08	16.50
		12	0	15.40	15.48	15.45	16.50
		12	6	15.35	15.42	15.44	16.50
		12	13	15.43	15.46	15.41	16.50
		25	0	15.35	15.36	15.34	16.50
	64QAM	1	0	15.49	15.29	15.36	16.50
		1	13	15.36	15.31	15.53	16.50
		1	24	15.35	15.18	14.66	16.50
		12	0	15.34	15.20	15.36	16.50
		12	6	15.25	15.18	15.35	16.50
		12	13	15.30	15.11	15.19	16.50
		25	0	15.22	15.05	15.09	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	15.01	15.00	15.18	16.50
		1	25	15.49	15.31	15.33	16.50
		1	49	15.25	15.38	14.93	16.50
		25	0	15.68	15.41	15.48	16.50
		25	13	15.48	15.37	15.37	16.50
		25	25	15.30	15.37	15.37	16.50
		50	0	15.29	15.36	15.39	16.50
	16QAM	1	0	15.45	15.58	15.24	16.50
		1	25	15.58	15.60	15.49	16.50
		1	49	15.71	15.72	15.12	16.50
		25	0	15.38	15.34	15.38	16.50
		25	13	15.32	15.36	15.31	16.50
		25	25	15.35	15.27	15.32	16.50
		50	0	15.37	15.36	15.29	16.50
	64QAM	1	0	15.16	14.83	15.19	16.50
		1	25	15.42	15.49	15.28	16.50
		1	49	14.99	15.18	14.72	16.50
		25	0	15.24	15.15	15.32	16.50
		25	13	15.24	15.20	15.12	16.50
		25	25	15.17	15.10	15.02	16.50
		50	0	15.22	15.18	15.21	16.50

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Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	14.91	14.85	14.90	16.50
		1	38	15.51	15.55	15.53	16.50
		1	74	15.42	15.47	15.16	16.50
		36	0	15.51	15.48	15.51	16.50
		36	18	15.47	15.55	15.38	16.50
		36	39	15.51	15.57	15.36	16.50
		75	0	15.46	15.53	15.39	16.50
	16QAM	1	0	15.09	15.19	15.12	16.50
		1	38	15.85	15.92	15.61	16.50
		1	74	15.69	15.85	15.33	16.50
		36	0	15.57	15.46	15.36	16.50
		36	18	15.44	15.45	15.29	16.50
		36	39	15.52	15.50	15.22	16.50
		75	0	15.46	15.45	15.25	16.50
	64QAM	1	0	14.90	14.83	14.63	16.50
		1	38	15.44	15.30	15.40	16.50
		1	74	15.27	15.18	14.91	16.50
		36	0	15.30	15.21	15.22	16.50
		36	18	15.19	15.23	15.17	16.50
		36	39	15.21	15.20	15.23	16.50
		75	0	15.26	15.20	15.24	16.50

Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	15.17	14.99	15.06	16.50
		1	50	15.37	15.38	15.42	16.50
		1	99	15.73	15.47	15.38	16.50
		50	0	15.69	15.48	15.71	16.50
		50	25	15.65	15.44	15.57	16.50
		50	50	15.71	15.48	15.53	16.50
		100	0	15.69	15.46	15.51	16.50
	16QAM	1	0	15.48	15.28	15.43	16.50
		1	50	15.75	15.93	15.86	16.50
		1	99	15.94	15.85	15.85	16.50
		50	0	15.59	15.40	15.66	16.50
		50	25	15.59	15.37	15.54	16.50
		50	50	15.63	15.39	15.51	16.50
		100	0	15.62	15.37	15.49	16.50
	64QAM	1	0	15.15	14.71	14.88	16.50
		1	50	15.23	15.20	15.29	16.50
		1	99	15.44	15.25	15.41	16.50
		50	0	15.40	15.20	15.20	16.50
		50	25	15.29	15.19	15.21	16.50
		50	50	15.23	15.18	15.22	16.50
		100	0	15.29	15.16	15.14	16.50

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LTE Band 4 Full power/(SAR sensor on Level D2&D3)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	22.97	22.94	22.95	24.00
		1	2	22.54	22.68	22.60	24.00
		1	5	22.84	22.79	22.86	24.00
		3	0	22.92	22.88	22.90	24.00
		3	2	22.51	22.65	22.58	24.00
		3	3	22.81	22.74	22.81	24.00
		6	0	21.29	21.24	21.31	23.00
	16QAM	1	0	21.59	21.68	21.71	23.00
		1	2	21.37	21.57	21.38	23.00
		1	5	21.66	21.62	21.54	23.00
		3	0	21.55	21.64	21.66	23.00
		3	2	21.34	21.52	21.33	23.00
		3	3	21.61	21.56	21.52	23.00
		6	0	20.21	20.21	20.27	22.00
	64QAM	1	0	21.06	20.98	20.96	22.00
		1	2	20.64	20.73	20.69	22.00
		1	5	20.90	20.86	20.89	22.00
		3	0	20.94	20.89	20.92	22.00
		3	2	20.58	20.67	20.59	22.00
		3	3	20.89	20.80	20.88	22.00
		6	0	19.31	19.25	19.41	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	22.99	22.98	22.98	24.00
		1	7	22.58	22.73	22.65	24.00
		1	14	22.90	22.85	22.89	24.00
		8	0	21.33	21.38	21.37	23.00
		8	4	21.23	21.31	21.31	23.00
		8	7	21.26	21.25	21.32	23.00
		15	0	21.32	21.30	21.35	23.00
	16QAM	1	0	21.65	21.71	21.76	23.00
		1	7	21.42	21.61	21.42	23.00
		1	14	21.72	21.64	21.57	23.00
		8	0	20.27	20.27	20.32	22.00
		8	4	20.19	20.19	20.26	22.00
		8	7	20.26	20.21	20.27	22.00
		15	0	20.27	20.26	20.30	22.00
	64QAM	1	0	21.06	21.06	21.04	22.00
		1	7	20.60	20.82	20.74	22.00
		1	14	20.98	20.91	20.97	22.00
		8	0	19.38	19.41	19.38	21.00
		8	4	19.29	19.40	19.34	21.00
		8	7	19.30	19.28	19.32	21.00
		15	0	19.37	19.37	19.44	21.00

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Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	23.01	23.04	23.04	24.00
		1	13	22.63	22.78	22.68	24.00
		1	24	22.93	22.89	22.94	24.00
		12	0	21.37	21.41	21.40	23.00
		12	6	21.28	21.34	21.36	23.00
		12	13	21.31	21.30	21.37	23.00
		25	0	21.36	21.36	21.40	23.00
	16QAM	1	0	21.69	21.75	21.82	23.00
		1	13	21.48	21.67	21.46	23.00
		1	24	21.77	21.66	21.61	23.00
		12	0	20.31	20.30	20.35	22.00
		12	6	20.25	20.25	20.28	22.00
		12	13	20.29	20.27	20.31	22.00
		25	0	20.32	20.31	20.32	22.00
	64QAM	1	0	21.02	21.05	21.11	22.00
		1	13	20.64	20.85	20.69	22.00
		1	24	21.01	20.94	21.02	22.00
		12	0	19.38	19.42	19.45	21.00
		12	6	19.38	19.44	19.40	21.00
		12	13	19.36	19.31	19.45	21.00
		25	0	19.36	19.41	19.45	21.00

Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	23.07	23.07	23.08	24.00
		1	25	22.69	22.82	22.73	24.00
		1	49	22.98	22.91	22.99	24.00
		25	0	21.40	21.44	21.45	23.00
		25	13	21.33	21.39	21.40	23.00
		25	25	21.35	21.36	21.41	23.00
		50	0	21.41	21.41	21.44	23.00
	16QAM	1	0	21.72	21.80	21.87	23.00
		1	25	21.50	21.71	21.49	23.00
		1	49	21.81	21.70	21.66	23.00
		25	0	20.35	20.35	20.38	22.00
		25	13	20.31	20.30	20.33	22.00
		25	25	20.34	20.31	20.36	22.00
		50	0	20.35	20.33	20.36	22.00
	64QAM	1	0	21.10	21.09	21.16	22.00
		1	25	20.76	20.90	20.81	22.00
		1	49	20.99	20.94	21.05	22.00
		25	0	19.49	19.53	19.52	21.00
		25	13	19.43	19.48	19.42	21.00
		25	25	19.37	19.39	19.42	21.00
		50	0	19.43	19.51	19.52	21.00

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Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	23.10	23.10	23.13	24.00
		1	38	22.73	22.84	22.75	24.00
		1	74	23.00	22.96	23.01	24.00
		36	0	21.44	21.47	21.49	23.00
		36	18	21.38	21.43	21.45	23.00
		36	39	21.40	21.41	21.44	23.00
		75	0	21.46	21.44	21.47	23.00
	16QAM	1	0	21.77	21.84	21.92	23.00
		1	38	21.55	21.73	21.55	23.00
		1	74	21.83	21.75	21.71	23.00
		36	0	20.39	20.38	20.42	22.00
		36	18	20.34	20.35	20.38	22.00
		36	39	20.37	20.35	20.42	22.00
		75	0	20.38	20.37	20.39	22.00
	64QAM	1	0	21.11	21.16	21.22	22.00
		1	38	20.82	20.89	20.77	22.00
		1	74	21.03	20.99	21.10	22.00
		36	0	19.50	19.52	19.52	21.00
		36	18	19.42	19.46	19.49	21.00
		36	39	19.42	19.46	19.50	21.00
		75	0	19.51	19.44	19.53	21.00

Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	**23.13**	**23.16**	**23.18**	24.00
		1	50	22.77	22.86	22.81	24.00
		1	99	23.04	23.02	23.07	24.00
		50	0	21.49	21.51	**21.54**	23.00
		50	25	21.44	21.47	21.47	23.00
		50	50	21.43	21.46	21.48	23.00
		100	0	21.50	21.47	21.53	23.00
	16QAM	1	0	21.80	21.88	21.94	23.00
		1	50	21.59	21.78	21.57	23.00
		1	99	21.86	21.79	21.76	23.00
		50	0	20.45	20.43	20.45	22.00
		50	25	20.39	20.39	20.44	22.00
		50	50	20.39	20.40	20.45	22.00
		100	0	20.43	20.42	20.44	22.00
	64QAM	1	0	21.18	21.18	21.21	22.00
		1	50	20.78	20.92	20.84	22.00
		1	99	21.07	21.07	21.07	22.00
		50	0	19.51	19.54	19.63	21.00
		50	25	19.48	19.56	19.51	21.00
		50	50	19.47	19.46	19.52	21.00
		100	0	19.59	19.54	19.55	21.00

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LTE Band 4 Hotspot on+sensor off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	17.41	17.45	17.48	18.50
		1	2	16.76	16.98	16.81	18.50
		1	5	17.33	17.32	17.35	18.50
		3	0	17.27	17.31	17.36	18.50
		3	2	17.22	17.26	17.28	18.50
		3	3	17.22	17.27	17.27	18.50
		6	0	17.20	17.35	17.30	18.50
	16QAM	1	0	17.62	17.74	17.78	18.50
		1	2	17.41	17.31	17.49	18.50
		1	5	17.56	17.60	17.65	18.50
		3	0	17.24	17.26	17.30	18.50
		3	2	17.19	17.21	17.24	18.50
		3	3	17.18	17.26	17.19	18.50
		6	0	17.21	17.21	17.29	18.50
	64QAM	1	0	17.48	17.64	17.72	18.50
		1	2	17.35	17.25	17.42	18.50
		1	5	17.49	17.51	17.54	18.50
		3	0	17.12	17.21	17.24	18.50
		3	2	17.09	17.07	17.14	18.50
		3	3	17.03	17.15	17.06	18.50
		6	0	17.07	17.08	17.18	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	17.45	17.50	17.50	18.50
		1	7	16.82	17.01	16.85	18.50
		1	14	17.37	17.35	17.38	18.50
		8	0	17.32	17.35	17.41	18.50
		8	4	17.27	17.32	17.30	18.50
		8	7	17.25	17.30	17.30	18.50
		15	0	17.26	17.39	17.35	18.50
	16QAM	1	0	17.67	17.76	17.80	18.50
		1	7	17.45	17.37	17.54	18.50
		1	14	17.60	17.65	17.70	18.50
		8	0	17.28	17.31	17.32	18.50
		8	4	17.23	17.23	17.29	18.50
		8	7	17.22	17.28	17.25	18.50
		15	0	17.25	17.24	17.31	18.50
	64QAM	1	0	17.54	17.66	17.66	18.50
		1	7	17.32	17.30	17.41	18.50
		1	14	17.49	17.54	17.65	18.50
		8	0	17.22	17.20	17.23	18.50
		8	4	17.14	17.10	17.16	18.50
		8	7	17.13	17.22	17.19	18.50

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		15	0	17.18	17.17	17.18	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	17.49	17.55	17.55	18.50
		1	13	16.86	17.06	16.89	18.50
		1	24	17.41	17.39	17.42	18.50
		12	0	17.38	17.40	17.43	18.50
		12	6	17.30	17.35	17.34	18.50
		12	13	17.30	17.36	17.34	18.50
		25	0	17.32	17.41	17.37	18.50
	16QAM	1	0	17.71	17.80	17.83	18.50
		1	13	17.50	17.40	17.59	18.50
		1	24	17.66	17.67	17.73	18.50
		12	0	17.32	17.35	17.35	18.50
		12	6	17.25	17.28	17.33	18.50
		12	13	17.27	17.32	17.30	18.50
		25	0	17.30	17.30	17.34	18.50
	64QAM	1	0	17.58	17.67	17.74	18.50
		1	13	17.42	17.34	17.52	18.50
		1	24	17.56	17.61	17.66	18.50
		12	0	17.26	17.29	17.27	18.50
		12	6	17.18	17.19	17.25	18.50
		12	13	17.20	17.25	17.22	18.50
		25	0	17.21	17.18	17.28	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	17.54	17.58	17.60	18.50
		1	25	16.89	17.12	16.95	18.50
		1	49	17.44	17.44	17.45	18.50
		25	0	17.41	17.44	17.45	18.50
		25	13	17.35	17.40	17.39	18.50
		25	25	17.36	17.40	17.38	18.50
		50	0	17.37	17.47	17.40	18.50
	16QAM	1	0	17.73	17.84	17.87	18.50
		1	25	17.54	17.46	17.63	18.50
		1	49	17.69	17.72	17.76	18.50
		25	0	17.36	17.38	17.38	18.50
		25	13	17.29	17.32	17.36	18.50
		25	25	17.32	17.34	17.33	18.50
		50	0	17.32	17.36	17.39	18.50
	64QAM	1	0	17.64	17.74	17.73	18.50
		1	25	17.48	17.34	17.58	18.50
		1	49	17.64	17.61	17.62	18.50
		25	0	17.22	17.25	17.31	18.50
		25	13	17.23	17.18	17.25	18.50
		25	25	17.18	17.22	17.25	18.50
		50	0	17.25	17.26	17.27	18.50

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Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	17.57	17.63	17.65	18.50
		1	38	16.95	17.14	16.99	18.50
		1	74	17.48	17.49	17.51	18.50
		36	0	17.45	17.48	17.48	18.50
		36	18	17.40	17.44	17.41	18.50
		36	39	17.42	17.42	17.44	18.50
		75	0	17.42	17.50	17.45	18.50
	16QAM	1	0	17.75	17.87	17.92	18.50
		1	38	17.59	17.51	17.66	18.50
		1	74	17.74	17.75	17.79	18.50
		36	0	17.38	17.43	17.41	18.50
		36	18	17.34	17.37	17.38	18.50
		36	39	17.36	17.38	17.35	18.50
		75	0	17.36	17.38	17.43	18.50
	64QAM	1	0	17.69	17.76	17.84	18.50
		1	38	17.52	17.46	17.52	18.50
		1	74	17.66	17.60	17.68	18.50
		36	0	17.29	17.29	17.29	18.50
		36	18	17.27	17.30	17.24	18.50
		36	39	17.26	17.28	17.23	18.50
		75	0	17.26	17.27	17.30	18.50

Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	17.59	**17.69**	17.67	18.50
		1	50	17.01	17.18	17.04	18.50
		1	99	17.51	17.53	17.54	18.50
		50	0	**17.49**	**17.53**	**17.52**	18.50
		50	25	17.45	17.46	17.45	18.50
		50	50	17.47	17.46	17.47	18.50
		100	0	17.47	17.53	17.51	18.50
	16QAM	1	0	17.81	17.91	17.95	18.50
		1	50	17.62	17.56	17.69	18.50
		1	99	17.78	17.80	17.82	18.50
		50	0	17.43	17.49	17.43	18.50
		50	25	17.38	17.40	17.40	18.50
		50	50	17.40	17.41	17.39	18.50
		100	0	17.42	17.42	17.45	18.50
	64QAM	1	0	17.75	17.81	17.89	18.50
		1	50	17.47	17.42	17.60	18.50
		1	99	17.67	17.67	17.73	18.50
		50	0	17.36	17.41	17.34	18.50
		50	25	17.31	17.30	17.30	18.50
		50	50	17.33	17.29	17.25	18.50
		100	0	17.32	17.33	17.39	18.50

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LTE Band 4 SAR sensor on level D0&D1+Wifi Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	15.44	15.50	15.50	16.50
		1	2	15.15	15.21	15.26	16.50
		1	5	15.41	15.40	15.32	16.50
		3	0	15.40	15.34	15.38	16.50
		3	2	15.39	15.37	15.32	16.50
		3	3	15.43	15.32	15.40	16.50
		6	0	15.42	15.33	15.38	16.50
	16QAM	1	0	15.53	15.80	15.66	16.50
		1	2	15.21	15.61	15.57	16.50
		1	5	15.51	15.58	15.61	16.50
		3	0	15.27	15.33	15.26	16.50
		3	2	15.24	15.25	15.25	16.50
		3	3	15.24	15.25	15.23	16.50
		6	0	15.32	15.32	15.33	16.50
	64QAM	1	0	15.43	15.67	15.60	16.50
		1	2	15.16	15.54	15.44	16.50
		1	5	15.39	15.46	15.47	16.50
		3	0	15.14	15.24	15.13	16.50
		3	2	15.09	15.11	15.18	16.50
		3	3	15.16	15.19	15.17	16.50
		6	0	15.25	15.23	15.26	16.50
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	15.52	15.56	15.56	16.50
		1	7	15.23	15.26	15.32	16.50
		1	14	15.47	15.45	15.41	16.50
		8	0	15.46	15.41	15.45	16.50
		8	4	15.46	15.47	15.37	16.50
		8	7	15.50	15.40	15.45	16.50
		15	0	15.49	15.39	15.45	16.50
	16QAM	1	0	15.60	15.88	15.73	16.50
		1	7	15.28	15.67	15.64	16.50
		1	14	15.59	15.66	15.70	16.50
		8	0	15.34	15.40	15.36	16.50
		8	4	15.30	15.33	15.32	16.50
		8	7	15.33	15.34	15.31	16.50
		15	0	15.38	15.42	15.38	16.50
	64QAM	1	0	15.55	15.78	15.60	16.50
		1	7	15.15	15.54	15.53	16.50
		1	14	15.46	15.55	15.60	16.50
		8	0	15.25	15.28	15.27	16.50
		8	4	15.17	15.20	15.21	16.50
		8	7	15.26	15.29	15.21	16.50

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		15	0	15.25	15.31	15.32	16.50
Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	15.61	15.64	15.66	16.50
		1	13	15.32	15.32	15.40	16.50
		1	24	15.54	15.54	15.51	16.50
		12	0	15.54	15.49	15.54	16.50
		12	6	15.51	15.53	15.43	16.50
		12	13	15.56	15.46	15.51	16.50
		25	0	15.54	15.47	15.51	16.50
	16QAM	1	0	15.68	15.97	15.80	16.50
		1	13	15.38	15.74	15.73	16.50
		1	24	15.68	15.75	15.79	16.50
		12	0	15.43	15.49	15.44	16.50
		12	6	15.39	15.40	15.42	16.50
		12	13	15.42	15.40	15.40	16.50
		25	0	15.48	15.51	15.48	16.50
	64QAM	1	0	15.60	15.84	15.67	16.50
		1	13	15.27	15.65	15.67	16.50
		1	24	15.61	15.70	15.68	16.50
		12	0	15.33	15.41	15.30	16.50
		12	6	15.25	15.29	15.32	16.50
		12	13	15.33	15.25	15.35	16.50
		25	0	15.41	15.46	15.42	16.50
Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	15.68	15.70	15.71	16.50
		1	25	15.37	15.38	15.49	16.50
		1	49	15.62	15.62	15.60	16.50
		25	0	15.61	15.57	15.60	16.50
		25	13	15.58	15.62	15.50	16.50
		25	25	15.62	15.55	15.57	16.50
		50	0	15.60	15.56	15.60	16.50
	16QAM	1	0	15.73	16.06	15.86	16.50
		1	25	15.47	15.79	15.83	16.50
		1	49	15.73	15.81	15.87	16.50
		25	0	15.51	15.57	15.54	16.50
		25	13	15.48	15.49	15.51	16.50
		25	25	15.52	15.46	15.46	16.50
		50	0	15.57	15.58	15.53	16.50
	64QAM	1	0	15.67	15.98	15.79	16.50
		1	25	15.37	15.66	15.77	16.50
		1	49	15.65	15.74	15.73	16.50
		25	0	15.41	15.46	15.45	16.50
		25	13	15.42	15.38	15.42	16.50
		25	25	15.38	15.34	15.36	16.50
		50	0	15.45	15.44	15.46	16.50

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Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	15.75	15.78	15.76	16.50
		1	38	15.46	15.45	15.55	16.50
		1	74	15.71	15.67	15.69	16.50
		36	0	15.68	15.65	15.69	16.50
		36	18	15.67	15.69	15.59	16.50
		36	39	15.69	15.62	15.65	16.50
		75	0	15.65	15.64	15.66	16.50
	16QAM	1	0	15.81	16.11	15.94	16.50
		1	38	15.56	15.84	15.90	16.50
		1	74	15.81	15.88	15.92	16.50
		36	0	15.59	15.64	15.60	16.50
		36	18	15.55	15.56	15.58	16.50
		36	39	15.60	15.54	15.55	16.50
		75	0	15.64	15.64	15.60	16.50
	64QAM	1	0	15.73	15.98	15.82	16.50
		1	38	15.44	15.74	15.83	16.50
		1	74	15.71	15.82	15.84	16.50
		36	0	15.44	15.58	15.48	16.50
		36	18	15.46	15.42	15.43	16.50
		36	39	15.48	15.41	15.47	16.50
		75	0	15.56	15.59	15.55	16.50

Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	15.82	15.85	15.86	16.50
		1	50	15.55	15.55	15.62	16.50
		1	99	15.80	15.75	15.74	16.50
		50	0	15.75	15.74	15.77	16.50
		50	25	15.75	15.74	15.67	16.50
		50	50	15.75	15.69	15.70	16.50
		100	0	15.73	15.72	15.74	16.50
	16QAM	1	0	15.88	16.19	16.21	16.50
		1	50	15.63	15.90	15.98	16.50
		1	99	15.88	15.98	15.99	16.50
		50	0	15.68	15.74	15.69	16.50
		50	25	15.64	15.63	15.65	16.50
		50	50	15.67	15.62	15.62	16.50
		100	0	15.69	15.71	15.67	16.50
	64QAM	1	0	15.82	16.13	15.94	16.50
		1	50	15.55	15.77	15.90	16.50
		1	99	15.82	15.85	15.85	16.50
		50	0	15.56	15.62	15.55	16.50
		50	25	15.54	15.48	15.55	16.50
		50	50	15.53	15.49	15.52	16.50
		100	0	15.63	15.66	15.57	16.50

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LTE Band 4 Body Scene(SAR sensor on Level D0&D1)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	20.75	20.77	20.68	22.00
		1	2	20.88	20.93	20.95	22.00
		1	5	20.64	20.91	20.59	22.00
		3	0	20.54	20.85	20.25	22.00
		3	2	20.66	20.61	20.45	22.00
		3	3	20.60	20.88	20.42	22.00
		6	0	20.71	20.74	20.65	22.00
	16QAM	1	0	20.95	21.14	20.97	22.00
		1	2	20.31	20.81	20.45	22.00
		1	5	21.00	21.03	20.92	22.00
		3	0	20.57	21.12	20.54	22.00
		3	2	20.39	20.44	20.30	22.00
		3	3	20.56	20.75	20.56	22.00
		6	0	20.10	20.02	20.02	22.00
	64QAM	1	0	20.86	20.68	20.54	22.00
		1	2	20.67	20.53	20.34	22.00
		1	5	20.81	20.81	20.51	22.00
		3	0	20.65	20.75	20.47	22.00
		3	2	20.67	20.71	20.40	22.00
		3	3	20.70	20.71	20.39	22.00
		6	0	20.22	20.13	19.82	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	20.63	20.85	20.78	22.00
		1	7	20.35	20.71	20.82	22.00
		1	14	20.52	20.87	20.36	22.00
		8	0	20.47	20.92	20.59	22.00
		8	4	20.79	20.99	20.67	22.00
		8	7	20.63	20.78	20.60	22.00
		15	0	20.69	20.75	20.70	22.00
	16QAM	1	0	20.45	20.76	21.18	22.00
		1	7	20.84	20.82	20.62	22.00
		1	14	20.54	21.18	20.44	22.00
		8	0	20.24	20.58	20.12	22.00
		8	4	20.16	20.13	20.13	22.00
		8	7	20.10	20.35	20.00	22.00
		15	0	20.03	20.37	20.03	22.00
	64QAM	1	0	20.99	20.80	20.64	22.00
		1	7	20.57	20.52	20.09	22.00
		1	14	20.88	20.70	20.23	22.00
		8	0	20.25	20.11	19.93	21.00
		8	4	20.20	20.15	19.79	21.00
		8	7	20.19	20.12	19.73	21.00

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		15	0	20.22	20.13	19.83	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	20.62	20.75	20.84	22.00
		1	13	20.76	20.68	20.79	22.00
		1	24	20.61	20.63	20.40	22.00
		12	0	20.71	20.78	20.88	22.00
		12	6	20.72	20.78	20.59	22.00
		12	13	20.75	20.86	20.67	22.00
		25	0	20.74	20.79	20.71	22.00
	16QAM	1	0	20.77	21.07	20.68	22.00
		1	13	20.67	21.04	20.84	22.00
		1	24	20.65	20.98	20.64	22.00
		12	0	20.08	20.38	20.37	22.00
		12	6	20.26	20.34	20.07	22.00
		12	13	20.09	20.21	20.05	22.00
		25	0	20.14	20.38	20.15	22.00
	64QAM	1	0	20.97	20.82	20.74	22.00
		1	13	20.97	20.87	20.58	22.00
		1	24	20.71	20.73	20.27	22.00
		12	0	20.33	20.18	19.96	21.00
		12	6	20.29	20.17	19.93	21.00
		12	13	20.33	20.21	19.85	21.00
		25	0	20.33	20.26	19.91	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	20.83	20.79	20.82	22.00
		1	25	20.72	20.64	20.97	22.00
		1	49	20.55	20.75	20.52	22.00
		25	0	20.90	20.78	20.93	22.00
		25	13	20.65	20.74	20.97	22.00
		25	25	20.68	20.71	20.69	22.00
		50	0	20.72	20.75	20.71	22.00
	16QAM	1	0	20.50	21.17	20.82	22.00
		1	25	20.57	20.27	20.55	22.00
		1	49	20.33	21.02	20.86	22.00
		25	0	20.12	20.09	20.44	22.00
		25	13	20.04	20.08	20.52	22.00
		25	25	20.18	20.08	20.15	22.00
		50	0	20.06	20.09	20.20	22.00
	64QAM	1	0	20.89	20.83	20.85	22.00
		1	25	20.55	20.64	20.45	22.00
		1	49	20.64	20.73	20.28	22.00
		25	0	20.32	20.15	20.22	21.00
		25	13	20.12	20.24	20.14	21.00
		25	25	20.32	20.25	19.85	21.00
		50	0	20.28	20.22	20.09	21.00

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Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	20.74	20.84	21.11	22.00
		1	38	20.70	20.91	20.98	22.00
		1	74	20.74	20.72	20.65	22.00
		36	0	20.70	20.85	20.95	22.00
		36	18	20.71	20.75	20.78	22.00
		36	39	20.76	20.78	20.89	22.00
		75	0	20.76	20.81	20.98	22.00
	16QAM	1	0	20.66	21.03	20.41	22.00
		1	38	21.04	21.09	20.96	22.00
		1	74	21.07	20.77	20.98	22.00
		36	0	20.16	20.20	20.35	22.00
		36	18	20.20	20.22	20.29	22.00
		36	39	20.21	20.18	20.43	22.00
		75	0	20.15	20.24	20.44	22.00
	64QAM	1	0	21.04	20.77	21.05	22.00
		1	38	20.82	20.73	20.74	22.00
		1	74	20.60	20.67	20.53	22.00
		36	0	20.17	20.17	20.40	21.00
		36	18	20.20	20.22	20.15	21.00
		36	39	20.14	20.21	20.14	21.00
		75	0	20.24	20.23	20.27	21.00

Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	**20.73**	20.73	**20.89**	22.00
		1	50	20.60	20.53	20.76	22.00
		1	99	20.70	**20.87**	20.60	22.00
		50	0	**20.70**	20.58	**21.04**	22.00
		50	25	20.63	20.67	20.93	22.00
		50	50	20.67	**20.77**	20.70	22.00
		100	0	20.77	20.76	**21.00**	22.00
	16QAM	1	0	20.79	20.86	20.83	22.00
		1	50	20.70	20.52	20.66	22.00
		1	99	21.21	20.81	20.77	22.00
		50	0	20.07	20.21	20.54	22.00
		50	25	20.16	20.22	20.00	22.00
		50	50	20.04	20.26	20.03	22.00
		100	0	20.13	20.29	20.41	22.00
	64QAM	1	0	20.92	20.92	20.84	22.00
		1	50	20.51	20.54	20.58	22.00
		1	99	20.72	21.00	20.33	22.00
		50	0	20.22	20.18	20.61	21.00
		50	25	20.15	20.16	20.11	21.00
		50	50	19.98	20.27	20.07	21.00
		100	0	20.30	20.28	20.24	21.00

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LTE Band 5 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	23.21	23.19	23.19	24.00
		1	2	23.01	22.78	22.81	24.00
		1	5	23.19	23.19	23.16	24.00
		3	0	22.95	23.07	23.00	24.00
		3	2	22.97	22.77	22.94	24.00
		3	3	23.09	23.12	23.03	24.00
		6	0	22.13	22.05	22.16	23.00
	16QAM	1	0	22.43	22.45	22.31	23.00
		1	2	22.12	22.25	22.15	23.00
		1	5	22.42	22.38	22.42	23.00
		3	0	22.12	22.11	22.17	23.00
		3	2	22.25	21.85	22.15	23.00
		3	3	22.07	22.13	22.11	23.00
		6	0	21.09	21.08	21.19	22.00
	64QAM	1	0	21.29	21.28	21.22	22.00
		1	2	21.04	20.86	20.83	22.00
		1	5	21.22	21.25	21.16	22.00
		3	0	21.05	21.09	21.03	22.00
		3	2	20.98	20.80	21.00	22.00
		3	3	21.18	21.15	21.06	22.00
		6	0	20.14	20.07	20.22	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	23.18	23.17	23.25	24.00
		1	7	22.84	23.09	23.17	24.00
		1	14	23.22	23.18	23.19	24.00
		8	0	22.14	22.10	22.13	23.00
		8	4	22.08	22.11	22.09	23.00
		8	7	22.09	22.15	22.13	23.00
		15	0	22.16	22.16	22.21	23.00
	16QAM	1	0	22.38	22.32	22.39	23.00
		1	7	22.26	22.09	22.05	23.00
		1	14	22.35	22.45	22.28	23.00
		8	0	20.99	21.01	20.89	22.00
		8	4	21.11	21.07	21.08	22.00
		8	7	21.13	21.13	21.03	22.00
		15	0	21.07	21.14	21.07	22.00
	64QAM	1	0	21.18	21.21	21.33	22.00
		1	7	20.87	21.15	21.19	22.00
		1	14	21.28	21.21	21.25	22.00
		8	0	20.14	20.18	20.20	21.00
		8	4	20.17	20.14	20.09	21.00
		8	7	20.11	20.23	20.17	21.00

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		15	0	20.21	20.22	20.29	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625	Tune up
5MHz	QPSK	1	0	23.18	23.21	23.29	24.00
		1	13	23.23	23.23	23.25	24.00
		1	24	23.19	23.16	23.19	24.00
		12	0	22.24	22.20	22.25	23.00
		12	6	22.12	22.09	22.16	23.00
		12	13	22.22	22.24	22.23	23.00
		25	0	22.18	22.19	22.14	23.00
	16QAM	1	0	22.44	22.37	22.35	23.00
		1	13	22.42	22.41	22.33	23.00
		1	24	22.36	22.33	22.38	23.00
		12	0	21.15	21.11	21.17	22.00
		12	6	21.06	21.09	21.14	22.00
		12	13	21.13	21.14	21.15	22.00
		25	0	21.08	21.11	21.12	22.00
	64QAM	1	0	21.28	21.29	21.35	22.00
		1	13	21.29	21.24	21.26	22.00
		1	24	21.21	21.22	21.26	22.00
		12	0	20.31	20.27	20.33	21.00
		12	6	20.18	20.12	20.22	21.00
		12	13	20.25	20.33	20.28	21.00
		25	0	20.22	20.23	20.22	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	**23.31**	**23.29**	**23.25**	24.00
		1	25	23.09	22.92	23.00	24.00
		1	49	23.30	23.24	23.21	24.00
		25	0	**22.25**	22.24	22.23	23.00
		25	13	22.15	22.22	22.20	23.00
		25	25	22.22	22.15	22.18	23.00
		50	0	22.21	22.19	22.19	23.00
	16QAM	1	0	22.47	22.46	22.43	23.00
		1	25	22.31	22.31	22.27	23.00
		1	49	22.42	22.45	22.36	23.00
		25	0	21.17	21.17	21.13	22.00
		25	13	21.16	21.14	21.10	22.00
		25	25	21.13	21.17	21.14	22.00
		50	0	21.12	21.12	21.14	22.00
	64QAM	1	0	21.31	21.38	21.29	22.00
		1	25	21.15	20.97	21.03	22.00
		1	49	21.34	21.27	21.25	22.00
		25	0	20.25	20.25	20.28	21.00
		25	13	20.19	20.30	20.22	21.00
		25	25	20.27	20.18	20.27	21.00
		50	0	20.24	20.28	20.22	21.00

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LTE Band 7 Head Scene(receiver on)+SAR sensor off Body Scene(SAR sensor on Level D2&D3)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	21.89	21.74	21.55	22.60
		1	13	21.96	21.92	21.40	22.60
		1	24	21.93	21.79	21.26	22.60
		12	0	20.77	20.39	19.92	21.60
		12	6	20.86	20.49	19.86	21.60
		12	13	20.66	20.59	19.96	21.60
		25	0	20.67	20.53	19.96	21.60
	16QAM	1	0	21.47	21.27	20.82	21.60
		1	13	21.51	21.26	20.67	21.60
		1	24	21.37	21.06	20.54	21.60
		12	0	20.13	20.07	19.51	20.60
		12	6	20.15	20.08	19.48	20.60
		12	13	20.10	20.03	19.39	20.60
		25	0	20.07	19.92	19.47	20.60
	64QAM	1	0	20.46	20.11	20.04	20.60
		1	13	20.36	20.18	20.50	20.60
		1	24	20.13	20.25	20.52	20.60
		12	0	19.54	19.41	19.16	19.60
		12	6	19.52	19.21	19.24	19.60
		12	13	19.24	19.57	19.05	19.60
		25	0	19.54	19.23	19.21	19.60
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	21.32	21.27	21.03	22.60
		1	25	21.97	21.82	21.32	22.60
		1	49	21.25	21.01	20.71	22.60
		25	0	20.73	20.51	20.27	21.60
		25	13	20.63	20.48	20.19	21.60
		25	25	20.57	20.58	19.93	21.60
		50	0	20.86	20.54	20.18	21.60
	16QAM	1	0	20.77	20.60	20.35	21.60
		1	25	21.28	21.14	20.62	21.60
		1	49	20.55	20.55	19.94	21.60
		25	0	20.16	20.00	19.77	20.60
		25	13	20.13	19.91	19.63	20.60
		25	25	20.09	20.04	19.51	20.60
		50	0	20.14	19.96	19.72	20.60
	64QAM	1	0	20.12	20.12	20.23	20.60
		1	25	20.43	20.43	20.24	20.60
		1	49	20.04	20.29	19.65	20.60
		25	0	19.26	19.54	19.25	19.60
		25	13	19.34	19.36	19.35	19.60

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		25	25	19.26	19.31	19.13	19.60
		50	0	19.16	19.26	19.29	19.60
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	21.44	21.25	21.33	22.60
		1	38	21.97	21.96	21.63	22.60
		1	74	21.96	21.94	21.43	22.60
		36	0	20.75	20.47	20.32	21.60
		36	18	20.78	20.43	20.25	21.60
		36	39	20.73	20.62	20.15	21.60
		75	0	20.69	20.58	20.31	21.60
	16QAM	1	0	20.68	20.44	20.55	21.60
		1	38	21.54	21.32	20.99	21.60
		1	74	21.16	21.33	20.56	21.60
		36	0	20.34	20.05	19.84	20.60
		36	18	20.07	19.90	19.82	20.60
		36	39	20.00	19.99	19.56	20.60
		75	0	20.21	19.92	19.90	20.60
	64QAM	1	0	20.16	20.17	20.12	20.60
		1	38	20.21	20.14	20.46	20.60
		1	74	20.34	20.16	20.23	20.60
		36	0	19.21	19.44	19.26	19.60
		36	18	19.42	19.46	19.34	19.60
		36	39	19.52	19.44	19.30	19.60
		75	0	19.46	19.31	19.26	19.60
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	21.74	21.49	21.54	22.60
		1	50	**21.98**	**21.78**	**21.64**	22.60
		1	99	21.36	21.44	20.92	22.60
		50	0	**20.75**	20.53	20.63	21.60
		50	25	20.65	20.50	20.40	21.60
		50	50	20.67	20.59	20.20	21.60
		100	0	21.03	20.56	20.60	21.60
	16QAM	1	0	21.16	20.61	20.86	21.60
		1	50	21.20	21.10	20.77	21.60
		1	99	20.61	20.83	20.31	21.60
		50	0	20.33	20.01	20.07	20.60
		50	25	20.08	19.94	19.91	20.60
		50	50	20.16	20.15	19.71	20.60
		100	0	20.21	20.02	19.79	20.60
	64QAM	1	0	20.49	20.48	20.49	20.60
		1	50	20.31	20.25	20.05	20.60
		1	99	20.31	20.00	19.65	20.60
		50	0	19.21	19.23	19.45	19.60
		50	25	19.26	19.28	19.26	19.60
		50	50	19.34	19.35	19.52	19.60

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		100	0	19.26	19.59	19.42	19.60

LTE Band 7 Body Scene(0mm SAR sensor on Level D0)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	18.73	18.79	18.48	19.60
		1	13	18.86	18.76	18.36	19.60
		1	24	18.55	18.68	18.25	19.60
		12	0	18.78	18.85	18.45	19.60
		12	6	18.78	18.77	18.27	19.60
		12	13	18.73	18.88	18.16	19.60
		25	0	18.74	18.79	18.28	19.60
	16QAM	1	0	19.13	19.21	18.58	19.60
		1	13	19.14	19.16	18.04	19.60
		1	24	19.10	18.71	18.40	19.60
		12	0	18.69	18.95	18.47	19.60
		12	6	18.85	18.97	18.37	19.60
		12	13	18.80	18.69	18.35	19.60
		25	0	18.71	18.79	17.93	19.60
	64QAM	1	0	18.20	18.82	18.34	19.60
		1	13	19.09	18.61	18.49	19.60
		1	24	19.09	18.88	18.17	19.60
		12	0	18.79	19.21	18.60	19.60
		12	6	18.86	19.05	18.42	19.60
		12	13	18.86	18.85	18.14	19.60
		25	0	18.79	18.88	18.23	19.60
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	18.12	18.27	17.87	19.60
		1	25	19.00	18.51	17.61	19.60
		1	49	17.80	17.82	17.46	19.60
		25	0	18.79	18.92	18.76	19.60
		25	13	18.73	18.96	18.29	19.60
		25	25	18.70	18.98	18.19	19.60
		50	0	18.75	18.92	18.49	19.60
	16QAM	1	0	18.27	18.28	18.24	19.60
		1	25	19.20	19.22	17.64	19.60
		1	49	18.21	18.34	17.53	19.60
		25	0	18.79	18.67	18.71	19.60
		25	13	18.68	18.74	18.27	19.60
		25	25	18.69	18.81	18.18	19.60
		50	0	18.73	18.68	18.52	19.60
	64QAM	1	0	17.75	18.54	17.94	19.60
		1	25	18.70	19.30	18.18	19.60
		1	49	17.85	17.99	17.59	19.60
		25	0	18.95	18.83	18.78	19.60
		25	13	18.62	18.97	18.20	19.60

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		25	25	18.47	19.06	18.37	19.60
		50	0	18.93	18.90	18.66	19.60
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	18.23	18.27	18.08	19.60
		1	38	18.54	19.01	18.35	19.60
		1	74	18.68	18.68	18.04	19.60
		36	0	18.84	18.84	18.58	19.60
		36	18	18.75	18.75	18.50	19.60
		36	39	18.40	18.81	18.24	19.60
		75	0	18.81	18.86	18.63	19.60
	16QAM	1	0	18.34	18.55	18.62	19.60
		1	38	19.19	19.21	18.84	19.60
		1	74	18.95	18.79	18.73	19.60
		36	0	18.75	18.88	18.51	19.60
		36	18	18.68	18.67	18.44	19.60
		36	39	18.75	18.76	18.22	19.60
		75	0	18.75	18.65	18.68	19.60
	64QAM	1	0	18.50	18.04	18.31	19.60
		1	38	19.11	19.25	19.02	19.60
		1	74	18.67	18.93	18.64	19.60
		36	0	19.08	19.14	18.96	19.60
		36	18	18.60	18.70	18.39	19.60
		36	39	18.45	18.93	18.21	19.60
		75	0	18.81	18.75	18.76	19.60
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	18.21	18.44	18.55	19.60
		1	50	18.44	**19.21**	18.10	19.60
		1	99	18.17	18.22	17.74	19.60
		50	0	18.85	19.00	**19.31**	19.60
		50	25	18.47	18.97	18.58	19.60
		50	50	18.74	19.00	18.13	19.60
		100	0	18.78	18.58	18.73	19.60
	16QAM	1	0	19.00	18.64	18.57	19.60
		1	50	19.00	18.23	18.43	19.60
		1	99	18.36	18.31	17.68	19.60
		50	0	18.83	18.90	18.93	19.60
		50	25	18.69	18.82	18.81	19.60
		50	50	18.83	18.86	18.20	19.60
		100	0	18.91	18.56	18.89	19.60
	64QAM	1	0	18.51	18.53	18.74	19.60
		1	50	18.48	18.84	18.60	19.60
		1	99	18.36	18.15	17.84	19.60
		50	0	18.91	18.84	19.05	19.60
		50	25	18.56	18.70	18.78	19.60
		50	50	18.82	18.83	18.63	19.60

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		100	0	18.85	18.79	18.79	19.60

LTE Band 7 Body Scene(SAR sensor on Level D1)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	20.77	20.72	20.45	21.60
		1	13	21.01	20.62	20.27	21.60
		1	24	20.54	20.65	20.12	21.60
		12	0	20.49	20.33	19.74	21.60
		12	6	20.50	20.22	19.80	21.60
		12	13	20.44	20.26	19.79	21.60
		25	0	20.44	20.15	19.76	21.60
	16QAM	1	0	20.37	20.37	20.34	21.60
		1	13	20.42	20.40	20.59	21.60
		1	24	20.37	20.33	20.10	21.60
		12	0	19.88	19.71	19.33	20.60
		12	6	19.97	20.10	18.98	20.60
		12	13	19.52	19.57	19.12	20.60
		25	0	19.99	19.62	19.05	20.60
	64QAM	1	0	20.46	20.11	20.04	20.60
		1	13	20.36	20.18	20.50	20.60
		1	24	20.13	20.25	20.52	20.60
		12	0	19.54	19.41	19.16	19.60
		12	6	19.52	19.21	19.24	19.60
		12	13	19.24	19.57	19.05	19.60
		25	0	19.54	19.23	19.21	19.60
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	20.12	20.19	19.83	21.60
		1	25	20.11	20.76	20.33	21.60
		1	49	19.88	19.83	19.36	21.60
		25	0	20.42	20.37	20.14	21.60
		25	13	20.39	20.39	19.79	21.60
		25	25	19.94	20.32	19.70	21.60
		50	0	20.45	20.31	19.96	21.60
	16QAM	1	0	20.35	20.42	20.23	21.60
		1	25	20.93	20.33	19.77	21.60
		1	49	19.56	20.42	19.46	21.60
		25	0	19.86	19.68	19.56	20.60
		25	13	19.71	19.90	19.27	20.60
		25	25	19.77	19.80	19.22	20.60
		50	0	19.82	19.74	19.42	20.60
	64QAM	1	0	20.12	20.12	20.23	20.60
		1	25	20.43	20.43	20.24	20.60
		1	49	20.04	20.29	19.65	20.60
		25	0	19.26	19.54	19.25	19.60

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		25	13	19.34	19.36	19.35	19.60
		25	25	19.26	19.31	19.13	19.60
		50	0	19.16	19.26	19.29	19.60
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	20.26	20.42	20.26	21.60
		1	38	20.93	20.64	20.34	21.60
		1	74	20.17	20.69	20.10	21.60
		36	0	20.76	20.32	20.20	21.60
		36	18	20.37	20.20	19.94	21.60
		36	39	20.02	20.21	19.86	21.60
		75	0	20.40	20.30	19.87	21.60
	16QAM	1	0	20.22	20.48	20.89	21.60
		1	38	20.99	20.96	20.69	21.60
		1	74	20.88	20.98	20.38	21.60
		36	0	19.81	19.72	19.67	20.60
		36	18	19.91	19.85	19.47	20.60
		36	39	19.73	19.68	19.27	20.60
		75	0	19.84	19.74	19.59	20.60
	64QAM	1	0	20.16	20.17	20.12	20.60
		1	38	20.21	20.14	20.46	20.60
		1	74	20.34	20.16	20.23	20.60
		36	0	19.21	19.44	19.26	19.60
		36	18	19.42	19.46	19.34	19.60
		36	39	19.52	19.44	19.30	19.60
		75	0	19.46	19.31	19.26	19.60
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	20.45	20.04	20.23	21.60
		1	50	**20.55**	**20.74**	**20.24**	21.60
		1	99	19.89	19.87	19.60	21.60
		50	0	**20.67**	20.24	20.51	21.60
		50	25	20.08	20.19	20.12	21.60
		50	50	20.41	20.19	19.83	21.60
		100	0	20.50	20.49	20.00	21.60
	16QAM	1	0	20.95	20.63	20.02	21.60
		1	50	21.05	21.01	19.62	21.60
		1	99	20.47	20.29	19.40	21.60
		50	0	20.06	19.83	19.64	20.60
		50	25	19.41	19.71	19.67	20.60
		50	50	19.74	19.83	19.45	20.60
		100	0	19.90	19.75	19.80	20.60
	64QAM	1	0	20.49	20.48	20.49	20.60
		1	50	20.31	20.25	20.05	20.60
		1	99	20.31	20.00	19.65	20.60
		50	0	19.21	19.23	19.45	19.60
		50	25	19.26	19.28	19.26	19.60

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		50	50	19.34	19.35	19.52	19.60
		100	0	19.26	19.59	19.42	19.60

LTE Band 7 Wifi Hotspot on(10mm SAR sensor off)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	17.79	17.84	17.47	18.60
		1	13	17.66	17.57	17.06	18.60
		1	24	17.66	17.36	17.04	18.60
		12	0	17.60	17.57	17.32	18.60
		12	6	17.68	17.53	17.20	18.60
		12	13	17.63	17.55	17.02	18.60
		25	0	17.49	17.50	17.10	18.60
	16QAM	1	0	17.79	17.83	17.19	18.60
		1	13	17.88	17.77	17.70	18.60
		1	24	17.94	17.84	17.40	18.60
		12	0	17.69	17.41	17.18	18.60
		12	6	17.60	17.42	17.12	18.60
		12	13	17.54	17.44	17.09	18.60
		25	0	17.50	17.46	17.14	18.60
	64QAM	1	0	17.85	17.89	17.88	18.60
		1	13	17.76	17.94	17.38	18.60
		1	24	17.64	17.95	17.37	18.60
		12	0	17.61	17.84	17.54	18.60
		12	6	17.60	17.85	17.25	18.60
		12	13	17.56	17.82	16.92	18.60
		25	0	17.59	17.76	17.43	18.60
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	17.04	17.04	16.64	18.60
		1	25	17.12	17.50	17.38	18.60
		1	49	16.93	16.65	17.02	18.60
		25	0	17.64	17.45	17.40	18.60
		25	13	17.63	17.52	17.42	18.60
		25	25	17.59	17.56	16.89	18.60
		50	0	17.77	17.47	17.40	18.60
	16QAM	1	0	17.15	17.45	17.12	18.60
		1	25	17.74	17.74	17.93	18.60
		1	49	16.87	17.08	17.03	18.60
		25	0	17.46	17.54	17.46	18.60
		25	13	17.59	17.55	17.19	18.60
		25	25	17.52	17.56	16.96	18.60
		50	0	17.50	17.61	17.30	18.60
	64QAM	1	0	17.14	17.43	17.31	18.60
		1	25	17.76	17.62	17.66	18.60
		1	49	16.69	17.11	16.67	18.60

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		25	0	17.81	17.96	17.69	18.60
		25	13	17.76	17.89	17.40	18.60
		25	25	17.33	17.77	17.35	18.60
		50	0	17.66	17.90	17.62	18.60
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	16.95	17.27	16.93	18.60
		1	38	17.96	17.50	17.25	18.60
		1	74	17.41	17.56	17.43	18.60
		36	0	17.56	17.59	17.62	18.60
		36	18	17.55	17.52	17.20	18.60
		36	39	17.58	17.58	17.37	18.60
		75	0	17.51	17.58	17.38	18.60
	16QAM	1	0	17.42	17.14	17.36	18.60
		1	38	17.72	17.87	17.13	18.60
		1	74	17.83	17.70	17.77	18.60
		36	0	17.86	17.56	17.52	18.60
		36	18	17.82	17.58	17.13	18.60
		36	39	17.51	17.47	17.23	18.60
		75	0	17.86	17.44	17.46	18.60
	64QAM	1	0	17.39	17.37	17.26	18.60
		1	38	17.88	17.75	17.82	18.60
		1	74	17.62	17.77	17.05	18.60
		36	0	17.77	17.79	17.82	18.60
		36	18	17.67	17.64	17.62	18.60
		36	39	17.44	17.70	17.27	18.60
		75	0	17.66	17.64	17.72	18.60
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	**17.22**	17.09	17.16	18.60
		1	50	16.90	17.03	17.20	18.60
		1	99	16.96	17.02	17.02	18.60
		50	0	17.60	17.66	17.69	18.60
		50	25	17.44	17.33	17.60	18.60
		50	50	17.98	17.85	17.19	18.60
		100	0	17.60	17.42	17.61	18.60
	16QAM	1	0	16.63	17.45	17.21	18.60
		1	50	17.85	17.61	17.40	18.60
		1	99	17.56	16.97	17.29	18.60
		50	0	17.72	17.62	17.57	18.60
		50	25	17.31	17.54	17.51	18.60
		50	50	17.74	17.67	17.16	18.60
		100	0	17.76	17.63	17.62	18.60
	64QAM	1	0	17.18	17.18	17.18	18.60
		1	50	17.18	17.18	17.18	18.60
		1	99	17.18	17.18	17.18	18.60
		50	0	17.18	17.18	17.18	18.60

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		50	25	17.18	17.18	17.18	18.60
		50	50	17.18	17.18	17.18	18.60
		100	0	17.18	17.18	17.18	18.60

LTE Band 7 SAR sensor on level D0 +Wifi Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	14.87	15.16	14.84	15.60
		1	13	14.91	15.17	14.62	15.60
		1	24	14.84	15.14	14.30	15.60
		12	0	14.85	15.29	14.80	15.60
		12	6	15.12	15.22	14.68	15.60
		12	13	15.10	15.23	14.35	15.60
		25	0	15.07	15.32	14.48	15.60
	16QAM	1	0	15.48	15.28	15.42	15.60
		1	13	15.38	15.16	14.59	15.60
		1	24	15.49	15.44	14.52	15.60
		12	0	15.10	15.29	14.79	15.60
		12	6	15.32	15.27	14.23	15.60
		12	13	15.10	15.23	14.55	15.60
		25	0	15.04	15.18	14.53	15.60
	64QAM	1	0	15.13	15.17	14.62	15.60
		1	13	15.14	15.10	14.79	15.60
		1	24	14.57	14.75	14.66	15.60
		12	0	15.19	15.13	14.79	15.60
		12	6	14.99	15.19	14.73	15.60
		12	13	14.95	15.12	14.74	15.60
		25	0	14.88	15.13	14.71	15.60
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	14.30	14.61	14.14	15.60
		1	25	14.86	14.91	14.33	15.60
		1	49	14.00	14.32	13.66	15.60
		25	0	15.13	15.14	15.02	15.60
		25	13	15.12	15.04	14.80	15.60
		25	25	15.08	15.21	14.75	15.60
		50	0	15.13	15.18	14.75	15.60
	16QAM	1	0	14.43	15.01	14.76	15.60
		1	25	15.04	15.26	14.89	15.60
		1	49	13.96	14.63	13.69	15.60
		25	0	15.14	15.03	14.90	15.60
		25	13	14.98	15.08	14.77	15.60
		25	25	15.01	15.09	14.39	15.60
		50	0	15.15	15.19	14.72	15.60
	64QAM	1	0	13.95	14.53	14.16	15.60
		1	25	15.12	15.17	14.78	15.60

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		1	49	13.87	14.19	13.90	15.60
		25	0	15.01	15.18	14.87	15.60
		25	13	15.06	14.85	14.81	15.60
		25	25	14.97	14.88	14.66	15.60
		50	0	14.98	15.17	14.72	15.60
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	14.34	14.63	14.75	15.60
		1	38	14.97	15.04	15.01	15.60
		1	74	14.67	15.12	14.36	15.60
		36	0	15.08	15.24	15.03	15.60
		36	18	15.10	15.20	14.71	15.60
		36	39	14.96	14.95	14.32	15.60
		75	0	14.99	14.95	14.92	15.60
	16QAM	1	0	14.60	14.86	14.99	15.60
		1	38	15.51	15.38	15.48	15.60
		1	74	15.44	15.19	14.66	15.60
		36	0	15.39	15.18	14.93	15.60
		36	18	14.99	15.11	14.84	15.60
		36	39	15.05	14.74	14.34	15.60
		75	0	14.84	14.86	14.89	15.60
	64QAM	1	0	14.97	14.88	15.03	15.60
		1	38	15.11	15.11	14.87	15.60
		1	74	15.18	14.87	15.02	15.60
		36	0	14.97	14.88	14.66	15.60
		36	18	15.07	14.93	14.98	15.60
		36	39	15.12	15.17	15.19	15.60
		75	0	15.08	15.12	15.01	15.60
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	14.53	14.61	14.61	15.60
		1	50	14.92	15.11	14.62	15.60
		1	99	14.19	14.35	13.86	15.60
		50	0	15.52	15.20	15.22	15.60
		50	25	14.94	15.16	14.98	15.60
		50	50	15.02	15.23	14.77	15.60
		100	0	15.15	15.22	15.08	15.60
	16QAM	1	0	14.92	14.76	14.91	15.60
		1	50	14.61	15.06	14.97	15.60
		1	99	14.92	14.15	14.25	15.60
		50	0	15.14	15.20	15.16	15.60
		50	25	14.78	15.05	14.90	15.60
		50	50	14.89	15.14	14.75	15.60
		100	0	15.14	14.88	14.86	15.60
	64QAM	1	0	14.86	14.80	14.91	15.60
		1	50	15.07	14.93	14.79	15.60
		1	99	14.33	14.22	13.99	15.60

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		50	0	15.07	15.13	15.12	15.60
		50	25	14.99	14.82	14.97	15.60
		50	50	14.88	15.21	14.84	15.60
		100	0	15.01	15.19	14.99	15.60

LTE Band 7 SAR sensor on level D1+Wifi Hotspot on				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	16.78	16.75	16.47	17.60
		1	13	16.87	16.79	15.90	17.60
		1	24	16.49	16.26	16.03	17.60
		12	0	16.89	16.82	16.23	17.60
		12	6	16.79	16.90	16.03	17.60
		12	13	16.88	16.81	16.17	17.60
		25	0	16.85	16.78	16.14	17.60
	16QAM	1	0	17.04	17.02	16.64	17.60
		1	13	17.03	16.70	16.57	17.60
		1	24	16.93	16.62	16.17	17.60
		12	0	16.89	16.86	16.11	17.60
		12	6	16.87	16.62	16.08	17.60
		12	13	16.48	16.66	15.88	17.60
		25	0	16.32	16.55	16.19	17.60
	64QAM	1	0	16.39	16.42	16.46	17.60
		1	13	16.31	16.38	16.25	17.60
		1	24	16.56	16.26	16.41	17.60
		12	0	16.49	16.56	16.43	17.60
		12	6	16.32	16.58	16.25	17.60
		12	13	16.31	16.41	16.35	17.60
		25	0	16.37	16.47	16.37	17.60
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	15.92	16.17	15.76	17.60
		1	25	16.19	16.20	16.38	17.60
		1	49	15.73	15.96	15.96	17.60
		25	0	16.59	16.61	16.66	17.60
		25	13	16.67	16.68	16.11	17.60
		25	25	16.62	16.66	16.00	17.60
		50	0	16.68	16.61	16.45	17.60
	16QAM	1	0	15.91	16.32	16.25	17.60
		1	25	16.54	17.10	16.57	17.60
		1	49	16.11	16.16	16.03	17.60
		25	0	16.65	16.51	16.42	17.60
		25	13	16.62	16.61	16.00	17.60
		25	25	16.60	16.58	16.29	17.60
		50	0	16.64	16.61	16.24	17.60
	64QAM	1	0	16.28	16.52	15.94	17.60

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		1	25	16.51	16.29	16.42	17.60
		1	49	16.14	16.04	15.90	17.60
		25	0	16.51	16.53	16.50	17.60
		25	13	16.47	16.43	16.47	17.60
		25	25	16.55	16.42	16.43	17.60
		50	0	16.51	16.41	16.26	17.60
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	15.94	16.17	15.92	17.60
		1	38	16.83	16.65	16.51	17.60
		1	74	16.74	16.68	16.07	17.60
		36	0	16.75	16.76	16.57	17.60
		36	18	16.68	16.64	16.48	17.60
		36	39	16.69	16.74	16.19	17.60
		75	0	16.74	16.63	16.52	17.60
	16QAM	1	0	16.11	16.18	16.08	17.60
		1	38	16.61	17.06	16.82	17.60
		1	74	16.89	16.81	16.46	17.60
		36	0	16.93	16.66	16.62	17.60
		36	18	16.55	16.57	16.05	17.60
		36	39	16.81	16.56	16.10	17.60
		75	0	16.76	16.57	16.58	17.60
	64QAM	1	0	15.95	16.12	16.18	17.60
		1	38	16.56	16.21	16.27	17.60
		1	74	16.14	16.25	16.41	17.60
		36	0	16.34	16.50	16.43	17.60
		36	18	16.13	15.88	16.26	17.60
		36	39	15.95	16.04	16.12	17.60
		75	0	15.99	16.25	16.38	17.60
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	16.18	16.28	16.27	17.60
		1	50	17.11	16.99	16.61	17.60
		1	99	15.96	16.03	15.68	17.60
		50	0	16.90	16.87	16.81	17.60
		50	25	16.47	16.44	16.37	17.60
		50	50	16.82	16.68	16.51	17.60
		100	0	16.77	16.62	16.60	17.60
	16QAM	1	0	16.93	16.08	15.96	17.60
		1	50	16.99	16.63	16.24	17.60
		1	99	16.06	16.33	16.07	17.60
		50	0	16.79	16.38	16.61	17.60
		50	25	16.35	16.41	16.64	17.60
		50	50	16.65	16.76	16.27	17.60
		100	0	16.65	16.61	16.66	17.60
	64QAM	1	0	16.56	16.27	16.54	17.60
		1	50	16.24	16.21	16.52	17.60

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		1	99	16.39	15.64	16.02	17.60
		50	0	16.43	16.45	16.53	17.60
		50	25	15.94	16.33	16.39	17.60
		50	50	16.31	16.38	15.88	17.60
		100	0	16.37	16.33	16.41	17.60

LTE Band 12 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
1.4MHz	QPSK	1	0	23.49	23.29	23.43	24.00
		1	2	23.12	23.11	23.08	24.00
		1	5	23.48	23.20	23.46	24.00
		3	0	23.42	23.20	23.35	24.00
		3	2	23.42	23.01	23.22	24.00
		3	3	23.37	23.23	23.30	24.00
		6	0	22.48	22.20	22.36	23.00
	16QAM	1	0	22.75	22.54	22.60	23.00
		1	2	22.47	22.50	22.34	23.00
		1	5	22.75	22.51	22.74	23.00
		3	0	22.44	22.21	22.38	23.00
		3	2	22.32	22.14	22.40	23.00
		3	3	22.28	22.10	22.36	23.00
		6	0	21.34	21.02	21.34	22.00
	64QAM	1	0	21.50	21.38	21.49	22.00
		1	2	21.20	21.19	21.09	22.00
		1	5	21.57	21.24	21.51	22.00
		3	0	21.49	21.29	21.35	22.00
		3	2	21.47	21.02	21.26	22.00
		3	3	21.42	21.23	21.31	22.00
		6	0	20.53	20.24	20.38	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23025	Channel 23095	Channel 23165	Tune up
3MHz	QPSK	1	0	23.59	23.39	23.47	24.00
		1	7	23.13	22.72	23.12	24.00
		1	14	23.58	23.35	23.49	24.00
		8	0	22.31	22.21	22.29	23.00
		8	4	22.33	22.07	22.30	23.00
		8	7	22.38	22.19	22.29	23.00
		15	0	22.48	22.21	22.34	23.00
	16QAM	1	0	22.56	22.52	22.50	23.00
		1	7	22.45	21.87	21.92	23.00
		1	14	22.70	22.51	22.68	23.00
		8	0	21.24	21.12	21.15	22.00
		8	4	21.38	21.19	21.37	22.00
		8	7	21.33	21.20	21.29	22.00
		15	0	21.35	21.17	21.28	22.00

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	64QAM	1	0	21.65	21.41	21.50	22.00
		1	7	21.16	20.72	21.18	22.00
		1	14	21.61	21.40	21.57	22.00
		8	0	20.33	20.29	20.31	21.00
		8	4	20.35	20.08	20.32	21.00
		8	7	20.41	20.25	20.30	21.00
		15	0	20.53	20.25	20.41	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23035	23095	23155	
5MHz	QPSK	1	0	23.50	23.41	23.53	24.00
		1	13	23.52	23.27	23.44	24.00
		1	24	23.67	23.42	23.53	24.00
		12	0	22.41	22.35	22.37	23.00
		12	6	22.39	22.19	22.31	23.00
		12	13	22.43	22.32	22.40	23.00
		25	0	22.41	22.20	22.34	23.00
	16QAM	1	0	22.62	22.60	22.67	23.00
		1	13	22.62	22.44	22.63	23.00
		1	24	22.60	22.66	22.70	23.00
		12	0	21.41	21.31	21.34	22.00
		12	6	21.36	21.10	21.24	22.00
		12	13	21.40	21.30	21.41	22.00
		25	0	21.36	21.11	21.31	22.00
	64QAM	1	0	21.52	21.44	21.60	22.00
		1	13	21.57	21.27	21.47	22.00
		1	24	21.61	21.45	21.60	22.00
		12	0	20.46	20.42	20.41	21.00
		12	6	20.42	20.23	20.36	21.00
		12	13	20.48	20.34	20.44	21.00
		25	0	20.43	20.21	20.36	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23060	23095	23130	
10MHz	QPSK	1	0	23.61	23.59	23.44	24.00
		1	25	23.05	22.84	23.11	24.00
		1	49	**23.66**	**23.62**	**23.62**	24.00
		25	0	**22.51**	22.44	22.46	23.00
		25	13	22.49	22.30	22.43	23.00
		25	25	22.37	22.41	22.45	23.00
		50	0	22.43	22.29	22.47	23.00
	16QAM	1	0	22.66	22.68	22.51	23.00
		1	25	22.70	22.56	22.73	23.00
		1	49	22.61	22.72	22.74	23.00
		25	0	21.45	21.35	21.27	22.00
		25	13	21.48	21.25	21.39	22.00
		25	25	21.31	21.37	21.42	22.00
		50	0	21.38	21.23	21.41	22.00
	64QAM	1	0	21.64	21.65	21.48	22.00

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		1	25	21.12	20.93	21.15	22.00
		1	49	21.68	21.70	21.68	22.00
		25	0	20.58	20.44	20.52	21.00
		25	13	20.51	20.32	20.44	21.00
		25	25	20.41	20.44	20.49	21.00
		50	0	20.52	20.31	20.56	21.00

LTE Band 17 Full power				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up
5MHz	QPSK	1	0	23.44	23.39	23.37	24.00
		1	13	23.40	23.49	23.37	24.00
		1	24	23.33	23.37	23.40	24.00
		12	0	22.05	22.09	22.01	23.00
		12	6	22.02	22.01	22.00	23.00
		12	13	22.02	22.05	22.05	23.00
		25	0	22.03	22.04	21.93	23.00
	16QAM	1	0	22.57	22.40	22.51	23.00
		1	13	22.45	22.52	22.47	23.00
		1	24	22.61	22.50	22.52	23.00
		12	0	21.27	21.22	21.15	22.00
		12	6	21.18	21.16	21.18	22.00
		12	13	21.25	21.27	21.22	22.00
		25	0	21.19	21.17	21.18	22.00
	64QAM	1	0	21.47	21.46	21.40	22.00
		1	13	21.49	21.55	21.39	22.00
		1	24	21.40	21.44	21.48	22.00
		12	0	20.10	20.18	20.06	21.00
		12	6	20.09	20.06	20.07	21.00
		12	13	20.08	20.09	20.06	21.00
		25	0	20.11	20.13	19.94	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800	Tune up
10MHz	QPSK	1	0	**23.66**	**23.54**	**23.56**	24.00
		1	25	23.01	23.03	23.21	24.00
		1	49	23.44	23.44	23.53	24.00
		25	0	22.15	22.17	22.12	23.00
		25	13	22.12	22.12	22.12	23.00
		25	25	**22.19**	22.17	22.14	23.00
		50	0	22.10	22.13	22.12	23.00
	16QAM	1	0	22.66	22.58	22.50	23.00
		1	25	22.41	22.52	22.45	23.00
		1	49	22.62	22.62	22.71	23.00
		25	0	21.31	21.33	21.31	22.00
		25	13	21.33	21.37	21.33	22.00
		25	25	21.35	21.34	21.35	22.00

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		50	0	21.31	21.30	21.32	22.00
	64QAM	1	0	21.71	21.59	21.60	22.00
		1	25	21.03	21.06	21.27	22.00
		1	49	21.53	21.45	21.62	22.00
		25	0	20.19	20.18	20.15	21.00
		25	13	20.15	20.19	20.14	21.00
		25	25	20.20	20.20	20.14	21.00
		50	0	20.10	20.14	20.21	21.00

LTE Band 26 Full power				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 26697	Channel 26865	Channel 27033	Tune up
1.4MHz	QPSK	1	0	23.26	23.19	23.21	24.00
		1	2	22.83	22.95	22.96	24.00
		1	5	23.23	23.18	23.19	24.00
		3	0	23.14	23.07	23.16	24.00
		3	2	23.17	23.16	23.14	24.00
		3	3	23.15	23.10	23.11	24.00
		6	0	22.11	22.15	22.15	23.00
	16QAM	1	0	22.54	22.49	22.38	23.00
		1	2	22.27	22.24	22.33	23.00
		1	5	22.45	22.38	22.47	23.00
		3	0	22.05	22.02	22.04	23.00
		3	2	22.19	22.11	22.09	23.00
		3	3	22.15	22.07	22.03	23.00
		6	0	21.14	20.97	21.07	22.00
	64QAM	1	0	21.36	21.27	21.28	22.00
		1	2	20.84	21.02	21.03	22.00
		1	5	21.29	21.22	21.26	22.00
		3	0	21.16	21.15	21.23	22.00
		3	2	21.22	21.19	21.16	22.00
		3	3	21.24	21.16	21.11	22.00
		6	0	20.20	20.20	20.21	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26705	Channel 26865	Channel 27025	Tune up
3MHz	QPSK	1	0	23.27	23.23	23.24	24.00
		1	7	22.77	22.88	22.80	24.00
		1	14	23.22	23.25	23.26	24.00
		8	0	22.21	22.15	22.13	23.00
		8	4	22.12	22.18	22.14	23.00
		8	7	22.18	22.10	22.13	23.00
		15	0	22.19	22.18	22.22	23.00
	16QAM	1	0	22.38	22.44	22.42	23.00
		1	7	22.02	21.99	21.90	23.00
		1	14	22.44	22.41	22.40	23.00
		8	0	21.07	20.94	21.07	22.00

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		8	4	21.13	21.11	21.18	22.00
		8	7	21.12	21.06	21.14	22.00
		15	0	21.18	21.08	21.15	22.00
	64QAM	1	0	21.29	21.26	21.28	22.00
		1	7	20.81	20.91	20.87	22.00
		1	14	21.25	21.32	21.32	22.00
		8	0	20.27	20.21	20.18	21.00
		8	4	20.21	20.25	20.23	21.00
		8	7	20.22	20.14	20.15	21.00
		15	0	20.27	20.26	20.28	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26715	26865	27015	
5MHz	QPSK	1	0	23.30	23.22	23.26	24.00
		1	13	23.24	23.23	23.26	24.00
		1	24	23.24	23.27	23.27	24.00
		12	0	22.27	22.21	22.20	23.00
		12	6	22.23	22.16	22.16	23.00
		12	13	22.21	22.28	22.22	23.00
		25	0	22.19	22.16	22.16	23.00
	16QAM	1	0	22.48	22.39	22.39	23.00
		1	13	22.41	22.35	22.39	23.00
		1	24	22.46	22.38	22.44	23.00
		12	0	21.25	21.20	21.17	22.00
		12	6	21.13	21.09	21.13	22.00
		12	13	21.11	21.21	21.18	22.00
		25	0	21.11	21.14	21.11	22.00
	64QAM	1	0	21.39	21.28	21.35	22.00
		1	13	21.32	21.30	21.30	22.00
		1	24	21.30	21.33	21.34	22.00
		12	0	20.28	20.23	20.25	21.00
		12	6	20.26	20.16	20.18	21.00
		12	13	20.28	20.29	20.28	21.00
		25	0	20.20	20.24	20.23	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26740	26865	26990	
10MHz	QPSK	1	0	23.24	23.19	23.20	24.00
		1	25	22.94	22.86	22.80	24.00
		1	49	23.20	23.19	23.22	24.00
		25	0	22.20	22.22	22.20	23.00
		25	13	22.24	22.19	22.17	23.00
		25	25	22.25	22.19	22.20	23.00
		50	0	22.22	22.24	22.22	23.00
	16QAM	1	0	22.46	22.44	22.40	23.00
		1	25	22.37	22.32	22.03	23.00
		1	49	22.49	22.40	22.37	23.00
		25	0	21.11	21.12	21.08	22.00
		25	13	21.17	21.11	21.11	22.00

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		25	25	21.08	21.11	21.11	22.00
		50	0	21.12	21.09	21.11	22.00
	64QAM	1	0	21.32	21.23	21.27	22.00
		1	25	20.98	20.88	20.82	22.00
		1	49	21.20	21.23	21.24	22.00
		25	0	20.27	20.26	20.22	21.00
		25	13	20.34	20.21	20.20	21.00
		25	25	20.31	20.23	20.23	21.00
		50	0	20.24	20.33	20.27	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26765	Channel 26865	Channel 26965	Tune up
15MHz	QPSK	1	0	23.26	23.23	23.24	24.00
		1	38	**23.35**	**23.29**	**23.27**	24.00
		1	74	23.18	23.17	23.16	24.00
		36	0	22.29	22.31	22.25	23.00
		36	18	22.29	22.25	22.27	23.00
		36	39	**22.33**	22.32	22.28	23.00
		75	0	22.29	22.24	22.22	23.00
	16QAM	1	0	22.46	22.51	22.47	23.00
		1	38	22.58	22.54	22.49	23.00
		1	74	22.41	22.42	22.40	23.00
		36	0	21.20	21.25	21.21	22.00
		36	18	21.24	21.22	21.19	22.00
		36	39	21.20	21.23	21.22	22.00
		75	0	21.19	21.18	21.16	22.00
	64QAM	1	0	21.33	21.26	21.26	22.00
		1	38	21.40	21.36	21.32	22.00
		1	74	21.26	21.26	21.17	22.00
		36	0	20.36	20.33	20.28	21.00
		36	18	20.34	20.27	20.31	21.00
		36	39	20.42	20.41	20.34	21.00
		75	0	20.35	20.32	20.32	21.00

LTE Band 38 Head Scene(receiver on)+SAR sensor off Body Scene(SAR sensor on Level D1&D2&D3)				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	22.13	21.91	21.81	23.00
		1	13	22.08	21.86	21.88	23.00
		1	24	21.97	21.82	21.81	23.00
		12	0	21.10	20.93	20.84	22.00
		12	6	20.97	20.84	20.80	22.00
		12	13	20.99	20.84	20.76	22.00
		25	0	21.01	20.82	20.80	22.00
	16QAM	1	0	21.39	20.97	20.85	22.00
		1	13	21.20	20.92	20.82	22.00
		1	24	21.14	20.86	20.87	22.00

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		12	0	20.02	19.81	19.72	21.00
		12	6	20.11	19.73	19.67	21.00
		12	13	19.85	20.00	19.73	21.00
		25	0	19.89	19.99	19.72	21.00
	64QAM	1	0	20.79	20.60	20.42	21.00
		1	13	20.97	20.51	20.46	21.00
		1	24	20.49	20.46	20.48	21.00
		12	0	19.48	19.47	19.73	20.00
		12	6	19.98	19.85	19.22	20.00
		12	13	19.57	19.22	19.32	20.00
		25	0	19.41	19.38	19.36	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	21.39	21.19	21.28	23.00
		1	25	22.07	21.86	21.90	23.00
		1	49	21.19	21.23	21.06	23.00
		25	0	21.10	20.91	20.88	22.00
		25	13	20.99	20.93	20.86	22.00
		25	25	20.92	20.90	20.89	22.00
		50	0	20.98	20.95	20.88	22.00
	16QAM	1	0	20.49	20.41	20.26	22.00
		1	25	21.00	21.23	20.77	22.00
		1	49	20.35	20.17	20.16	22.00
		25	0	20.24	20.05	19.90	21.00
		25	13	19.89	19.94	19.88	21.00
		25	25	19.79	19.97	19.77	21.00
		50	0	19.86	19.96	19.86	21.00
	64QAM	1	0	20.01	20.08	20.03	21.00
		1	25	20.75	20.44	20.56	21.00
		1	49	19.86	19.68	19.85	21.00
		25	0	19.69	19.62	19.44	20.00
		25	13	19.81	19.54	19.30	20.00
		25	25	19.54	19.47	19.39	20.00
		50	0	19.77	19.49	19.37	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 37825	Channel 38000	Channel 38175	Tune up
15MHz	QPSK	1	0	21.41	21.32	21.19	23.00
		1	38	22.06	21.98	21.87	23.00
		1	74	21.94	21.89	21.75	23.00
		36	0	21.09	21.12	20.88	22.00
		36	18	21.05	20.93	20.82	22.00
		36	39	20.97	20.98	20.90	22.00
		75	0	21.06	20.91	20.84	22.00
	16QAM	1	0	20.41	20.30	20.08	22.00
		1	38	21.06	20.94	20.89	22.00
		1	74	20.96	20.85	20.80	22.00
		36	0	20.04	20.05	20.03	21.00

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		36	18	19.95	19.99	19.83	21.00
		36	39	20.00	19.93	19.80	21.00
		75	0	19.93	19.90	19.92	21.00
	64QAM	1	0	20.31	20.42	19.65	21.00
		1	38	20.95	20.55	20.45	21.00
		1	74	20.57	20.15	20.51	21.00
		36	0	19.79	19.54	19.50	20.00
		36	18	19.69	19.68	19.49	20.00
		36	39	19.75	19.45	19.54	20.00
		75	0	19.69	19.51	19.54	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	21.85	21.50	21.37	23.00
		1	50	21.86	21.85	21.71	23.00
		1	99	**22.02**	21.32	21.27	23.00
		50	0	21.25	21.10	20.90	22.00
		50	25	20.99	20.94	20.91	22.00
		50	50	21.11	20.95	20.94	22.00
		100	0	21.22	20.97	20.92	22.00
	16QAM	1	0	20.68	20.33	20.35	22.00
		1	50	21.11	20.72	21.00	22.00
		1	99	20.27	20.19	20.14	22.00
		50	0	20.33	19.98	19.99	21.00
		50	25	20.12	19.79	19.93	21.00
		50	50	20.14	19.83	19.98	21.00
		100	0	20.14	19.84	19.95	21.00
	64QAM	1	0	20.49	20.03	19.97	21.00
		1	50	20.62	20.66	20.45	21.00
		1	99	20.15	20.00	19.88	21.00
		50	0	19.61	19.67	19.90	20.00
		50	25	19.78	19.62	19.64	20.00
		50	50	19.78	19.47	19.45	20.00
		100	0	19.73	19.56	19.55	20.00

LTE Band 38 Body Scene(0mm SAR sensor on Level D0)				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	21.89	21.37	21.24	22.50
		1	13	21.60	21.33	21.32	22.50
		1	24	21.40	21.26	21.24	22.50
		12	0	20.67	20.46	20.37	22.00
		12	6	20.64	20.37	20.43	22.00
		12	13	20.54	20.34	20.39	22.00
		25	0	20.44	20.31	20.22	22.00
	16QAM	1	0	20.63	20.53	20.15	22.00
		1	13	20.49	20.34	20.42	22.00

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		1	24	20.46	20.20	20.24	22.00
		12	0	19.52	19.31	19.28	21.00
		12	6	19.79	19.57	19.50	21.00
		12	13	19.33	19.18	19.39	21.00
		25	0	19.42	19.64	19.47	21.00
	64QAM	1	0	20.79	20.60	20.42	21.00
		1	13	20.97	20.51	20.46	21.00
		1	24	20.49	20.46	20.48	21.00
		12	0	19.48	19.47	19.73	20.00
		12	6	19.98	19.85	19.22	20.00
		12	13	19.57	19.22	19.32	20.00
		25	0	19.41	19.38	19.36	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	21.14	20.73	20.73	22.50
		1	25	21.48	21.53	21.61	22.50
		1	49	20.89	20.65	20.53	22.50
		25	0	20.69	20.68	20.39	22.00
		25	13	20.33	20.29	20.35	22.00
		25	25	20.51	20.25	20.24	22.00
		50	0	20.60	20.32	20.23	22.00
	16QAM	1	0	20.04	20.26	20.13	22.00
		1	25	20.78	20.63	20.63	22.00
		1	49	20.15	20.16	20.13	22.00
		25	0	19.71	19.32	19.67	21.00
		25	13	19.37	19.33	19.56	21.00
		25	25	19.34	19.35	19.26	21.00
		50	0	19.31	19.32	19.72	21.00
	64QAM	1	0	20.05	19.97	19.73	21.00
		1	25	20.39	20.07	19.99	21.00
		1	49	19.74	19.58	19.93	21.00
		25	0	19.66	19.43	19.59	20.00
		25	13	19.55	19.32	19.53	20.00
		25	25	19.58	19.58	19.54	20.00
		50	0	19.71	19.51	19.51	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 37825	Channel 38000	Channel 38175	Tune up
15MHz	QPSK	1	0	21.00	20.83	20.52	22.50
		1	38	21.62	21.39	21.16	22.50
		1	74	21.54	21.40	21.43	22.50
		36	0	20.67	20.45	20.38	22.00
		36	18	20.61	20.48	20.41	22.00
		36	39	20.57	20.50	20.42	22.00
		75	0	20.63	20.48	20.41	22.00
	16QAM	1	0	20.04	20.16	20.46	22.00
		1	38	20.68	20.41	20.56	22.00
		1	74	20.56	20.07	20.36	22.00

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		36	0	19.61	19.61	19.44	21.00
		36	18	19.51	19.54	19.35	21.00
		36	39	19.46	19.53	19.37	21.00
		75	0	19.57	19.49	19.46	21.00
	64QAM	1	0	20.51	20.32	19.91	21.00
		1	38	20.13	20.66	20.69	21.00
		1	74	20.44	20.55	20.56	21.00
		36	0	19.82	19.62	19.55	20.00
		36	18	19.59	19.71	19.56	20.00
		36	39	19.70	19.51	19.50	20.00
		75	0	19.71	19.49	19.57	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	21.45	21.20	20.93	22.50
		1	50	21.29	21.18	21.33	22.50
		1	99	21.06	20.92	20.71	22.50
		50	0	20.76	20.54	20.42	22.00
		50	25	20.27	20.49	20.30	22.00
		50	50	20.71	20.43	20.42	22.00
		100	0	20.39	20.49	20.38	22.00
	16QAM	1	0	20.23	20.55	20.06	22.00
		1	50	20.66	20.86	20.61	22.00
		1	99	20.43	20.35	20.16	22.00
		50	0	19.72	19.81	19.82	21.00
		50	25	19.64	19.31	19.15	21.00
		50	50	19.62	19.29	19.18	21.00
		100	0	19.67	19.29	19.41	21.00
	64QAM	1	0	20.49	20.03	19.97	21.00
		1	50	20.62	20.66	20.45	21.00
		1	99	20.15	20.00	19.88	21.00
		50	0	19.61	19.67	19.90	20.00
		50	25	19.78	19.62	19.64	20.00
		50	50	19.78	19.47	19.45	20.00
		100	0	19.73	19.56	19.55	20.00

LTE Band 38 Wifi Hotspot on(10mm SAR sensor off) SAR sensor on level D1+Wifi Hotspot on				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	20.48	20.35	20.36	22.00
		1	13	20.66	20.33	20.35	22.00
		1	24	20.25	20.28	20.33	22.00
		12	0	20.44	20.41	20.45	22.00
		12	6	20.70	20.33	20.29	22.00
		12	13	20.61	20.32	20.42	22.00
		25	0	20.67	20.39	20.31	22.00
	16QAM	1	0	20.65	20.30	20.55	22.00

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		1	13	20.73	20.29	20.49	22.00
		1	24	20.73	20.07	20.50	22.00
		12	0	19.66	19.41	19.43	21.00
		12	6	19.81	19.44	19.30	21.00
		12	13	19.28	19.10	19.21	21.00
		25	0	19.36	19.63	19.35	21.00
	64QAM	1	0	20.79	20.31	20.53	21.00
		1	13	20.85	20.35	20.16	21.00
		1	24	20.17	20.27	20.33	21.00
		12	0	19.45	19.53	19.37	20.00
		12	6	19.72	19.43	19.36	20.00
		12	13	19.59	19.48	19.31	20.00
		25	0	19.51	19.40	19.70	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37800	38000	38200	
10MHz	QPSK	1	0	20.06	20.05	20.11	22.00
		1	25	20.83	20.53	20.35	22.00
		1	49	20.44	20.41	20.45	22.00
		25	0	20.47	20.41	20.45	22.00
		25	13	20.36	20.40	20.33	22.00
		25	25	20.35	20.31	20.37	22.00
		50	0	20.39	20.38	20.36	22.00
	16QAM	1	0	20.09	20.21	20.11	22.00
		1	25	20.71	20.37	20.21	22.00
		1	49	20.01	20.13	20.10	22.00
		25	0	19.48	19.64	19.29	21.00
		25	13	19.27	19.16	19.16	21.00
		25	25	19.29	19.18	19.23	21.00
		50	0	19.39	19.18	19.21	21.00
	64QAM	1	0	20.05	19.97	19.73	21.00
		1	25	20.39	20.07	19.99	21.00
		1	49	19.74	19.58	19.93	21.00
		25	0	19.66	19.43	19.59	20.00
		25	13	19.55	19.32	19.53	20.00
		25	25	19.58	19.58	19.54	20.00
		50	0	19.71	19.51	19.51	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	20.01	20.03	20.06	22.00
		1	38	20.57	20.40	20.36	22.00
		1	74	20.44	20.19	20.23	22.00
		36	0	20.63	20.46	20.43	22.00
		36	18	20.52	20.37	20.33	22.00
		36	39	20.48	20.32	20.33	22.00
		75	0	20.55	20.38	20.40	22.00
	16QAM	1	0	20.13	20.19	20.11	22.00
		1	38	20.49	20.42	20.36	22.00

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		1	74	20.23	20.47	20.59	22.00
		36	0	19.56	19.43	19.34	21.00
		36	18	19.52	19.25	19.45	21.00
		36	39	19.59	19.33	19.31	21.00
		75	0	19.46	19.30	19.34	21.00
	64QAM	1	0	20.51	20.32	19.91	21.00
		1	38	20.13	20.66	20.69	21.00
		1	74	20.44	20.55	20.56	21.00
		36	0	19.82	19.62	19.55	20.00
		36	18	19.59	19.71	19.56	20.00
		36	39	19.70	19.51	19.50	20.00
		75	0	19.71	19.49	19.57	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	20.07	20.39	20.16	22.00
		1	50	20.54	20.11	20.41	22.00
		1	99	20.16	20.13	20.06	22.00
		50	0	20.60	20.51	20.50	22.00
		50	25	20.59	20.41	20.44	22.00
		50	50	**20.61**	20.29	20.47	22.00
		100	0	20.61	20.48	20.40	22.00
	16QAM	1	0	20.17	20.31	20.07	22.00
		1	50	20.09	20.02	20.05	22.00
		1	99	20.10	20.06	20.08	22.00
		50	0	19.72	19.83	19.33	21.00
		50	25	19.60	19.33	19.29	21.00
		50	50	19.58	19.37	19.27	21.00
		100	0	19.66	19.35	19.36	21.00
	64QAM	1	0	20.42	20.75	19.97	21.00
		1	50	20.74	20.52	20.59	21.00
		1	99	19.91	19.42	19.75	21.00
		50	0	19.82	19.69	19.54	20.00
		50	25	19.70	19.52	19.46	20.00
		50	50	19.68	19.38	19.60	20.00
		100	0	19.71	19.66	19.60	20.00

LTE Band 38 SAR sensor on level D0 +Wifi Hotspot on				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	20.87	20.38	20.56	21.50
		1	13	20.68	20.41	20.54	21.50
		1	24	20.68	20.28	20.52	21.50
		12	0	20.79	20.44	20.52	21.50
		12	6	20.30	20.36	20.50	21.50
		12	13	20.76	20.35	20.10	21.50
		25	0	20.67	20.30	20.51	21.50
	16QAM	1	0	20.61	20.35	20.71	21.50

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		1	13	20.69	20.35	20.17	21.50
		1	24	20.29	20.26	20.07	21.50
		12	0	19.41	19.49	19.24	21.00
		12	6	19.54	19.57	19.09	21.00
		12	13	19.52	19.42	19.27	21.00
		25	0	19.47	19.38	19.42	21.00
	64QAM	1	0	20.79	20.31	20.53	21.00
		1	13	20.85	20.35	20.16	21.00
		1	24	20.17	20.27	20.33	21.00
		12	0	19.45	19.53	19.37	20.00
		12	6	19.72	19.43	19.36	20.00
		12	13	19.59	19.48	19.31	20.00
		25	0	19.51	19.40	19.70	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37800	38000	38200	
10MHz	QPSK	1	0	20.01	20.12	19.76	21.50
		1	25	20.54	19.98	20.36	21.50
		1	49	19.81	19.64	19.54	21.50
		25	0	20.61	20.50	20.28	21.50
		25	13	20.55	20.47	20.21	21.50
		25	25	20.58	20.49	20.23	21.50
		50	0	20.56	20.38	20.21	21.50
	16QAM	1	0	19.86	19.79	20.10	21.50
		1	25	20.37	19.83	20.43	21.50
		1	49	19.76	19.79	19.72	21.50
		25	0	19.54	19.49	19.57	21.00
		25	13	19.56	19.40	19.54	21.00
		25	25	19.45	19.38	19.15	21.00
		50	0	19.60	19.45	19.60	21.00
	64QAM	1	0	20.05	19.97	19.73	21.00
		1	25	20.39	20.07	19.99	21.00
		1	49	19.74	19.58	19.93	21.00
		25	0	19.66	19.43	19.59	20.00
		25	13	19.55	19.32	19.53	20.00
		25	25	19.58	19.58	19.54	20.00
		50	0	19.71	19.51	19.51	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	20.16	19.94	19.78	21.50
		1	38	20.72	20.62	20.43	21.50
		1	74	20.22	20.24	20.39	21.50
		36	0	20.56	20.49	20.44	21.50
		36	18	20.54	20.44	20.46	21.50
		36	39	20.60	20.27	20.41	21.50
		75	0	20.60	20.44	20.34	21.50
	16QAM	1	0	20.02	19.78	19.87	21.50
		1	38	20.51	20.42	20.12	21.50

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		1	74	20.38	20.26	20.45	21.50
		36	0	19.84	19.70	19.57	21.00
		36	18	19.62	19.68	19.16	21.00
		36	39	19.24	19.22	19.17	21.00
		75	0	19.80	19.49	19.52	21.00
	64QAM	1	0	20.51	20.32	19.91	21.00
		1	38	20.13	20.66	20.69	21.00
		1	74	20.44	20.55	20.56	21.00
		36	0	19.82	19.62	19.55	20.00
		36	18	19.59	19.71	19.56	20.00
		36	39	19.70	19.51	19.50	20.00
		75	0	19.71	19.49	19.57	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	20.60	20.29	19.98	21.50
		1	50	20.44	20.63	20.40	21.50
		1	99	19.60	19.64	19.83	21.50
		50	0	20.57	20.77	20.58	21.50
		50	25	20.43	20.24	20.09	21.50
		50	50	20.43	20.44	20.58	21.50
		100	0	20.51	20.45	20.22	21.50
	16QAM	1	0	20.54	20.19	20.06	21.50
		1	50	20.36	20.10	20.89	21.50
		1	99	19.50	19.89	20.10	21.50
		50	0	19.80	19.73	19.55	21.00
		50	25	19.62	19.59	19.47	21.00
		50	50	19.56	19.25	19.46	21.00
		100	0	19.66	19.72	19.43	21.00
	64QAM	1	0	20.42	20.75	19.97	21.00
		1	50	20.74	20.52	20.59	21.00
		1	99	19.91	19.42	19.75	21.00
		50	0	19.82	19.69	19.54	20.00
		50	25	19.70	19.52	19.46	20.00
		50	50	19.68	19.38	19.60	20.00
		100	0	19.71	19.66	19.60	20.00

LTE Band 41 Full power				**Conducted Power(dBm)**				
Bandwidth	Modulation	RB size	RB offset	Channel 40165	Channel 40515	Channel 40865	Channel 41215	Tune up
5MHz	QPSK	1	0	22.02	22.03	21.87	21.84	23.00
		1	13	22.02	22.06	21.78	21.93	23.00
		1	24	22.07	21.97	21.81	21.79	23.00
		12	0	21.07	21.04	20.85	20.90	22.00
		12	6	20.99	20.98	20.82	20.80	22.00
		12	13	21.03	21.08	20.86	20.77	22.00
		25	0	21.00	20.98	20.86	20.75	22.00

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	16QAM	1	0	21.08	21.03	20.74	20.76	22.00
		1	13	21.11	21.02	20.74	20.83	22.00
		1	24	21.06	21.04	20.65	20.70	22.00
		12	0	20.06	20.01	19.73	19.74	21.00
		12	6	19.97	20.12	19.72	19.67	21.00
		12	13	20.01	19.74	19.73	19.74	21.00
		25	0	20.05	20.03	19.77	19.70	21.00
	64QAM	1	0	20.91	20.84	20.42	20.87	21.00
		1	13	20.84	20.62	20.67	20.74	21.00
		1	24	20.98	20.88	20.57	20.73	21.00
		12	0	19.94	19.86	19.45	19.87	20.00
		12	6	19.97	19.57	19.53	19.79	20.00
		12	13	19.89	19.57	19.46	19.64	20.00
		25	0	19.92	19.55	19.44	19.72	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 40190	Channel 40523	Channel 40857	Channel 41190	Tune up
10MHz	QPSK	1	0	21.51	21.55	21.19	21.34	23.00
		1	25	22.12	22.07	21.71	21.62	23.00
		1	49	21.23	21.10	21.20	21.12	23.00
		25	0	21.01	21.16	20.84	20.81	22.00
		25	13	20.91	21.15	20.81	20.76	22.00
		25	25	20.89	20.74	20.79	20.74	22.00
		50	0	20.87	20.73	20.79	20.75	22.00
	16QAM	1	0	20.33	20.65	20.24	20.20	22.00
		1	25	21.31	21.17	21.03	21.02	22.00
		1	49	20.26	20.08	20.07	20.12	22.00
		25	0	20.19	20.24	19.77	19.83	21.00
		25	13	19.94	20.17	19.74	19.77	21.00
		25	25	19.95	19.94	19.73	19.78	21.00
		50	0	19.94	20.10	19.74	19.77	21.00
	64QAM	1	0	20.26	20.09	19.99	19.73	21.00
		1	25	20.97	20.96	20.71	20.75	21.00
		1	49	19.89	19.61	19.87	19.65	21.00
		25	0	19.91	19.92	19.50	19.96	20.00
		25	13	19.78	19.81	19.79	19.90	20.00
		25	25	19.54	19.76	19.44	19.52	20.00
		50	0	19.91	19.67	19.49	19.46	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 40215	Channel 40532	Channel 40848	Channel 41165	Tune up
15MHz	QPSK	1	0	21.51	21.30	21.24	21.26	23.00
		1	38	**22.17**	22.08	21.71	21.84	23.00
		1	74	22.03	22.09	21.85	21.82	23.00
		36	0	21.12	21.17	20.92	20.86	22.00
		36	18	21.05	21.01	20.87	20.80	22.00
		36	39	21.09	20.68	20.89	20.77	22.00
		75	0	21.04	21.20	20.93	20.85	22.00
	16QAM	1	0	20.38	20.62	20.26	20.21	22.00

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		1	38	21.07	21.22	20.77	20.77	22.00
		1	74	20.96	20.80	20.82	20.86	22.00
		36	0	20.11	20.14	19.87	19.95	21.00
		36	18	20.10	20.08	19.81	19.93	21.00
		36	39	19.99	19.95	19.81	19.81	21.00
		75	0	19.98	20.13	19.80	19.92	21.00
	64QAM	1	0	20.53	20.12	20.07	20.07	21.00
		1	38	20.36	20.62	20.45	20.51	21.00
		1	74	20.60	20.05	20.53	20.88	21.00
		36	0	19.87	19.90	19.53	19.71	20.00
		36	18	19.91	19.72	19.46	19.72	20.00
		36	39	19.98	19.36	19.49	19.74	20.00
		75	0	19.94	19.74	19.40	19.77	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 40240	Channel 40540	Channel 40840	Channel 41140	Tune up
20MHz	QPSK	1	0	21.82	21.78	21.51	21.61	23.00
		1	50	**22.14**	**21.90**	**21.84**	**21.86**	23.00
		1	99	21.58	21.44	21.45	21.22	23.00
		50	0	21.10	**21.27**	21.02	20.96	22.00
		50	25	21.05	21.16	20.87	20.94	22.00
		50	50	21.10	20.82	20.98	20.90	22.00
		100	0	21.08	20.94	21.01	21.05	22.00
	16QAM	1	0	20.71	20.92	20.67	20.54	22.00
		1	50	20.99	21.03	20.99	21.06	22.00
		1	99	20.37	20.29	20.47	20.42	22.00
		50	0	20.31	20.06	19.94	19.92	21.00
		50	25	20.14	19.94	19.74	19.80	21.00
		50	50	20.10	19.90	19.88	19.69	21.00
		100	0	20.31	20.01	19.84	20.05	21.00
	64QAM	1	0	20.70	20.37	20.00	20.26	21.00
		1	50	20.96	20.14	20.74	20.83	21.00
		1	99	19.90	19.78	19.95	20.06	21.00
		50	0	19.74	19.94	19.59	19.92	20.00
		50	25	19.97	19.74	19.43	19.84	20.00
		50	50	19.94	19.72	19.57	19.98	20.00
		100	0	19.97	19.82	19.55	19.97	20.00

LTE Band 41 Hotspot on+sensor off				**Conducted Power(dBm)**				
Bandwidth	Modulation	RB size	RB offset	Channel 40165	Channel 40515	Channel 40865	Channel 41215	Tune up
5MHz	QPSK	1	0	19.28	19.13	18.93	18.98	20.50
		1	13	19.29	19.13	18.86	18.97	20.50
		1	24	19.17	19.15	18.83	18.92	20.50
		12	0	19.28	19.05	18.93	19.03	20.50
		12	6	19.31	19.15	18.81	18.92	20.50
		12	13	19.24	19.06	18.75	18.88	20.50

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		25	0	19.24	19.11	18.77	18.88	20.50
	16QAM	1	0	19.45	19.11	18.79	19.14	20.50
		1	13	19.46	19.10	18.73	19.14	20.50
		1	24	19.16	19.11	18.88	19.00	20.50
		12	0	19.14	19.12	18.73	18.90	20.50
		12	6	19.02	19.12	18.72	18.83	20.50
		12	13	19.21	19.02	18.73	18.82	20.50
		25	0	19.09	19.10	18.74	18.79	20.50
	64QAM	1	0	19.25	19.44	18.74	19.37	20.50
		1	13	19.65	19.20	18.84	19.22	20.50
		1	24	19.29	19.08	18.82	19.07	20.50
		12	0	19.32	19.35	18.93	19.25	20.00
		12	6	19.44	19.37	18.93	19.14	20.00
		12	13	19.42	19.35	18.84	19.11	20.00
		25	0	19.46	19.29	19.03	19.18	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 40190	Channel 40523	Channel 40857	Channel 41190	Tune up
10MHz	QPSK	1	0	18.56	18.66	18.77	18.85	20.50
		1	25	19.26	19.18	18.92	18.81	20.50
		1	49	18.89	18.95	18.64	18.81	20.50
		25	0	19.15	19.19	18.87	19.00	20.50
		25	13	19.02	19.16	18.78	18.88	20.50
		25	25	19.08	19.07	18.74	18.91	20.50
		50	0	19.09	19.02	18.78	18.86	20.50
	16QAM	1	0	19.01	18.54	18.68	18.95	20.50
		1	25	18.58	18.89	18.86	19.08	20.50
		1	49	18.58	18.77	18.74	18.60	20.50
		25	0	18.95	19.11	18.72	18.81	20.50
		25	13	18.85	18.95	18.58	18.74	20.50
		25	25	18.88	18.99	18.63	18.66	20.50
		50	0	19.03	19.01	18.68	18.83	20.50
	64QAM	1	0	18.94	18.70	18.56	18.52	20.50
		1	25	19.34	18.91	19.30	19.67	20.50
		1	49	18.71	18.65	18.51	18.61	20.50
		25	0	19.46	19.36	19.26	19.43	20.00
		25	13	19.27	19.33	19.27	19.45	20.00
		25	25	18.98	19.19	18.98	18.96	20.00
		50	0	19.44	19.25	19.22	19.47	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 40215	Channel 40532	Channel 40848	Channel 41165	Tune up
15MHz	QPSK	1	0	18.58	19.04	19.08	18.92	20.50
		1	38	19.20	19.09	18.97	18.94	20.50
		1	74	19.11	19.06	18.86	19.01	20.50
		36	0	19.19	19.13	18.98	19.05	20.50
		36	18	19.08	19.05	18.90	18.88	20.50
		36	39	19.12	19.03	18.84	18.95	20.50
		75	0	19.19	19.11	18.93	18.89	20.50

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	16QAM	1	0	18.55	18.98	18.87	19.01	20.50
		1	38	19.51	19.06	18.70	19.25	20.50
		1	74	19.33	19.04	19.14	18.87	20.50
		36	0	19.13	19.10	18.87	18.99	20.50
		36	18	19.05	18.94	18.87	18.86	20.50
		36	39	18.96	18.89	18.77	18.79	20.50
		75	0	19.06	19.10	18.86	18.83	20.50
	64QAM	1	0	18.73	19.04	18.62	18.53	20.50
		1	38	19.61	19.33	18.81	19.05	20.50
		1	74	19.17	19.20	18.85	19.44	20.50
		36	0	19.41	19.39	19.35	19.45	20.00
		36	18	19.39	19.18	18.80	19.06	20.00
		36	39	19.40	19.28	18.88	19.14	20.00
		75	0	19.36	19.12	18.84	19.16	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 40240	Channel 40540	Channel 40840	Channel 41140	Tune up
20MHz	QPSK	1	0	18.85	18.65	18.54	18.68	20.50
		1	50	**19.15**	**19.11**	**19.03**	**18.99**	20.50
		1	99	18.77	18.94	18.98	18.89	20.50
		50	0	19.19	19.16	**19.29**	18.99	20.50
		50	25	18.86	19.09	18.60	18.85	20.50
		50	50	19.22	19.09	18.71	18.89	20.50
		100	0	19.29	19.17	18.76	18.96	20.50
	16QAM	1	0	18.93	19.15	18.85	18.74	20.50
		1	50	19.10	19.51	19.21	19.34	20.50
		1	99	19.02	18.63	18.78	18.57	20.50
		50	0	19.23	19.10	19.07	18.95	20.50
		50	25	18.80	18.96	18.65	18.80	20.50
		50	50	19.16	19.11	18.65	18.88	20.50
		100	0	19.19	19.12	18.71	18.90	20.50
	64QAM	1	0	19.13	18.85	18.57	18.59	20.50
		1	50	19.15	19.18	18.85	19.10	20.50
		1	99	19.09	18.59	18.66	18.68	20.50
		50	0	19.47	19.43	19.45	19.25	20.00
		50	25	19.44	19.28	18.91	19.09	20.00
		50	50	19.24	19.15	19.04	19.25	20.00
		100	0	19.42	19.25	19.04	19.21	20.00

Table 13：Conducted Power of LTE

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8.1.2 Conducted Power of Second Antenna

8.1.2.1 Conducted Power of GSM

GSM 850 Receiver on(Left head)										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	**29.49**	**29.62**	**29.61**	30.60	-9.19	20.30	20.43	20.42	21.41
GPRS/EGPRS (GMSK)	1 TX Slot	29.51	29.60	29.63	30.60	-9.19	20.32	20.41	20.44	21.41
	2 TX Slots	27.50	27.54	27.52	29.00	-6.18	**21.32**	**21.36**	21.34	**22.82**
	3 TX Slots	25.33	25.36	25.34	27.00	-4.42	20.91	20.94	20.92	22.58
	4 TX Slots	23.35	23.36	23.43	24.60	-3.17	20.18	20.19	20.26	21.43
EGPRS(8PSK)	1 TX Slot	23.94	24.05	24.16	25.00	-9.19	14.75	14.86	14.97	15.81
	2 TX Slots	21.88	22.02	22.05	23.00	-6.18	15.70	15.84	15.87	16.82
	3 TX Slots	19.74	19.78	19.89	21.00	-4.42	15.32	15.36	15.47	16.58
	4 TX Slots	17.54	17.66	17.77	18.50	-3.17	14.37	14.49	14.60	15.33
GSM 850 Receiver on(Right head)										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	29.54	**29.59**	29.66	30.60	-9.19	20.35	20.40	20.47	21.41
GPRS/EGPRS (GMSK)	1 TX Slot	29.58	29.64	29.69	30.60	-9.19	20.39	20.45	20.50	21.41
	2 TX Slots	27.44	27.53	27.51	29.00	-6.18	21.26	**21.35**	21.33	**22.82**
	3 TX Slots	25.28	25.43	25.41	27.00	-4.42	20.86	21.01	20.99	22.58
	4 TX Slots	23.38	23.51	23.37	24.60	-3.17	20.21	20.34	20.20	21.43
EGPRS(8PSK)	1 TX Slot	23.94	24.10	24.13	25.00	-9.19	14.75	14.91	14.94	15.81
	2 TX Slots	21.84	21.94	22.02	23.00	-6.18	15.66	15.76	15.84	16.82
	3 TX Slots	19.73	19.84	19.97	21.00	-4.42	15.31	15.42	15.55	16.58
	4 TX Slots	17.51	17.72	17.81	18.50	-3.17	14.34	14.55	14.64	15.33
GSM 850 Receiver off(Body Scene)										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	29.25	**29.47**	29.49	30.60	-9.19	20.06	20.28	20.30	21.41
GPRS/EGPRS (GMSK)	1 TX Slot	29.22	29.42	29.45	30.60	-9.19	20.03	20.23	20.26	21.41
	2 TX Slots	**27.05**	**27.13**	**27.09**	**29.00**	**-6.18**	**20.87**	**20.95**	**20.91**	**22.82**
	3 TX Slots	25.06	25.11	25.07	27.00	-4.42	20.64	20.69	20.65	22.58
	4 TX Slots	22.77	22.88	22.79	24.60	-3.17	19.60	19.71	19.62	21.43
EGPRS(8PSK)	1 TX Slot	23.48	23.76	23.71	25.00	-9.19	14.29	14.57	14.52	15.81
	2 TX Slots	21.29	21.61	21.56	23.00	-6.18	15.11	15.43	15.38	16.82
	3 TX Slots	19.05	19.29	19.26	21.00	-4.42	14.63	14.87	14.84	16.58
	4 TX Slots	16.32	16.39	16.63	18.50	-3.17	13.15	13.22	13.46	15.33

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GSM 850 Receiver on(Left head) + WiFi on/Hotspot on										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	26.71	**26.71**	26.78	27.60	-9.19	17.52	17.58	17.59	18.41
GPRS/EGPRS (GMSK)	1 TX Slot	26.71	26.75	26.79	27.60	-9.19	17.52	17.56	17.60	18.41
	2 TX Slots	24.98	24.89	24.86	26.00	-6.18	18.80	18.71	18.68	19.82
	3 TX Slots	22.85	22.81	22.82	24.00	-4.42	18.43	18.39	18.40	19.58
	4 TX Slots	19.99	20.17	20.21	21.60	-3.17	16.82	17.00	17.04	18.43
EGPRS(8PSK)	1 TX Slot	21.08	21.24	21.33	22.00	-9.19	11.89	12.05	12.14	12.81
	2 TX Slots	18.98	19.03	19.08	20.00	-6.18	12.80	12.85	12.90	13.82
	3 TX Slots	16.86	16.96	17.13	18.00	-4.42	12.44	12.54	12.71	13.58
	4 TX Slots	14.42	14.52	14.96	15.50	-3.17	11.25	11.35	11.79	12.33

GSM 850 Receiver on(Right head) + WiFi on/Hotspot on										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	26.69	26.75	26.77	27.60	-9.19	17.50	17.56	17.58	18.41
GPRS/EGPRS (GMSK)	1 TX Slot	26.70	26.76	26.81	27.60	-9.19	17.51	17.57	17.62	18.41
	2 TX Slots	24.91	24.97	24.95	26.00	-6.18	18.73	18.79	18.77	19.82
	3 TX Slots	22.97	22.88	22.84	24.00	-4.42	18.55	18.46	18.42	19.58
	4 TX Slots	19.91	20.07	20.13	21.60	-3.17	16.74	16.90	16.96	18.43
EGPRS(8PSK)	1 TX Slot	21.17	21.25	21.34	22.00	-9.19	11.98	12.06	12.15	12.81
	2 TX Slots	18.92	19.05	19.19	20.00	-6.18	12.74	12.87	13.01	13.82
	3 TX Slots	16.80	16.95	17.04	18.00	-4.42	12.38	12.53	12.62	13.58
	4 TX Slots	14.31	14.42	14.55	15.50	-3.17	11.14	11.25	11.38	12.33

GSM 850 Receiver off + WiFi on/Hotspot on										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	26.25	26.41	26.39	27.60	-9.19	17.06	17.22	17.20	18.41
GPRS/EGPRS (GMSK)	1 TX Slot	26.27	26.40	26.31	27.60	-9.19	17.08	17.21	17.12	18.41
	2 TX Slots	**24.11**	**24.26**	**24.21**	**26.00**	**-6.18**	**17.93**	**18.08**	**18.03**	**19.82**
	3 TX Slots	22.05	22.18	22.05	24.00	-4.42	17.63	17.76	17.63	19.58
	4 TX Slots	19.77	19.88	19.99	21.60	-3.17	16.60	16.71	16.82	18.43
EGPRS(8PSK)	1 TX Slot	20.66	20.88	20.94	22.00	-9.19	11.47	11.69	11.75	12.81
	2 TX Slots	18.40	18.68	18.72	20.00	-6.18	12.22	12.50	12.54	13.82
	3 TX Slots	16.26	16.41	16.36	18.00	-4.42	11.84	11.99	11.94	13.58
	4 TX Slots	13.72	13.89	13.86	15.50	-3.17	10.55	10.72	10.69	12.33

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GSM 1900 Receiver on(Left head)										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	**27.92**	**27.96**	**27.95**	28.50	-9.19	18.73	18.77	18.76	19.31
GPRS/EGPRS (GMSK)	1 TX Slot	27.88	27.93	27.92	28.50	-9.19	18.69	18.74	18.73	19.31
	2 TX Slots	25.76	25.78	25.79	26.50	-6.18	19.58	19.60	19.61	20.32
	3 TX Slots	23.60	23.65	23.56	24.50	-4.42	19.18	19.23	19.14	20.08
	4 TX Slots	21.43	21.47	21.45	22.50	-3.17	18.26	18.30	18.28	19.33
EGPRS(8PSK)	1 TX Slot	23.89	23.91	23.96	24.50	-9.19	14.70	14.72	14.77	15.31
	2 TX Slots	21.58	21.65	21.64	22.50	-6.18	15.40	15.47	15.46	16.32
	3 TX Slots	19.42	19.53	19.60	20.50	-4.42	15.00	15.11	15.18	16.08
	4 TX Slots	16.60	16.66	16.75	18.00	-3.17	13.43	13.49	13.58	14.83
GSM 1900 Receiver on(Right head)										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	26.94	**26.98**	26.95	27.50	-9.19	17.75	17.79	17.76	18.31
GPRS/EGPRS (GMSK)	1 TX Slot	26.89	26.96	26.92	27.50	-9.19	17.70	17.77	17.73	18.31
	2 TX Slots	24.69	24.77	24.79	25.50	-6.18	18.51	18.59	18.61	19.32
	3 TX Slots	22.61	22.64	22.59	23.50	-4.42	18.19	18.22	18.17	19.08
	4 TX Slots	20.46	20.47	20.41	21.50	-3.17	17.29	17.30	17.24	18.33
EGPRS(8PSK)	1 TX Slot	22.76	22.78	22.87	23.50	-9.19	13.57	13.59	13.68	14.31
	2 TX Slots	20.67	20.81	20.89	21.50	-6.18	14.49	14.63	14.71	15.32
	3 TX Slots	18.49	18.50	18.66	19.50	-4.42	14.07	14.08	14.24	15.08
	4 TX Slots	15.72	15.78	15.88	17.00	-3.17	12.55	12.61	12.71	13.83
GSM 1900 Receiver off(Body Scene)										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	26.27	26.34	26.71	27.50	-9.19	17.08	17.15	17.52	18.31
GPRS/EGPRS (GMSK)	1 TX Slot	26.28	26.33	26.70	27.50	-9.19	17.09	17.14	17.51	18.31
	2 TX Slots	**24.04**	**24.08**	**24.47**	**25.50**	**-6.18**	**17.86**	**17.90**	**18.29**	**19.32**
	3 TX Slots	21.98	22.03	22.41	23.50	-4.42	17.56	17.61	17.99	19.08
	4 TX Slots	19.54	19.53	19.94	21.50	-3.17	16.37	16.36	16.77	18.33
EGPRS(8PSK)	1 TX Slot	21.77	21.88	22.28	23.50	-9.19	12.58	12.69	13.09	14.31
	2 TX Slots	19.66	19.71	20.12	21.50	-6.18	13.48	13.53	13.94	15.32
	3 TX Slots	17.36	17.51	17.90	19.50	-4.42	12.94	13.09	13.48	15.08
	4 TX Slots	14.84	14.87	15.27	17.00	-3.17	11.67	11.70	12.10	13.83

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GSM 1900 Receiver on(Left head) + WiFi on/Hotspot on										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	24.92	**24.97**	24.97	25.50	-9.19	15.73	15.73	15.78	16.31
GPRS/ EGPRS (GMSK)	1 TX Slot	24.96	24.97	24.98	25.50	-9.19	15.77	15.78	15.79	16.31
	2 TX Slots	22.83	22.87	22.83	23.50	-6.18	16.65	16.69	16.65	17.32
	3 TX Slots	20.82	20.91	20.83	21.50	-4.42	16.40	16.49	16.41	17.08
	4 TX Slots	18.45	18.46	18.38	19.50	-3.17	15.28	15.29	15.21	16.33
EGPRS (8PSK)	1 TX Slot	20.85	20.91	20.93	21.50	-9.19	11.66	11.72	11.74	12.31
	2 TX Slots	18.42	18.55	18.65	19.50	-6.18	12.24	12.37	12.47	13.32
	3 TX Slots	16.22	16.34	16.45	17.50	-4.42	11.80	11.92	12.03	13.08
	4 TX Slots	13.48	13.63	13.62	15.00	-3.17	10.31	10.46	10.45	11.83

GSM 1900 Receiver on(Left head) + WiFi on/Hotspot on										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	23.92	23.95	23.94	24.50	-9.19	14.73	14.76	14.75	15.31
GPRS/ EGPRS (GMSK)	1 TX Slot	23.95	23.96	23.96	24.50	-9.19	14.76	14.77	14.77	15.31
	2 TX Slots	21.87	21.92	21.87	22.50	-6.18	15.69	15.74	15.69	16.32
	3 TX Slots	19.95	19.92	19.98	20.50	-4.42	15.53	15.50	15.56	16.08
	4 TX Slots	17.88	18.03	18.14	18.50	-3.17	14.71	14.86	14.97	15.33
EGPRS (8PSK)	1 TX Slot	19.87	19.85	19.98	20.50	-9.19	10.68	10.66	10.79	11.31
	2 TX Slots	17.48	17.59	17.62	18.50	-6.18	11.30	11.41	11.44	12.32
	3 TX Slots	15.52	15.42	15.44	16.50	-4.42	11.10	11.00	11.02	12.08
	4 TX Slots	13.75	13.78	13.77	14.00	-3.17	10.58	10.61	10.60	10.83

GSM 1900 Receiver off + WiFi on/Hotspot on										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	23.19	23.24	23.63	24.50	-9.19	14.00	14.05	14.44	15.31
GPRS/EGPRS (GMSK)	1 TX Slot	23.23	23.26	23.66	24.50	-9.19	14.04	14.07	14.47	15.31
	2 TX Slots	**21.13**	**21.27**	**21.12**	**22.50**	**-6.18**	**14.95**	**15.09**	**15.40**	**16.32**
	3 TX Slots	19.16	19.17	19.58	20.50	-4.42	14.74	14.75	15.16	16.08
	4 TX Slots	17.29	17.55	18.02	18.50	-3.17	14.12	14.38	14.85	15.33
EGPRS(8PSK)	1 TX Slot	18.86	18.93	19.34	20.50	-9.19	9.67	9.74	10.15	11.31
	2 TX Slots	16.66	16.74	17.17	18.50	-6.18	10.48	10.56	10.99	12.32
	3 TX Slots	14.56	14.64	15.05	16.50	-4.42	10.14	10.22	10.63	12.08
	4 TX Slots	13.28	13.44	13.94	14.00	-3.17	10.11	10.27	10.77	10.83

Table 14：Conducted Power of GSM

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Note:

1）. CMU200 measures GSM 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:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

2）. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8

3）. When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used

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8.1.2.2 Conducted Power of WCDMA

WCDMA Band II Receiver on(Left head)					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	17.78	17.86	**17.77**	19.00
	12.2kbps AMR	17.71	17.82	17.69	19.00
HSDPA	Subtest 1	17.65	17.58	17.59	18.50
	Subtest 2	17.11	17.06	17.08	18.00
	Subtest 3	16.08	16.11	16.03	17.00
	Subtest 4	16.03	16.05	16.12	17.00
HSUPA	Subtest 1	16.65	16.59	16.66	17.50
	Subtest 2	14.21	14.18	14.09	15.00
	Subtest 3	14.76	14.62	14.55	15.50
	Subtest 4	13.68	13.55	13.04	14.50
	Subtest 5	16.64	16.62	16.59	17.50
DC-HSDPA	Subtest 1	17.59	17.52	17.53	18.50
	Subtest 2	17.06	17.00	17.04	18.00
	Subtest 3	16.05	16.13	16.02	17.00
	Subtest 4	16.06	16.02	16.09	17.00
WCDMA Band II Receiver on(Right head)					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	17.36	**17.41**	17.28	18.00
	12.2kbps AMR	17.29	17.33	17.22	18.00
HSDPA	Subtest 1	16.87	16.95	16.82	17.50
	Subtest 2	16.43	16.49	16.30	17.00
	Subtest 3	15.42	15.48	15.33	16.00
	Subtest 4	15.40	15.43	15.36	16.00
HSUPA	Subtest 1	15.89	15.98	15.83	16.50
	Subtest 2	13.39	13.50	13.30	14.00
	Subtest 3	13.92	13.98	13.83	14.50
	Subtest 4	12.92	12.99	12.78	13.50
	Subtest 5	15.92	15.99	15.79	16.50
DC-HSDPA	Subtest 1	16.88	16.92	16.78	17.50
	Subtest 2	16.45	16.42	16.31	17.00
	Subtest 3	15.37	15.51	15.30	16.00
	Subtest 4	15.39	15.43	15.34	16.00
WCDMA Band II Receiver off (Body Scene)					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	**22.67**	**22.73**	**22.54**	23.50
	12.2kbps AMR	22.58	22.68	22.47	23.50
HSDPA	Subtest 1	22.22	22.28	22.06	23.00
	Subtest 2	21.77	21.83	21.62	22.50
	Subtest 3	20.74	20.75	20.61	21.50
	Subtest 4	20.75	20.74	20.59	21.50
HSUPA	Subtest 1	21.23	21.24	21.13	22.00

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	Subtest 2	18.70	18.77	18.58	19.50
	Subtest 3	19.20	19.29	19.12	20.00
	Subtest 4	18.21	18.27	18.08	19.00
	Subtest 5	21.25	21.24	21.09	22.00
DC-HSDPA	Subtest 1	22.26	22.27	22.10	23.00
	Subtest 2	21.75	21.77	21.63	22.50
	Subtest 3	20.70	20.76	20.60	21.50
	Subtest 4	20.73	20.77	20.58	21.50
WCDMA Band II Receiver on(Left head) +WiFi on/Hotspot on					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	14.26	14.32	14.42	15.50
	12.2kbps AMR	14.21	14.33	14.39	15.50
HSDPA	Subtest 1	14.11	14.07	14.03	15.00
	Subtest 2	13.66	13.59	13.62	14.50
	Subtest 3	12.71	12.66	12.58	13.50
	Subtest 4	12.73	12.59	12.64	13.50
HSUPA	Subtest 1	13.11	13.20	13.09	14.00
	Subtest 2	10.82	10.77	10.69	11.50
	Subtest 3	11.41	11.33	11.31	12.00
	Subtest 4	10.39	10.81	10.22	11.00
	Subtest 5	13.18	13.22	13.18	14.00
DC-HSDPA	Subtest 1	14.08	14.11	14.02	15.00
	Subtest 2	13.65	13.61	13.59	14.50
	Subtest 3	12.65	12.62	12.53	13.50
	Subtest 4	12.70	12.54	12.60	13.50
WCDMA Band II Receiver on(Right head) +WiFi on/Hotspot on					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	13.80	13.81	13.73	14.50
	12.2kbps AMR	13.71	13.73	13.64	14.50
HSDPA	Subtest 1	13.35	13.35	13.26	14.00
	Subtest 2	12.83	12.84	12.78	13.50
	Subtest 3	11.84	11.86	11.75	12.50
	Subtest 4	11.88	11.90	11.81	12.50
HSUPA	Subtest 1	12.33	12.38	12.33	13.00
	Subtest 2	9.90	9.85	9.74	10.50
	Subtest 3	10.33	10.38	10.33	11.00
	Subtest 4	9.40	9.37	9.30	10.00
	Subtest 5	12.39	12.34	12.29	13.00
DC-HSDPA	Subtest 1	13.34	13.32	13.28	14.00
	Subtest 2	12.90	12.88	12.80	13.50
	Subtest 3	11.84	11.88	11.74	12.50
	Subtest 4	11.84	11.89	11.80	12.50

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WCDMA Band II Receiver off (Body Scene) +WiFi on/Hotspot on					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	**19.22**	**19.23**	**19.14**	20.00
	12.2kbps AMR	19.13	19.14	19.04	20.00
HSDPA	Subtest 1	18.79	18.79	18.72	19.50
	Subtest 2	18.30	18.33	18.23	19.00
	Subtest 3	17.28	17.26	17.19	18.00
	Subtest 4	17.30	17.31	17.20	18.00
HSUPA	Subtest 1	17.78	17.79	17.73	18.50
	Subtest 2	15.30	15.27	15.21	16.00
	Subtest 3	15.74	15.79	15.72	16.50
	Subtest 4	14.77	14.81	14.69	15.50
	Subtest 5	17.74	17.78	17.70	18.50
DC-HSDPA	Subtest 1	18.76	18.83	18.69	19.50
	Subtest 2	18.32	18.32	18.20	19.00
	Subtest 3	17.32	17.29	17.19	18.00
	Subtest 4	17.22	17.31	17.21	18.00
WCDMA Band IV Receiver on(Left head)					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	**19.98**	**20.02**	**20.01**	20.50
	12.2kbps AMR	19.92	19.94	19.92	20.50
HSDPA	Subtest 1	19.52	19.52	19.56	20.00
	Subtest 2	19.04	19.10	19.07	19.50
	Subtest 3	18.57	18.53	18.54	19.00
	Subtest 4	18.52	18.56	18.53	19.00
HSUPA	Subtest 1	18.00	18.07	18.05	18.50
	Subtest 2	16.06	16.04	16.10	16.50
	Subtest 3	16.54	16.57	16.56	17.00
	Subtest 4	15.50	15.55	15.54	16.00
	Subtest 5	18.06	18.08	18.10	18.50
DC-HSDPA	Subtest 1	19.53	19.58	19.52	20.00
	Subtest 2	18.99	19.09	19.07	19.50
	Subtest 3	18.51	18.59	18.59	19.00
	Subtest 4	18.53	18.53	18.61	19.00
WCDMA Band IV Receiver on(Right head)					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	18.50	**18.52**	18.51	19.00
	12.2kbps AMR	18.41	18.44	18.44	19.00
HSDPA	Subtest 1	18.08	18.05	18.05	18.50
	Subtest 2	17.56	17.59	17.57	18.00
	Subtest 3	17.05	17.04	17.05	17.50
	Subtest 4	17.03	17.04	17.03	17.50
HSUPA	Subtest 1	16.52	16.59	16.58	17.00

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	Subtest 2	14.51	14.53	14.52	15.00
	Subtest 3	15.06	15.06	15.06	15.50
	Subtest 4	14.04	14.04	14.04	14.50
	Subtest 5	16.56	16.55	16.56	17.00
DC-HSDPA	Subtest 1	18.07	18.02	18.09	18.50
	Subtest 2	17.59	17.54	17.56	18.00
	Subtest 3	17.07	17.10	17.04	17.50
	Subtest 4	17.02	17.03	17.02	17.50
WCDMA Band IV Receiver off (Body Scene)					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	**22.26**	**22.33**	**22.37**	23.00
	12.2kbps AMR	22.17	22.27	22.32	23.00
HSDPA	Subtest 1	21.77	21.83	21.94	22.50
	Subtest 2	21.27	21.36	21.46	22.00
	Subtest 3	20.78	20.87	20.90	21.50
	Subtest 4	20.86	20.86	20.90	21.50
HSUPA	Subtest 1	20.30	20.38	20.47	21.00
	Subtest 2	18.35	18.37	18.46	19.00
	Subtest 3	18.79	18.92	18.90	19.50
	Subtest 4	17.84	17.85	17.94	18.50
	Subtest 5	20.34	20.38	20.39	21.00
DC-HSDPA	Subtest 1	21.78	21.84	21.94	22.50
	Subtest 2	21.28	21.38	21.38	22.00
	Subtest 3	20.79	20.85	20.90	21.50
	Subtest 4	20.78	20.93	20.91	21.50
WCDMA Band IV Receiver on(Left head) +WiFi on/Hotspot on					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	17.13	**17.15**	17.04	17.50
	12.2kbps AMR	17.07	17.09	16.98	17.50
HSDPA	Subtest 1	16.73	16.70	16.56	17.00
	Subtest 2	16.20	16.24	16.10	16.50
	Subtest 3	15.65	15.75	15.56	16.00
	Subtest 4	15.67	15.68	15.55	16.00
HSUPA	Subtest 1	15.16	15.17	15.07	15.50
	Subtest 2	13.14	13.20	13.12	13.50
	Subtest 3	13.70	13.68	13.58	14.00
	Subtest 4	12.70	12.69	12.63	13.00
	Subtest 5	15.22	15.23	15.08	15.50
DC-HSDPA	Subtest 1	16.68	16.73	16.63	17.00
	Subtest 2	16.18	16.18	16.08	16.50
	Subtest 3	15.70	15.66	15.62	16.00
	Subtest 4	15.67	15.67	15.58	16.00

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WCDMA Band IV Receiver on(Right head) +WiFi on/Hotspot on					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	15.58	15.54	15.53	16.00
	12.2kbps AMR	15.51	15.47	15.48	16.00
HSDPA	Subtest 1	15.13	15.08	15.03	15.50
	Subtest 2	14.59	14.57	14.59	15.00
	Subtest 3	14.14	14.10	14.07	14.50
	Subtest 4	14.09	14.13	14.05	14.50
HSUPA	Subtest 1	13.58	13.63	13.55	14.00
	Subtest 2	11.64	11.63	11.54	12.00
	Subtest 3	12.10	12.05	12.10	12.50
	Subtest 4	11.16	11.05	11.07	11.50
	Subtest 5	13.64	13.57	13.61	14.00
DC-HSDPA	Subtest 1	15.16	15.13	15.12	15.50
	Subtest 2	14.68	14.58	14.55	15.00
	Subtest 3	14.11	14.06	14.09	14.50
	Subtest 4	14.16	14.11	14.05	14.50
WCDMA Band IV Receiver off (Body Scene) +WiFi on/Hotspot on					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	**19.26**	**19.41**	**19.38**	20.00
	12.2kbps AMR	19.18	19.32	19.30	20.00
HSDPA	Subtest 1	18.83	18.97	18.93	19.50
	Subtest 2	18.33	18.43	18.45	19.00
	Subtest 3	17.83	17.96	17.91	18.50
	Subtest 4	17.83	17.94	17.97	18.50
HSUPA	Subtest 1	17.29	17.42	17.38	18.00
	Subtest 2	15.32	15.41	15.41	16.00
	Subtest 3	15.84	15.99	15.98	16.50
	Subtest 4	14.82	14.99	14.97	15.50
	Subtest 5	17.27	17.47	17.46	18.00
DC-HSDPA	Subtest 1	18.79	19.00	18.93	19.50
	Subtest 2	18.32	18.51	18.44	19.00
	Subtest 3	17.82	17.96	17.93	18.50
	Subtest 4	17.79	17.93	17.98	18.50
WCDMA Band V Receiver on(Left head)					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	**19.40**	**19.29**	**19.30**	20.50
	12.2kbps AMR	19.33	19.21	19.23	20.50
HSDPA	Subtest 1	19.30	19.14	19.18	20.50
	Subtest 2	18.99	18.86	18.85	20.00
	Subtest 3	18.46	18.36	18.34	19.50
	Subtest 4	18.49	18.38	18.36	19.50
HSUPA	Subtest 1	18.96	18.86	18.86	20.00

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	Subtest 2	16.50	16.32	16.38	17.50
	Subtest 3	17.44	17.31	17.37	18.50
	Subtest 4	16.46	16.32	16.39	17.50
	Subtest 5	17.96	17.85	17.83	19.00
DC-HSDPA	Subtest 1	19.28	19.19	19.23	20.50
	Subtest 2	18.97	18.88	18.89	20.00
	Subtest 3	18.47	18.33	18.39	19.50
	Subtest 4	18.45	18.34	18.36	19.50
WCDMA Band V Receiver on(Right head)					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	19.40	**19.29**	19.30	20.50
	12.2kbps AMR	19.35	19.20	19.20	20.50
HSDPA	Subtest 1	19.30	19.15	19.18	20.50
	Subtest 2	18.99	18.79	18.81	20.00
	Subtest 3	18.45	18.30	18.37	19.50
	Subtest 4	18.41	18.31	18.35	19.50
HSUPA	Subtest 1	18.97	18.79	18.90	20.00
	Subtest 2	16.46	16.36	16.30	17.50
	Subtest 3	17.46	17.38	17.37	18.50
	Subtest 4	16.43	16.30	16.37	17.50
	Subtest 5	17.91	17.83	17.89	19.00
DC-HSDPA	Subtest 1	19.28	19.20	19.22	20.50
	Subtest 2	18.91	18.82	18.83	20.00
	Subtest 3	18.49	18.30	18.32	19.50
	Subtest 4	18.45	18.32	18.31	19.50
WCDMA Band V ReceVer off (Body Scene)					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	**23.35**	**23.28**	**23.32**	24.50
	12.2kbps AMR	23.26	23.20	23.23	24.50
HSDPA	Subtest 1	23.27	23.17	23.17	24.50
	Subtest 2	22.94	22.83	22.91	24.00
	Subtest 3	22.41	22.38	22.39	23.50
	Subtest 4	22.42	22.33	22.39	23.50
HSUPA	Subtest 1	22.90	22.81	22.83	24.00
	Subtest 2	20.37	20.37	20.42	21.50
	Subtest 3	21.41	21.32	21.37	22.50
	Subtest 4	20.38	20.36	20.39	21.50
	Subtest 5	21.90	21.79	21.90	23.00
DC-HSDPA	Subtest 1	23.21	23.19	23.18	24.50
	Subtest 2	22.92	22.80	22.92	24.00
	Subtest 3	22.41	22.28	22.40	23.50
	Subtest 4	22.41	22.28	22.32	23.50

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WCDMA Band V Receiver on(Left head) +WiFi on/Hotspot on					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	16.30	16.18	16.19	17.50
	12.2kbps AMR	16.23	16.09	16.12	17.50
HSDPA	Subtest 1	16.16	16.12	16.11	17.50
	Subtest 2	15.88	15.72	15.75	17.00
	Subtest 3	15.37	15.20	15.28	16.50
	Subtest 4	15.36	15.20	15.19	16.50
HSUPA	Subtest 1	15.86	15.75	15.69	17.00
	Subtest 2	13.35	13.18	13.21	14.50
	Subtest 3	14.39	14.22	14.26	15.50
	Subtest 4	13.32	13.22	13.21	14.50
	Subtest 5	14.84	14.73	14.69	16.00
DC-HSDPA	Subtest 1	16.21	16.10	16.11	17.50
	Subtest 2	15.85	15.71	15.76	17.00
	Subtest 3	15.37	15.24	15.24	16.50
	Subtest 4	15.35	15.21	15.21	16.50
WCDMA Band V Receiver on(Right head) +WiFi on/Hotspot on					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	16.31	16.17	16.23	17.50
	12.2kbps AMR	16.22	16.12	16.16	17.50
HSDPA	Subtest 1	16.18	16.06	16.17	17.50
	Subtest 2	15.89	15.68	15.80	17.00
	Subtest 3	15.33	15.22	15.27	16.50
	Subtest 4	15.34	15.17	15.33	16.50
HSUPA	Subtest 1	15.88	15.75	15.74	17.00
	Subtest 2	13.36	13.18	13.23	14.50
	Subtest 3	14.37	14.21	14.24	15.50
	Subtest 4	13.33	13.19	13.31	14.50
	Subtest 5	14.84	14.68	14.74	16.00
DC-HSDPA	Subtest 1	16.25	16.07	16.09	17.50
	Subtest 2	15.86	15.72	15.73	17.00
	Subtest 3	15.38	15.19	15.24	16.50
	Subtest 4	15.34	15.24	15.27	16.50
WCDMA Band V Receiver off (Body Scene) +WiFi on/Hotspot on					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	**20.34**	**20.26**	**20.27**	21.50
	12.2kbps AMR	20.25	20.17	20.20	21.50
HSDPA	Subtest 1	20.23	20.21	20.18	21.50
	Subtest 2	19.91	19.81	19.85	21.00
	Subtest 3	19.41	19.27	19.32	20.50
	Subtest 4	19.37	19.36	19.28	20.50
HSUPA	Subtest 1	19.92	19.86	19.81	21.00

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	Subtest 2	17.37	17.33	17.35	18.50
	Subtest 3	18.41	18.27	18.30	19.50
	Subtest 4	17.39	17.35	17.34	18.50
	Subtest 5	18.91	18.84	18.85	20.00
DC-HSDPA	Subtest 1	20.28	20.12	20.13	21.50
	Subtest 2	19.91	19.81	19.84	21.00
	Subtest 3	19.37	19.29	19.35	20.50
	Subtest 4	19.43	19.33	19.34	20.50

Table 15：Conducted Power of WCDMA

Note:

2) when the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.

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8.1.2.3 Conducted Power of LTE

LTE Band 2 Receiver on(Left head)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	18.95	18.96	18.82	19.50
		1	2	18.51	17.90	17.65	19.50
		1	5	19.08	19.05	18.88	19.50
		3	0	19.04	18.93	18.85	19.50
		3	2	18.98	18.88	18.45	19.50
		3	3	18.90	19.01	19.15	19.50
		6	0	18.89	19.13	18.91	19.50
	16QAM	1	0	19.34	19.35	18.97	19.50
		1	2	19.22	18.82	19.17	19.50
		1	5	19.01	18.95	19.36	19.50
		3	0	19.03	18.82	18.91	19.50
		3	2	18.83	18.78	18.82	19.50
		3	3	18.74	19.13	19.03	19.50
		6	0	19.02	18.87	18.76	19.50
	64QAM	1	0	19.36	19.34	18.89	19.50
		1	2	19.17	18.76	19.09	19.50
		1	5	18.96	18.85	19.27	19.50
		3	0	18.94	18.72	18.84	19.50
		3	2	18.74	18.70	18.73	19.50
		3	3	18.69	19.04	18.96	19.50
		6	0	18.92	18.77	18.66	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	19.11	18.96	18.89	19.50
		1	7	18.13	18.47	17.93	19.50
		1	14	19.13	19.11	19.16	19.50
		8	0	19.00	18.70	18.96	19.50
		8	4	18.78	19.02	18.74	19.50
		8	7	19.16	19.06	18.82	19.50
		15	0	19.12	19.00	19.01	19.50
	16QAM	1	0	19.30	19.21	19.35	19.50
		1	7	18.65	18.55	18.87	19.50
		1	14	19.36	19.07	19.17	19.50
		8	0	18.99	18.91	19.03	19.50
		8	4	18.88	19.02	18.76	19.50
		8	7	18.78	18.98	18.96	19.50
		15	0	18.95	18.97	18.66	19.50
	64QAM	1	0	19.21	19.16	19.35	19.50
		1	7	18.57	18.48	18.77	19.50
		1	14	19.35	19.01	19.11	19.50
		8	0	18.91	18.82	18.97	19.50
		8	4	18.81	18.92	18.68	19.50
		8	7	18.68	18.89	18.89	19.50

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		15	0	18.87	18.90	18.58	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	18.98	19.04	18.92	19.50
		1	13	19.06	19.00	18.86	19.50
		1	24	18.99	19.11	19.00	19.50
		12	0	19.06	19.08	18.95	19.50
		12	6	19.01	19.15	18.91	19.50
		12	13	19.04	19.12	19.02	19.50
		25	0	18.97	19.01	18.95	19.50
	16QAM	1	0	19.05	19.33	19.05	19.50
		1	13	19.35	19.06	19.19	19.50
		1	24	19.21	19.29	19.15	19.50
		12	0	19.00	19.08	18.92	19.50
		12	6	19.10	19.05	18.62	19.50
		12	13	19.02	18.99	18.92	19.50
		25	0	18.93	19.00	18.91	19.50
	64QAM	1	0	18.99	19.33	18.97	19.50
		1	13	19.31	18.98	19.11	19.50
		1	24	19.11	19.23	19.10	19.50
		12	0	18.94	19.01	18.83	19.50
		12	6	19.03	18.99	18.57	19.50
		12	13	18.96	18.94	18.87	19.50
		25	0	18.87	18.90	18.84	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	19.18	18.98	19.09	19.50
		1	25	18.81	18.49	18.45	19.50
		1	49	18.96	19.12	18.99	19.50
		25	0	19.07	19.08	19.06	19.50
		25	13	19.01	18.99	19.06	19.50
		25	25	18.97	18.97	19.00	19.50
		50	0	19.07	19.05	18.94	19.50
	16QAM	1	0	19.27	19.36	19.36	19.50
		1	25	18.84	19.29	19.37	19.50
		1	49	19.34	19.35	18.84	19.50
		25	0	19.02	19.03	18.94	19.50
		25	13	18.95	18.98	18.99	19.50
		25	25	19.01	19.01	18.90	19.50
		50	0	18.98	18.98	19.00	19.50
	64QAM	1	0	19.19	19.29	19.37	19.50
		1	25	18.78	19.23	19.35	19.50
		1	49	19.27	19.28	18.76	19.50
		25	0	18.96	18.97	18.88	19.50
		25	13	18.87	18.89	18.92	19.50
		25	25	18.92	18.95	18.83	19.50
		50	0	18.93	18.90	18.93	19.50

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Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	18.92	19.10	18.99	19.50
		1	38	18.97	19.01	18.97	19.50
		1	74	18.87	18.81	18.98	19.50
		36	0	19.09	19.07	19.07	19.50
		36	18	18.96	19.08	18.97	19.50
		36	39	18.99	18.97	18.91	19.50
		75	0	19.05	19.07	18.97	19.50
	16QAM	1	0	18.88	19.24	19.06	19.50
		1	38	19.30	18.90	19.34	19.50
		1	74	19.10	18.74	18.94	19.50
		36	0	19.00	19.06	18.97	19.50
		36	18	18.97	19.01	18.94	19.50
		36	39	18.93	19.07	18.87	19.50
		75	0	18.91	19.00	18.90	19.50
	64QAM	1	0	18.83	19.14	18.99	19.50
		1	38	19.24	18.85	19.29	19.50
		1	74	19.04	18.68	18.89	19.50
		36	0	18.92	18.97	18.90	19.50
		36	18	18.90	18.95	18.85	19.50
		36	39	18.85	19.00	18.80	19.50
		75	0	18.84	18.94	18.80	19.50

Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	19.10	19.12	**19.18**	19.50
		1	50	18.67	18.55	18.94	19.50
		1	99	18.97	18.92	18.97	19.50
		50	0	**19.00**	**18.99**	**19.04**	19.50
		50	25	18.88	18.92	18.96	19.50
		50	50	18.99	18.94	18.98	19.50
		100	0	19.03	18.94	18.98	19.50
	16QAM	1	0	19.32	19.31	19.38	19.50
		1	50	18.87	19.18	19.32	19.50
		1	99	19.17	19.08	19.26	19.50
		50	0	18.96	19.03	18.92	19.50
		50	25	18.84	18.93	18.92	19.50
		50	50	18.84	18.89	18.79	19.50
		100	0	18.87	18.85	18.88	19.50
	64QAM	1	0	19.27	19.25	19.32	19.50
		1	50	18.77	19.12	19.25	19.50
		1	99	19.11	19.03	19.17	19.50
		50	0	18.89	18.96	18.84	19.50
		50	25	18.75	18.87	18.85	19.50
		50	50	18.75	18.84	18.72	19.50
		100	0	18.79	18.76	18.81	19.50

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LTE Band 2 Receiver on(Right head)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	17.52	17.40	17.45	18.00
		1	2	17.31	17.37	17.54	18.00
		1	5	17.50	17.55	17.47	18.00
		3	0	17.26	17.50	17.39	18.00
		3	2	17.21	17.18	17.50	18.00
		3	3	17.52	17.32	17.46	18.00
		6	0	17.43	17.39	17.38	18.00
	16QAM	1	0	17.71	17.77	17.80	18.00
		1	2	16.73	17.88	17.36	18.00
		1	5	17.95	17.98	17.73	18.00
		3	0	17.54	17.38	17.46	18.00
		3	2	17.51	17.75	17.65	18.00
		3	3	17.57	17.46	17.63	18.00
		6	0	17.48	17.28	17.24	18.00
	64QAM	1	0	17.61	17.70	17.72	18.00
		1	2	16.66	17.79	17.29	18.00
		1	5	17.86	17.90	17.64	18.00
		3	0	17.46	17.30	17.40	18.00
		3	2	17.43	17.69	17.58	18.00
		3	3	17.49	17.41	17.58	18.00
		6	0	17.43	17.20	17.16	18.00
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	17.59	17.52	17.42	18.00
		1	7	16.59	16.77	17.25	18.00
		1	14	17.54	17.49	17.43	18.00
		8	0	17.42	17.23	17.32	18.00
		8	4	17.04	17.39	17.51	18.00
		8	7	17.42	17.52	17.35	18.00
		15	0	17.45	17.66	17.30	18.00
	16QAM	1	0	17.85	17.94	17.80	18.00
		1	7	17.42	17.37	16.79	18.00
		1	14	17.76	17.85	17.87	18.00
		8	0	17.55	17.31	17.40	18.00
		8	4	17.54	17.55	17.36	18.00
		8	7	17.64	17.48	17.42	18.00
		15	0	17.29	17.46	17.27	18.00
	64QAM	1	0	17.76	17.86	17.71	18.00
		1	7	17.32	17.29	16.71	18.00
		1	14	17.69	17.75	17.78	18.00
		8	0	17.47	17.23	17.32	18.00
		8	4	17.46	17.49	17.28	18.00
		8	7	17.57	17.43	17.36	18.00
		15	0	17.22	17.41	17.19	18.00

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Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	17.52	17.50	17.37	18.00
		1	13	17.52	17.53	17.41	18.00
		1	24	17.53	17.53	17.55	18.00
		12	0	17.56	17.55	17.46	18.00
		12	6	17.57	17.51	17.53	18.00
		12	13	17.44	17.51	17.52	18.00
		25	0	17.49	17.50	17.47	18.00
	16QAM	1	0	17.85	17.87	17.90	18.00
		1	13	17.88	17.82	17.73	18.00
		1	24	17.74	17.59	17.58	18.00
		12	0	17.49	17.52	17.55	18.00
		12	6	17.52	17.52	17.53	18.00
		12	13	17.45	17.54	17.45	18.00
		25	0	17.45	17.50	17.35	18.00
	64QAM	1	0	17.78	17.78	17.85	18.00
		1	13	17.81	17.76	17.64	18.00
		1	24	17.65	17.51	17.51	18.00
		12	0	17.43	17.44	17.49	18.00
		12	6	17.45	17.45	17.45	18.00
		12	13	17.37	17.47	17.38	18.00
		25	0	17.39	17.44	17.26	18.00

Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	17.53	17.58	17.56	18.00
		1	25	17.17	16.88	17.30	18.00
		1	49	17.38	17.52	17.46	18.00
		25	0	17.52	17.49	17.52	18.00
		25	13	17.45	17.55	17.39	18.00
		25	25	17.41	17.55	17.46	18.00
		50	0	17.50	17.49	17.40	18.00
	16QAM	1	0	17.56	17.97	17.73	18.00
		1	25	17.75	17.42	17.23	18.00
		1	49	17.61	17.98	17.69	18.00
		25	0	17.40	17.55	17.43	18.00
		25	13	17.38	17.39	17.36	18.00
		25	25	17.50	17.44	17.37	18.00
		50	0	17.43	17.43	17.41	18.00
	64QAM	1	0	17.48	17.91	17.67	18.00
		1	25	17.69	17.35	17.17	18.00
		1	49	17.51	17.93	17.64	18.00
		25	0	17.32	17.48	17.35	18.00
		25	13	17.33	17.31	17.29	18.00
		25	25	17.44	17.38	17.32	18.00
		50	0	17.34	17.38	17.35	18.00

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Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	17.44	17.51	17.39	18.00
		1	38	17.47	17.56	17.42	18.00
		1	74	17.37	17.45	17.33	18.00
		36	0	17.61	17.60	17.55	18.00
		36	18	17.50	17.51	17.51	18.00
		36	39	17.45	17.44	17.53	18.00
		75	0	17.48	17.51	17.41	18.00
	16QAM	1	0	17.91	17.63	17.65	18.00
		1	38	17.89	17.54	17.59	18.00
		1	74	17.63	17.21	17.72	18.00
		36	0	17.55	17.48	17.48	18.00
		36	18	17.43	17.40	17.43	18.00
		36	39	17.39	17.45	17.49	18.00
		75	0	17.41	17.51	17.40	18.00
	64QAM	1	0	17.85	17.54	17.59	18.00
		1	38	17.80	17.45	17.52	18.00
		1	74	17.56	17.16	17.64	18.00
		36	0	17.47	17.39	17.38	18.00
		36	18	17.36	17.31	17.34	18.00
		36	39	17.32	17.35	17.43	18.00
		75	0	17.35	17.42	17.32	18.00

Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	**17.69**	17.66	17.60	18.00
		1	50	17.06	17.32	17.23	18.00
		1	99	17.46	17.48	17.55	18.00
		50	0	**17.61**	17.56	17.54	18.00
		50	25	17.48	17.54	17.53	18.00
		50	50	17.47	17.55	17.46	18.00
		100	0	17.49	17.51	17.54	18.00
	16QAM	1	0	17.88	17.97	17.61	18.00
		1	50	17.46	17.91	16.86	18.00
		1	99	17.99	17.57	17.94	18.00
		50	0	17.49	17.47	17.53	18.00
		50	25	17.43	17.42	17.43	18.00
		50	50	17.41	17.47	17.40	18.00
		100	0	17.38	17.43	17.42	18.00
	64QAM	1	0	17.79	17.89	17.52	18.00
		1	50	17.37	17.81	16.78	18.00
		1	99	17.83	17.49	17.84	18.00
		50	0	17.39	17.41	17.46	18.00
		50	25	17.37	17.33	17.37	18.00
		50	50	17.34	17.39	17.31	18.00
		100	0	17.29	17.37	17.36	18.00

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LTE Band 2 Receiver off (Body Scene)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	22.40	22.41	22.39	23.00
		1	2	21.56	22.06	22.46	23.00
		1	5	22.40	22.32	22.36	23.00
		3	0	22.29	22.18	22.46	23.00
		3	2	22.29	22.48	22.36	23.00
		3	3	22.43	22.41	22.41	23.00
		6	0	22.39	22.43	21.47	23.00
	16QAM	1	0	22.82	22.51	21.57	23.00
		1	2	22.31	22.61	21.16	23.00
		1	5	22.78	22.49	21.06	23.00
		3	0	22.33	22.29	21.30	23.00
		3	2	21.69	22.30	21.25	23.00
		3	3	22.60	22.23	21.56	23.00
		6	0	21.30	21.24	20.09	22.00
	64QAM	1	0	21.91	21.54	20.58	22.00
		1	2	21.39	21.68	20.20	22.00
		1	5	21.86	21.52	20.07	22.00
		3	0	21.36	21.36	20.31	22.00
		3	2	20.72	21.37	20.30	22.00
		3	3	21.65	21.33	20.59	22.00
		6	0	20.39	20.27	19.15	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	22.49	22.44	22.29	23.00
		1	7	22.36	22.10	22.44	23.00
		1	14	22.42	22.33	22.41	23.00
		8	0	22.43	22.27	22.10	23.00
		8	4	22.44	22.42	22.45	23.00
		8	7	22.36	22.42	22.50	23.00
		15	0	22.37	22.45	22.21	23.00
	16QAM	1	0	22.62	22.84	22.38	23.00
		1	7	21.26	21.65	22.04	23.00
		1	14	22.32	22.45	22.71	23.00
		8	0	21.45	21.00	21.32	22.00
		8	4	21.29	21.24	21.56	22.00
		8	7	21.32	21.34	21.15	22.00
		15	0	21.24	21.30	21.33	22.00
	64QAM	1	0	21.72	21.88	21.38	22.00
		1	7	20.28	20.75	21.10	22.00
		1	14	21.37	21.49	21.73	22.00
		8	0	20.52	20.01	20.38	21.00
		8	4	20.32	20.27	20.58	21.00
		8	7	20.33	20.44	20.22	21.00
		15	0	20.24	20.36	20.34	21.00

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Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	22.35	22.36	22.38	23.00
		1	13	22.44	22.44	22.31	23.00
		1	24	22.34	22.27	22.38	23.00
		12	0	22.43	22.37	22.40	23.00
		12	6	22.29	22.34	22.48	23.00
		12	13	22.43	22.38	22.35	23.00
		25	0	22.33	22.33	22.40	23.00
	16QAM	1	0	22.85	22.40	22.81	23.00
		1	13	22.44	22.80	22.56	23.00
		1	24	22.41	22.63	22.91	23.00
		12	0	21.31	21.41	21.35	22.00
		12	6	21.38	21.16	21.34	22.00
		12	13	21.35	21.37	21.46	22.00
		25	0	21.43	21.23	21.31	22.00
	64QAM	1	0	21.92	21.49	21.89	22.00
		1	13	21.50	21.83	21.59	22.00
		1	24	21.47	21.68	21.99	22.00
		12	0	20.35	20.47	20.40	21.00
		12	6	20.44	20.16	20.37	21.00
		12	13	20.39	20.39	20.49	21.00
		25	0	20.51	20.29	20.31	21.00

Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	22.38	22.51	22.32	23.00
		1	25	22.26	22.30	22.31	23.00
		1	49	22.41	22.31	22.36	23.00
		25	0	22.48	22.30	22.36	23.00
		25	13	22.43	22.40	22.35	23.00
		25	25	22.37	22.28	22.33	23.00
		50	0	22.30	22.33	22.33	23.00
	16QAM	1	0	22.44	22.74	22.12	23.00
		1	25	22.47	22.75	21.81	23.00
		1	49	22.61	22.75	22.56	23.00
		25	0	21.40	21.30	21.27	22.00
		25	13	21.30	21.26	21.31	22.00
		25	25	21.25	21.23	21.24	22.00
		50	0	21.21	21.34	21.39	22.00
	64QAM	1	0	21.53	21.82	21.18	22.00
		1	25	21.53	21.80	20.87	22.00
		1	49	21.69	21.83	21.58	22.00
		25	0	20.50	20.38	20.29	21.00
		25	13	20.34	20.35	20.36	21.00
		25	25	20.25	20.32	20.30	21.00
		50	0	20.22	20.39	20.47	21.00

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Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	22.54	22.46	22.21	23.00
		1	38	22.39	22.21	22.29	23.00
		1	74	22.26	22.25	22.35	23.00
		36	0	22.39	22.47	22.33	23.00
		36	18	22.40	22.41	22.38	23.00
		36	39	22.47	22.43	22.35	23.00
		75	0	22.47	22.40	22.36	23.00
	16QAM	1	0	22.43	22.74	22.51	23.00
		1	38	22.48	22.84	22.70	23.00
		1	74	22.31	22.55	22.58	23.00
		36	0	21.39	21.42	21.30	22.00
		36	18	21.30	21.21	21.37	22.00
		36	39	21.40	21.36	21.35	22.00
		75	0	21.38	21.39	21.29	22.00
	64QAM	1	0	21.51	21.75	21.51	22.00
		1	38	21.57	21.90	21.71	22.00
		1	74	21.40	21.57	21.67	22.00
		36	0	20.45	20.43	20.35	21.00
		36	18	20.31	20.31	20.42	21.00
		36	39	20.42	20.37	20.44	21.00
		75	0	20.39	20.41	20.33	21.00

Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	**22.56**	**22.43**	**22.48**	23.00
		1	50	22.27	22.38	22.39	23.00
		1	99	22.54	22.35	22.44	23.00
		50	0	**22.49**	22.44	22.48	23.00
		50	25	22.32	22.46	22.41	23.00
		50	50	22.33	22.43	22.33	23.00
		100	0	22.45	22.32	22.39	23.00
	16QAM	1	0	22.93	22.87	22.76	23.00
		1	50	21.94	22.41	22.29	23.00
		1	99	22.66	22.67	22.92	23.00
		50	0	21.46	21.20	21.36	22.00
		50	25	21.34	21.34	21.15	22.00
		50	50	21.40	21.23	21.25	22.00
		100	0	21.33	21.29	21.33	22.00
	64QAM	1	0	21.93	21.95	21.85	22.00
		1	50	20.95	21.42	21.31	22.00
		1	99	21.73	21.68	21.94	22.00
		50	0	20.54	20.22	20.43	21.00
		50	25	20.39	20.39	20.21	21.00
		50	50	20.47	20.32	20.34	21.00
		100	0	20.37	20.33	20.36	21.00

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LTE Band 2 Receiver on(Left head) +WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	15.35	15.28	15.26	16.50
		1	2	14.88	14.98	14.97	16.50
		1	5	15.38	15.24	15.27	16.50
		3	0	15.25	15.18	15.13	16.50
		3	2	15.20	15.20	15.15	16.50
		3	3	15.25	15.14	15.19	16.50
		6	0	15.21	15.15	15.14	16.50
	16QAM	1	0	15.63	15.72	15.47	16.50
		1	2	15.20	15.35	15.09	16.50
		1	5	15.64	15.43	15.41	16.50
		3	0	15.17	15.12	15.16	16.50
		3	2	15.21	15.14	15.12	16.50
		3	3	15.21	15.13	15.11	16.50
		6	0	15.21	15.13	15.18	16.50
	64QAM	1	0	15.55	15.65	15.41	16.50
		1	2	15.14	15.27	15.00	16.50
		1	5	15.55	15.34	15.34	16.50
		3	0	15.11	15.04	15.10	16.50
		3	2	15.12	15.08	15.06	16.50
		3	3	15.15	15.07	15.05	16.50
		6	0	15.12	15.03	15.11	16.50
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	15.43	15.38	15.33	16.50
		1	7	14.94	15.03	15.03	16.50
		1	14	15.43	15.33	15.34	16.50
		8	0	15.35	15.27	15.21	16.50
		8	4	15.27	15.25	15.21	16.50
		8	7	15.31	15.21	15.24	16.50
		15	0	15.30	15.20	15.23	16.50
	16QAM	1	0	15.69	15.81	15.55	16.50
		1	7	15.28	15.40	15.18	16.50
		1	14	15.70	15.51	15.46	16.50
		8	0	15.26	15.19	15.21	16.50
		8	4	15.30	15.22	15.21	16.50
		8	7	15.27	15.22	15.17	16.50
		15	0	15.27	15.18	15.25	16.50
	64QAM	1	0	15.60	15.74	15.46	16.50
		1	7	15.21	15.34	15.10	16.50
		1	14	15.60	15.44	15.39	16.50
		8	0	15.20	15.12	15.15	16.50

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		8	4	15.22	15.14	15.14	16.50
		8	7	15.19	15.17	15.10	16.50
		15	0	15.20	15.11	15.18	16.50
Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	15.52	15.44	15.39	16.50
		1	13	15.02	15.11	15.12	16.50
		1	24	15.49	15.40	15.40	16.50
		12	0	15.41	15.37	15.29	16.50
		12	6	15.35	15.31	15.29	16.50
		12	13	15.41	15.30	15.31	16.50
		25	0	15.36	15.28	15.33	16.50
	16QAM	1	0	15.77	15.87	15.63	16.50
		1	13	15.37	15.47	15.25	16.50
		1	24	15.76	15.56	15.54	16.50
		12	0	15.35	15.29	15.26	16.50
		12	6	15.36	15.29	15.26	16.50
		12	13	15.37	15.29	15.27	16.50
		25	0	15.36	15.27	15.33	16.50
	64QAM	1	0	15.70	15.81	15.57	16.50
		1	13	15.32	15.39	15.16	16.50
		1	24	15.69	15.50	15.45	16.50
		12	0	15.27	15.21	15.17	16.50
		12	6	15.30	15.21	15.17	16.50
		12	13	15.31	15.20	15.18	16.50
		25	0	15.27	15.18	15.26	16.50
Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	15.59	15.52	15.47	16.50
		1	25	15.10	15.18	15.20	16.50
		1	49	15.57	15.46	15.49	16.50
		25	0	15.47	15.44	15.37	16.50
		25	13	15.43	15.36	15.35	16.50
		25	25	15.46	15.37	15.40	16.50
		50	0	15.42	15.35	15.43	16.50
	16QAM	1	0	15.86	15.96	15.73	16.50
		1	25	15.44	15.54	15.32	16.50
		1	49	15.82	15.65	15.64	16.50
		25	0	15.44	15.37	15.33	16.50
		25	13	15.43	15.35	15.32	16.50
		25	25	15.45	15.36	15.35	16.50
		50	0	15.43	15.35	15.39	16.50
	64QAM	1	0	15.78	15.91	15.64	16.50
		1	25	15.35	15.44	15.26	16.50
		1	49	15.75	15.56	15.56	16.50
		25	0	15.37	15.32	15.25	16.50
		25	13	15.36	15.29	15.25	16.50

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		25	25	15.39	15.28	15.27	16.50
		50	0	15.37	15.30	15.31	16.50
Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	15.64	15.62	15.56	16.50
		1	38	15.19	15.28	15.29	16.50
		1	74	15.66	15.53	15.57	16.50
		36	0	15.53	15.53	15.44	16.50
		36	18	15.49	15.45	15.43	16.50
		36	39	15.55	15.45	15.49	16.50
		75	0	15.51	15.44	15.50	16.50
	16QAM	1	0	15.93	16.01	15.79	16.50
		1	38	15.51	15.59	15.41	16.50
		1	74	15.88	15.71	15.70	16.50
		36	0	15.49	15.44	15.42	16.50
		36	18	15.49	15.41	15.37	16.50
		36	39	15.51	15.42	15.43	16.50
		75	0	15.50	15.43	15.46	16.50
	64QAM	1	0	15.86	15.95	15.69	16.50
		1	38	15.46	15.51	15.36	16.50
		1	74	15.82	15.62	15.64	16.50
		36	0	15.40	15.38	15.36	16.50
		36	18	15.41	15.33	15.28	16.50
		36	39	15.42	15.37	15.35	16.50
		75	0	15.42	15.37	15.40	16.50
Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	15.69	15.70	15.62	16.50
		1	50	15.28	15.33	15.34	16.50
		1	99	**15.72**	15.59	15.64	16.50
		50	0	15.63	15.59	15.53	16.50
		50	25	15.58	15.55	15.52	16.50
		50	50	15.61	15.54	15.57	16.50
		100	0	15.60	15.53	15.58	16.50
	16QAM	1	0	16.08	16.07	15.85	16.50
		1	50	15.60	15.64	15.48	16.50
		1	99	15.95	15.76	15.79	16.50
		50	0	15.57	15.52	15.51	16.50
		50	25	15.54	15.47	15.47	16.50
		50	50	15.59	15.50	15.50	16.50
		100	0	15.57	15.49	15.54	16.50
	64QAM	1	0	15.94	16.00	15.79	16.50
		1	50	15.53	15.59	15.43	16.50
		1	99	15.90	15.69	15.73	16.50
		50	0	15.48	15.45	15.43	16.50
		50	25	15.47	15.39	15.41	16.50
		50	50	15.49	15.44	15.41	16.50

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		100	0	15.48	15.39	15.48	16.50

LTE Band 2 Receiver on(Right head) +WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	13.83	13.92	13.75	15.00
		1	2	13.61	13.43	13.46	15.00
		1	5	13.69	13.73	13.72	15.00
		3	0	13.67	13.65	13.61	15.00
		3	2	13.73	13.65	13.55	15.00
		3	3	13.68	13.63	13.69	15.00
		6	0	13.68	13.63	13.78	15.00
	16QAM	1	0	14.10	14.04	14.04	15.00
		1	2	13.81	13.56	13.61	15.00
		1	5	14.00	13.91	14.13	15.00
		3	0	13.70	13.67	13.53	15.00
		3	2	13.59	13.53	13.58	15.00
		3	3	13.63	13.64	13.60	15.00
		6	0	13.66	13.53	13.61	15.00
	64QAM	1	0	14.03	13.97	13.96	15.00
		1	2	13.75	13.47	13.56	15.00
		1	5	13.94	13.85	14.07	15.00
		3	0	13.61	13.62	13.43	15.00
		3	2	13.52	13.44	13.49	15.00
		3	3	13.53	13.56	13.54	15.00
		6	0	13.58	13.47	13.52	15.00
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	13.90	13.98	13.82	15.00
		1	7	13.67	13.53	13.54	15.00
		1	14	13.79	13.82	13.79	15.00
		8	0	13.75	13.75	13.70	15.00
		8	4	13.83	13.73	13.61	15.00
		8	7	13.78	13.72	13.75	15.00
		15	0	13.76	13.70	13.84	15.00
	16QAM	1	0	14.19	14.10	14.11	15.00
		1	7	13.87	13.65	13.68	15.00
		1	14	14.07	14.01	14.19	15.00
		8	0	13.77	13.75	13.60	15.00
		8	4	13.66	13.62	13.63	15.00
		8	7	13.69	13.69	13.68	15.00
		15	0	13.74	13.59	13.66	15.00
	64QAM	1	0	14.10	14.02	14.06	15.00
		1	7	13.79	13.57	13.59	15.00
		1	14	13.98	13.91	14.13	15.00
		8	0	13.70	13.68	13.54	15.00

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		8	4	13.58	13.55	13.54	15.00
		8	7	13.59	13.64	13.62	15.00
		15	0	13.69	13.51	13.60	15.00
Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	13.96	14.03	13.89	15.00
		1	13	13.76	13.60	13.61	15.00
		1	24	13.89	13.87	13.87	15.00
		12	0	13.85	13.81	13.80	15.00
		12	6	13.90	13.81	13.70	15.00
		12	13	13.83	13.77	13.85	15.00
		25	0	13.85	13.79	13.90	15.00
	16QAM	1	0	14.25	14.20	14.19	15.00
		1	13	13.93	13.71	13.78	15.00
		1	24	14.12	14.08	14.26	15.00
		12	0	13.86	13.80	13.70	15.00
		12	6	13.73	13.68	13.70	15.00
		12	13	13.78	13.76	13.74	15.00
		25	0	13.82	13.69	13.75	15.00
	64QAM	1	0	14.16	14.14	14.10	15.00
		1	13	13.87	13.61	13.72	15.00
		1	24	14.07	14.01	14.19	15.00
		12	0	13.78	13.75	13.63	15.00
		12	6	13.66	13.61	13.65	15.00
		12	13	13.72	13.67	13.64	15.00
		25	0	13.74	13.64	13.66	15.00
Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	14.03	14.09	13.98	15.00
		1	25	13.82	13.68	13.69	15.00
		1	49	13.97	13.94	13.96	15.00
		25	0	13.93	13.88	13.87	15.00
		25	13	13.96	13.89	13.79	15.00
		25	25	13.91	13.87	13.92	15.00
		50	0	13.92	13.86	13.96	15.00
	16QAM	1	0	14.32	14.30	14.28	15.00
		1	25	13.99	13.80	13.85	15.00
		1	49	14.20	14.15	14.35	15.00
		25	0	13.92	13.87	13.78	15.00
		25	13	13.83	13.78	13.78	15.00
		25	25	13.85	13.82	13.83	15.00
		50	0	13.89	13.79	13.83	15.00
	64QAM	1	0	14.22	14.25	14.19	15.00
		1	25	13.94	13.72	13.77	15.00
		1	49	14.11	14.10	14.29	15.00
		25	0	13.85	13.78	13.69	15.00
		25	13	13.77	13.73	13.70	15.00

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		25	25	13.80	13.76	13.74	15.00
		50	0	13.83	13.73	13.77	15.00
Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	14.10	14.15	14.05	15.00
		1	38	13.87	13.74	13.76	15.00
		1	74	14.04	14.01	14.02	15.00
		36	0	14.03	13.98	13.94	15.00
		36	18	14.01	13.95	13.89	15.00
		36	39	14.00	13.96	13.97	15.00
		75	0	14.01	13.94	14.03	15.00
	16QAM	1	0	14.42	14.39	14.34	15.00
		1	38	14.09	13.88	13.90	15.00
		1	74	14.27	14.21	14.43	15.00
		36	0	13.98	13.96	13.86	15.00
		36	18	13.93	13.87	13.86	15.00
		36	39	13.93	13.89	13.90	15.00
		75	0	13.96	13.87	13.89	15.00
	64QAM	1	0	14.32	14.31	14.25	15.00
		1	38	14.01	13.80	13.82	15.00
		1	74	14.20	14.14	14.33	15.00
		36	0	13.91	13.89	13.78	15.00
		36	18	13.84	13.81	13.78	15.00
		36	39	13.85	13.79	13.84	15.00
		75	0	13.91	13.79	13.82	15.00
Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	14.16	14.21	14.14	15.00
		1	50	13.96	13.80	13.85	15.00
		1	99	14.13	14.08	14.11	15.00
		50	0	14.12	14.04	13.99	15.00
		50	25	14.07	14.02	13.97	15.00
		50	50	14.09	14.05	14.06	15.00
		100	0	14.08	14.03	14.08	15.00
	16QAM	1	0	14.50	14.45	14.40	15.00
		1	50	14.18	13.97	13.99	15.00
		1	99	14.37	14.28	14.52	15.00
		50	0	14.07	14.02	13.93	15.00
		50	25	13.98	13.96	13.94	15.00
		50	50	14.02	13.97	13.98	15.00
		100	0	14.03	13.95	13.97	15.00
	64QAM	1	0	14.45	14.36	14.34	15.00
		1	50	14.11	13.90	13.92	15.00
		1	99	14.29	14.21	14.46	15.00
		50	0	13.99	13.93	13.87	15.00
		50	25	13.92	13.89	13.86	15.00
		50	50	13.93	13.92	13.90	15.00

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		100	0	13.98	13.88	13.89	15.00

LTE Band 2 Receiver off (Body Scene)+WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	19.41	19.25	19.47	20.00
		1	2	19.45	18.49	19.31	20.00
		1	5	19.45	19.49	19.29	20.00
		3	0	19.48	18.99	19.26	20.00
		3	2	19.39	19.20	19.12	20.00
		3	3	19.42	19.44	19.46	20.00
		6	0	19.43	19.52	19.21	20.00
	16QAM	1	0	19.11	19.75	19.70	20.00
		1	2	19.08	19.57	19.60	20.00
		1	5	19.75	19.71	19.58	20.00
		3	0	19.55	18.98	19.20	20.00
		3	2	19.70	18.94	19.18	20.00
		3	3	19.24	19.45	19.39	20.00
		6	0	19.49	19.30	19.38	20.00
	64QAM	1	0	19.04	19.69	19.75	20.00
		1	2	19.01	19.47	19.55	20.00
		1	5	19.69	19.73	19.50	20.00
		3	0	19.49	18.90	19.12	20.00
		3	2	19.62	18.87	19.11	20.00
		3	3	19.14	19.37	19.29	20.00
		6	0	19.42	19.22	19.30	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	19.40	19.38	19.33	20.00
		1	7	19.11	19.13	18.88	20.00
		1	14	19.35	19.38	19.37	20.00
		8	0	19.33	19.31	19.19	20.00
		8	4	19.34	19.35	19.23	20.00
		8	7	19.34	19.31	19.22	20.00
		15	0	19.38	19.36	19.32	20.00
	16QAM	1	0	19.64	19.60	19.57	20.00
		1	7	19.25	19.50	19.39	20.00
		1	14	19.62	19.62	19.66	20.00
		8	0	19.29	19.31	19.24	20.00
		8	4	19.27	19.30	19.19	20.00
		8	7	19.25	19.27	19.24	20.00
		15	0	19.37	19.33	19.27	20.00
	64QAM	1	0	19.54	19.51	19.48	20.00
		1	7	19.20	19.44	19.31	20.00
		1	14	19.56	19.56	19.58	20.00
		8	0	19.20	19.23	19.16	20.00

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		8	4	19.18	19.23	19.13	20.00
		8	7	19.15	19.21	19.15	20.00
		15	0	19.28	19.24	19.21	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	19.39	19.34	19.34	20.00
		1	13	19.37	19.38	19.32	20.00
		1	24	19.33	19.36	19.39	20.00
		12	0	19.42	19.41	19.34	20.00
		12	6	19.35	19.33	19.34	20.00
		12	13	19.37	19.41	19.36	20.00
		25	0	19.37	19.38	19.34	20.00
	16QAM	1	0	19.71	19.69	19.66	20.00
		1	13	19.69	19.67	19.60	20.00
		1	24	19.65	19.66	19.66	20.00
		12	0	19.40	19.36	19.35	20.00
		12	6	19.35	19.31	19.29	20.00
		12	13	19.35	19.35	19.32	20.00
		25	0	19.29	19.32	19.27	20.00
	64QAM	1	0	19.61	19.64	19.57	20.00
		1	13	19.62	19.59	19.52	20.00
		1	24	19.58	19.60	19.57	20.00
		12	0	19.33	19.28	19.30	20.00
		12	6	19.27	19.25	19.23	20.00
		12	13	19.28	19.30	19.24	20.00
		25	0	19.22	19.27	19.18	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	19.40	19.40	19.39	20.00
		1	25	19.21	19.11	19.14	20.00
		1	49	19.35	19.35	19.34	20.00
		25	0	19.37	19.42	19.35	20.00
		25	13	19.34	19.38	19.34	20.00
		25	25	19.36	19.39	19.31	20.00
		50	0	19.39	19.33	19.32	20.00
	16QAM	1	0	19.63	19.63	19.65	20.00
		1	25	19.24	19.36	19.46	20.00
		1	49	19.59	19.61	19.65	20.00
		25	0	19.35	19.35	19.30	20.00
		25	13	19.27	19.30	19.29	20.00
		25	25	19.28	19.31	19.25	20.00
		50	0	19.31	19.28	19.27	20.00
	64QAM	1	0	19.55	19.55	19.55	20.00
		1	25	19.18	19.28	19.39	20.00
		1	49	19.52	19.53	19.56	20.00
		25	0	19.28	19.25	19.23	20.00
		25	13	19.20	19.20	19.20	20.00

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		25	25	19.23	19.22	19.20	20.00
		50	0	19.24	19.19	19.19	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	19.40	19.33	19.33	20.00
		1	38	19.41	19.37	19.37	20.00
		1	74	19.33	19.28	19.32	20.00
		36	0	19.41	19.41	19.39	20.00
		36	18	19.40	19.42	19.37	20.00
		36	39	19.38	19.38	19.37	20.00
		75	0	19.37	19.40	19.40	20.00
	16QAM	1	0	19.67	19.58	19.55	20.00
		1	38	19.69	19.54	19.60	20.00
		1	74	19.58	19.49	19.61	20.00
		36	0	19.39	19.39	19.35	20.00
		36	18	19.30	19.35	19.29	20.00
		36	39	19.35	19.35	19.35	20.00
		75	0	19.31	19.34	19.32	20.00
	64QAM	1	0	19.60	19.50	19.48	20.00
		1	38	19.61	19.46	19.55	20.00
		1	74	19.49	19.42	19.52	20.00
		36	0	19.30	19.33	19.26	20.00
		36	18	19.24	19.27	19.22	20.00
		36	39	19.27	19.29	19.29	20.00
		75	0	19.24	19.26	19.25	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	**19.65**	**19.54**	**19.53**	20.00
		1	50	19.12	19.06	19.20	20.00
		1	99	19.49	19.38	19.45	20.00
		50	0	**19.44**	19.41	19.40	20.00
		50	25	19.36	19.37	19.32	20.00
		50	50	19.37	19.38	19.40	20.00
		100	0	19.43	19.39	19.39	20.00
	16QAM	1	0	19.77	19.73	19.77	20.00
		1	50	19.33	19.30	19.35	20.00
		1	99	19.69	19.70	19.70	20.00
		50	0	19.35	19.35	19.35	20.00
		50	25	19.29	19.31	19.29	20.00
		50	50	19.31	19.32	19.33	20.00
		100	0	19.34	19.29	19.32	20.00
	64QAM	1	0	19.71	19.66	19.68	20.00
		1	50	19.27	19.23	19.30	20.00
		1	99	19.62	19.61	19.64	20.00
		50	0	19.27	19.28	19.27	20.00
		50	25	19.23	19.22	19.20	20.00
		50	50	19.25	19.25	19.26	20.00

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		100	0	19.28	19.21	19.22	20.00

LTE Band 4 Receiver on(Left head)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	20.04	20.11	19.95	21.00
		1	2	20.35	19.49	20.15	21.00
		1	5	20.02	20.15	20.06	21.00
		3	0	20.05	20.00	19.95	21.00
		3	2	20.02	19.86	20.00	21.00
		3	3	19.78	19.90	19.85	21.00
		6	0	19.89	20.00	19.62	21.00
	16QAM	1	0	20.49	20.48	20.55	21.00
		1	2	20.01	20.47	20.08	21.00
		1	5	20.23	20.20	20.13	21.00
		3	0	19.83	19.86	19.85	21.00
		3	2	20.16	20.28	19.10	21.00
		3	3	20.21	19.87	19.54	21.00
		6	0	19.98	20.36	20.02	21.00
	64QAM	1	0	20.43	20.40	20.45	21.00
		1	2	19.96	20.37	19.99	21.00
		1	5	20.16	20.13	20.08	21.00
		3	0	19.75	19.78	19.77	21.00
		3	2	20.08	20.21	19.03	21.00
		3	3	20.13	19.77	19.45	21.00
		6	0	19.89	20.30	19.96	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	19.98	20.06	20.08	21.00
		1	7	19.49	19.84	19.74	21.00
		1	14	19.95	20.21	20.07	21.00
		8	0	20.05	19.93	19.69	21.00
		8	4	20.05	19.75	19.57	21.00
		8	7	19.99	20.08	19.98	21.00
		15	0	20.13	20.17	20.05	21.00
	16QAM	1	0	20.46	20.18	20.42	21.00
		1	7	20.42	19.64	19.70	21.00
		1	14	20.36	20.07	20.02	21.00
		8	0	20.01	19.89	20.14	21.00
		8	4	20.14	20.10	20.03	21.00
		8	7	20.00	19.85	20.07	21.00
		15	0	19.93	19.94	19.97	21.00
	64QAM	1	0	20.37	20.12	20.33	21.00
		1	7	20.36	19.56	19.61	21.00
		1	14	20.26	20.01	19.96	21.00
		8	0	19.96	19.79	20.06	21.00

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		8	4	20.04	20.02	19.96	21.00
		8	7	19.92	19.75	19.99	21.00
		15	0	19.84	19.87	19.92	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	20.20	20.11	20.20	21.00
		1	13	20.07	20.07	20.15	21.00
		1	24	19.98	20.11	20.04	21.00
		12	0	20.12	20.17	20.17	21.00
		12	6	19.98	20.18	20.10	21.00
		12	13	20.15	20.08	20.06	21.00
		25	0	20.14	20.08	19.99	21.00
	16QAM	1	0	20.66	20.08	20.72	21.00
		1	13	20.60	20.52	20.30	21.00
		1	24	20.06	20.20	20.14	21.00
		12	0	20.28	20.11	20.08	21.00
		12	6	20.01	20.09	19.94	21.00
		12	13	20.01	20.11	20.00	21.00
		25	0	20.03	19.91	20.09	21.00
	64QAM	1	0	20.61	20.03	20.64	21.00
		1	13	20.54	20.43	20.25	21.00
		1	24	19.99	20.15	20.08	21.00
		12	0	20.20	20.04	20.00	21.00
		12	6	19.93	20.02	19.89	21.00
		12	13	19.96	20.05	19.92	21.00
		25	0	19.94	19.81	20.01	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	20.06	20.21	20.19	21.00
		1	25	19.10	19.65	19.60	21.00
		1	49	20.06	20.14	20.06	21.00
		25	0	20.06	20.22	20.14	21.00
		25	13	20.19	20.16	19.97	21.00
		25	25	20.09	20.10	20.17	21.00
		50	0	20.16	20.03	20.05	21.00
	16QAM	1	0	20.33	20.42	20.45	21.00
		1	25	19.61	20.25	20.76	21.00
		1	49	20.57	20.08	20.46	21.00
		25	0	20.06	20.13	20.11	21.00
		25	13	20.20	20.00	20.10	21.00
		25	25	20.01	20.06	19.93	21.00
		50	0	20.05	20.03	19.99	21.00
	64QAM	1	0	20.26	20.35	20.39	21.00
		1	25	19.55	20.20	20.69	21.00
		1	49	20.48	20.00	20.40	21.00
		25	0	20.00	20.08	20.04	21.00
		25	13	20.14	19.90	20.03	21.00

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		25	25	19.93	19.99	19.87	21.00
		50	0	19.99	19.94	19.93	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	19.93	20.24	19.97	21.00
		1	38	20.04	20.04	20.07	21.00
		1	74	19.96	19.96	19.98	21.00
		36	0	20.13	20.11	20.11	21.00
		36	18	20.13	20.07	20.20	21.00
		36	39	20.06	20.06	20.15	21.00
		75	0	20.04	20.14	20.10	21.00
	16QAM	1	0	20.09	20.80	20.25	21.00
		1	38	20.46	20.52	20.46	21.00
		1	74	20.39	20.39	20.22	21.00
		36	0	20.06	20.05	20.07	21.00
		36	18	20.09	19.97	20.06	21.00
		36	39	19.99	20.12	19.97	21.00
		75	0	19.96	20.08	20.04	21.00
	64QAM	1	0	20.01	20.72	20.20	21.00
		1	38	20.38	20.43	20.36	21.00
		1	74	20.31	20.33	20.16	21.00
		36	0	20.01	19.99	19.99	21.00
		36	18	20.02	19.92	19.97	21.00
		36	39	19.93	20.05	19.90	21.00
		75	0	19.87	20.00	19.94	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	**20.28**	**20.11**	**20.25**	21.00
		1	50	19.92	20.10	19.86	21.00
		1	99	20.19	19.96	20.07	21.00
		50	0	**20.18**	**20.08**	**20.13**	21.00
		50	25	20.06	20.01	20.05	21.00
		50	50	20.04	20.05	20.02	21.00
		100	0	**20.10**	20.00	20.01	21.00
	16QAM	1	0	20.70	20.47	20.60	21.00
		1	50	20.28	20.16	20.86	21.00
		1	99	20.32	20.15	20.22	21.00
		50	0	19.94	19.98	20.07	21.00
		50	25	19.82	19.95	19.99	21.00
		50	50	19.79	19.88	20.05	21.00
		100	0	20.04	20.02	20.01	21.00
	64QAM	1	0	20.61	20.41	20.50	21.00
		1	50	20.20	20.11	20.79	21.00
		1	99	20.25	20.06	20.13	21.00
		50	0	19.88	19.89	19.99	21.00
		50	25	19.77	19.88	19.90	21.00
		50	50	19.71	19.78	19.95	21.00

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		100	0	19.97	19.95	19.93	21.00

LTE Band 4 Receiver on(Right head)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	18.19	18.15	18.02	19.00
		1	2	17.33	18.15	17.55	19.00
		1	5	18.02	18.06	18.09	19.00
		3	0	17.96	18.04	17.98	19.00
		3	2	18.04	17.58	18.16	19.00
		3	3	17.89	18.23	18.15	19.00
		6	0	17.56	17.94	17.96	19.00
	16QAM	1	0	18.32	18.53	18.56	19.00
		1	2	17.32	18.01	18.33	19.00
		1	5	18.45	18.34	18.12	19.00
		3	0	18.30	18.00	18.06	19.00
		3	2	18.23	17.47	18.43	19.00
		3	3	17.95	17.93	17.87	19.00
		6	0	17.87	17.84	18.28	19.00
	64QAM	1	0	18.23	18.45	18.51	19.00
		1	2	17.25	17.95	18.27	19.00
		1	5	18.35	18.27	18.06	19.00
		3	0	18.22	17.92	18.01	19.00
		3	2	18.14	17.40	18.38	19.00
		3	3	17.90	17.87	17.77	19.00
		6	0	17.79	17.75	18.19	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	18.02	18.12	18.09	19.00
		1	7	17.34	17.80	17.92	19.00
		1	14	18.06	18.13	18.02	19.00
		8	0	18.15	17.78	17.85	19.00
		8	4	17.92	18.05	18.15	19.00
		8	7	17.93	17.92	18.03	19.00
		15	0	17.99	18.02	18.07	19.00
	16QAM	1	0	17.82	18.46	18.48	19.00
		1	7	17.97	18.00	17.22	19.00
		1	14	18.34	17.94	18.57	19.00
		8	0	17.87	18.17	18.07	19.00
		8	4	17.88	18.12	18.17	19.00
		8	7	17.93	17.90	18.16	19.00
		15	0	17.82	18.12	18.14	19.00
	64QAM	1	0	17.75	18.39	18.42	19.00
		1	7	17.90	17.91	17.16	19.00
		1	14	18.28	17.88	18.50	19.00
		8	0	17.79	18.10	18.02	19.00

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		8	4	17.81	18.04	18.11	19.00
		8	7	17.88	17.82	18.10	19.00
		15	0	17.72	18.06	18.06	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	18.08	17.99	18.12	19.00
		1	13	18.24	18.13	18.06	19.00
		1	24	18.13	18.08	18.04	19.00
		12	0	18.13	18.09	18.09	19.00
		12	6	18.11	18.08	18.03	19.00
		12	13	18.03	18.12	18.08	19.00
		25	0	18.04	18.07	18.02	19.00
	16QAM	1	0	18.49	18.57	18.34	19.00
		1	13	18.35	18.34	18.24	19.00
		1	24	18.44	18.22	18.56	19.00
		12	0	18.08	18.07	18.07	19.00
		12	6	17.89	18.00	17.96	19.00
		12	13	18.09	17.98	17.96	19.00
		25	0	18.06	17.96	17.93	19.00
	64QAM	1	0	18.44	18.48	18.29	19.00
		1	13	18.25	18.38	18.19	19.00
		1	24	18.35	18.13	18.50	19.00
		12	0	18.02	17.98	17.98	19.00
		12	6	17.83	17.92	17.87	19.00
		12	13	18.03	17.92	17.90	19.00
		25	0	18.00	17.89	17.85	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	18.15	18.10	18.11	19.00
		1	25	17.43	18.39	17.90	19.00
		1	49	17.96	17.96	18.03	19.00
		25	0	17.97	18.06	18.07	19.00
		25	13	18.00	18.09	18.09	19.00
		25	25	18.06	18.05	18.26	19.00
		50	0	18.07	18.04	18.10	19.00
	16QAM	1	0	18.38	18.56	17.82	19.00
		1	25	18.33	18.34	17.77	19.00
		1	49	18.46	18.42	18.12	19.00
		25	0	18.08	18.06	18.01	19.00
		25	13	17.93	18.02	17.99	19.00
		25	25	18.02	17.96	18.02	19.00
		50	0	17.97	17.93	17.95	19.00
	64QAM	1	0	18.28	18.47	17.77	19.00
		1	25	18.33	18.37	17.69	19.00
		1	49	18.38	18.36	18.06	19.00
		25	0	18.00	17.96	17.95	19.00
		25	13	17.86	17.95	17.94	19.00

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		25	25	17.96	17.91	17.96	19.00
		50	0	17.90	17.84	17.86	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	18.08	18.19	18.03	19.00
		1	38	18.15	18.08	17.97	19.00
		1	74	17.98	18.02	17.90	19.00
		36	0	18.09	18.15	18.06	19.00
		36	18	17.99	18.00	18.08	19.00
		36	39	18.03	17.99	18.01	19.00
		75	0	18.15	18.06	18.11	19.00
	16QAM	1	0	18.21	18.16	18.31	19.00
		1	38	18.21	18.30	18.17	19.00
		1	74	18.31	17.74	18.23	19.00
		36	0	18.00	18.05	17.98	19.00
		36	18	18.06	18.05	17.99	19.00
		36	39	17.98	17.97	17.98	19.00
		75	0	17.94	18.06	17.99	19.00
	64QAM	1	0	18.14	18.07	18.22	19.00
		1	38	18.14	18.22	18.12	19.00
		1	74	18.26	17.67	18.15	19.00
		36	0	17.92	17.97	17.92	19.00
		36	18	17.98	17.99	17.94	19.00
		36	39	17.90	17.88	17.89	19.00
		75	0	17.85	17.98	17.93	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	**18.26**	18.07	18.18	19.00
		1	50	17.36	17.78	17.67	19.00
		1	99	18.13	18.05	18.17	19.00
		50	0	18.08	18.07	18.04	19.00
		50	25	**18.12**	18.09	18.08	19.00
		50	50	18.05	18.04	18.00	19.00
		100	0	18.09	18.01	18.08	19.00
	16QAM	1	0	18.38	18.34	18.33	19.00
		1	50	17.95	18.32	17.86	19.00
		1	99	18.20	18.18	18.58	19.00
		50	0	17.95	17.99	18.04	19.00
		50	25	18.07	17.91	17.96	19.00
		50	50	17.94	17.96	18.02	19.00
		100	0	18.00	18.02	18.03	19.00
	64QAM	1	0	18.32	18.38	18.26	19.00
		1	50	17.87	18.33	17.77	19.00
		1	99	18.10	18.12	18.27	19.00
		50	0	17.85	17.93	17.95	19.00
		50	25	17.98	17.81	17.87	19.00
		50	50	17.85	17.91	17.93	19.00

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		100	0	17.93	17.95	17.96	19.00

LTE Band 4 Receiver off (Body Scene)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	22.45	22.46	22.42	23.50
		1	2	22.29	22.21	22.63	23.50
		1	5	22.46	22.33	22.47	23.50
		3	0	22.34	22.46	21.43	23.50
		3	2	22.27	21.81	21.51	23.50
		3	3	22.51	22.34	21.57	23.50
		6	0	21.58	21.21	21.53	23.00
	16QAM	1	0	21.89	21.63	21.80	23.00
		1	2	21.42	21.24	21.39	23.00
		1	5	21.36	21.37	21.49	23.00
		3	0	21.49	21.44	20.46	23.00
		3	2	21.03	20.35	20.55	23.00
		3	3	21.40	21.22	20.52	23.00
		6	0	20.50	20.26	20.49	22.00
	64QAM	1	0	20.94	20.65	20.85	22.00
		1	2	20.46	20.33	20.48	22.00
		1	5	20.37	20.40	20.50	22.00
		3	0	20.57	20.48	19.48	22.00
		3	2	20.08	19.43	19.65	22.00
		3	3	20.48	20.25	19.52	22.00
		6	0	19.56	19.31	19.57	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	22.36	22.54	22.42	23.50
		1	7	22.15	22.11	22.63	23.50
		1	14	22.44	22.43	22.47	23.50
		8	0	21.40	21.57	21.43	23.00
		8	4	21.51	21.39	21.51	23.00
		8	7	21.37	21.33	21.57	23.00
		15	0	21.46	21.44	21.53	23.00
	16QAM	1	0	21.74	20.96	21.80	23.00
		1	7	21.31	21.54	21.39	23.00
		1	14	21.93	21.35	21.49	23.00
		8	0	20.45	20.35	20.46	22.00
		8	4	20.04	20.35	20.55	22.00
		8	7	20.23	20.54	20.52	22.00
		15	0	20.19	20.43	20.49	22.00
	64QAM	1	0	20.80	20.05	20.83	22.00
		1	7	20.40	20.57	20.45	22.00
		1	14	20.96	20.40	20.53	22.00
		8	0	19.51	19.37	19.55	21.00

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		8	4	19.04	19.40	19.57	21.00
		8	7	19.25	19.59	19.53	21.00
		15	0	19.25	19.48	19.58	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	22.44	22.43	22.38	23.50
		1	13	22.44	22.52	22.47	23.50
		1	24	22.61	22.24	22.42	23.50
		12	0	21.46	21.51	21.54	23.00
		12	6	21.51	21.51	21.39	23.00
		12	13	21.48	21.45	21.50	23.00
		25	0	21.45	21.38	21.48	23.00
	16QAM	1	0	22.02	21.79	21.52	23.00
		1	13	21.50	21.84	21.45	23.00
		1	24	21.86	21.48	21.25	23.00
		12	0	20.44	20.58	20.37	22.00
		12	6	20.30	20.35	20.32	22.00
		12	13	20.39	20.35	20.42	22.00
		25	0	20.42	20.25	20.47	22.00
	64QAM	1	0	21.09	20.88	20.60	22.00
		1	13	20.52	20.89	20.51	22.00
		1	24	20.95	20.51	20.29	22.00
		12	0	19.52	19.67	19.46	21.00
		12	6	19.31	19.45	19.35	21.00
		12	13	19.48	19.37	19.49	21.00
		25	0	19.50	19.27	19.51	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	22.62	22.54	22.40	23.50
		1	25	22.37	22.52	22.58	23.50
		1	49	22.53	22.32	22.42	23.50
		25	0	21.40	21.42	21.51	23.00
		25	13	21.40	21.50	21.50	23.00
		25	25	21.52	21.37	21.46	23.00
		50	0	21.49	21.45	21.54	23.00
	16QAM	1	0	21.56	21.84	21.86	23.00
		1	25	21.26	21.77	21.73	23.00
		1	49	21.52	21.58	21.58	23.00
		25	0	20.38	20.37	20.33	22.00
		25	13	20.38	20.43	20.35	22.00
		25	25	20.44	20.30	20.39	22.00
		50	0	20.38	20.34	20.36	22.00
	64QAM	1	0	20.59	20.87	20.90	22.00
		1	25	20.31	20.84	20.74	22.00
		1	49	20.57	20.63	20.67	22.00
		25	0	19.47	19.43	19.39	21.00
		25	13	19.44	19.49	19.38	21.00

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		25	25	19.46	19.38	19.45	21.00
		50	0	19.44	19.37	19.43	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	22.42	22.56	22.44	23.50
		1	38	22.40	22.52	22.40	23.50
		1	74	22.38	22.32	22.43	23.50
		36	0	21.55	21.51	21.45	23.00
		36	18	21.53	21.40	21.53	23.00
		36	39	21.56	21.48	21.54	23.00
		75	0	21.49	21.45	21.49	23.00
	16QAM	1	0	21.69	21.93	21.65	23.00
		1	38	21.94	21.71	21.81	23.00
		1	74	21.60	21.75	21.43	23.00
		36	0	20.47	20.43	20.44	22.00
		36	18	20.45	20.46	20.38	22.00
		36	39	20.42	20.46	20.50	22.00
		75	0	20.44	20.38	20.47	22.00
	64QAM	1	0	20.75	20.99	20.67	22.00
		1	38	20.97	20.78	20.89	22.00
		1	74	20.70	20.80	20.48	22.00
		36	0	19.48	19.45	19.53	21.00
		36	18	19.48	19.52	19.45	21.00
		36	39	19.52	19.46	19.52	21.00
		75	0	19.53	19.44	19.53	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	22.56	**22.70**	22.53	23.50
		1	50	22.35	22.18	**22.58**	23.50
		1	99	**22.63**	22.50	22.53	23.50
		50	0	**21.59**	21.54	21.46	23.00
		50	25	21.51	21.51	21.45	23.00
		50	50	21.40	21.43	21.43	23.00
		100	0	21.49	21.46	21.40	23.00
	16QAM	1	0	21.80	21.38	22.03	23.00
		1	50	21.61	21.62	21.58	23.00
		1	99	21.80	21.77	21.68	23.00
		50	0	20.44	20.40	20.39	22.00
		50	25	20.42	20.30	20.50	22.00
		50	50	20.39	20.30	20.41	22.00
		100	0	20.36	20.41	20.35	22.00
	64QAM	1	0	20.81	20.45	21.07	22.00
		1	50	20.68	20.66	20.65	22.00
		1	99	20.88	20.81	20.71	22.00
		50	0	19.48	19.49	19.48	21.00
		50	25	19.45	19.36	19.52	21.00
		50	50	19.49	19.32	19.47	21.00

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		100	0	19.36	19.42	19.38	21.00

LTE Band 4 Receiver on(Left head) +WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	16.80	16.74	16.70	18.00
		1	2	16.41	16.26	16.29	18.00
		1	5	16.63	16.68	16.59	18.00
		3	0	16.66	16.56	16.56	18.00
		3	2	16.56	16.50	16.44	18.00
		3	3	16.49	16.47	16.53	18.00
		6	0	16.61	16.67	16.56	18.00
	16QAM	1	0	16.94	17.01	17.03	18.00
		1	2	16.90	16.67	16.60	18.00
		1	5	16.94	16.70	16.97	18.00
		3	0	16.59	16.56	16.51	18.00
		3	2	16.52	16.44	16.49	18.00
		3	3	16.47	16.37	16.45	18.00
		6	0	16.55	16.45	16.44	18.00
	64QAM	1	0	16.89	16.96	16.95	18.00
		1	2	16.82	16.61	16.53	18.00
		1	5	16.87	16.63	16.90	18.00
		3	0	16.52	16.49	16.42	18.00
		3	2	16.42	16.38	16.41	18.00
		3	3	16.40	16.29	16.37	18.00
		6	0	16.48	16.36	16.37	18.00
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	16.88	16.81	16.76	18.00
		1	7	16.46	16.35	16.38	18.00
		1	14	16.69	16.77	16.68	18.00
		8	0	16.71	16.61	16.61	18.00
		8	4	16.64	16.60	16.52	18.00
		8	7	16.58	16.53	16.58	18.00
		15	0	16.70	16.73	16.62	18.00
	16QAM	1	0	17.02	17.06	17.09	18.00
		1	7	16.98	16.77	16.68	18.00
		1	14	17.03	16.80	17.02	18.00
		8	0	16.65	16.65	16.60	18.00
		8	4	16.58	16.51	16.55	18.00
		8	7	16.52	16.47	16.53	18.00
		15	0	16.61	16.54	16.52	18.00
	64QAM	1	0	16.92	17.00	17.02	18.00
		1	7	16.91	16.70	16.61	18.00
		1	14	16.96	16.72	16.97	18.00
		8	0	16.55	16.57	16.54	18.00

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		8	4	16.50	16.45	16.46	18.00
		8	7	16.45	16.39	16.45	18.00
		15	0	16.53	16.46	16.45	18.00
Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	16.97	16.88	16.83	18.00
		1	13	16.55	16.45	16.48	18.00
		1	24	16.78	16.83	16.77	18.00
		12	0	16.79	16.70	16.68	18.00
		12	6	16.70	16.66	16.60	18.00
		12	13	16.66	16.60	16.64	18.00
		25	0	16.76	16.79	16.68	18.00
	16QAM	1	0	17.11	17.14	17.15	18.00
		1	13	17.04	16.85	16.77	18.00
		1	24	17.10	16.87	17.07	18.00
		12	0	16.74	16.75	16.70	18.00
		12	6	16.66	16.57	16.63	18.00
		12	13	16.57	16.54	16.60	18.00
		25	0	16.71	16.64	16.59	18.00
	64QAM	1	0	17.05	17.06	17.08	18.00
		1	13	16.98	16.77	16.67	18.00
		1	24	17.02	16.78	17.01	18.00
		12	0	16.66	16.70	16.61	18.00
		12	6	16.60	16.50	16.55	18.00
		12	13	16.47	16.48	16.50	18.00
		25	0	16.65	16.57	16.54	18.00
Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	17.02	16.97	16.92	18.00
		1	25	16.63	16.51	16.53	18.00
		1	49	16.87	16.89	16.84	18.00
		25	0	16.85	16.79	16.74	18.00
		25	13	16.75	16.76	16.70	18.00
		25	25	16.72	16.70	16.70	18.00
		50	0	16.85	16.88	16.77	18.00
	16QAM	1	0	17.21	17.23	17.23	18.00
		1	25	17.11	16.94	16.82	18.00
		1	49	17.18	16.93	17.14	18.00
		25	0	16.81	16.80	16.75	18.00
		25	13	16.72	16.66	16.69	18.00
		25	25	16.66	16.62	16.67	18.00
		50	0	16.76	16.72	16.69	18.00
	64QAM	1	0	17.15	17.16	17.14	18.00
		1	25	17.04	16.86	16.77	18.00
		1	49	17.13	16.84	17.07	18.00
		25	0	16.74	16.70	16.65	18.00
		25	13	16.64	16.56	16.62	18.00

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		25	25	16.61	16.56	16.61	18.00
		50	0	16.71	16.65	16.60	18.00
Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	17.07	17.06	17.02	18.00
		1	38	16.70	16.57	16.60	18.00
		1	74	16.96	16.94	16.92	18.00
		36	0	16.94	16.89	16.81	18.00
		36	18	16.81	16.81	16.76	18.00
		36	39	16.82	16.80	16.80	18.00
		75	0	16.94	16.94	16.85	18.00
	16QAM	1	0	17.28	17.30	17.33	18.00
		1	38	17.19	17.00	16.87	18.00
		1	74	17.27	17.02	17.19	18.00
		36	0	16.90	16.87	16.82	18.00
		36	18	16.78	16.74	16.76	18.00
		36	39	16.74	16.71	16.76	18.00
		75	0	16.84	16.81	16.74	18.00
	64QAM	1	0	17.19	17.22	17.26	18.00
		1	38	17.12	16.94	16.80	18.00
		1	74	17.19	16.97	17.11	18.00
		36	0	16.82	16.80	16.73	18.00
		36	18	16.69	16.66	16.71	18.00
		36	39	16.65	16.64	16.66	18.00
		75	0	16.74	16.74	16.64	18.00
Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	**17.15**	17.12	17.11	18.00
		1	50	16.79	16.66	16.67	18.00
		1	99	17.03	17.02	16.99	18.00
		50	0	17.01	16.95	16.91	18.00
		50	25	16.91	16.88	16.84	18.00
		50	50	16.91	16.90	16.86	18.00
		100	0	17.02	17.00	16.91	18.00
	16QAM	1	0	17.35	17.36	17.39	18.00
		1	50	17.25	17.10	16.96	18.00
		1	99	17.35	17.11	17.28	18.00
		50	0	16.95	16.93	16.87	18.00
		50	25	16.87	16.80	16.82	18.00
		50	50	16.84	16.81	16.83	18.00
		100	0	16.94	16.87	16.83	18.00
	64QAM	1	0	17.28	17.28	17.34	18.00
		1	50	17.15	17.01	16.87	18.00
		1	99	17.26	17.01	17.19	18.00
		50	0	16.86	16.84	16.78	18.00
		50	25	16.80	16.71	16.74	18.00
		50	50	16.75	16.71	16.75	18.00

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		100	0	16.88	16.80	16.77	18.00

LTE Band 4 Receiver on(Right head) +WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	14.75	14.77	14.68	16.00
		1	2	14.55	14.23	14.42	16.00
		1	5	14.59	14.55	14.61	16.00
		3	0	14.66	14.59	14.53	16.00
		3	2	14.49	14.54	14.42	16.00
		3	3	14.56	14.56	14.42	16.00
		6	0	14.61	14.53	14.52	16.00
	16QAM	1	0	14.96	14.96	15.16	16.00
		1	2	14.50	14.73	14.64	16.00
		1	5	14.86	14.78	14.95	16.00
		3	0	14.53	14.59	14.51	16.00
		3	2	14.49	14.48	14.48	16.00
		3	3	14.52	14.43	14.44	16.00
		6	0	14.54	14.41	14.32	16.00
	64QAM	1	0	14.90	14.88	15.06	16.00
		1	2	14.43	14.64	14.55	16.00
		1	5	14.79	14.71	14.89	16.00
		3	0	14.44	14.52	14.44	16.00
		3	2	14.41	14.41	14.41	16.00
		3	3	14.47	14.34	14.36	16.00
		6	0	14.46	14.32	14.23	16.00
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	14.84	14.84	14.74	16.00
		1	7	14.63	14.30	14.50	16.00
		1	14	14.67	14.64	14.68	16.00
		8	0	14.72	14.65	14.60	16.00
		8	4	14.58	14.61	14.48	16.00
		8	7	14.65	14.64	14.49	16.00
		15	0	14.68	14.62	14.58	16.00
	16QAM	1	0	15.02	15.05	15.22	16.00
		1	7	14.59	14.79	14.70	16.00
		1	14	14.91	14.85	15.03	16.00
		8	0	14.63	14.64	14.59	16.00
		8	4	14.55	14.56	14.57	16.00
		8	7	14.59	14.50	14.51	16.00
		15	0	14.63	14.47	14.41	16.00
	64QAM	1	0	14.94	14.97	15.16	16.00
		1	7	14.50	14.69	14.63	16.00
		1	14	14.85	14.78	14.98	16.00
		8	0	14.54	14.57	14.52	16.00

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		8	4	14.47	14.47	14.51	16.00
		8	7	14.52	14.44	14.45	16.00
		15	0	14.58	14.41	14.34	16.00
Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	14.93	14.90	14.84	16.00
		1	13	14.68	14.40	14.59	16.00
		1	24	14.76	14.73	14.74	16.00
		12	0	14.80	14.70	14.67	16.00
		12	6	14.63	14.67	14.58	16.00
		12	13	14.71	14.71	14.57	16.00
		25	0	14.76	14.69	14.67	16.00
	16QAM	1	0	15.10	15.14	15.28	16.00
		1	13	14.68	14.88	14.79	16.00
		1	24	15.01	14.91	15.11	16.00
		12	0	14.70	14.70	14.67	16.00
		12	6	14.61	14.62	14.64	16.00
		12	13	14.64	14.59	14.57	16.00
		25	0	14.70	14.57	14.51	16.00
	64QAM	1	0	15.03	15.08	15.23	16.00
		1	13	14.61	14.83	14.73	16.00
		1	24	14.93	14.82	15.01	16.00
		12	0	14.61	14.61	14.59	16.00
		12	6	14.54	14.55	14.55	16.00
		12	13	14.55	14.52	14.47	16.00
		25	0	14.63	14.52	14.41	16.00
Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	15.00	14.96	14.92	16.00
		1	25	14.75	14.49	14.64	16.00
		1	49	14.82	14.79	14.79	16.00
		25	0	14.85	14.79	14.73	16.00
		25	13	14.71	14.76	14.67	16.00
		25	25	14.76	14.78	14.67	16.00
		50	0	14.83	14.76	14.77	16.00
	16QAM	1	0	15.18	15.20	15.33	16.00
		1	25	14.76	14.95	14.86	16.00
		1	49	15.08	15.01	15.18	16.00
		25	0	14.79	14.78	14.75	16.00
		25	13	14.67	14.68	14.70	16.00
		25	25	14.69	14.67	14.63	16.00
		50	0	14.76	14.62	14.61	16.00
	64QAM	1	0	15.11	15.12	15.27	16.00
		1	25	14.71	14.90	14.78	16.00
		1	49	15.02	14.93	15.08	16.00
		25	0	14.73	14.68	14.68	16.00
		25	13	14.58	14.61	14.64	16.00

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		25	25	14.61	14.57	14.55	16.00
		50	0	14.70	14.54	14.55	16.00
Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	15.10	15.03	15.00	16.00
		1	38	14.84	14.57	14.74	16.00
		1	74	14.89	14.86	14.85	16.00
		36	0	14.91	14.87	14.83	16.00
		36	18	14.80	14.83	14.74	16.00
		36	39	14.84	14.83	14.76	16.00
		75	0	14.91	14.85	14.82	16.00
	16QAM	1	0	15.28	15.27	15.39	16.00
		1	38	14.84	15.05	14.93	16.00
		1	74	15.13	15.07	15.26	16.00
		36	0	14.85	14.84	14.81	16.00
		36	18	14.73	14.74	14.76	16.00
		36	39	14.77	14.76	14.71	16.00
		75	0	14.84	14.72	14.71	16.00
	64QAM	1	0	15.20	15.19	15.34	16.00
		1	38	14.77	14.97	14.86	16.00
		1	74	15.06	15.02	15.18	16.00
		36	0	14.78	14.74	14.74	16.00
		36	18	14.65	14.66	14.67	16.00
		36	39	14.68	14.66	14.62	16.00
		75	0	14.76	14.63	14.65	16.00
Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	**15.15**	15.08	15.09	16.00
		1	50	14.90	14.66	14.79	16.00
		1	99	14.98	14.92	14.95	16.00
		50	0	14.97	14.95	14.90	16.00
		50	25	14.87	14.89	14.81	16.00
		50	50	14.92	14.90	14.86	16.00
		100	0	14.98	14.94	14.88	16.00
	16QAM	1	0	15.35	15.33	15.46	16.00
		1	50	14.91	15.14	15.03	16.00
		1	99	15.22	15.16	15.32	16.00
		50	0	14.93	14.90	14.86	16.00
		50	25	14.81	14.80	14.84	16.00
		50	50	14.82	14.83	14.81	16.00
		100	0	14.90	14.81	14.80	16.00
	64QAM	1	0	15.26	15.25	15.38	16.00
		1	50	14.83	15.04	14.95	16.00
		1	99	15.14	15.11	15.22	16.00
		50	0	14.85	14.84	14.77	16.00
		50	25	14.75	14.72	14.76	16.00
		50	50	14.73	14.76	14.74	16.00

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		100	0	14.81	14.74	14.73	16.00

LTE Band 4 Receiver off (Body Scene)+WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	19.43	19.50	19.51	20.50
		1	2	19.03	19.26	18.69	20.50
		1	5	19.37	19.37	19.41	20.50
		3	0	19.43	19.40	19.13	20.50
		3	2	19.27	19.31	19.38	20.50
		3	3	19.39	19.37	19.40	20.50
		6	0	19.53	19.37	19.44	20.50
	16QAM	1	0	19.95	19.30	19.60	20.50
		1	2	19.49	19.67	19.33	20.50
		1	5	19.44	19.48	19.83	20.50
		3	0	19.48	19.62	19.32	20.50
		3	2	19.15	19.05	18.96	20.50
		3	3	19.31	19.45	19.53	20.50
		6	0	19.06	19.40	19.28	20.50
	64QAM	1	0	19.87	19.24	19.51	20.50
		1	2	19.43	19.59	19.27	20.50
		1	5	19.35	19.40	19.76	20.50
		3	0	19.41	19.53	19.25	20.50
		3	2	19.07	18.99	18.86	20.50
		3	3	19.26	19.38	19.44	20.50
		6	0	19.00	19.34	19.19	20.50
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	19.42	19.48	19.47	20.50
		1	7	19.12	19.16	19.07	20.50
		1	14	19.47	19.41	19.39	20.50
		8	0	19.36	19.37	19.34	20.50
		8	4	19.38	19.39	19.43	20.50
		8	7	19.39	19.38	19.34	20.50
		15	0	19.42	19.46	19.43	20.50
	16QAM	1	0	19.65	19.74	19.71	20.50
		1	7	19.38	19.35	19.43	20.50
		1	14	19.71	19.68	19.68	20.50
		8	0	19.39	19.40	19.39	20.50
		8	4	19.33	19.37	19.32	20.50
		8	7	19.31	19.32	19.28	20.50
		15	0	19.39	19.42	19.40	20.50
	64QAM	1	0	19.59	19.65	19.65	20.50
		1	7	19.32	19.29	19.35	20.50
		1	14	19.63	19.62	19.61	20.50
		8	0	19.34	19.33	19.33	20.50

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		8	4	19.25	19.29	19.24	20.50
		8	7	19.23	19.24	19.22	20.50
		15	0	19.31	19.32	19.34	20.50
Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	19.47	19.44	19.48	20.50
		1	13	19.44	19.44	19.45	20.50
		1	24	19.41	19.42	19.37	20.50
		12	0	19.47	19.48	19.54	20.50
		12	6	19.43	19.44	19.44	20.50
		12	13	19.46	19.49	19.47	20.50
		25	0	19.44	19.47	19.48	20.50
	16QAM	1	0	19.66	19.74	19.77	20.50
		1	13	19.68	19.78	19.76	20.50
		1	24	19.67	19.69	19.70	20.50
		12	0	19.46	19.47	19.47	20.50
		12	6	19.43	19.44	19.42	20.50
		12	13	19.45	19.45	19.43	20.50
		25	0	19.39	19.37	19.40	20.50
	64QAM	1	0	19.60	19.68	19.69	20.50
		1	13	19.61	19.72	19.67	20.50
		1	24	19.58	19.59	19.63	20.50
		12	0	19.38	19.40	19.41	20.50
		12	6	19.36	19.34	19.35	20.50
		12	13	19.39	19.37	19.34	20.50
		25	0	19.31	19.29	19.34	20.50
Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	19.45	19.50	19.52	20.50
		1	25	19.20	19.20	19.29	20.50
		1	49	19.47	19.43	19.43	20.50
		25	0	19.48	19.47	19.48	20.50
		25	13	19.44	19.48	19.45	20.50
		25	25	19.47	19.46	19.46	20.50
		50	0	19.46	19.42	19.44	20.50
	16QAM	1	0	19.75	19.73	19.74	20.50
		1	25	19.45	19.45	19.55	20.50
		1	49	19.75	19.65	19.72	20.50
		25	0	19.40	19.45	19.40	20.50
		25	13	19.39	19.43	19.40	20.50
		25	25	19.38	19.39	19.39	20.50
		50	0	19.40	19.37	19.38	20.50
	64QAM	1	0	19.68	19.65	19.67	20.50
		1	25	19.39	19.39	19.48	20.50
		1	49	19.67	19.57	19.63	20.50
		25	0	19.32	19.38	19.34	20.50
		25	13	19.32	19.34	19.31	20.50

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		25	25	19.29	19.30	19.34	20.50
		50	0	19.33	19.29	19.31	20.50
Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	19.44	19.49	19.50	20.50
		1	38	19.43	19.46	19.41	20.50
		1	74	19.34	19.40	19.38	20.50
		36	0	19.51	19.58	19.51	20.50
		36	18	19.46	19.46	19.48	20.50
		36	39	19.52	19.50	19.47	20.50
		75	0	19.47	19.45	19.48	20.50
	16QAM	1	0	19.65	19.80	19.75	20.50
		1	38	19.64	19.74	19.64	20.50
		1	74	19.54	19.66	19.66	20.50
		36	0	19.47	19.50	19.48	20.50
		36	18	19.38	19.40	19.43	20.50
		36	39	19.44	19.42	19.42	20.50
		75	0	19.40	19.38	19.42	20.50
	64QAM	1	0	19.59	19.71	19.67	20.50
		1	38	19.57	19.66	19.56	20.50
		1	74	19.48	19.56	19.58	20.50
		36	0	19.41	19.43	19.40	20.50
		36	18	19.29	19.31	19.33	20.50
		36	39	19.34	19.34	19.34	20.50
		75	0	19.35	19.33	19.36	20.50
Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	**19.75**	19.68	19.63	20.50
		1	50	19.34	19.27	19.22	20.50
		1	99	19.56	19.48	19.48	20.50
		50	0	**19.54**	**19.53**	**19.47**	20.50
		50	25	19.46	19.44	19.42	20.50
		50	50	19.48	19.46	19.41	20.50
		100	0	19.53	19.48	19.46	20.50
	16QAM	1	0	19.89	19.87	19.81	20.50
		1	50	19.54	19.48	19.39	20.50
		1	99	19.82	19.73	19.73	20.50
		50	0	19.49	19.46	19.44	20.50
		50	25	19.40	19.38	19.35	20.50
		50	50	19.42	19.38	19.37	20.50
		100	0	19.47	19.40	19.40	20.50
	64QAM	1	0	19.81	19.77	19.76	20.50
		1	50	19.47	19.41	19.31	20.50
		1	99	19.72	19.64	19.64	20.50
		50	0	19.44	19.39	19.36	20.50
		50	25	19.31	19.28	19.29	20.50
		50	50	19.35	19.31	19.27	20.50

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		100	0	19.40	19.35	19.34	20.50

LTE Band 5 Receiver on(Left head)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	21.04	20.93	20.88	22.00
		1	2	21.35	20.35	20.51	22.00
		1	5	20.93	20.88	20.81	22.00
		3	0	20.91	21.00	20.81	22.00
		3	2	21.36	21.22	21.09	22.00
		3	3	20.76	20.76	20.86	22.00
		6	0	21.26	20.92	20.83	22.00
	16QAM	1	0	21.11	21.25	21.33	22.00
		1	2	21.01	20.80	20.95	22.00
		1	5	21.26	21.11	21.15	22.00
		3	0	20.71	21.13	20.62	22.00
		3	2	20.82	20.31	21.03	22.00
		3	3	20.72	20.63	21.00	22.00
		6	0	21.02	20.67	20.88	22.00
	64QAM	1	0	21.03	21.15	21.23	22.00
		1	2	20.95	20.72	20.89	22.00
		1	5	21.18	21.06	21.08	22.00
		3	0	20.62	21.08	20.54	22.00
		3	2	20.72	20.21	20.94	22.00
		3	3	20.64	20.56	20.92	22.00
		6	0	20.96	20.58	20.80	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	21.05	20.85	20.93	22.00
		1	7	20.65	20.07	20.06	22.00
		1	14	20.89	20.82	20.94	22.00
		8	0	20.95	20.82	21.08	22.00
		8	4	20.86	21.00	20.96	22.00
		8	7	20.91	20.69	21.00	22.00
		15	0	21.03	20.96	20.75	22.00
	16QAM	1	0	21.34	21.12	21.14	22.00
		1	7	20.38	20.98	20.96	22.00
		1	14	21.10	21.09	21.05	22.00
		8	0	20.77	20.83	21.05	22.00
		8	4	21.03	20.93	20.83	22.00
		8	7	20.80	20.72	20.90	22.00
		15	0	20.91	20.91	20.83	22.00
	64QAM	1	0	21.25	21.07	21.04	22.00
		1	7	20.29	20.92	20.89	22.00
		1	14	21.02	21.00	20.99	22.00
		8	0	20.68	20.76	20.98	22.00
		8	4	20.96	20.88	20.75	22.00

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		8	7	20.72	20.65	20.83	22.00
		15	0	20.84	20.85	20.77	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20425	20525	20625	
5MHz	QPSK	1	0	20.92	20.91	21.02	22.00
		1	13	21.09	20.92	21.00	22.00
		1	24	20.96	20.89	20.81	22.00
		12	0	20.95	20.96	20.96	22.00
		12	6	20.84	20.99	20.97	22.00
		12	13	21.06	20.97	20.89	22.00
		25	0	20.99	20.92	20.85	22.00
	16QAM	1	0	21.22	21.13	20.98	22.00
		1	13	21.23	21.13	21.38	22.00
		1	24	21.33	21.36	20.94	22.00
		12	0	20.94	20.90	21.02	22.00
		12	6	20.90	20.84	20.77	22.00
		12	13	21.02	20.94	20.92	22.00
		25	0	20.90	20.93	20.93	22.00
	64QAM	1	0	21.16	21.07	20.92	22.00
		1	13	21.16	21.07	21.31	22.00
		1	24	21.24	21.27	20.88	22.00
		12	0	20.85	20.83	20.96	22.00
		12	6	20.84	20.78	20.70	22.00
		12	13	20.93	20.85	20.86	22.00
		25	0	20.80	20.86	20.84	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20450	20525	20600	
10MHz	QPSK	1	0	**21.08**	21.04	21.02	22.00
		1	25	20.41	21.07	20.17	22.00
		1	49	20.87	20.80	21.01	22.00
		25	0	**21.07**	**21.05**	**21.01**	22.00
		25	13	20.97	21.00	20.92	22.00
		25	25	20.95	20.98	20.99	22.00
		50	0	21.01	20.90	20.92	22.00
	16QAM	1	0	21.49	20.85	21.60	22.00
		1	25	20.18	21.55	20.92	22.00
		1	49	20.80	21.31	21.43	22.00
		25	0	20.90	20.88	20.96	22.00
		25	13	20.91	20.97	20.86	22.00
		25	25	20.95	20.76	20.80	22.00
		50	0	20.94	20.99	20.94	22.00
	64QAM	1	0	21.43	20.78	21.50	22.00
		1	25	20.12	21.48	20.86	22.00
		1	49	20.72	21.25	21.37	22.00
		25	0	20.84	20.80	20.87	22.00
		25	13	20.83	20.89	20.78	22.00
		25	25	20.86	20.70	20.74	22.00

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		50	0	20.89	20.90	20.85	22.00

LTE Band 5 Receiver on(Right head)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	20.55	20.54	20.44	21.50
		1	2	20.89	20.06	20.75	21.50
		1	5	20.49	20.43	20.43	21.50
		3	0	20.29	20.39	20.04	21.50
		3	2	20.26	20.26	19.92	21.50
		3	3	20.32	20.25	20.35	21.50
		6	0	20.40	20.52	20.21	21.50
	16QAM	1	0	20.93	20.38	20.82	21.50
		1	2	20.90	20.00	20.67	21.50
		1	5	20.54	20.73	20.96	21.50
		3	0	20.31	20.19	20.60	21.50
		3	2	20.33	20.49	20.13	21.50
		3	3	20.48	20.08	20.18	21.50
		6	0	20.35	20.48	20.27	21.50
	64QAM	1	0	20.95	20.32	20.75	21.50
		1	2	20.80	19.91	20.60	21.50
		1	5	20.45	20.68	20.92	21.50
		3	0	20.22	20.11	20.52	21.50
		3	2	20.26	20.41	20.05	21.50
		3	3	20.41	20.02	20.10	21.50
		6	0	20.25	20.42	20.18	21.50
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	20.46	20.44	20.32	21.50
		1	7	20.19	20.06	20.09	21.50
		1	14	20.41	20.32	20.29	21.50
		8	0	20.39	20.38	20.19	21.50
		8	4	20.40	20.39	20.27	21.50
		8	7	20.52	20.46	20.23	21.50
		15	0	20.50	20.34	20.41	21.50
	16QAM	1	0	20.58	20.77	20.53	21.50
		1	7	19.99	20.96	20.94	21.50
		1	14	20.98	20.36	20.68	21.50
		8	0	20.49	20.34	20.31	21.50
		8	4	20.39	20.71	20.29	21.50
		8	7	20.66	20.36	20.51	21.50
		15	0	20.31	20.45	20.28	21.50
	64QAM	1	0	20.52	20.69	20.46	21.50
		1	7	19.93	20.96	20.91	21.50
		1	14	20.98	20.27	20.61	21.50
		8	0	20.41	20.26	20.26	21.50
		8	4	20.34	20.61	20.23	21.50

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		8	7	20.56	20.29	20.43	21.50
		15	0	20.23	20.37	20.20	21.50
Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625	Tune up
5MHz	QPSK	1	0	20.47	20.51	20.24	21.50
		1	13	20.51	20.37	20.51	21.50
		1	24	20.47	20.32	20.40	21.50
		12	0	20.51	20.43	20.49	21.50
		12	6	20.46	20.23	20.36	21.50
		12	13	20.51	20.44	20.39	21.50
		25	0	20.56	20.53	20.36	21.50
	16QAM	1	0	20.94	20.97	20.71	21.50
		1	13	20.98	20.71	20.66	21.50
		1	24	20.54	20.43	20.67	21.50
		12	0	20.54	20.56	20.42	21.50
		12	6	20.34	20.50	20.40	21.50
		12	13	20.39	20.26	20.45	21.50
		25	0	20.55	20.31	20.47	21.50
	64QAM	1	0	20.87	20.89	20.62	21.50
		1	13	20.89	20.64	20.58	21.50
		1	24	20.46	20.35	20.58	21.50
		12	0	20.49	20.49	20.32	21.50
		12	6	20.25	20.41	20.33	21.50
		12	13	20.33	20.20	20.35	21.50
		25	0	20.48	20.26	20.38	21.50
Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	20.59	**20.68**	20.39	21.50
		1	25	20.07	20.09	20.06	21.50
		1	49	20.50	20.31	20.37	21.50
		25	0	20.42	20.46	20.50	21.50
		25	13	**20.53**	20.50	20.49	21.50
		25	25	20.50	20.36	20.46	21.50
		50	0	20.43	20.42	20.39	21.50
	16QAM	1	0	20.48	20.85	20.35	21.50
		1	25	20.68	19.85	20.22	21.50
		1	49	20.99	20.78	20.64	21.50
		25	0	20.39	20.32	20.38	21.50
		25	13	20.40	20.46	20.42	21.50
		25	25	20.40	20.34	20.37	21.50
		50	0	20.27	20.39	20.36	21.50
	64QAM	1	0	20.42	20.79	20.30	21.50
		1	25	20.61	19.78	20.15	21.50
		1	49	20.84	20.70	20.57	21.50
		25	0	20.32	20.26	20.28	21.50
		25	13	20.33	20.39	20.35	21.50
		25	25	20.34	20.24	20.29	21.50

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		50	0	20.17	20.32	20.29	21.50

LTE Band 5 Receiver off (Body Scene)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20407	20525	20643	
1.4MHz	QPSK	1	0	22.86	22.87	22.97	24.00
		1	2	22.71	22.98	22.30	24.00
		1	5	22.97	22.84	22.81	24.00
		3	0	22.82	22.83	22.80	24.00
		3	2	22.95	22.54	22.86	24.00
		3	3	22.93	22.87	22.99	24.00
		6	0	22.05	22.12	21.59	23.00
	16QAM	1	0	22.38	22.40	22.38	23.00
		1	2	21.88	22.14	22.18	23.00
		1	5	22.40	22.28	22.23	23.00
		3	0	22.04	22.00	21.85	23.00
		3	2	22.34	21.90	21.69	23.00
		3	3	21.95	22.18	21.85	23.00
		6	0	20.97	20.75	20.67	22.00
	64QAM	1	0	21.32	21.33	21.28	22.00
		1	2	21.78	21.06	21.09	22.00
		1	5	21.32	21.18	21.14	22.00
		3	0	21.95	21.94	21.79	22.00
		3	2	21.26	21.80	21.64	22.00
		3	3	21.88	21.10	21.76	22.00
		6	0	20.89	20.69	20.58	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20415	20525	20635	
3MHz	QPSK	1	0	23.04	22.82	22.81	24.00
		1	7	22.74	22.98	22.57	24.00
		1	14	23.11	22.92	22.85	24.00
		8	0	22.01	21.70	21.81	23.00
		8	4	22.04	21.93	21.70	23.00
		8	7	21.82	22.07	21.84	23.00
		15	0	21.90	21.99	21.96	23.00
	16QAM	1	0	22.39	22.09	22.33	23.00
		1	7	21.17	21.97	21.15	23.00
		1	14	21.72	22.34	22.43	23.00
		8	0	20.76	20.91	20.86	22.00
		8	4	20.90	20.91	20.92	22.00
		8	7	20.76	20.73	20.86	22.00
		15	0	20.89	20.95	20.76	22.00
	64QAM	1	0	21.32	21.04	21.24	22.00
		1	7	21.12	21.92	21.09	22.00
		1	14	21.64	21.28	21.33	22.00
		8	0	20.70	20.85	20.79	21.00
		8	4	20.81	20.82	20.84	21.00

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		8	7	20.68	20.64	20.77	21.00
		15	0	20.83	20.86	20.69	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625	Tune up
5MHz	QPSK	1	0	22.90	22.98	22.89	24.00
		1	13	22.95	23.03	22.93	24.00
		1	24	22.97	22.84	22.78	24.00
		12	0	22.04	22.04	21.96	23.00
		12	6	21.99	22.06	22.00	23.00
		12	13	22.00	22.03	21.90	23.00
		25	0	21.92	21.92	21.98	23.00
	16QAM	1	0	22.24	22.07	22.11	23.00
		1	13	22.47	22.17	22.28	23.00
		1	24	22.25	22.26	22.34	23.00
		12	0	20.94	20.96	20.84	22.00
		12	6	21.15	20.94	20.85	22.00
		12	13	21.15	20.84	21.13	22.00
		25	0	20.93	20.92	20.89	22.00
	64QAM	1	0	21.18	21.02	21.01	22.00
		1	13	21.42	21.09	21.19	22.00
		1	24	21.20	21.17	21.25	22.00
		12	0	20.89	20.88	20.75	21.00
		12	6	20.08	20.85	20.79	21.00
		12	13	20.07	20.77	20.07	21.00
		25	0	20.87	20.86	20.83	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	**23.14**	**23.11**	**22.89**	24.00
		1	25	22.48	23.08	22.82	24.00
		1	49	22.97	22.72	22.85	24.00
		25	0	21.97	21.97	22.00	23.00
		25	13	22.11	21.91	21.91	23.00
		25	25	**22.16**	22.00	21.99	23.00
		50	0	21.90	21.93	22.02	23.00
	16QAM	1	0	22.17	22.14	22.15	23.00
		1	25	22.18	21.14	21.02	23.00
		1	49	22.35	22.17	21.96	23.00
		25	0	20.89	20.76	20.88	22.00
		25	13	20.79	20.96	20.93	22.00
		25	25	20.84	20.84	20.88	22.00
		50	0	20.85	20.84	20.80	22.00
	64QAM	1	0	21.07	21.05	21.07	22.00
		1	25	21.13	21.07	20.96	22.00
		1	49	21.28	21.07	21.89	22.00
		25	0	20.84	20.66	20.79	21.00
		25	13	20.73	20.90	20.84	21.00
		25	25	20.79	20.76	20.82	21.00

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		50	0	20.78	20.78	20.71	21.00

LTE Band 5 Receiver on(Left head) +WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	17.46	17.30	17.31	19.00
		1	2	17.14	17.17	16.88	19.00
		1	5	17.34	17.30	17.28	19.00
		3	0	17.35	17.34	17.27	19.00
		3	2	17.43	17.33	17.27	19.00
		3	3	17.31	17.34	17.35	19.00
		6	0	17.36	17.35	17.28	19.00
	16QAM	1	0	17.63	17.56	17.45	19.00
		1	2	17.24	17.24	17.33	19.00
		1	5	17.53	17.54	17.54	19.00
		3	0	17.36	17.30	17.30	19.00
		3	2	17.33	17.27	17.28	19.00
		3	3	17.27	17.24	17.25	19.00
		6	0	17.28	17.29	17.24	19.00
	64QAM	1	0	17.53	17.49	17.40	19.00
		1	2	17.17	17.14	17.25	19.00
		1	5	17.43	17.45	17.48	19.00
		3	0	17.29	17.25	17.22	19.00
		3	2	17.23	17.22	17.18	19.00
		3	3	17.22	17.14	17.19	19.00
		6	0	17.22	17.21	17.16	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	17.51	17.39	17.40	19.00
		1	7	17.21	17.24	16.96	19.00
		1	14	17.43	17.40	17.34	19.00
		8	0	17.45	17.42	17.35	19.00
		8	4	17.48	17.38	17.35	19.00
		8	7	17.39	17.43	17.42	19.00
		15	0	17.45	17.43	17.37	19.00
	16QAM	1	0	17.69	17.64	17.53	19.00
		1	7	17.31	17.32	17.40	19.00
		1	14	17.59	17.61	17.62	19.00
		8	0	17.44	17.39	17.36	19.00
		8	4	17.41	17.36	17.35	19.00
		8	7	17.35	17.31	17.33	19.00
		15	0	17.37	17.38	17.31	19.00
	64QAM	1	0	17.63	17.55	17.45	19.00
		1	7	17.22	17.27	17.33	19.00
		1	14	17.53	17.53	17.53	19.00
		8	0	17.39	17.34	17.28	19.00

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		8	4	17.33	17.31	17.30	19.00
		8	7	17.29	17.22	17.23	19.00
		15	0	17.29	17.29	17.21	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625	Tune up
5MHz	QPSK	1	0	17.58	17.47	17.48	19.00
		1	13	17.27	17.29	17.02	19.00
		1	24	17.52	17.46	17.44	19.00
		12	0	17.54	17.48	17.45	19.00
		12	6	17.54	17.47	17.44	19.00
		12	13	17.47	17.50	17.50	19.00
		25	0	17.51	17.50	17.45	19.00
	16QAM	1	0	17.74	17.72	17.60	19.00
		1	13	17.37	17.42	17.47	19.00
		1	24	17.68	17.70	17.68	19.00
		12	0	17.50	17.46	17.42	19.00
		12	6	17.46	17.44	17.44	19.00
		12	13	17.44	17.38	17.42	19.00
		25	0	17.44	17.44	17.40	19.00
	64QAM	1	0	17.68	17.66	17.53	19.00
		1	13	17.31	17.32	17.38	19.00
		1	24	17.63	17.63	17.60	19.00
		12	0	17.42	17.38	17.32	19.00
		12	6	17.38	17.34	17.35	19.00
		12	13	17.35	17.33	17.34	19.00
		25	0	17.34	17.37	17.33	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	**17.63**	17.55	17.54	19.00
		1	25	17.32	17.37	17.12	19.00
		1	49	17.58	17.53	17.51	19.00
		25	0	17.64	17.58	17.52	19.00
		25	13	17.60	17.57	17.51	19.00
		25	25	17.56	17.56	17.56	19.00
		50	0	17.60	17.57	17.54	19.00
	16QAM	1	0	17.82	17.81	17.66	19.00
		1	25	17.46	17.51	17.54	19.00
		1	49	17.76	17.79	17.76	19.00
		25	0	17.57	17.53	17.48	19.00
		25	13	17.55	17.54	17.49	19.00
		25	25	17.52	17.47	17.48	19.00
		50	0	17.54	17.51	17.48	19.00
	64QAM	1	0	17.75	17.75	17.61	19.00
		1	25	17.41	17.42	17.48	19.00
		1	49	17.67	17.70	17.68	19.00
		25	0	17.48	17.45	17.39	19.00
		25	13	17.50	17.44	17.41	19.00

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		25	25	17.43	17.38	17.42	19.00
		50	0	17.45	17.43	17.39	19.00

LTE Band 5 Receiver on(Right head) +WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	16.85	16.82	16.74	18.50
		1	2	16.48	16.44	16.47	18.50
		1	5	16.83	16.73	16.77	18.50
		3	0	16.84	16.79	16.76	18.50
		3	2	16.88	16.81	16.76	18.50
		3	3	16.80	16.77	16.82	18.50
		6	0	16.83	16.82	16.73	18.50
	16QAM	1	0	17.15	17.08	17.02	18.50
		1	2	16.90	17.11	16.85	18.50
		1	5	17.05	17.09	17.07	18.50
		3	0	16.91	16.74	16.73	18.50
		3	2	16.75	16.76	16.69	18.50
		3	3	16.74	16.76	16.72	18.50
		6	0	16.76	16.79	16.67	18.50
	64QAM	1	0	17.07	16.98	16.94	18.50
		1	2	16.83	17.02	16.78	18.50
		1	5	16.96	17.03	17.00	18.50
		3	0	16.85	16.65	16.65	18.50
		3	2	16.70	16.67	16.60	18.50
		3	3	16.68	16.70	16.66	18.50
		6	0	16.70	16.74	16.58	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	16.91	16.88	16.82	18.50
		1	7	16.58	16.54	16.56	18.50
		1	14	16.89	16.81	16.82	18.50
		8	0	16.94	16.86	16.82	18.50
		8	4	16.98	16.87	16.82	18.50
		8	7	16.85	16.86	16.91	18.50
		15	0	16.91	16.88	16.82	18.50
	16QAM	1	0	17.22	17.16	17.10	18.50
		1	7	16.98	17.17	16.93	18.50
		1	14	17.11	17.15	17.15	18.50
		8	0	16.96	16.83	16.81	18.50
		8	4	16.84	16.86	16.76	18.50
		8	7	16.82	16.82	16.81	18.50
		15	0	16.86	16.89	16.77	18.50
	64QAM	1	0	17.15	17.09	17.03	18.50
		1	7	16.91	17.08	16.88	18.50
		1	14	17.04	17.07	17.06	18.50

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		8	0	16.86	16.76	16.74	18.50
		8	4	16.74	16.80	16.70	18.50
		8	7	16.74	16.76	16.74	18.50
		15	0	16.77	16.81	16.69	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625	Tune up
5MHz	QPSK	1	0	17.01	16.95	16.91	18.50
		1	13	16.65	16.62	16.64	18.50
		1	24	16.94	16.88	16.90	18.50
		12	0	17.01	16.95	16.89	18.50
		12	6	17.06	16.96	16.89	18.50
		12	13	16.94	16.91	16.96	18.50
		25	0	17.00	16.96	16.89	18.50
	16QAM	1	0	17.30	17.24	17.18	18.50
		1	13	17.07	17.25	17.02	18.50
		1	24	17.16	17.23	17.22	18.50
		12	0	17.02	16.92	16.89	18.50
		12	6	16.93	16.92	16.85	18.50
		12	13	16.91	16.92	16.88	18.50
		25	0	16.91	16.94	16.83	18.50
	64QAM	1	0	17.21	17.18	17.09	18.50
		1	13	17.00	17.19	16.95	18.50
		1	24	17.07	17.16	17.15	18.50
		12	0	16.96	16.87	16.81	18.50
		12	6	16.86	16.84	16.77	18.50
		12	13	16.86	16.86	16.81	18.50
		25	0	16.85	16.85	16.76	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	17.08	17.05	17.00	18.50
		1	25	16.73	16.67	16.70	18.50
		1	49	17.04	16.96	16.98	18.50
		25	0	17.10	17.04	16.98	18.50
		25	13	17.12	17.02	16.99	18.50
		25	25	17.04	16.97	17.02	18.50
		50	0	17.08	17.04	16.95	18.50
	16QAM	1	0	17.38	17.31	17.26	18.50
		1	25	17.13	17.33	17.08	18.50
		1	49	17.26	17.32	17.31	18.50
		25	0	17.08	16.98	16.98	18.50
		25	13	17.00	17.00	16.94	18.50
		25	25	16.98	16.98	16.97	18.50
		50	0	17.01	17.01	16.93	18.50
	64QAM	1	0	17.28	17.23	17.18	18.50
		1	25	17.06	17.24	17.00	18.50
		1	49	17.17	17.25	17.23	18.50
		25	0	16.99	16.92	16.91	18.50

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		25	13	16.92	16.91	16.89	18.50
		25	25	16.92	16.89	16.89	18.50
		50	0	16.95	16.95	16.86	18.50

LTE Band 5 Receiver off (Body Scene)+WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	20.01	19.97	19.93	21.00
		1	2	19.37	20.03	19.25	21.00
		1	5	19.96	19.92	19.85	21.00
		3	0	20.01	19.88	19.56	21.00
		3	2	19.85	19.76	19.84	21.00
		3	3	19.94	19.51	19.95	21.00
		6	0	19.23	19.94	19.83	21.00
	16QAM	1	0	20.12	20.34	19.88	21.00
		1	2	20.26	20.26	20.33	21.00
		1	5	20.10	20.06	20.02	21.00
		3	0	20.12	19.81	19.82	21.00
		3	2	19.32	19.73	19.69	21.00
		3	3	19.88	20.12	19.51	21.00
		6	0	19.62	20.05	19.67	21.00
	64QAM	1	0	20.04	20.29	19.79	21.00
		1	2	20.19	20.19	20.26	21.00
		1	5	20.01	20.01	19.93	21.00
		3	0	20.05	19.74	19.76	21.00
		3	2	19.26	19.64	19.64	21.00
		3	3	19.82	20.05	19.42	21.00
		6	0	19.53	19.99	19.57	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	20.10	19.84	19.84	21.00
		1	7	20.25	19.87	18.52	21.00
		1	14	20.00	19.96	19.86	21.00
		8	0	20.00	19.82	19.79	21.00
		8	4	19.99	19.92	19.84	21.00
		8	7	19.57	19.99	19.87	21.00
		15	0	19.88	19.76	19.99	21.00
	16QAM	1	0	20.27	20.42	20.20	21.00
		1	7	19.04	20.22	20.20	21.00
		1	14	20.09	20.17	20.09	21.00
		8	0	19.83	19.86	19.83	21.00
		8	4	19.90	19.76	19.49	21.00
		8	7	19.97	19.90	19.56	21.00
		15	0	19.95	19.84	19.82	21.00
	64QAM	1	0	20.18	20.40	20.12	21.00
		1	7	18.95	20.14	20.11	21.00

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		1	14	20.03	20.11	20.04	21.00
		8	0	19.73	19.78	19.77	21.00
		8	4	19.83	19.67	19.41	21.00
		8	7	19.89	19.83	19.46	21.00
		15	0	19.88	19.77	19.73	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625	Tune up
5MHz	QPSK	1	0	19.94	19.92	19.94	21.00
		1	13	20.11	19.87	19.86	21.00
		1	24	19.88	19.77	19.75	21.00
		12	0	20.08	20.02	19.88	21.00
		12	6	19.91	19.89	19.71	21.00
		12	13	20.01	19.89	19.91	21.00
		25	0	19.93	19.86	19.87	21.00
	16QAM	1	0	20.38	20.38	20.22	21.00
		1	13	20.36	20.29	20.01	21.00
		1	24	20.35	20.35	19.49	21.00
		12	0	19.97	19.87	19.85	21.00
		12	6	19.81	19.86	19.96	21.00
		12	13	19.90	19.95	19.84	21.00
		25	0	19.97	19.76	19.72	21.00
	64QAM	1	0	20.28	20.31	20.12	21.00
		1	13	20.27	20.22	19.94	21.00
		1	24	20.26	20.27	19.41	21.00
		12	0	19.88	19.78	19.77	21.00
		12	6	19.73	19.81	19.90	21.00
		12	13	19.82	19.89	19.76	21.00
		25	0	19.90	19.67	19.67	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	20.08	19.85	19.88	21.00
		1	25	**20.33**	19.99	20.20	21.00
		1	49	19.96	19.81	19.95	21.00
		25	0	**20.01**	**19.95**	**19.89**	21.00
		25	13	19.87	19.81	19.86	21.00
		25	25	19.96	19.93	19.87	21.00
		50	0	19.89	19.84	19.82	21.00
	16QAM	1	0	20.21	20.36	20.43	21.00
		1	25	19.75	20.42	19.83	21.00
		1	49	20.00	20.11	20.31	21.00
		25	0	19.81	19.89	19.85	21.00
		25	13	19.82	19.82	19.92	21.00
		25	25	19.90	19.83	19.87	21.00
		50	0	19.95	19.85	19.88	21.00
	64QAM	1	0	20.13	20.31	20.22	21.00
		1	25	19.69	20.33	19.77	21.00
		1	49	19.94	20.05	20.22	21.00

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		25	0	19.74	19.84	19.77	21.00
		25	13	19.74	19.72	19.85	21.00
		25	25	19.82	19.74	19.77	21.00
		50	0	19.86	19.77	19.82	21.00

LTE Band 7 Receiver on(Left head)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	14.38	14.79	14.56	15.10
		1	13	14.42	14.21	14.03	15.10
		1	24	14.10	14.21	14.07	15.10
		12	0	14.24	14.70	14.20	15.10
		12	6	14.14	14.31	14.05	15.10
		12	13	14.12	14.07	13.85	15.10
		25	0	14.13	14.48	14.14	15.10
	16QAM	1	0	14.77	14.71	14.62	15.10
		1	13	14.37	14.81	14.76	15.10
		1	24	14.54	14.21	14.56	15.10
		12	0	14.21	14.40	14.09	15.10
		12	6	14.12	14.05	14.14	15.10
		12	13	14.11	14.14	14.09	15.10
		25	0	13.98	14.10	14.13	15.10
	64QAM	1	0	14.58	14.66	14.34	15.10
		1	13	14.73	14.39	14.51	15.10
		1	24	13.65	14.07	14.04	15.10
		12	0	14.47	14.55	14.11	15.10
		12	6	14.23	14.54	14.21	15.10
		12	13	14.12	14.49	14.09	15.10
		25	0	14.52	14.40	14.01	15.10
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	13.53	14.08	13.93	15.10
		1	25	14.27	14.29	14.34	15.10
		1	49	13.27	13.18	13.41	15.10
		25	0	14.38	14.62	14.56	15.10
		25	13	14.19	14.13	14.48	15.10
		25	25	14.08	14.38	14.04	15.10
		50	0	14.16	14.14	14.52	15.10
	16QAM	1	0	13.90	14.38	14.16	15.10
		1	25	14.66	14.84	14.67	15.10
		1	49	13.46	13.75	13.47	15.10
		25	0	14.28	14.32	14.61	15.10
		25	13	14.33	14.28	14.37	15.10
		25	25	14.12	14.33	13.90	15.10
		50	0	14.13	14.04	14.21	15.10
	64QAM	1	0	14.07	14.43	14.19	15.10

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		1	25	13.75	14.23	14.18	15.10
		1	49	13.60	13.43	13.46	15.10
		25	0	14.28	14.38	14.75	15.10
		25	13	14.40	14.32	14.29	15.10
		25	25	14.31	14.28	14.54	15.10
		50	0	14.31	14.47	14.75	15.10
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	13.65	14.02	13.89	15.10
		1	38	14.00	14.22	14.64	15.10
		1	74	14.56	13.97	14.02	15.10
		36	0	14.42	14.44	14.61	15.10
		36	18	14.32	14.21	14.45	15.10
		36	39	14.22	14.21	14.18	15.10
		75	0	14.34	14.44	14.54	15.10
	16QAM	1	0	13.54	14.06	14.46	15.10
		1	38	14.35	14.92	14.95	15.10
		1	74	14.64	14.33	14.48	15.10
		36	0	14.23	14.78	14.52	15.10
		36	18	14.23	14.07	14.62	15.10
		36	39	14.22	14.06	14.47	15.10
		75	0	14.28	14.27	14.49	15.10
	64QAM	1	0	13.49	14.25	14.74	15.10
		1	38	14.20	14.74	14.47	15.10
		1	74	14.52	14.18	14.40	15.10
		36	0	14.43	14.89	14.96	15.10
		36	18	14.27	14.60	14.59	15.10
		36	39	14.28	14.24	14.21	15.10
		75	0	14.35	14.41	14.67	15.10
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	13.80	14.32	13.82	15.10
		1	50	14.37	14.54	14.50	15.10
		1	99	14.13	13.46	13.62	15.10
		50	0	14.20	14.85	14.66	15.10
		50	25	14.09	14.47	14.65	15.10
		50	50	14.79	14.42	14.27	15.10
		100	0	14.67	14.34	14.61	15.10
	16QAM	1	0	13.78	14.64	14.25	15.10
		1	50	13.84	14.75	14.97	15.10
		1	99	14.13	13.90	14.17	15.10
		50	0	14.45	14.39	14.66	15.10
		50	25	14.28	14.15	14.61	15.10
		50	50	14.52	14.38	14.28	15.10
		100	0	14.71	14.26	14.76	15.10
	64QAM	1	0	14.16	14.91	13.86	15.10
		1	50	13.73	14.37	14.82	15.10

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		1	99	14.26	13.56	14.00	15.10
		50	0	14.46	14.90	14.95	15.10
		50	25	14.39	14.43	14.65	15.10
		50	50	14.58	14.51	14.33	15.10
		100	0	14.54	14.48	14.96	15.10

LTE Band 7 Receiver on(Right head)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	10.95	11.08	10.57	11.60
		1	13	10.86	10.63	10.69	11.60
		1	24	10.66	10.84	10.02	11.60
		12	0	11.14	10.81	10.71	11.60
		12	6	10.54	10.77	10.69	11.60
		12	13	10.63	10.94	10.79	11.60
		25	0	10.64	10.67	10.66	11.60
	16QAM	1	0	11.33	11.35	11.23	11.60
		1	13	11.14	10.77	10.76	11.60
		1	24	10.96	11.04	11.31	11.60
		12	0	11.18	10.78	11.14	11.60
		12	6	10.50	10.95	10.60	11.60
		12	13	10.41	10.85	10.56	11.60
		25	0	10.72	10.71	10.71	11.60
	64QAM	1	0	11.34	11.31	11.32	11.60
		1	13	10.70	11.16	11.03	11.60
		1	24	10.76	11.15	10.65	11.60
		12	0	11.00	10.89	11.03	11.60
		12	6	10.78	11.02	10.80	11.60
		12	13	10.63	10.96	10.99	11.60
		25	0	10.86	10.70	10.86	11.60
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	10.12	10.70	10.32	11.60
		1	25	10.14	11.18	11.16	11.60
		1	49	10.10	9.73	10.12	11.60
		25	0	10.71	11.06	10.98	11.60
		25	13	10.56	10.50	10.76	11.60
		25	25	10.53	10.34	10.51	11.60
		50	0	10.72	10.82	10.98	11.60
	16QAM	1	0	9.98	10.69	10.76	11.60
		1	25	10.41	10.77	11.35	11.60
		1	49	9.81	10.36	9.90	11.60
		25	0	10.54	10.68	11.02	11.60
		25	13	10.55	10.63	10.58	11.60
		25	25	10.68	10.77	10.99	11.60
		50	0	10.54	10.59	10.87	11.60

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	64QAM	1	0	10.51	10.41	10.76	11.60
		1	25	11.21	11.01	11.16	11.60
		1	49	10.19	10.25	10.00	11.60
		25	0	10.95	11.02	11.31	11.60
		25	13	10.93	11.19	10.92	11.60
		25	25	10.70	10.45	10.49	11.60
		50	0	10.81	10.95	11.22	11.60
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	10.25	10.56	10.03	11.60
		1	38	10.81	10.59	11.35	11.60
		1	74	11.00	10.54	10.97	11.60
		36	0	10.80	10.98	11.22	11.60
		36	18	10.49	10.76	10.99	11.60
		36	39	10.99	10.80	11.14	11.60
		75	0	10.84	10.86	11.05	11.60
	16QAM	1	0	10.28	10.56	10.55	11.60
		1	38	11.35	10.61	10.63	11.60
		1	74	11.31	10.58	11.32	11.60
		36	0	10.88	11.02	11.10	11.60
		36	18	10.69	10.49	11.00	11.60
		36	39	10.61	10.77	10.64	11.60
		75	0	10.60	10.80	10.88	11.60
	64QAM	1	0	10.59	10.92	10.84	11.60
		1	38	11.35	11.29	11.11	11.60
		1	74	11.32	10.28	10.87	11.60
		36	0	11.02	11.24	11.14	11.60
		36	18	10.34	11.09	11.13	11.60
		36	39	10.84	10.64	10.83	11.60
		75	0	10.76	10.99	11.27	11.60
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	10.74	10.73	10.12	11.60
		1	50	10.54	10.59	**11.22**	11.60
		1	99	10.73	9.77	10.12	11.60
		50	0	10.72	11.01	11.35	11.60
		50	25	10.77	10.99	11.28	11.60
		50	50	11.31	10.82	11.36	11.60
		100	0	10.75	10.86	10.96	11.60
	16QAM	1	0	11.25	11.10	10.37	11.60
		1	50	11.10	10.97	11.05	11.60
		1	99	11.16	10.33	10.48	11.60
		50	0	10.80	11.07	11.21	11.60
		50	25	10.89	11.08	11.15	11.60
		50	50	10.97	10.76	10.87	11.60
		100	0	10.96	10.70	10.73	11.60
	64QAM	1	0	10.26	11.21	10.46	11.60

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		1	50	10.40	10.99	10.83	11.60
		1	99	11.13	9.74	10.46	11.60
		50	0	10.92	11.26	11.16	11.60
		50	25	10.68	10.72	11.10	11.60
		50	50	10.91	10.86	10.95	11.60
		100	0	10.93	10.98	11.04	11.60

LTE Band 7 Receiver off (Body Scene)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	17.96	18.45	18.22	19.10
		1	13	18.12	17.82	17.64	19.10
		1	24	17.79	17.87	17.79	19.10
		12	0	18.14	18.37	18.15	19.10
		12	6	17.95	18.28	17.87	19.10
		12	13	17.91	18.02	17.77	19.10
		25	0	17.83	18.04	17.88	19.10
	16QAM	1	0	18.37	18.65	18.30	19.10
		1	13	18.26	18.76	18.02	19.10
		1	24	17.88	18.37	17.76	19.10
		12	0	18.13	18.41	17.78	19.10
		12	6	18.09	18.34	17.57	19.10
		12	13	17.92	17.95	17.91	19.10
		25	0	17.63	18.10	17.89	19.10
	64QAM	1	0	18.30	18.87	18.59	19.10
		1	13	18.30	18.37	18.12	19.10
		1	24	18.17	18.16	18.20	19.10
		12	0	18.29	18.60	18.33	19.10
		12	6	18.38	18.12	17.96	19.10
		12	13	18.18	18.29	17.96	19.10
		25	0	17.89	18.25	17.97	19.10
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	17.46	17.94	17.68	19.10
		1	25	17.66	17.82	18.39	19.10
		1	49	17.12	17.23	17.35	19.10
		25	0	17.75	18.33	18.38	19.10
		25	13	17.98	18.22	17.82	19.10
		25	25	17.92	17.97	17.55	19.10
		50	0	18.01	18.21	18.27	19.10
	16QAM	1	0	17.70	17.80	17.99	19.10
		1	25	17.40	18.06	18.85	19.10
		1	49	17.31	17.11	17.13	19.10
		25	0	17.96	18.31	18.26	19.10
		25	13	17.79	18.08	17.82	19.10
		25	25	17.78	17.97	17.54	19.10

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		50	0	17.94	18.02	18.13	19.10
	64QAM	1	0	17.60	18.09	17.86	19.10
		1	25	17.98	18.20	18.89	19.10
		1	49	17.31	17.47	17.49	19.10
		25	0	18.10	18.55	18.49	19.10
		25	13	18.08	18.09	18.02	19.10
		25	25	17.85	17.99	17.96	19.10
		50	0	18.04	18.22	18.44	19.10
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	17.43	17.67	17.69	19.10
		1	38	18.01	17.94	18.49	19.10
		1	74	18.11	17.69	17.92	19.10
		36	0	18.16	18.40	18.51	19.10
		36	18	17.86	18.07	18.46	19.10
		36	39	18.01	17.96	17.92	19.10
		75	0	18.20	18.32	18.42	19.10
	16QAM	1	0	17.54	17.58	17.90	19.10
		1	38	18.16	18.29	18.87	19.10
		1	74	18.06	17.66	18.13	19.10
		36	0	18.01	18.37	18.27	19.10
		36	18	17.87	17.95	18.28	19.10
		36	39	18.03	17.89	17.93	19.10
		75	0	17.95	18.10	18.20	19.10
	64QAM	1	0	17.19	18.49	18.04	19.10
		1	38	17.76	18.29	18.89	19.10
		1	74	18.89	18.17	18.40	19.10
		36	0	18.20	18.63	18.60	19.10
		36	18	18.05	17.99	18.38	19.10
		36	39	18.03	17.81	18.06	19.10
		75	0	18.25	18.34	18.50	19.10
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	17.56	18.07	17.75	19.10
		1	50	17.82	**18.53**	17.54	19.10
		1	99	17.90	17.13	17.30	19.10
		50	0	18.19	18.28	18.36	19.10
		50	25	18.08	17.99	18.39	19.10
		50	50	18.33	17.94	17.95	19.10
		100	0	18.28	18.33	18.44	19.10
	16QAM	1	0	18.03	17.85	18.17	19.10
		1	50	17.71	17.51	17.99	19.10
		1	99	18.02	17.38	17.91	19.10
		50	0	18.15	18.47	18.27	19.10
		50	25	17.99	18.09	18.90	19.10
		50	50	18.39	17.83	18.32	19.10
		100	0	18.20	18.07	18.40	19.10

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	64QAM	1	0	18.19	18.56	17.88	19.10
		1	50	18.10	18.41	18.57	19.10
		1	99	18.03	17.18	17.41	19.10
		50	0	18.25	18.58	18.63	19.10
		50	25	18.06	18.37	18.54	19.10
		50	50	18.84	18.08	18.37	19.10
		100	0	18.48	18.41	18.49	19.10

LTE Band 7 Receiver on(Left head) +WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	13.07	12.84	13.42	13.60
		1	13	12.78	12.82	12.82	13.60
		1	24	12.61	12.08	12.56	13.60
		12	0	13.17	12.65	12.71	13.60
		12	6	12.54	12.68	12.60	13.60
		12	13	12.35	12.69	12.74	13.60
		25	0	12.89	12.68	12.72	13.60
	16QAM	1	0	13.03	13.43	13.14	13.60
		1	13	13.06	13.04	13.52	13.60
		1	24	12.82	12.97	12.32	13.60
		12	0	13.23	12.76	13.07	13.60
		12	6	12.55	12.87	12.60	13.60
		12	13	12.33	12.79	12.81	13.60
		25	0	12.70	12.72	12.49	13.60
	64QAM	1	0	13.42	13.38	13.44	13.60
		1	13	13.02	12.88	13.39	13.60
		1	24	13.28	12.81	13.14	13.60
		12	0	12.96	12.99	13.02	13.60
		12	6	12.98	13.11	12.76	13.60
		12	13	12.94	12.92	12.87	13.60
		25	0	12.98	13.05	12.91	13.60
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	12.05	12.50	12.35	13.60
		1	25	11.93	11.88	12.83	13.60
		1	49	12.02	11.83	11.71	13.60
		25	0	12.58	13.05	13.03	13.60
		25	13	12.57	12.81	12.75	13.60
		25	25	12.60	12.87	12.74	13.60
		50	0	12.51	12.68	12.92	13.60
	16QAM	1	0	12.49	13.06	12.65	13.60
		1	25	12.69	13.44	12.88	13.60
		1	49	11.97	12.11	11.79	13.60
		25	0	12.72	12.97	13.30	13.60
		25	13	12.68	12.49	12.89	13.60

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		25	25	12.67	12.80	12.24	13.60
		50	0	12.62	13.01	12.73	13.60
	64QAM	1	0	11.90	12.71	12.38	13.60
		1	25	12.64	12.55	13.36	13.60
		1	49	12.07	11.92	11.76	13.60
		25	0	12.94	13.46	13.34	13.60
		25	13	12.85	12.70	12.89	13.60
		25	25	12.79	12.54	12.98	13.60
		50	0	12.86	12.88	13.11	13.60
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	12.32	12.63	12.29	13.60
		1	38	12.38	12.79	13.23	13.60
		1	74	13.21	12.40	13.16	13.60
		36	0	12.58	13.00	13.01	13.60
		36	18	12.70	12.53	12.82	13.60
		36	39	12.68	12.59	12.96	13.60
		75	0	12.68	12.66	12.98	13.60
	16QAM	1	0	12.35	13.10	12.76	13.60
		1	38	13.40	13.10	13.20	13.60
		1	74	13.48	12.67	12.65	13.60
		36	0	12.73	13.12	12.87	13.60
		36	18	12.72	12.48	12.64	13.60
		36	39	12.62	12.48	12.72	13.60
		75	0	12.77	12.57	12.90	13.60
	64QAM	1	0	12.76	12.84	12.47	13.60
		1	38	12.62	12.87	13.01	13.60
		1	74	12.97	12.12	12.85	13.60
		36	0	12.93	13.43	13.24	13.60
		36	18	12.96	12.74	13.17	13.60
		36	39	12.91	12.77	13.21	13.60
		75	0	12.84	12.96	13.25	13.60
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	12.73	12.76	12.18	13.60
		1	50	12.93	13.03	12.60	13.60
		1	99	12.81	11.83	12.17	13.60
		50	0	12.83	13.20	13.29	13.60
		50	25	12.81	12.58	12.96	13.60
		50	50	12.90	12.86	12.95	13.60
		100	0	12.90	12.86	12.96	13.60
	16QAM	1	0	12.62	13.54	12.63	13.60
		1	50	12.96	12.64	13.05	13.60
		1	99	12.90	11.76	12.58	13.60
		50	0	12.77	13.22	12.80	13.60
		50	25	12.80	12.67	13.19	13.60
		50	50	13.56	12.41	12.80	13.60

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		100	0	12.83	12.69	12.74	13.60
	64QAM	1	0	13.14	12.93	12.77	13.60
		1	50	12.86	12.14	13.54	13.60
		1	99	12.54	12.30	12.78	13.60
		50	0	12.97	13.26	13.26	13.60
		50	25	12.88	13.21	13.13	13.60
		50	50	13.11	12.88	13.02	13.60
		100	0	12.96	12.98	13.07	13.60

LTE Band 7 Receiver on(Right head) +WiFi on/Hotspot on				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	9.21	9.80	9.67	10.10
		1	13	8.90	9.09	9.03	10.10
		1	24	8.48	8.61	8.75	10.10
		12	0	9.14	9.40	9.42	10.10
		12	6	8.91	9.18	9.12	10.10
		12	13	8.63	8.89	8.85	10.10
		25	0	8.86	9.08	9.15	10.10
	16QAM	1	0	10.04	9.89	9.97	10.10
		1	13	9.58	9.69	9.85	10.10
		1	24	8.76	8.89	9.01	10.10
		12	0	9.21	9.41	9.37	10.10
		12	6	8.98	9.19	9.21	10.10
		12	13	8.78	8.86	8.91	10.10
		25	0	8.92	9.17	9.14	10.10
	64QAM	1	0	9.36	9.32	9.97	10.10
		1	13	9.16	10.03	9.90	10.10
		1	24	8.63	8.77	8.35	10.10
		12	0	9.41	9.74	9.34	10.10
		12	6	8.82	9.22	9.70	10.10
		12	13	8.69	8.87	9.21	10.10
		25	0	9.20	9.25	9.81	10.10
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	8.57	9.36	9.34	10.10
		1	25	8.82	9.22	9.65	10.10
		1	49	8.20	8.48	8.17	10.10
		25	0	9.08	9.51	9.94	10.10
		25	13	8.67	9.10	9.39	10.10
		25	25	8.61	8.71	9.02	10.10
		50	0	9.06	9.14	9.53	10.10
	16QAM	1	0	8.67	9.44	9.52	10.10
		1	25	9.55	9.45	10.07	10.10
		1	49	8.26	8.29	8.13	10.10
		25	0	9.07	9.49	9.97	10.10

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		25	13	8.72	9.11	9.38	10.10
		25	25	8.67	8.75	9.00	10.10
		50	0	9.10	9.15	9.61	10.10
	64QAM	1	0	10.02	10.03	9.95	10.10
		1	25	9.45	9.74	9.19	10.10
		1	49	8.54	8.76	9.05	10.10
		25	0	9.49	9.68	9.65	10.10
		25	13	9.25	9.48	9.21	10.10
		25	25	8.80	9.17	9.00	10.10
		50	0	9.14	9.26	9.32	10.10
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	8.71	9.50	9.25	10.10
		1	38	8.89	8.99	9.95	10.10
		1	74	9.60	8.25	8.89	10.10
		36	0	9.21	10.00	9.86	10.10
		36	18	8.78	9.10	9.79	10.10
		36	39	8.96	8.59	9.36	10.10
		75	0	9.06	9.08	9.96	10.10
	16QAM	1	0	9.13	9.94	9.84	10.10
		1	38	9.55	9.32	10.05	10.10
		1	74	9.74	8.95	9.11	10.10
		36	0	9.33	9.99	9.83	10.10
		36	18	8.79	9.18	9.77	10.10
		36	39	8.90	8.59	9.38	10.10
		75	0	9.10	9.13	9.94	10.10
	64QAM	1	0	9.06	9.79	9.80	10.10
		1	38	8.95	9.40	9.89	10.10
		1	74	9.47	8.23	9.16	10.10
		36	0	9.56	9.76	9.99	10.10
		36	18	8.83	9.18	9.96	10.10
		36	39	9.01	8.68	9.55	10.10
		75	0	9.13	9.26	9.68	10.10
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	9.15	10.01	8.92	10.10
		1	50	8.85	9.05	9.85	10.10
		1	99	9.74	8.64	8.54	10.10
		50	0	9.18	9.93	9.89	10.10
		50	25	8.89	9.16	9.92	10.10
		50	50	9.85	8.76	9.57	10.10
		100	0	9.61	9.17	9.84	10.10
	16QAM	1	0	9.57	9.86	9.02	10.10
		1	50	9.48	9.56	10.01	10.10
		1	99	10.08	8.81	9.16	10.10
		50	0	9.18	9.90	9.85	10.10
		50	25	8.94	9.14	9.90	10.10

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		50	50	9.83	8.76	9.59	10.10
		100	0	9.63	9.17	9.86	10.10
	64QAM	1	0	9.58	9.75	9.64	10.10
		1	50	9.34	9.63	10.05	10.10
		1	99	10.06	9.01	8.83	10.10
		50	0	9.39	10.06	10.01	10.10
		50	25	8.89	9.31	10.02	10.10
		50	50	9.84	8.88	9.63	10.10
		100	0	9.70	9.33	9.98	10.10

LTE Band 7 Receiver off (Body Scene)+WiFi on/Hotspot on				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
5MHz	QPSK	1	0	16.79	16.78	16.74	17.60
		1	13	16.43	16.81	16.38	17.60
		1	24	16.15	16.39	16.39	17.60
		12	0	16.64	16.89	16.46	17.60
		12	6	16.51	16.82	16.34	17.60
		12	13	16.40	16.77	16.42	17.60
		25	0	16.40	16.91	16.40	17.60
	16QAM	1	0	16.56	16.66	16.89	17.60
		1	13	16.59	16.87	16.43	17.60
		1	24	16.43	17.06	16.52	17.60
		12	0	16.42	16.79	16.83	17.60
		12	6	16.73	16.72	16.33	17.60
		12	13	16.09	16.26	16.16	17.60
		25	0	16.43	16.56	16.35	17.60
	64QAM	1	0	**17.17**	17.12	16.78	17.60
		1	13	16.54	17.11	17.03	17.60
		1	24	16.80	17.01	16.61	17.60
		12	0	16.96	17.02	17.01	17.60
		12	6	16.71	16.98	16.79	17.60
		12	13	16.77	16.57	16.63	17.60
		25	0	16.58	16.99	16.34	17.60
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
10MHz	QPSK	1	0	15.96	16.45	16.32	17.60
		1	25	16.27	16.48	16.45	17.60
		1	49	15.62	15.63	15.77	17.60
		25	0	16.33	16.84	16.94	17.60
		25	13	16.41	16.90	16.76	17.60
		25	25	16.33	16.59	16.34	17.60
		50	0	16.63	16.42	16.73	17.60
	16QAM	1	0	15.87	16.97	16.11	17.60
		1	25	16.20	17.14	17.09	17.60
		1	49	15.66	15.88	15.80	17.60

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		25	0	16.25	16.78	16.91	17.60
		25	13	16.30	16.79	16.74	17.60
		25	25	16.21	16.61	16.35	17.60
		50	0	16.53	16.69	16.61	17.60
	64QAM	1	0	16.55	16.26	16.25	17.60
		1	25	16.84	16.94	16.66	17.60
		1	49	15.85	15.96	15.76	17.60
		25	0	16.96	16.96	17.04	17.60
		25	13	16.68	16.65	16.68	17.60
		25	25	16.51	16.65	16.72	17.60
		50	0	16.91	16.98	17.00	17.60
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	15.94	16.49	16.29	17.60
		1	38	16.29	16.83	17.15	17.60
		1	74	16.71	16.28	16.23	17.60
		36	0	16.68	16.96	17.02	17.60
		36	18	16.43	16.67	16.85	17.60
		36	39	16.57	16.46	16.47	17.60
		75	0	16.57	16.79	16.90	17.60
	16QAM	1	0	15.86	16.50	16.27	17.60
		1	38	16.68	16.70	17.09	17.60
		1	74	17.12	16.52	16.58	17.60
		36	0	16.43	16.86	16.95	17.60
		36	18	16.47	16.76	16.81	17.60
		36	39	16.47	16.32	16.84	17.60
		75	0	16.51	16.85	16.81	17.60
	64QAM	1	0	15.90	16.57	16.42	17.60
		1	38	16.46	17.15	17.13	17.60
		1	74	17.07	15.99	16.44	17.60
		36	0	16.94	17.14	17.05	17.60
		36	18	16.63	16.82	16.98	17.60
		36	39	16.64	16.45	16.89	17.60
		75	0	16.91	16.97	17.03	17.60
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	16.20	16.66	16.36	17.60
		1	50	16.46	16.91	16.86	17.60
		1	99	16.33	**16.91**	15.95	17.60
		50	0	16.77	16.83	17.11	17.60
		50	25	16.52	16.75	17.02	17.60
		50	50	17.11	16.69	16.65	17.60
		100	0	16.94	16.78	17.03	17.60
	16QAM	1	0	16.53	16.34	16.35	17.60
		1	50	16.33	16.21	16.64	17.60
		1	99	16.68	15.69	16.02	17.60
		50	0	16.40	16.72	16.83	17.60

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		50	25	16.42	16.66	16.88	17.60
		50	50	17.18	16.52	16.69	17.60
		100	0	16.73	16.44	16.80	17.60
	64QAM	1	0	16.37	16.52	16.49	17.60
		1	50	17.07	16.86	16.83	17.60
		1	99	16.23	15.89	16.26	17.60
		50	0	16.96	17.12	17.11	17.60
		50	25	16.51	16.46	17.11	17.60
		50	50	17.03	16.60	16.91	17.60
		100	0	16.90	16.87	17.09	17.60

LTE Band 12 Receiver on(Left head)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
1.4MHz	QPSK	1	0	21.89	21.59	21.63	22.40
		1	2	21.84	21.29	22.10	22.40
		1	5	21.86	21.59	21.83	22.40
		3	0	21.82	21.48	21.86	22.40
		3	2	21.56	21.12	21.79	22.40
		3	3	21.80	21.44	21.72	22.40
		6	0	21.76	21.66	21.81	22.40
	16QAM	1	0	22.03	21.84	22.03	22.40
		1	2	21.36	21.30	22.07	22.40
		1	5	21.82	21.96	22.04	22.40
		3	0	21.55	21.61	21.61	22.40
		3	2	21.91	21.34	21.56	22.40
		3	3	22.20	21.55	21.35	22.40
		6	0	21.16	20.88	21.05	22.00
	64QAM	1	0	21.72	21.48	21.67	22.00
		1	2	21.06	20.96	21.68	22.00
		1	5	21.75	21.63	21.75	22.00
		3	0	21.21	21.27	21.24	22.00
		3	2	21.60	20.98	21.23	22.00
		3	3	21.88	21.18	21.01	22.00
		6	0	20.17	19.94	20.10	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23025	Channel 23095	Channel 23165	Tune up
3MHz	QPSK	1	0	21.80	21.73	21.70	22.40
		1	7	21.54	20.55	21.31	22.40
		1	14	21.73	21.71	21.96	22.40
		8	0	21.40	21.73	21.75	22.40
		8	4	21.89	21.70	21.81	22.40
		8	7	21.98	21.55	21.53	22.40
		15	0	21.95	21.61	21.54	22.40
	16QAM	1	0	21.87	21.72	22.08	22.40
		1	7	21.54	21.69	21.71	22.40

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		1	14	22.03	21.85	22.28	22.40
		8	0	21.24	21.12	21.15	22.00
		8	4	21.14	21.06	20.90	22.00
		8	7	21.25	20.95	21.31	22.00
		15	0	21.25	21.03	21.04	22.00
	64QAM	1	0	20.96	20.74	21.09	22.00
		1	7	20.56	20.78	20.72	22.00
		1	14	21.08	20.88	21.34	22.00
		8	0	20.32	20.21	20.16	21.00
		8	4	20.18	20.10	19.99	21.00
		8	7	20.30	19.96	20.40	21.00
		15	0	20.32	20.08	20.13	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23035	Channel 23095	Channel 23155	Tune up
5MHz	QPSK	1	0	21.88	21.63	21.91	22.40
		1	13	21.89	21.68	21.74	22.40
		1	24	21.82	21.74	21.91	22.40
		12	0	21.90	21.70	21.82	22.40
		12	6	21.72	21.47	21.54	22.40
		12	13	21.92	21.68	21.74	22.40
		25	0	21.84	21.56	21.83	22.40
	16QAM	1	0	21.78	21.94	21.55	22.40
		1	13	22.14	22.18	22.14	22.40
		1	24	22.03	21.82	22.29	22.40
		12	0	21.44	21.29	21.15	22.00
		12	6	20.88	21.06	21.17	22.00
		12	13	21.32	21.16	21.27	22.00
		25	0	21.26	21.09	21.38	22.00
	64QAM	1	0	20.83	20.94	20.62	22.00
		1	13	21.44	21.19	21.18	22.00
		1	24	21.05	20.88	21.49	22.00
		12	0	20.48	20.34	20.21	21.00
		12	6	19.93	20.07	20.20	21.00
		12	13	20.34	20.16	20.35	21.00
		25	0	20.31	20.15	20.46	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23060	Channel 23095	Channel 23130	Tune up
10MHz	QPSK	1	0	21.71	21.69	21.57	22.40
		1	25	21.15	21.35	21.56	22.40
		1	49	**21.72**	**21.85**	**21.97**	22.40
		25	0	**21.86**	**21.72**	**21.76**	22.40
		25	13	21.82	21.63	21.71	22.40
		25	25	21.74	21.61	21.72	22.40
		50	0	**21.88**	21.61	21.87	22.40
	16QAM	1	0	21.58	22.21	21.95	22.40
		1	25	22.07	22.00	22.22	22.40
		1	49	21.41	21.79	21.92	22.40

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		25	0	21.25	21.12	20.99	22.00
		25	13	21.06	20.96	21.07	22.00
		25	25	21.20	21.20	21.17	22.00
		50	0	21.26	21.00	21.29	22.00
	64QAM	1	0	20.64	21.24	21.01	22.00
		1	25	21.16	21.09	21.25	22.00
		1	49	20.44	20.82	20.99	22.00
		25	0	20.28	20.21	20.02	21.00
		25	13	20.09	20.04	20.16	21.00
		25	25	20.24	20.22	20.18	21.00
		50	0	20.36	20.06	20.30	21.00

LTE Band 12 Receiver on(Right head)				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
1.4MHz	QPSK	1	0	21.43	21.25	21.29	22.00
		1	2	21.71	20.19	20.95	22.00
		1	5	21.30	21.13	21.36	22.00
		3	0	21.09	20.95	21.22	22.00
		3	2	21.14	21.15	21.51	22.00
		3	3	21.26	21.20	21.15	22.00
		6	0	21.00	21.13	21.03	22.00
	16QAM	1	0	21.64	21.06	21.72	22.00
		1	2	21.70	20.66	21.71	22.00
		1	5	21.70	21.71	21.76	22.00
		3	0	21.35	21.06	21.13	22.00
		3	2	21.66	21.15	20.92	22.00
		3	3	21.44	21.28	21.36	22.00
		6	0	21.40	20.88	20.93	22.00
	64QAM	1	0	21.57	20.93	21.61	22.00
		1	2	21.61	20.54	21.58	22.00
		1	5	21.64	21.66	21.63	22.00
		3	0	21.27	20.93	21.02	22.00
		3	2	21.61	21.03	20.82	22.00
		3	3	21.36	21.13	21.23	22.00
		6	0	20.47	19.90	20.02	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23025	Channel 23095	Channel 23165	Tune up
3MHz	QPSK	1	0	21.36	21.14	21.24	22.00
		1	7	21.28	20.62	20.34	22.00
		1	14	21.44	21.09	21.34	22.00
		8	0	21.38	21.00	21.29	22.00
		8	4	21.38	21.05	21.34	22.00
		8	7	21.31	21.03	21.07	22.00
		15	0	21.36	21.05	21.27	22.00
	16QAM	1	0	21.52	21.43	21.30	22.00

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		1	7	20.76	20.85	19.21	22.00
		1	14	21.57	21.42	21.71	22.00
		8	0	21.26	21.04	21.15	22.00
		8	4	21.28	21.16	21.19	22.00
		8	7	21.40	20.94	21.23	22.00
		15	0	21.33	21.20	21.30	22.00
	64QAM	1	0	20.54	20.44	20.39	22.00
		1	7	20.24	20.29	20.22	22.00
		1	14	20.65	20.47	20.73	22.00
		8	0	20.31	20.11	20.23	21.00
		8	4	20.35	20.16	20.27	21.00
		8	7	20.48	19.99	20.29	21.00
		15	0	20.41	20.25	20.38	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23035	23095	23155	
5MHz	QPSK	1	0	21.35	21.38	21.14	22.00
		1	13	21.50	21.36	21.19	22.00
		1	24	21.38	21.33	21.45	22.00
		12	0	21.33	21.22	21.22	22.00
		12	6	21.32	21.10	21.10	22.00
		12	13	21.28	21.24	21.42	22.00
		25	0	21.40	21.13	21.21	22.00
	16QAM	1	0	21.79	21.55	21.31	22.00
		1	13	21.62	21.47	21.45	22.00
		1	24	21.42	21.78	21.53	22.00
		12	0	21.31	21.18	21.20	22.00
		12	6	21.35	21.00	21.21	22.00
		12	13	21.33	21.16	21.32	22.00
		25	0	21.32	21.05	21.33	22.00
	64QAM	1	0	20.69	20.60	20.39	22.00
		1	13	20.70	20.50	20.46	22.00
		1	24	20.49	20.80	20.63	22.00
		12	0	20.39	20.18	20.22	21.00
		12	6	20.40	20.10	20.27	21.00
		12	13	20.41	20.23	20.34	21.00
		25	0	20.40	20.09	20.35	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23060	23095	23130	
10MHz	QPSK	1	0	21.16	21.12	21.18	22.00
		1	25	20.84	20.61	20.81	22.00
		1	49	**21.17**	**21.31**	**21.40**	22.00
		25	0	**21.31**	**21.21**	**21.33**	22.00
		25	13	21.26	21.06	21.20	22.00
		25	25	21.17	21.12	21.24	22.00
		50	0	21.27	21.07	**21.40**	22.00
	16QAM	1	0	21.69	21.35	21.56	22.00
		1	25	21.54	21.46	21.47	22.00

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		1	49	21.38	21.11	21.30	22.00
		25	0	21.23	21.18	21.02	22.00
		25	13	21.24	20.94	21.19	22.00
		25	25	21.13	21.13	21.25	22.00
		50	0	21.23	21.08	21.27	22.00
	64QAM	1	0	20.76	20.39	20.65	22.00
		1	25	20.62	20.51	20.50	22.00
		1	49	20.38	20.20	20.34	22.00
		25	0	20.23	20.20	20.05	21.00
		25	13	20.31	19.97	20.28	21.00
		25	25	20.18	20.20	20.31	21.00
		50	0	20.30	20.17	20.36	21.00

LTE Band 12 Receiver off (Body Scene)				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
1.4MHz	QPSK	1	0	23.40	23.32	23.32	24.00
		1	2	22.81	23.03	22.67	24.00
		1	5	23.35	23.05	23.36	24.00
		3	0	23.08	22.90	23.16	24.00
		3	2	22.87	23.03	23.23	24.00
		3	3	23.35	23.20	23.29	24.00
		6	0	22.40	21.96	22.17	23.00
	16QAM	1	0	22.16	22.01	21.90	23.00
		1	2	22.38	22.07	22.11	23.00
		1	5	22.36	22.40	22.70	23.00
		3	0	22.46	22.02	22.35	23.00
		3	2	21.95	22.03	22.11	23.00
		3	3	22.32	22.23	22.38	23.00
		6	0	21.22	21.24	20.70	22.00
	64QAM	1	0	21.92	21.96	21.76	22.00
		1	2	21.75	21.88	21.87	22.00
		1	5	21.82	21.89	21.93	22.00
		3	0	21.85	21.96	21.95	22.00
		3	2	21.89	21.90	21.99	22.00
		3	3	21.82	21.92	21.93	22.00
		6	0	20.30	20.33	19.70	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23025	Channel 23095	Channel 23165	Tune up
3MHz	QPSK	1	0	23.36	23.17	23.32	24.00
		1	7	22.92	22.91	22.68	24.00
		1	14	23.18	23.32	23.37	24.00
		8	0	22.11	21.81	22.32	23.00
		8	4	22.40	22.14	22.13	23.00
		8	7	22.32	22.17	22.16	23.00
		15	0	22.38	22.07	22.10	23.00

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	16QAM	1	0	22.56	22.31	22.75	23.00
		1	7	22.34	22.14	22.26	23.00
		1	14	22.86	22.18	22.75	23.00
		8	0	21.21	21.03	21.21	22.00
		8	4	21.35	21.16	21.16	22.00
		8	7	21.25	21.05	21.33	22.00
		15	0	21.25	20.95	21.32	22.00
	64QAM	1	0	21.63	21.32	21.76	22.00
		1	7	21.43	21.23	21.66	22.00
		1	14	21.92	21.25	21.79	22.00
		8	0	20.25	20.10	20.27	21.00
		8	4	20.43	20.16	20.20	21.00
		8	7	20.34	20.14	20.36	21.00
		15	0	20.29	19.97	20.40	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23035	Channel 23095	Channel 23155	Tune up
5MHz	QPSK	1	0	23.46	23.38	23.27	24.00
		1	13	23.35	23.20	23.10	24.00
		1	24	23.47	23.27	23.48	24.00
		12	0	22.37	22.26	22.26	23.00
		12	6	22.23	22.13	22.12	23.00
		12	13	22.34	22.14	22.38	23.00
		25	0	22.33	22.09	22.28	23.00
	16QAM	1	0	22.65	22.66	22.27	23.00
		1	13	22.46	21.98	22.67	23.00
		1	24	22.73	22.75	22.27	23.00
		12	0	21.43	21.15	21.16	22.00
		12	6	21.38	21.00	21.07	22.00
		12	13	21.31	21.26	21.34	22.00
		25	0	21.18	21.16	21.37	22.00
	64QAM	1	0	21.71	21.69	21.34	22.00
		1	13	21.53	21.05	21.70	22.00
		1	24	21.76	21.88	21.30	22.00
		12	0	20.44	20.17	20.17	21.00
		12	6	20.42	20.07	20.08	21.00
		12	13	20.40	20.34	20.40	21.00
		25	0	20.20	20.19	20.40	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23060	Channel 23095	Channel 23130	Tune up
10MHz	QPSK	1	0	**23.02**	**23.32**	**23.34**	24.00
		1	25	22.90	22.91	23.11	24.00
		1	49	23.01	23.12	23.05	24.00
		25	0	22.26	22.14	**22.32**	23.00
		25	13	22.21	21.97	22.15	23.00
		25	25	22.11	22.17	22.23	23.00
		50	0	22.24	22.00	22.25	23.00
	16QAM	1	0	22.66	22.38	22.23	23.00

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		1	25	21.80	22.12	22.51	23.00
		1	49	22.63	22.35	22.53	23.00
		25	0	21.13	21.16	20.99	22.00
		25	13	21.23	21.00	21.15	22.00
		25	25	21.19	21.30	21.12	22.00
		50	0	21.09	20.87	21.17	22.00
	64QAM	1	0	21.70	21.40	21.31	22.00
		1	25	20.90	21.14	21.53	22.00
		1	49	21.71	21.39	21.57	22.00
		25	0	20.19	20.25	20.06	21.00
		25	13	20.29	20.07	20.23	21.00
		25	25	20.23	20.38	20.19	21.00
		50	0	20.12	19.90	20.26	21.00

LTE Band 12 Receiver on(Left head) +WiFi on/Hotspot on				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
1.4MHz	QPSK	1	0	18.16	18.20	18.11	19.40
		1	2	17.91	17.89	18.02	19.40
		1	5	18.22	18.31	18.27	19.40
		3	0	18.19	18.21	18.20	19.40
		3	2	18.19	18.04	18.31	19.40
		3	3	18.18	18.29	18.26	19.40
		6	0	18.27	18.07	18.24	19.40
	16QAM	1	0	18.39	18.34	18.25	19.40
		1	2	18.31	17.93	18.54	19.40
		1	5	18.33	18.56	18.52	19.40
		3	0	18.12	18.12	18.12	19.40
		3	2	18.20	18.05	18.17	19.40
		3	3	18.19	18.23	18.17	19.40
		6	0	18.21	17.99	18.22	19.40
	64QAM	1	0	18.31	18.24	18.16	19.40
		1	2	18.25	17.88	18.47	19.40
		1	5	18.27	18.50	18.46	19.40
		3	0	18.04	18.05	18.03	19.40
		3	2	18.14	17.99	18.11	19.40
		3	3	18.13	18.17	18.10	19.40
		6	0	18.14	17.94	18.14	19.40
Bandwidth	Modulation	RB size	RB offset	Channel 23025	Channel 23095	Channel 23165	Tune up
3MHz	QPSK	1	0	18.26	18.27	18.18	19.40
		1	7	18.00	17.99	18.08	19.40
		1	14	18.31	18.39	18.36	19.40
		8	0	18.26	18.27	18.26	19.40
		8	4	18.28	18.11	18.39	19.40
		8	7	18.27	18.35	18.35	19.40

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		15	0	18.36	18.15	18.32	19.40
	16QAM	1	0	18.48	18.42	18.34	19.40
		1	7	18.40	17.99	18.63	19.40
		1	14	18.41	18.63	18.58	19.40
		8	0	18.19	18.18	18.19	19.40
		8	4	18.27	18.11	18.26	19.40
		8	7	18.24	18.31	18.26	19.40
		15	0	18.30	18.06	18.30	19.40
	64QAM	1	0	18.42	18.33	18.25	19.40
		1	7	18.30	17.93	18.54	19.40
		1	14	18.35	18.53	18.48	19.40
		8	0	18.10	18.13	18.11	19.40
		8	4	18.17	18.02	18.19	19.40
		8	7	18.19	18.24	18.16	19.40
		15	0	18.23	17.99	18.21	19.40
Bandwidth	Modulation	RB size	RB offset	Channel 23035	Channel 23095	Channel 23155	Tune up
5MHz	QPSK	1	0	18.32	18.34	18.24	19.40
		1	13	18.09	18.07	18.13	19.40
		1	24	18.40	18.48	18.45	19.40
		12	0	18.35	18.35	18.32	19.40
		12	6	18.36	18.19	18.45	19.40
		12	13	18.33	18.45	18.41	19.40
		25	0	18.42	18.24	18.37	19.40
	16QAM	1	0	18.54	18.52	18.40	19.40
		1	13	18.49	18.05	18.81	19.40
		1	24	18.50	18.73	18.65	19.40
		12	0	18.28	18.27	18.25	19.40
		12	6	18.33	18.16	18.35	19.40
		12	13	18.31	18.38	18.34	19.40
		25	0	18.36	18.14	18.35	19.40
	64QAM	1	0	18.48	18.44	18.31	19.40
		1	13	18.41	17.98	18.65	19.40
		1	24	18.42	18.64	18.56	19.40
		12	0	18.20	18.18	18.15	19.40
		12	6	18.27	18.09	18.28	19.40
		12	13	18.22	18.31	18.24	19.40
		25	0	18.29	18.05	18.27	19.40
Bandwidth	Modulation	RB size	RB offset	Channel 23060	Channel 23095	Channel 23130	Tune up
10MHz	QPSK	1	0	18.42	18.42	18.32	19.40
		1	25	18.16	18.12	18.20	19.40
		1	49	18.46	**18.53**	18.51	19.40
		25	0	18.43	18.44	18.41	19.40
		25	13	18.45	18.29	18.51	19.40
		25	25	18.42	18.51	18.51	19.40
		50	0	18.48	18.30	18.47	19.40

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	16QAM	1	0	18.59	18.59	18.46	19.40
		1	25	18.54	18.14	18.80	19.40
		1	49	18.55	18.79	18.74	19.40
		25	0	18.37	18.35	18.34	19.40
		25	13	18.41	18.24	18.44	19.40
		25	25	18.37	18.47	18.43	19.40
		50	0	18.42	18.23	18.43	19.40
	64QAM	1	0	18.51	18.54	18.38	19.40
		1	25	18.49	18.08	18.72	19.40
		1	49	18.46	18.74	18.68	19.40
		25	0	18.30	18.28	18.28	19.40
		25	13	18.36	18.19	18.35	19.40
		25	25	18.31	18.41	18.34	19.40
		50	0	18.36	18.17	18.36	19.40

LTE Band 12 Receiver on(Right head) +WiFi on/Hotspot on				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23017	23095	23173	
1.4MHz	QPSK	1	0	17.66	17.63	17.56	19.00
		1	2	17.42	17.28	17.43	19.00
		1	5	17.65	17.77	17.77	19.00
		3	0	17.67	17.69	17.63	19.00
		3	2	17.72	17.59	17.74	19.00
		3	3	17.65	17.78	17.79	19.00
		6	0	17.72	17.59	17.78	19.00
	16QAM	1	0	18.00	17.97	17.81	19.00
		1	2	17.52	17.44	17.77	19.00
		1	5	17.85	18.08	18.07	19.00
		3	0	17.58	17.64	17.56	19.00
		3	2	17.62	17.50	17.70	19.00
		3	3	17.66	17.65	17.71	19.00
		6	0	17.64	17.55	17.64	19.00
	64QAM	1	0	17.92	17.91	17.75	19.00
		1	2	17.44	17.37	17.71	19.00
		1	5	17.75	17.99	18.01	19.00
		3	0	17.53	17.57	17.50	19.00
		3	2	17.53	17.44	17.61	19.00
		3	3	17.58	17.60	17.61	19.00
		6	0	17.56	17.49	17.56	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23025	23095	23165	
3MHz	QPSK	1	0	17.74	17.72	17.61	19.00
		1	7	17.52	17.34	17.51	19.00
		1	14	17.73	17.84	17.82	19.00
		8	0	17.73	17.76	17.72	19.00
		8	4	17.81	17.66	17.83	19.00

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		8	7	17.71	17.84	17.84	19.00
		15	0	17.77	17.66	17.83	19.00
	16QAM	1	0	18.06	18.05	17.87	19.00
		1	7	17.61	17.52	17.84	19.00
		1	14	17.92	18.15	18.14	19.00
		8	0	17.67	17.70	17.66	19.00
		8	4	17.68	17.58	17.76	19.00
		8	7	17.71	17.71	17.78	19.00
		15	0	17.71	17.62	17.70	19.00
	64QAM	1	0	17.97	17.98	17.82	19.00
		1	7	17.52	17.45	17.77	19.00
		1	14	17.84	18.10	18.08	19.00
		8	0	17.60	17.64	17.57	19.00
		8	4	17.62	17.49	17.70	19.00
		8	7	17.61	17.63	17.68	19.00
		15	0	17.63	17.55	17.64	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23035	23095	23155	
	QPSK	1	0	17.81	17.81	17.69	19.00
		1	13	17.60	17.39	17.59	19.00
		1	24	17.83	17.93	17.90	19.00
		12	0	17.82	17.85	17.80	19.00
		12	6	17.89	17.72	17.91	19.00
		12	13	17.76	17.91	17.91	19.00
		25	0	17.87	17.73	17.90	19.00
	16QAM	1	0	18.13	18.12	17.94	19.00
		1	13	17.68	17.58	17.91	19.00
		1	24	18.00	18.23	18.33	19.00
5MHz		12	0	17.75	17.78	17.75	19.00
		12	6	17.74	17.65	17.84	19.00
		12	13	17.77	17.81	17.87	19.00
		25	0	17.81	17.67	17.80	19.00
	64QAM	1	0	18.06	18.02	17.86	19.00
		1	13	17.59	17.48	17.84	19.00
		1	24	17.92	18.17	18.13	19.00
		12	0	17.69	17.71	17.69	19.00
		12	6	17.65	17.56	17.76	19.00
		12	13	17.71	17.72	17.80	19.00
		25	0	17.71	17.61	17.75	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23060	23095	23130	
	QPSK	1	0	17.88	17.87	17.77	19.00
		1	25	17.70	17.46	17.65	19.00
10MHz		1	49	17.89	**18.00**	17.98	19.00
		25	0	17.91	17.90	17.89	19.00
		25	13	17.95	17.80	17.97	19.00
		25	25	17.86	17.97	17.97	19.00

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		50	0	17.95	17.82	17.96	19.00
	16QAM	1	0	18.21	18.21	18.03	19.00
		1	25	17.73	17.63	18.01	19.00
		1	49	18.07	18.31	18.24	19.00
		25	0	17.84	17.83	17.82	19.00
		25	13	17.83	17.75	17.90	19.00
		25	25	17.84	17.89	17.94	19.00
		50	0	17.87	17.75	17.86	19.00
	64QAM	1	0	18.14	18.13	17.95	19.00
		1	25	17.68	17.54	17.96	19.00
		1	49	17.98	18.22	18.17	19.00
		25	0	17.74	17.75	17.73	19.00
		25	13	17.77	17.67	17.84	19.00
		25	25	17.78	17.80	17.87	19.00
		50	0	17.79	17.67	17.76	19.00

LTE Band 12 Receiver off (Body Scene)+WiFi on/Hotspot on				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
1.4MHz	QPSK	1	0	20.38	20.13	20.20	21.00
		1	2	19.25	19.96	19.95	21.00
		1	5	20.32	20.13	20.34	21.00
		3	0	20.21	20.20	20.27	21.00
		3	2	20.17	20.06	20.14	21.00
		3	3	20.30	20.10	20.22	21.00
		6	0	20.29	20.11	19.73	21.00
	16QAM	1	0	20.51	20.18	20.44	21.00
		1	2	19.73	20.58	20.67	21.00
		1	5	20.45	20.41	20.52	21.00
		3	0	20.16	20.10	20.31	21.00
		3	2	19.74	19.35	20.32	21.00
		3	3	20.40	20.04	19.88	21.00
		6	0	20.27	19.86	20.15	21.00
	64QAM	1	0	20.41	20.11	20.35	21.00
		1	2	19.63	20.50	20.57	21.00
		1	5	20.38	20.35	20.47	21.00
		3	0	20.07	20.04	20.23	21.00
		3	2	19.67	19.29	20.24	21.00
		3	3	20.33	19.94	19.82	21.00
		6	0	20.19	19.79	20.07	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23025	Channel 23095	Channel 23165	Tune up
3MHz	QPSK	1	0	20.23	20.29	20.26	21.00
		1	7	19.69	20.00	19.80	21.00
		1	14	20.39	20.12	20.36	21.00
		8	0	20.15	20.10	20.23	21.00

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		8	4	20.48	20.13	20.26	21.00
		8	7	20.43	20.32	20.36	21.00
		15	0	20.40	19.97	20.21	21.00
	16QAM	1	0	20.46	20.56	20.53	21.00
		1	7	20.41	20.05	20.64	21.00
		1	14	20.46	20.39	20.66	21.00
		8	0	20.32	20.12	20.27	21.00
		8	4	20.47	20.06	20.44	21.00
		8	7	20.37	20.15	20.25	21.00
		15	0	20.20	19.94	20.17	21.00
	64QAM	1	0	20.41	20.50	20.44	21.00
		1	7	20.34	19.95	20.55	21.00
		1	14	20.37	20.29	20.60	21.00
		8	0	20.24	20.06	20.21	21.00
		8	4	20.41	19.98	20.34	21.00
		8	7	20.28	20.06	20.18	21.00
		15	0	20.13	19.84	20.11	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23035	Channel 23095	Channel 23155	Tune up
5MHz	QPSK	1	0	20.32	20.22	20.25	21.00
		1	13	20.33	20.11	20.23	21.00
		1	24	20.34	20.42	20.43	21.00
		12	0	20.32	20.26	20.27	21.00
		12	6	20.32	19.99	20.35	21.00
		12	13	20.37	20.24	20.47	21.00
		25	0	20.28	20.03	20.32	21.00
	16QAM	1	0	20.32	20.50	20.37	21.00
		1	13	20.48	20.23	20.43	21.00
		1	24	20.68	20.58	20.50	21.00
		12	0	20.34	20.03	20.38	21.00
		12	6	20.35	20.08	20.25	21.00
		12	13	20.27	20.11	20.28	21.00
		25	0	20.20	20.01	20.25	21.00
	64QAM	1	0	20.22	20.40	20.27	21.00
		1	13	20.42	20.16	20.38	21.00
		1	24	20.53	20.53	20.40	21.00
		12	0	20.27	19.97	20.29	21.00
		12	6	20.26	19.99	20.18	21.00
		12	13	20.19	20.04	20.22	21.00
		25	0	20.13	19.94	20.18	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23060	Channel 23095	Channel 23130	Tune up
10MHz	QPSK	1	0	20.31	**20.40**	20.28	21.00
		1	25	19.73	19.68	20.23	21.00
		1	49	20.14	20.22	20.17	21.00
		25	0	**20.38**	**20.27**	**20.25**	21.00
		25	13	20.34	20.05	20.20	21.00

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		25	25	20.09	20.22	20.17	21.00
		50	0	20.34	20.10	20.33	21.00
	16QAM	1	0	20.20	20.17	20.45	21.00
		1	25	20.09	19.72	20.27	21.00
		1	49	20.27	20.60	20.19	21.00
		25	0	20.32	20.12	20.06	21.00
		25	13	20.25	20.02	20.16	21.00
		25	25	20.06	20.16	20.35	21.00
		50	0	20.18	20.14	20.06	21.00
	64QAM	1	0	20.12	20.11	20.35	21.00
		1	25	20.02	19.64	20.22	21.00
		1	49	20.21	20.52	20.09	21.00
		25	0	20.22	20.03	19.98	21.00
		25	13	20.18	19.93	20.09	21.00
		25	25	19.99	20.09	20.29	21.00
		50	0	20.10	20.06	19.98	21.00

LTE Band 17 Receiver on(Left head)				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up
5MHz	QPSK	1	0	21.87	21.89	21.61	22.30
		1	13	21.73	21.77	21.76	22.30
		1	24	21.69	21.72	21.73	22.30
		12	0	21.74	21.77	21.64	22.30
		12	6	21.83	21.45	21.68	22.30
		12	13	21.68	21.70	21.72	22.30
		25	0	21.66	21.61	21.50	22.30
	16QAM	1	0	22.11	22.04	21.68	22.30
		1	13	22.14	21.69	21.92	22.30
		1	24	22.08	21.64	21.73	22.30
		12	0	21.08	21.09	21.14	22.00
		12	6	21.06	21.04	21.11	22.00
		12	13	21.21	21.14	21.11	22.00
		25	0	21.13	21.01	21.13	22.00
	64QAM	1	0	21.81	21.97	21.62	22.00
		1	13	21.87	21.62	21.87	22.00
		1	24	21.82	21.57	21.66	22.00
		12	0	20.61	20.67	20.72	21.00
		12	6	20.61	20.61	20.61	21.00
		12	13	20.73	20.71	20.71	21.00
		25	0	20.72	20.55	20.66	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800	Tune up
10MHz	QPSK	1	0	21.68	21.61	21.48	22.30
		1	25	21.62	21.43	21.81	22.30
		1	49	**21.69**	**21.66**	**21.87**	22.30

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		25	0	21.68	21.70	21.51	22.30
		25	13	**21.69**	**21.76**	**21.66**	22.30
		25	25	21.55	21.59	21.60	22.30
		50	0	21.66	**21.74**	21.61	22.30
	16QAM	1	0	21.71	21.57	21.92	22.30
		1	25	21.80	21.96	21.76	22.30
		1	49	21.88	21.65	22.03	22.30
		25	0	21.09	21.18	21.10	22.00
		25	13	21.24	20.98	21.19	22.00
		25	25	21.10	21.19	21.11	22.00
		50	0	21.10	21.14	21.02	22.00
	64QAM	1	0	21.62	21.51	21.84	22.00
		1	25	21.75	21.90	21.70	22.00
		1	49	21.82	21.57	21.97	22.00
		25	0	20.60	20.70	20.69	21.00
		25	13	20.79	20.57	20.70	21.00
		25	25	20.68	20.73	20.64	21.00
		50	0	20.65	20.68	20.53	21.00

LTE Band 17 Receiver on(Right head)				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up
5MHz	QPSK	1	0	20.69	20.75	20.67	21.50
		1	13	20.80	20.67	20.57	21.50
		1	24	20.75	20.73	20.80	21.50
		12	0	20.76	20.70	20.66	21.50
		12	6	20.75	20.67	20.59	21.50
		12	13	20.64	20.74	20.80	21.50
		25	0	20.65	20.82	20.65	21.50
	16QAM	1	0	20.76	20.64	20.58	21.50
		1	13	21.01	20.97	21.00	21.50
		1	24	20.77	20.74	20.63	21.50
		12	0	20.77	20.81	20.79	21.50
		12	6	20.57	20.71	20.44	21.50
		12	13	20.66	20.63	20.66	21.50
		25	0	20.49	20.39	20.52	21.50
	64QAM	1	0	20.67	20.57	20.53	21.50
		1	13	20.93	20.88	20.90	21.50
		1	24	20.69	20.67	20.55	21.50
		12	0	20.33	20.39	20.36	21.00
		12	6	20.11	20.26	19.97	21.00
		12	13	20.20	20.14	20.26	21.00
		25	0	20.00	19.95	20.07	21.00

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Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800	Tune up
10MHz	QPSK	1	0	20.71	20.62	20.63	21.50
		1	25	20.15	20.53	20.11	21.50
		1	49	**20.75**	**20.54**	**20.77**	21.50
		25	0	**20.73**	20.68	20.57	21.50
		25	13	20.70	20.63	20.54	21.50
		25	25	20.65	20.70	20.63	21.50
		50	0	20.64	20.54	**20.72**	21.50
	16QAM	1	0	20.55	21.00	20.36	21.50
		1	25	20.86	20.34	21.05	21.50
		1	49	20.93	20.84	21.00	21.50
		25	0	20.56	20.58	20.56	21.50
		25	13	20.62	20.48	20.66	21.50
		25	25	20.63	20.59	20.54	21.50
		50	0	20.50	20.53	20.70	21.50
	64QAM	1	0	20.50	20.91	20.30	21.50
		1	25	20.77	20.26	21.00	21.50
		1	49	20.85	20.77	20.91	21.50
		25	0	20.09	20.12	20.08	21.00
		25	13	20.20	20.07	20.20	21.00
		25	25	20.14	20.10	20.13	21.00
		50	0	20.02	20.09	20.29	21.00

LTE Band 17 Receiver off (Body Scene)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up
5MHz	QPSK	1	0	23.48	23.38	23.28	24.00
		1	13	23.27	23.05	23.22	24.00
		1	24	23.09	23.18	23.33	24.00
		12	0	21.93	22.00	21.92	23.00
		12	6	21.94	21.82	21.77	23.00
		12	13	21.91	21.93	21.83	23.00
		25	0	21.88	21.83	21.98	23.00
	16QAM	1	0	22.17	22.54	22.66	23.00
		1	13	22.48	22.30	22.31	23.00
		1	24	22.16	22.51	22.68	23.00
		12	0	21.20	21.24	21.18	22.00
		12	6	21.03	21.12	21.07	22.00
		12	13	21.19	21.25	21.23	22.00
		25	0	20.99	21.07	21.13	22.00
	64QAM	1	0	21.19	21.62	21.73	22.00
		1	13	21.56	21.32	21.39	22.00
		1	24	21.20	21.60	21.76	22.00
		12	0	20.22	20.28	20.22	21.00

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		12	6	20.07	20.15	20.14	21.00
		12	13	20.20	20.31	20.23	21.00
		25	0	20.01	20.13	20.23	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800	Tune up
10MHz	QPSK	1	0	23.05	23.16	23.08	24.00
		1	25	**23.20**	**23.45**	**23.18**	24.00
		1	49	22.94	23.04	23.09	24.00
		25	0	21.81	21.87	21.69	23.00
		25	13	21.84	21.90	21.70	23.00
		25	25	21.84	**21.93**	21.92	23.00
		50	0	21.79	21.88	21.76	23.00
	16QAM	1	0	22.22	22.20	22.12	23.00
		1	25	21.46	21.95	22.24	23.00
		1	49	22.48	22.43	22.53	23.00
		25	0	21.00	21.05	20.96	22.00
		25	13	20.90	21.05	20.91	22.00
		25	25	21.08	21.06	21.00	22.00
		50	0	21.07	20.96	21.08	22.00
	64QAM	1	0	21.27	21.21	21.12	22.00
		1	25	20.52	21.01	21.27	22.00
		1	49	21.49	21.43	21.55	22.00
		25	0	20.05	20.12	20.00	21.00
		25	13	19.92	20.11	19.91	21.00
		25	25	20.10	20.08	20.01	21.00
		50	0	20.17	19.98	20.15	21.00

LTE Band 17 Receiver on(Left head) +WiFi on/Hotspot on				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up
5MHz	QPSK	1	0	18.29	18.22	18.33	19.30
		1	13	18.08	18.09	17.88	19.30
		1	24	18.27	18.30	18.30	19.30
		12	0	18.30	18.31	18.30	19.30
		12	6	18.28	18.30	18.29	19.30
		12	13	18.32	18.31	18.31	19.30
		25	0	18.35	18.32	18.29	19.30
	16QAM	1	0	18.61	18.45	18.55	19.30
		1	13	18.47	18.16	18.23	19.30
		1	24	18.64	18.58	18.50	19.30
		12	0	18.17	18.24	18.23	19.30
		12	6	18.27	18.26	18.24	19.30
		12	13	18.26	18.21	18.19	19.30
		25	0	18.23	18.22	18.18	19.30
	64QAM	1	0	18.54	18.40	18.49	19.30
		1	13	18.37	18.07	18.13	19.30

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		1	24	18.59	18.49	18.42	19.30
		12	0	18.11	18.18	18.15	19.30
		12	6	18.21	18.20	18.15	19.30
		12	13	18.20	18.12	18.11	19.30
		25	0	18.13	18.14	18.11	19.30
Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800	Tune up
10MHz	QPSK	1	0	18.39	18.29	18.38	19.30
		1	25	18.13	18.15	17.96	19.30
		1	49	18.37	18.37	**18.42**	19.30
		25	0	18.36	18.40	18.37	19.30
		25	13	18.37	18.40	18.39	19.30
		25	25	18.39	18.40	18.38	19.30
		50	0	18.41	18.38	18.37	19.30
	16QAM	1	0	18.68	18.54	18.63	19.30
		1	25	18.54	18.23	18.30	19.30
		1	49	18.71	18.63	18.58	19.30
		25	0	18.25	18.33	18.30	19.30
		25	13	18.33	18.32	18.34	19.30
		25	25	18.32	18.30	18.28	19.30
		50	0	18.29	18.31	18.27	19.30
	64QAM	1	0	18.63	18.46	18.58	19.30
		1	25	18.47	18.18	18.21	19.30
		1	49	18.64	18.55	18.50	19.30
		25	0	18.20	18.25	18.21	19.30
		25	13	18.28	18.26	18.27	19.30
		25	25	18.23	18.25	18.19	19.30
		50	0	18.23	18.22	18.19	19.30

LTE Band 17 Receiver on(Right head) +WiFi on/Hotspot on				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up
5MHz	QPSK	1	0	17.33	17.22	17.27	18.50
		1	13	17.14	16.94	17.00	18.50
		1	24	17.31	17.34	17.35	18.50
		12	0	17.27	17.32	17.27	18.50
		12	6	17.35	17.28	17.25	18.50
		12	13	17.35	17.34	17.30	18.50
		25	0	17.35	17.31	17.26	18.50
	16QAM	1	0	17.65	17.49	17.58	18.50
		1	13	17.23	17.40	17.44	18.50
		1	24	17.53	17.59	17.66	18.50
		12	0	17.24	17.24	17.25	18.50
		12	6	17.24	17.22	17.26	18.50
		12	13	17.21	17.24	17.29	18.50
		25	0	17.28	17.27	17.23	18.50

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	64QAM	1	0	17.59	17.43	17.49	18.50
		1	13	17.15	17.34	17.36	18.50
		1	24	17.44	17.49	17.59	18.50
		12	0	17.16	17.19	17.19	18.50
		12	6	17.16	17.13	17.17	18.50
		12	13	17.13	17.16	17.22	18.50
		25	0	17.20	17.17	17.17	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800	Tune up
10MHz	QPSK	1	0	17.42	17.32	17.35	18.50
		1	25	17.21	17.00	17.07	18.50
		1	49	17.37	17.40	**17.44**	18.50
		25	0	17.36	17.41	17.34	18.50
		25	13	17.44	17.38	17.33	18.50
		25	25	17.44	17.41	17.36	18.50
		50	0	17.40	17.40	17.36	18.50
	16QAM	1	0	17.71	17.58	17.67	18.50
		1	25	17.30	17.49	17.51	18.50
		1	49	17.63	17.68	17.72	18.50
		25	0	17.31	17.33	17.34	18.50
		25	13	17.30	17.30	17.34	18.50
		25	25	17.31	17.32	17.34	18.50
		50	0	17.35	17.33	17.28	18.50
	64QAM	1	0	17.62	17.52	17.61	18.50
		1	25	17.24	17.42	17.44	18.50
		1	49	17.57	17.62	17.63	18.50
		25	0	17.23	17.27	17.27	18.50
		25	13	17.22	17.25	17.26	18.50
		25	25	17.26	17.23	17.29	18.50
		50	0	17.28	17.26	17.23	18.50

LTE Band 17 Receiver off (Body Scene)+WiFi on/Hotspot on				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up
5MHz	QPSK	1	0	20.20	20.27	20.20	21.00
		1	13	20.09	20.30	20.15	21.00
		1	24	20.24	20.24	20.31	21.00
		12	0	20.30	20.27	20.19	21.00
		12	6	19.96	20.18	20.20	21.00
		12	13	20.21	20.29	20.13	21.00
		25	0	20.21	20.21	20.11	21.00
	16QAM	1	0	20.24	20.27	20.19	21.00
		1	13	20.52	20.26	20.39	21.00
		1	24	20.27	20.38	20.54	21.00
		12	0	20.15	20.20	20.11	21.00
		12	6	20.12	20.20	20.10	21.00

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		12	13	20.12	20.19	20.26	21.00
		25	0	20.18	20.07	20.05	21.00
	64QAM	1	0	20.26	20.17	20.11	21.00
		1	13	20.47	20.21	20.32	21.00
		1	24	20.18	20.29	20.48	21.00
		12	0	20.09	20.12	20.02	21.00
		12	6	20.06	20.14	20.00	21.00
		12	13	20.03	20.10	20.20	21.00
		25	0	20.10	19.99	19.96	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800	Tune up
10MHz	QPSK	1	0	20.26	20.22	**20.38**	21.00
		1	25	20.16	19.57	20.34	21.00
		1	49	20.16	20.17	20.31	21.00
		25	0	**20.16**	**20.15**	**20.24**	21.00
		25	13	20.13	20.12	20.18	21.00
		25	25	20.14	20.13	20.11	21.00
		50	0	20.11	20.23	20.09	21.00
	16QAM	1	0	20.24	20.31	20.51	21.00
		1	25	20.33	20.34	19.61	21.00
		1	49	20.54	20.58	20.22	21.00
		25	0	20.08	20.18	20.08	21.00
		25	13	20.11	20.30	19.94	21.00
		25	25	20.17	20.12	20.17	21.00
		50	0	19.97	20.07	20.12	21.00
	64QAM	1	0	20.59	20.21	20.41	21.00
		1	25	20.24	20.28	19.52	21.00
		1	49	20.47	20.53	20.14	21.00
		25	0	20.00	20.11	20.00	21.00
		25	13	20.03	20.21	19.84	21.00
		25	25	20.12	20.02	20.09	21.00
		50	0	19.91	20.00	20.06	21.00

LTE Band 26 Receiver on(Left head)				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 26697	Channel 26865	Channel 27033	Tune up
1.4MHz	QPSK	1	0	20.57	20.54	20.39	21.50
		1	2	20.82	19.48	20.37	21.50
		1	5	20.61	20.50	20.42	21.50
		3	0	20.73	20.55	20.34	21.50
		3	2	20.56	20.48	20.33	21.50
		3	3	20.16	20.40	20.11	21.50
		6	0	20.47	20.18	20.27	21.50
	16QAM	1	0	20.98	20.78	20.67	21.50
		1	2	20.64	20.62	20.42	21.50
		1	5	20.99	20.50	20.14	21.50

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		3	0	20.68	20.38	20.36	21.50
		3	2	20.07	20.12	20.32	21.50
		3	3	20.65	19.84	20.40	21.50
		6	0	20.54	20.16	20.18	21.50
	64QAM	1	0	20.93	20.70	20.58	21.50
		1	2	20.55	20.55	20.33	21.50
		1	5	20.91	20.40	20.07	21.50
		3	0	20.59	20.30	20.27	21.50
		3	2	19.99	20.03	20.24	21.50
		3	3	20.59	19.75	20.33	21.50
		6	0	20.11	19.69	19.69	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26705	Channel 26865	Channel 27025	Tune up
3MHz	QPSK	1	0	20.59	20.42	20.35	21.50
		1	7	19.94	19.86	20.79	21.50
		1	14	20.47	20.49	20.43	21.50
		8	0	20.32	20.40	20.29	21.50
		8	4	20.35	20.45	20.41	21.50
		8	7	20.53	20.13	20.20	21.50
		15	0	20.63	20.45	20.34	21.50
	16QAM	1	0	20.84	20.92	20.96	21.50
		1	7	19.35	20.15	20.53	21.50
		1	14	20.81	20.94	20.73	21.50
		8	0	20.46	20.43	20.39	21.50
		8	4	20.63	20.35	20.43	21.50
		8	7	20.48	20.37	20.30	21.50
		15	0	20.65	20.38	20.36	21.50
	64QAM	1	0	20.75	20.82	20.86	21.50
		1	7	19.30	20.05	20.48	21.50
		1	14	20.76	20.84	20.64	21.50
		8	0	20.05	20.01	19.90	21.00
		8	4	20.21	19.93	20.01	21.00
		8	7	20.06	19.88	19.82	21.00
		15	0	20.23	19.97	19.89	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26715	Channel 26865	Channel 27015	Tune up
5MHz	QPSK	1	0	20.65	20.49	20.47	21.50
		1	13	20.63	20.45	20.52	21.50
		1	24	20.42	20.47	20.43	21.50
		12	0	20.54	20.56	20.36	21.50
		12	6	20.59	20.42	20.38	21.50
		12	13	20.57	20.49	20.43	21.50
		25	0	20.62	20.50	20.37	21.50
	16QAM	1	0	20.70	20.67	20.72	21.50
		1	13	20.50	20.92	20.31	21.50
		1	24	20.96	20.68	20.76	21.50
		12	0	20.61	20.52	20.37	21.50

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		12	6	20.53	20.31	20.26	21.50
		12	13	20.60	20.60	20.47	21.50
		25	0	20.45	20.43	20.26	21.50
	64QAM	1	0	20.63	20.62	20.63	21.50
		1	13	20.44	20.82	20.22	21.50
		1	24	20.88	20.61	20.70	21.50
		12	0	20.18	20.02	19.89	21.00
		12	6	20.08	19.84	19.76	21.00
		12	13	20.15	20.12	20.05	21.00
		25	0	20.04	19.96	19.77	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26740	Channel 26865	Channel 26990	Tune up
10MHz	QPSK	1	0	20.62	20.57	20.38	21.50
		1	25	20.67	19.87	20.22	21.50
		1	49	20.50	20.56	20.41	21.50
		25	0	20.47	20.53	20.43	21.50
		25	13	20.56	20.50	20.41	21.50
		25	25	20.50	20.48	20.47	21.50
		50	0	20.62	20.55	20.47	21.50
	16QAM	1	0	20.90	20.83	20.69	21.50
		1	25	19.70	20.28	20.07	21.50
		1	49	20.74	20.83	20.20	21.50
		25	0	20.39	20.50	20.38	21.50
		25	13	20.50	20.47	20.49	21.50
		25	25	20.44	20.43	20.45	21.50
		50	0	20.44	20.48	20.47	21.50
	64QAM	1	0	20.82	20.76	20.62	21.50
		1	25	19.60	20.21	19.97	21.50
		1	49	20.65	20.77	20.14	21.50
		25	0	19.98	20.07	19.89	21.00
		25	13	20.04	19.97	20.06	21.00
		25	25	20.02	19.99	20.01	21.00
		50	0	19.94	20.05	20.05	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26765	Channel 26865	Channel 26965	Tune up
15MHz	QPSK	1	0	20.48	20.48	**20.54**	21.50
		1	38	20.44	20.43	20.40	21.50
		1	74	20.47	20.32	20.32	21.50
		36	0	20.60	20.45	20.49	21.50
		36	18	**20.63**	**20.49**	**20.54**	21.50
		36	39	20.50	20.48	20.53	21.50
		75	0	20.58	20.50	20.45	21.50
	16QAM	1	0	20.79	20.69	20.80	21.50
		1	38	20.70	20.93	20.81	21.50
		1	74	20.49	20.60	20.23	21.50
		36	0	20.60	20.47	20.46	21.50
		36	18	20.40	20.54	20.39	21.50

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		36	39	20.46	20.40	20.44	21.50
		75	0	20.50	20.39	20.36	21.50
	64QAM	1	0	20.72	20.62	20.73	21.50
		1	38	20.63	20.85	20.74	21.50
		1	74	20.43	20.53	20.17	21.50
		36	0	20.18	20.02	20.05	21.00
		36	18	19.93	20.11	19.91	21.00
		36	39	20.01	19.99	20.04	21.00
		75	0	20.08	19.99	19.95	21.00

LTE Band 26 Receiver on(Right head)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 26697	Channel 26865	Channel 27033	Tune up
1.4MHz	QPSK	1	0	20.61	20.52	20.38	21.50
		1	2	20.00	20.78	20.21	21.50
		1	5	20.55	20.41	20.41	21.50
		3	0	20.53	20.52	20.34	21.50
		3	2	20.05	20.05	20.02	21.50
		3	3	20.49	20.43	19.98	21.50
		6	0	20.31	20.43	20.01	21.50
	16QAM	1	0	20.92	20.50	20.52	21.50
		1	2	20.39	20.66	20.60	21.50
		1	5	20.77	20.24	20.68	21.50
		3	0	20.76	20.43	20.37	21.50
		3	2	19.96	20.54	20.36	21.50
		3	3	20.51	20.06	20.54	21.50
		6	0	19.70	20.58	20.30	21.50
	64QAM	1	0	20.84	20.40	20.46	21.50
		1	2	20.31	20.60	20.51	21.50
		1	5	20.71	20.17	20.62	21.50
		3	0	20.68	20.38	20.31	21.50
		3	2	19.87	20.45	20.31	21.50
		3	3	20.44	19.98	20.46	21.50
		6	0	19.28	20.10	19.89	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26705	Channel 26865	Channel 27025	Tune up
3MHz	QPSK	1	0	20.54	20.40	20.45	21.50
		1	7	20.47	19.93	21.12	21.50
		1	14	20.56	20.45	20.43	21.50
		8	0	20.53	20.48	20.48	21.50
		8	4	20.68	20.47	20.28	21.50
		8	7	20.62	20.30	20.42	21.50
		15	0	20.53	20.43	20.38	21.50
	16QAM	1	0	20.92	20.84	20.39	21.50
		1	7	19.85	20.56	20.31	21.50
		1	14	20.41	20.67	20.42	21.50

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		8	0	20.39	20.56	20.39	21.50
		8	4	20.32	20.39	20.30	21.50
		8	7	20.58	20.23	20.21	21.50
		15	0	20.65	20.59	20.49	21.50
	64QAM	1	0	20.83	20.78	20.31	21.50
		1	7	19.77	20.47	20.25	21.50
		1	14	20.36	20.58	20.35	21.50
		8	0	19.98	20.07	19.94	21.00
		8	4	19.91	19.99	19.90	21.00
		8	7	20.17	19.82	19.73	21.00
		15	0	20.19	20.15	20.05	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26715	Channel 26865	Channel 27015	Tune up
5MHz	QPSK	1	0	20.51	20.47	20.35	21.50
		1	13	20.56	20.50	20.53	21.50
		1	24	20.51	20.48	20.48	21.50
		12	0	20.61	20.47	20.54	21.50
		12	6	20.55	20.51	20.31	21.50
		12	13	20.49	20.54	20.48	21.50
		25	0	20.58	20.54	20.31	21.50
	16QAM	1	0	20.71	21.13	20.79	21.50
		1	13	21.20	20.92	20.99	21.50
		1	24	20.92	20.48	20.29	21.50
		12	0	20.46	20.48	20.32	21.50
		12	6	20.45	20.42	20.26	21.50
		12	13	20.65	20.40	20.38	21.50
		25	0	20.44	20.62	20.34	21.50
	64QAM	1	0	20.64	21.07	20.69	21.50
		1	13	21.15	20.83	20.91	21.50
		1	24	20.82	20.41	20.20	21.50
		12	0	20.04	20.01	19.85	21.00
		12	6	20.03	19.95	19.76	21.00
		12	13	20.15	19.95	19.89	21.00
		25	0	20.01	20.18	19.86	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26740	Channel 26865	Channel 26990	Tune up
10MHz	QPSK	1	0	20.62	20.57	20.38	21.50
		1	25	20.67	19.87	20.22	21.50
		1	49	20.50	20.56	20.41	21.50
		25	0	20.47	20.53	20.43	21.50
		25	13	20.56	20.50	20.41	21.50
		25	25	20.50	20.48	20.47	21.50
		50	0	20.62	20.55	20.47	21.50
	16QAM	1	0	20.90	20.83	20.69	21.50
		1	25	19.70	20.28	20.07	21.50
		1	49	20.74	20.83	20.20	21.50
		25	0	20.39	20.50	20.38	21.50

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		25	13	20.50	20.47	20.49	21.50
		25	25	20.44	20.43	20.45	21.50
		50	0	20.44	20.48	20.47	21.50
	64QAM	1	0	20.84	20.77	20.61	21.50
		1	25	19.64	20.22	19.98	21.50
		1	49	20.65	20.74	20.11	21.50
		25	0	19.93	20.03	19.92	21.00
		25	13	20.00	20.02	20.07	21.00
		25	25	19.94	19.98	19.96	21.00
		50	0	20.00	20.05	20.02	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26765	Channel 26865	Channel 26965	Tune up
15MHz	QPSK	1	0	20.42	**20.55**	20.46	21.50
		1	38	20.53	20.36	20.43	21.50
		1	74	20.34	20.35	20.31	21.50
		36	0	20.50	20.56	20.46	21.50
		36	18	**20.59**	20.57	20.53	21.50
		36	39	20.47	20.45	20.52	21.50
		75	0	20.56	20.48	20.42	21.50
	16QAM	1	0	20.91	20.92	20.66	21.50
		1	38	21.01	20.31	20.74	21.50
		1	74	20.91	20.64	20.67	21.50
		36	0	20.57	20.45	20.38	21.50
		36	18	20.52	20.37	20.31	21.50
		36	39	20.52	20.57	20.31	21.50
		75	0	20.33	20.40	20.35	21.50
	64QAM	1	0	20.85	20.83	20.57	21.50
		1	38	20.93	20.25	20.64	21.50
		1	74	20.85	20.55	20.58	21.50
		36	0	20.11	20.02	19.98	21.00
		36	18	20.10	19.87	19.88	21.00
		36	39	20.12	20.12	19.82	21.00
		75	0	19.83	19.97	19.87	21.00

LTE Band 26 Receiver off (Body Scene)				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 26697	Channel 26865	Channel 27033	Tune up
1.4MHz	QPSK	1	0	23.18	23.05	22.94	24.00
		1	2	22.82	22.84	21.89	24.00
		1	5	23.15	22.97	22.96	24.00
		3	0	22.98	22.79	22.62	24.00
		3	2	22.93	23.03	22.58	24.00
		3	3	22.87	23.00	22.47	24.00
		6	0	22.12	21.74	21.90	23.00
	16QAM	1	0	22.17	22.40	22.15	23.00
		1	2	21.90	21.63	21.89	23.00

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		1	5	22.22	22.28	22.12	23.00
		3	0	22.21	21.82	21.78	23.00
		3	2	21.98	21.77	21.93	23.00
		3	3	22.20	22.12	22.18	23.00
		6	0	20.66	20.86	20.74	22.00
	64QAM	1	0	21.19	21.45	21.20	22.00
		1	2	20.96	20.65	20.97	22.00
		1	5	21.28	21.28	21.20	22.00
		3	0	21.24	20.84	20.82	22.00
		3	2	21.07	20.82	20.97	22.00
		3	3	21.22	21.16	21.18	22.00
		6	0	19.67	19.91	19.83	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26705	Channel 26865	Channel 27025	Tune up
3MHz	QPSK	1	0	23.10	22.97	22.93	24.00
		1	7	23.25	23.20	22.62	24.00
		1	14	22.96	22.93	22.80	24.00
		8	0	22.05	21.73	21.94	23.00
		8	4	22.04	21.88	22.00	23.00
		8	7	21.92	21.95	21.64	23.00
		15	0	21.95	22.01	21.83	23.00
	16QAM	1	0	22.47	22.10	21.90	23.00
		1	7	22.18	22.30	21.17	23.00
		1	14	22.52	22.21	21.93	23.00
		8	0	20.98	21.02	21.05	22.00
		8	4	21.03	21.01	20.61	22.00
		8	7	21.09	20.72	20.65	22.00
		15	0	20.93	20.90	20.79	22.00
	64QAM	1	0	21.54	21.16	21.00	22.00
		1	7	21.21	21.34	20.23	22.00
		1	14	21.61	21.30	20.98	22.00
		8	0	20.06	20.07	20.12	21.00
		8	4	20.13	20.06	19.66	21.00
		8	7	20.15	19.75	19.65	21.00
		15	0	20.00	19.94	19.85	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26715	Channel 26865	Channel 27015	Tune up
5MHz	QPSK	1	0	22.96	23.10	23.04	24.00
		1	13	23.19	23.03	23.04	24.00
		1	24	23.02	23.02	22.95	24.00
		12	0	22.12	22.07	21.97	23.00
		12	6	22.08	21.96	21.91	23.00
		12	13	22.03	22.01	21.98	23.00
		25	0	21.99	21.93	21.89	23.00
	16QAM	1	0	22.30	22.37	22.26	23.00
		1	13	22.31	21.91	21.86	23.00
		1	24	22.48	22.34	22.25	23.00

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		12	0	21.08	20.89	20.94	22.00
		12	6	20.88	20.86	20.80	22.00
		12	13	21.09	21.05	20.77	22.00
		25	0	20.97	20.91	20.82	22.00
	64QAM	1	0	21.39	21.43	21.27	22.00
		1	13	21.35	21.01	20.95	22.00
		1	24	21.52	21.40	21.30	22.00
		12	0	20.16	19.89	19.99	21.00
		12	6	19.97	19.94	19.83	21.00
		12	13	20.10	20.06	19.86	21.00
		25	0	20.04	19.93	19.84	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26740	Channel 26865	Channel 26990	Tune up
10MHz	QPSK	1	0	23.11	23.08	23.04	24.00
		1	25	22.72	22.49	22.57	24.00
		1	49	23.10	22.94	22.95	24.00
		25	0	21.98	22.10	21.92	23.00
		25	13	22.05	21.97	21.99	23.00
		25	25	22.09	21.94	21.93	23.00
		50	0	22.07	21.99	22.03	23.00
	16QAM	1	0	22.58	22.08	22.03	23.00
		1	25	21.78	21.62	21.60	23.00
		1	49	22.22	22.48	22.31	23.00
		25	0	21.06	20.82	20.80	22.00
		25	13	21.02	20.87	20.91	22.00
		25	25	21.02	20.94	20.84	22.00
		50	0	20.94	20.94	20.87	22.00
	64QAM	1	0	21.60	21.12	21.08	22.00
		1	25	20.83	20.63	20.66	22.00
		1	49	21.22	21.51	21.39	22.00
		25	0	20.11	19.90	19.90	21.00
		25	13	20.06	19.92	19.93	21.00
		25	25	20.03	19.96	19.89	21.00
		50	0	19.97	19.98	19.88	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26765	Channel 26865	Channel 26965	Tune up
15MHz	QPSK	1	0	23.03	22.98	22.98	24.00
		1	38	**23.06**	**23.17**	**23.07**	24.00
		1	74	22.94	22.84	22.82	24.00
		36	0	**22.17**	22.11	22.09	23.00
		36	18	22.10	21.99	21.93	23.00
		36	39	22.06	22.06	22.05	23.00
		75	0	22.03	22.06	22.00	23.00
	16QAM	1	0	22.38	22.33	22.29	23.00
		1	38	22.28	22.49	22.30	23.00
		1	74	22.29	22.38	22.29	23.00
		36	0	20.95	20.97	20.98	22.00

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		36	18	21.08	20.91	21.01	22.00
		36	39	20.96	20.92	20.95	22.00
		75	0	21.02	20.95	20.85	22.00
	64QAM	1	0	21.46	21.36	21.39	22.00
		1	38	21.35	21.50	21.37	22.00
		1	74	21.38	21.38	21.37	22.00
		36	0	19.99	20.05	20.06	21.00
		36	18	20.16	19.99	20.07	21.00
		36	39	20.00	19.98	20.01	21.00
		75	0	20.10	19.98	19.87	21.00

LTE Band 26 Receiver on(Left head) +WiFi on/Hotspot on				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 26697	Channel 26865	Channel 27033	Tune up
1.4MHz	QPSK	1	0	16.79	16.74	16.64	18.50
		1	2	16.87	16.77	16.77	18.50
		1	5	16.76	16.67	16.64	18.50
		3	0	16.74	16.80	16.80	18.50
		3	2	16.85	16.85	16.73	18.50
		3	3	16.80	16.78	16.71	18.50
		6	0	16.81	16.73	16.63	18.50
	16QAM	1	0	16.97	17.04	16.88	18.50
		1	2	16.95	16.96	16.98	18.50
		1	5	17.03	17.04	16.83	18.50
		3	0	16.81	16.80	16.74	18.50
		3	2	16.78	16.75	16.71	18.50
		3	3	16.73	16.73	16.74	18.50
		6	0	16.76	16.70	16.65	18.50
	64QAM	1	0	16.92	16.98	16.80	18.50
		1	2	16.86	16.88	16.88	18.50
		1	5	16.97	16.97	16.76	18.50
		3	0	16.71	16.73	16.69	18.50
		3	2	16.71	16.65	16.61	18.50
		3	3	16.67	16.64	16.65	18.50
		6	0	16.68	16.64	16.55	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 26705	Channel 26865	Channel 27025	Tune up
3MHz	QPSK	1	0	16.87	16.82	16.73	18.50
		1	7	16.92	16.84	16.83	18.50
		1	14	16.84	16.77	16.71	18.50
		8	0	16.84	16.89	16.85	18.50
		8	4	16.92	16.93	16.79	18.50
		8	7	16.86	16.88	16.80	18.50
		15	0	16.89	16.82	16.71	18.50
	16QAM	1	0	17.04	17.09	16.97	18.50
		1	7	17.02	17.03	17.05	18.50

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		1	14	17.09	17.10	16.90	18.50
		8	0	16.90	16.86	16.79	18.50
		8	4	16.85	16.83	16.76	18.50
		8	7	16.83	16.79	16.83	18.50
		15	0	16.83	16.79	16.74	18.50
	64QAM	1	0	16.97	17.00	16.91	18.50
		1	7	16.93	16.94	16.99	18.50
		1	14	17.04	17.05	16.82	18.50
		8	0	16.83	16.77	16.71	18.50
		8	4	16.77	16.77	16.67	18.50
		8	7	16.75	16.69	16.75	18.50
		15	0	16.76	16.73	16.69	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 26715	Channel 26865	Channel 27015	Tune up
5MHz	QPSK	1	0	16.93	16.88	16.81	18.50
		1	13	16.99	16.94	16.88	18.50
		1	24	16.92	16.85	16.81	18.50
		12	0	16.93	16.97	16.93	18.50
		12	6	16.99	16.98	16.86	18.50
		12	13	16.96	16.97	16.90	18.50
		25	0	16.97	16.89	16.81	18.50
	16QAM	1	0	17.13	17.15	17.04	18.50
		1	13	17.09	17.09	17.14	18.50
		1	24	17.15	17.17	16.98	18.50
		12	0	16.95	16.93	16.86	18.50
		12	6	16.92	16.89	16.83	18.50
		12	13	16.93	16.87	16.90	18.50
		25	0	16.88	16.88	16.82	18.50
	64QAM	1	0	17.07	17.09	16.98	18.50
		1	13	17.02	17.01	17.06	18.50
		1	24	17.09	17.08	16.93	18.50
		12	0	16.87	16.84	16.78	18.50
		12	6	16.83	16.82	16.78	18.50
		12	13	16.85	16.81	16.82	18.50
		25	0	16.78	16.81	16.76	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 26740	Channel 26865	Channel 26990	Tune up
10MHz	QPSK	1	0	17.01	16.93	16.88	18.50
		1	25	17.05	16.99	16.96	18.50
		1	49	16.99	16.94	16.90	18.50
		25	0	17.02	17.03	17.00	18.50
		25	13	17.06	17.04	16.93	18.50
		25	25	17.04	17.02	16.98	18.50
		50	0	17.02	16.98	16.88	18.50
	16QAM	1	0	17.20	17.21	17.11	18.50
		1	25	17.16	17.16	17.22	18.50
		1	49	17.23	17.26	17.03	18.50

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		25	0	17.05	16.99	16.96	18.50
		25	13	16.99	16.95	16.89	18.50
		25	25	16.99	16.96	16.96	18.50
		50	0	16.96	16.93	16.91	18.50
	64QAM	1	0	17.10	17.15	17.03	18.50
		1	25	17.11	17.10	17.13	18.50
		1	49	17.14	17.16	16.93	18.50
		25	0	17.00	16.94	16.86	18.50
		25	13	16.91	16.90	16.80	18.50
		25	25	16.93	16.89	16.91	18.50
		50	0	16.89	16.84	16.86	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 26765	Channel 26865	Channel 26965	Tune up
15MHz	QPSK	1	0	17.10	17.02	16.98	18.50
		1	38	17.12	17.08	17.04	18.50
		1	74	17.07	17.01	16.98	18.50
		36	0	17.11	17.11	17.06	18.50
		36	18	17.14	17.09	16.99	18.50
		36	39	17.11	17.08	17.04	18.50
		75	0	17.10	17.07	16.98	18.50
	16QAM	1	0	17.28	17.29	17.19	18.50
		1	38	17.25	17.25	17.27	18.50
		1	74	17.29	17.31	17.08	18.50
		36	0	17.11	17.04	17.03	18.50
		36	18	17.07	17.03	16.95	18.50
		36	39	17.05	17.05	17.04	18.50
		75	0	17.02	17.01	16.96	18.50
	64QAM	1	0	17.21	17.22	17.13	18.50
		1	38	17.18	17.19	17.20	18.50
		1	74	17.21	17.25	17.01	18.50
		36	0	17.01	16.96	16.97	18.50
		36	18	17.00	16.96	16.85	18.50
		36	39	16.96	16.96	16.97	18.50
		75	0	16.94	16.95	16.90	18.50

LTE Band 26 Receiver on(Right head) +WiFi on/Hotspot on				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 26697	Channel 26865	Channel 27033	Tune up
1.4MHz	QPSK	1	0	16.76	16.73	16.72	18.50
		1	2	16.82	16.73	16.72	18.50
		1	5	16.77	16.67	16.71	18.50
		3	0	16.83	16.79	16.78	18.50
		3	2	16.86	16.70	16.74	18.50
		3	3	16.75	16.78	16.71	18.50
		6	0	16.77	16.82	16.68	18.50
	16QAM	1	0	17.03	17.00	16.98	18.50

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		1	2	17.04	16.97	16.93	18.50
		1	5	16.91	16.93	16.85	18.50
		3	0	16.80	16.75	16.73	18.50
		3	2	16.73	16.68	16.68	18.50
		3	3	16.74	16.69	16.74	18.50
		6	0	16.79	16.73	16.63	18.50
	64QAM	1	0	16.94	16.91	16.91	18.50
		1	2	16.97	16.90	16.83	18.50
		1	5	16.83	16.84	16.76	18.50
		3	0	16.72	16.66	16.66	18.50
		3	2	16.66	16.61	16.61	18.50
		3	3	16.64	16.64	16.67	18.50
		6	0	16.70	16.65	16.55	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 26705	Channel 26865	Channel 27025	Tune up
3MHz	QPSK	1	0	16.82	16.83	16.82	18.50
		1	7	16.89	16.81	16.80	18.50
		1	14	16.83	16.77	16.77	18.50
		8	0	16.90	16.88	16.87	18.50
		8	4	16.91	16.79	16.80	18.50
		8	7	16.81	16.87	16.80	18.50
		15	0	16.84	16.87	16.74	18.50
	16QAM	1	0	17.08	17.09	17.06	18.50
		1	7	17.12	17.04	17.00	18.50
		1	14	16.97	17.02	16.91	18.50
		8	0	16.87	16.82	16.80	18.50
		8	4	16.79	16.77	16.75	18.50
		8	7	16.83	16.78	16.80	18.50
		15	0	16.84	16.79	16.68	18.50
	64QAM	1	0	17.00	17.01	16.96	18.50
		1	7	17.04	16.98	16.90	18.50
		1	14	16.89	16.95	16.81	18.50
		8	0	16.80	16.73	16.73	18.50
		8	4	16.71	16.69	16.66	18.50
		8	7	16.77	16.68	16.72	18.50
		15	0	16.77	16.70	16.62	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 26715	Channel 26865	Channel 27015	Tune up
5MHz	QPSK	1	0	16.91	16.88	16.87	18.50
		1	13	16.94	16.91	16.87	18.50
		1	24	16.93	16.86	16.82	18.50
		12	0	16.96	16.94	16.94	18.50
		12	6	16.96	16.88	16.89	18.50
		12	13	16.90	16.92	16.90	18.50
		25	0	16.91	16.95	16.81	18.50
	16QAM	1	0	17.14	17.15	17.14	18.50
		1	13	17.22	17.13	17.08	18.50

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		1	24	17.05	17.07	16.99	18.50
		12	0	16.95	16.91	16.90	18.50
		12	6	16.89	16.84	16.84	18.50
		12	13	16.90	16.86	16.86	18.50
		25	0	16.91	16.85	16.78	18.50
	64QAM	1	0	17.09	17.08	17.06	18.50
		1	13	17.15	17.04	17.00	18.50
		1	24	16.97	16.99	16.90	18.50
		12	0	16.87	16.81	16.82	18.50
		12	6	16.84	16.74	16.75	18.50
		12	13	16.82	16.80	16.80	18.50
		25	0	16.85	16.77	16.71	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 26740	Channel 26865	Channel 26990	Tune up
10MHz	QPSK	1	0	16.99	16.94	16.93	18.50
		1	25	17.03	16.97	16.94	18.50
		1	49	17.00	16.94	16.90	18.50
		25	0	17.05	17.00	16.99	18.50
		25	13	17.03	16.98	16.95	18.50
		25	25	16.98	16.98	16.96	18.50
		50	0	17.01	17.01	16.90	18.50
	16QAM	1	0	17.24	17.20	17.20	18.50
		1	25	17.30	17.20	17.14	18.50
		1	49	17.11	17.16	17.06	18.50
		25	0	17.05	17.00	16.97	18.50
		25	13	16.97	16.91	16.92	18.50
		25	25	16.98	16.94	16.94	18.50
		50	0	17.01	16.91	16.87	18.50
	64QAM	1	0	17.19	17.15	17.13	18.50
		1	25	17.24	17.13	17.05	18.50
		1	49	17.05	17.07	16.97	18.50
		25	0	16.95	16.92	16.91	18.50
		25	13	16.90	16.83	16.83	18.50
		25	25	16.90	16.88	16.87	18.50
		50	0	16.93	16.85	16.77	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 26765	Channel 26865	Channel 26965	Tune up
15MHz	QPSK	1	0	17.07	17.02	16.99	18.50
		1	38	17.10	17.05	17.03	18.50
		1	74	17.05	16.99	16.96	18.50
		36	0	17.13	17.10	17.05	18.50
		36	18	17.11	17.06	17.03	18.50
		36	39	17.08	17.07	17.05	18.50
		75	0	17.10	17.07	16.98	18.50
	16QAM	1	0	17.34	17.25	17.27	18.50
		1	38	17.36	17.26	17.20	18.50
		1	74	17.17	17.22	17.12	18.50

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		36	0	17.11	17.05	17.03	18.50
		36	18	17.04	17.00	16.97	18.50
		36	39	17.04	17.02	17.02	18.50
		75	0	17.07	17.00	16.96	18.50
	64QAM	1	0	17.28	17.17	17.20	18.50
		1	38	17.29	17.19	17.13	18.50
		1	74	17.11	17.16	17.04	18.50
		36	0	17.02	16.98	16.94	18.50
		36	18	16.99	16.94	16.90	18.50
		36	39	16.97	16.94	16.95	18.50
		75	0	17.01	16.94	16.91	18.50

LTE Band 26 Receiver off (Body Scene)+WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 26697	Channel 26865	Channel 27033	Tune up
1.4MHz	QPSK	1	0	20.06	19.96	19.87	21.00
		1	2	19.88	19.65	19.88	21.00
		1	5	20.07	19.94	19.87	21.00
		3	0	19.90	19.82	19.51	21.00
		3	2	19.87	19.86	19.76	21.00
		3	3	20.03	19.95	19.69	21.00
		6	0	20.19	19.86	19.74	21.00
	16QAM	1	0	20.57	20.15	20.41	21.00
		1	2	20.00	18.95	19.60	21.00
		1	5	20.45	20.39	20.15	21.00
		3	0	20.00	19.88	20.05	21.00
		3	2	19.88	20.16	19.63	21.00
		3	3	20.36	19.97	19.98	21.00
		6	0	19.44	19.79	19.21	21.00
	64QAM	1	0	20.50	20.06	20.53	21.00
		1	2	19.94	18.86	19.54	21.00
		1	5	20.41	20.31	20.05	21.00
		3	0	19.91	19.82	19.96	21.00
		3	2	19.80	20.07	19.56	21.00
		3	3	20.30	19.88	19.92	21.00
		6	0	19.36	19.71	19.12	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26705	Channel 26865	Channel 27025	Tune up
3MHz	QPSK	1	0	20.07	20.00	19.97	21.00
		1	7	19.73	19.34	19.50	21.00
		1	14	19.97	20.10	20.00	21.00
		8	0	20.11	19.93	19.97	21.00
		8	4	20.15	19.93	19.87	21.00
		8	7	19.92	20.03	19.74	21.00
		15	0	19.95	19.97	19.94	21.00
	16QAM	1	0	20.39	20.47	20.04	21.00

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		1	7	19.91	19.89	19.44	21.00
		1	14	20.22	20.47	20.41	21.00
		8	0	20.01	19.79	20.02	21.00
		8	4	20.09	19.98	19.95	21.00
		8	7	20.11	19.66	19.74	21.00
		15	0	20.17	19.77	19.93	21.00
	64QAM	1	0	20.32	20.39	19.95	21.00
		1	7	19.85	19.82	19.39	21.00
		1	14	20.13	20.58	20.31	21.00
		8	0	19.94	19.71	19.95	21.00
		8	4	20.03	19.93	19.87	21.00
		8	7	20.01	19.60	19.68	21.00
		15	0	20.11	19.71	19.86	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26715	Channel 26865	Channel 27015	Tune up
5MHz	QPSK	1	0	20.13	19.93	19.87	21.00
		1	13	20.03	20.04	19.97	21.00
		1	24	20.12	20.06	19.82	21.00
		12	0	20.09	19.97	19.91	21.00
		12	6	20.03	20.02	19.92	21.00
		12	13	20.02	20.05	19.98	21.00
		25	0	19.97	20.05	19.82	21.00
	16QAM	1	0	20.18	20.05	20.05	21.00
		1	13	20.42	20.54	20.11	21.00
		1	24	19.97	19.81	20.02	21.00
		12	0	20.06	20.07	19.96	21.00
		12	6	19.94	19.84	19.80	21.00
		12	13	20.11	20.01	19.89	21.00
		25	0	19.76	20.00	19.83	21.00
	64QAM	1	0	20.09	19.96	19.99	21.00
		1	13	20.37	20.44	20.05	21.00
		1	24	19.89	19.76	19.95	21.00
		12	0	19.98	20.01	19.90	21.00
		12	6	19.87	19.76	19.72	21.00
		12	13	20.05	19.93	19.83	21.00
		25	0	19.68	19.95	19.78	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26740	Channel 26865	Channel 26990	Tune up
10MHz	QPSK	1	0	20.11	19.98	19.91	21.00
		1	25	19.74	19.85	19.98	21.00
		1	49	20.07	19.90	19.92	21.00
		25	0	19.98	19.93	19.93	21.00
		25	13	19.96	20.03	19.78	21.00
		25	25	20.02	19.87	19.98	21.00
		50	0	20.03	19.94	19.96	21.00
	16QAM	1	0	20.49	20.11	20.17	21.00
		1	25	20.32	19.53	19.69	21.00

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		1	49	20.34	20.00	19.72	21.00
		25	0	19.94	19.97	19.93	21.00
		25	13	19.97	19.95	19.92	21.00
		25	25	20.02	19.89	19.89	21.00
		50	0	19.90	19.98	19.86	21.00
	64QAM	1	0	20.48	20.02	20.09	21.00
		1	25	20.22	19.44	19.61	21.00
		1	49	20.27	19.94	19.63	21.00
		25	0	19.88	19.90	19.86	21.00
		25	13	19.91	19.90	19.84	21.00
		25	25	19.93	19.80	19.82	21.00
		50	0	19.82	19.89	19.78	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 26765	Channel 26865	Channel 26965	Tune up
15MHz	QPSK	1	0	**19.94**	**20.05**	**19.92**	21.00
		1	38	19.92	20.02	19.85	21.00
		1	74	19.85	19.79	19.92	21.00
		36	0	20.00	20.07	19.97	21.00
		36	18	20.05	**20.08**	20.00	21.00
		36	39	20.03	19.94	19.95	21.00
		75	0	20.12	19.95	19.95	21.00
	16QAM	1	0	20.35	20.10	20.08	21.00
		1	38	20.25	19.80	20.17	21.00
		1	74	20.03	19.63	20.24	21.00
		36	0	20.08	20.02	19.91	21.00
		36	18	20.04	19.89	19.87	21.00
		36	39	19.93	19.95	20.06	21.00
		75	0	19.98	19.85	19.86	21.00
	64QAM	1	0	20.26	20.02	20.00	21.00
		1	38	20.18	19.71	20.09	21.00
		1	74	19.95	19.57	20.17	21.00
		36	0	20.00	19.94	19.82	21.00
		36	18	19.99	19.81	19.79	21.00
		36	39	19.83	19.90	19.98	21.00
		75	0	19.90	19.75	19.77	21.00

LTE Band 38 Receiver on(Left head)				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	17.01	17.29	17.22	18.50
		1	13	16.77	17.21	17.35	18.50
		1	24	16.77	17.26	17.15	18.50
		12	0	16.61	17.24	17.28	18.50
		12	6	16.55	17.22	17.08	18.50
		12	13	16.75	17.15	17.16	18.50
		25	0	16.58	17.05	17.16	18.50

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	16QAM	1	0	16.57	17.11	17.04	18.50
		1	13	16.84	17.03	17.10	18.50
		1	24	16.68	17.47	17.10	18.50
		12	0	16.65	17.11	17.17	18.50
		12	6	16.64	16.94	16.98	18.50
		12	13	16.56	17.02	17.08	18.50
		25	0	16.68	17.06	17.03	18.50
	64QAM	1	0	16.61	17.31	17.00	18.50
		1	13	17.15	17.33	17.15	18.50
		1	24	16.58	17.19	17.23	18.50
		12	0	16.80	17.19	17.09	18.50
		12	6	16.74	17.13	16.89	18.50
		12	13	16.64	17.21	17.04	18.50
		25	0	16.73	17.13	17.05	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	16.92	16.52	16.90	18.50
		1	25	17.33	17.24	17.29	18.50
		1	49	16.73	16.51	16.65	18.50
		25	0	16.88	17.15	17.20	18.50
		25	13	17.20	17.18	17.19	18.50
		25	25	16.58	17.15	17.15	18.50
		50	0	16.51	17.13	17.21	18.50
	16QAM	1	0	16.68	16.62	16.71	18.50
		1	25	16.95	17.18	17.49	18.50
		1	49	16.89	16.97	16.65	18.50
		25	0	16.76	17.04	17.43	18.50
		25	13	16.74	16.90	17.06	18.50
		25	25	17.36	17.06	16.92	18.50
		50	0	16.56	17.08	17.16	18.50
	64QAM	1	0	16.96	16.94	16.95	18.50
		1	25	17.13	17.01	16.79	18.50
		1	49	16.65	16.97	16.77	18.50
		25	0	16.84	17.25	17.02	18.50
		25	13	16.84	17.13	17.13	18.50
		25	25	16.81	17.09	17.12	18.50
		50	0	16.77	17.10	17.51	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 37825	Channel 38000	Channel 38175	Tune up
15MHz	QPSK	1	0	16.85	16.93	16.94	18.50
		1	38	16.84	17.14	17.32	18.50
		1	74	16.86	17.06	17.35	18.50
		36	0	16.77	17.20	17.45	18.50
		36	18	16.69	17.20	17.31	18.50
		36	39	16.66	17.14	17.01	18.50
		75	0	16.74	17.09	17.08	18.50
	16QAM	1	0	16.87	16.64	16.71	18.50

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		1	38	17.00	17.32	16.85	18.50
		1	74	16.64	17.01	16.75	18.50
		36	0	16.64	17.17	17.18	18.50
		36	18	16.65	17.15	17.15	18.50
		36	39	16.53	17.10	17.12	18.50
		75	0	16.65	17.13	17.18	18.50
	64QAM	1	0	16.50	16.91	17.11	18.50
		1	38	16.81	17.45	17.48	18.50
		1	74	16.79	17.00	17.28	18.50
		36	0	17.09	17.16	17.18	18.50
		36	18	17.06	17.17	17.26	18.50
		36	39	16.78	17.18	17.32	18.50
		75	0	17.01	17.14	17.64	18.50

Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	16.58	16.73	16.99	18.50
		1	50	16.82	17.01	17.00	18.50
		1	99	16.76	16.56	16.91	18.50
		50	0	17.00	17.23	17.37	18.50
		50	25	16.74	17.20	17.29	18.50
		50	50	16.58	17.15	17.28	18.50
		100	0	16.73	17.18	17.24	18.50
	16QAM	1	0	16.84	16.61	16.79	18.50
		1	50	16.76	16.50	17.65	18.50
		1	99	16.96	16.94	16.82	18.50
		50	0	16.73	17.08	17.27	18.50
		50	25	16.67	17.13	17.13	18.50
		50	50	16.81	17.04	17.22	18.50
		100	0	16.65	17.10	17.19	18.50
	64QAM	1	0	16.55	16.65	16.84	18.50
		1	50	16.81	17.24	17.18	18.50
		1	99	16.53	16.69	16.74	18.50
		50	0	17.03	17.11	17.55	18.50
		50	25	16.93	17.10	17.31	18.50
		50	50	17.09	17.26	17.38	18.50
		100	0	16.60	17.18	17.37	18.50

LTE Band 38 Receiver on(Right head)				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	13.08	13.25	13.26	14.50
		1	13	12.97	13.22	13.31	14.50
		1	24	12.91	13.19	13.16	14.50
		12	0	12.95	13.13	13.23	14.50
		12	6	12.84	13.11	13.21	14.50
		12	13	12.96	13.13	13.13	14.50

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		25	0	12.86	13.08	13.17	14.50
	16QAM	1	0	12.78	13.26	13.50	14.50
		1	13	12.80	13.21	12.97	14.50
		1	24	12.86	13.22	13.41	14.50
		12	0	12.81	13.08	13.07	14.50
		12	6	12.66	12.97	13.10	14.50
		12	13	12.71	13.12	13.07	14.50
		25	0	12.68	13.02	13.08	14.50
	64QAM	1	0	12.99	13.15	13.30	14.50
		1	13	12.99	13.16	13.66	14.50
		1	24	13.01	13.05	13.18	14.50
		12	0	12.99	13.18	13.21	14.50
		12	6	13.05	13.16	13.39	14.50
		12	13	12.94	13.13	13.26	14.50
		25	0	12.64	13.14	13.25	14.50
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	12.66	12.50	12.61	14.50
		1	25	13.18	13.59	13.14	14.50
		1	49	12.82	12.73	12.85	14.50
		25	0	12.86	13.10	13.20	14.50
		25	13	12.81	13.15	13.19	14.50
		25	25	12.75	13.09	13.14	14.50
		50	0	12.81	13.14	13.15	14.50
	16QAM	1	0	12.63	12.55	12.50	14.50
		1	25	13.66	13.69	13.49	14.50
		1	49	12.54	12.57	12.71	14.50
		25	0	12.83	13.08	13.15	14.50
		25	13	12.78	13.13	13.20	14.50
		25	25	12.76	13.22	13.04	14.50
		50	0	12.74	13.16	13.20	14.50
	64QAM	1	0	12.58	12.53	12.91	14.50
		1	25	12.84	13.39	13.38	14.50
		1	49	12.77	12.94	12.87	14.50
		25	0	13.24	13.10	13.42	14.50
		25	13	13.01	13.11	13.23	14.50
		25	25	12.64	13.12	13.23	14.50
		50	0	12.68	13.18	13.28	14.50
Bandwidth	Modulation	RB size	RB offset	Channel 37825	Channel 38000	Channel 38175	Tune up
15MHz	QPSK	1	0	12.57	12.56	12.67	14.50
		1	38	12.88	13.09	13.11	14.50
		1	74	12.88	13.07	12.87	14.50
		36	0	13.11	13.26	13.35	14.50
		36	18	12.79	13.08	13.24	14.50
		36	39	12.76	13.14	13.23	14.50
		75	0	12.82	13.15	13.35	14.50

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	16QAM	1	0	12.81	12.71	12.76	14.50
		1	38	13.09	13.47	13.43	14.50
		1	74	12.66	13.37	13.45	14.50
		36	0	12.78	13.13	13.35	14.50
		36	18	12.76	13.18	13.10	14.50
		36	39	12.68	13.08	13.18	14.50
		75	0	12.73	13.06	13.23	14.50
	64QAM	1	0	12.72	12.84	12.92	14.50
		1	38	13.07	13.37	13.54	14.50
		1	74	12.87	13.10	12.86	14.50
		36	0	13.16	13.19	13.29	14.50
		36	18	13.11	13.23	13.35	14.50
		36	39	13.12	13.14	13.09	14.50
		75	0	13.15	13.17	13.57	14.50

Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	12.66	12.64	12.88	14.50
		1	50	13.55	13.46	13.33	14.50
		1	99	12.59	12.84	12.74	14.50
		50	0	12.95	13.35	13.35	14.50
		50	25	12.91	13.24	13.19	14.50
		50	50	**13.55**	13.08	13.25	14.50
		100	0	12.93	13.29	13.22	14.50
	16QAM	1	0	12.66	12.71	12.90	14.50
		1	50	13.35	13.53	13.59	14.50
		1	99	12.89	12.79	12.70	14.50
		50	0	12.60	13.19	13.23	14.50
		50	25	12.86	12.93	13.19	14.50
		50	50	12.81	13.07	13.19	14.50
		100	0	12.84	13.10	13.23	14.50
	64QAM	1	0	13.00	12.74	12.94	14.50
		1	50	13.22	13.28	13.66	14.50
		1	99	12.85	12.93	12.68	14.50
		50	0	13.32	13.32	13.33	14.50
		50	25	12.73	13.16	13.28	14.50
		50	50	13.17	13.09	13.24	14.50
		100	0	13.20	13.27	13.17	14.50

LTE Band 38 Receiver off (Body Scene)				**Conducted Power(dBm)**			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	18.83	19.35	19.39	20.50
		1	13	18.85	19.27	19.21	20.50
		1	24	18.51	19.34	19.21	20.50
		12	0	18.81	19.36	19.23	20.50
		12	6	18.73	19.42	19.15	20.50

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		12	13	18.52	19.36	19.15	20.50
		25	0	18.68	19.23	19.22	20.50
	16QAM	1	0	18.80	19.31	19.23	20.50
		1	13	18.79	19.24	19.26	20.50
		1	24	18.63	19.81	19.06	20.50
		12	0	18.88	19.27	19.27	20.50
		12	6	18.81	19.18	18.98	20.50
		12	13	18.65	19.24	19.04	20.50
		25	0	18.57	19.32	19.12	20.50
	64QAM	1	0	18.80	19.10	19.55	20.50
		1	13	18.96	19.47	19.35	20.50
		1	24	18.91	19.03	19.37	20.50
		12	0	18.95	19.21	19.48	20.00
		12	6	18.91	19.14	19.50	20.00
		12	13	18.95	19.26	19.29	20.00
		25	0	18.92	19.16	19.29	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	18.60	18.71	18.76	20.50
		1	25	18.92	19.30	19.27	20.50
		1	49	18.89	18.87	18.97	20.50
		25	0	18.94	19.11	19.24	20.50
		25	13	18.52	19.06	19.22	20.50
		25	25	18.66	19.17	19.07	20.50
		50	0	18.54	19.20	19.38	20.50
	16QAM	1	0	18.67	18.87	18.77	20.50
		1	25	18.64	19.00	19.33	20.50
		1	49	18.82	19.16	19.39	20.50
		25	0	19.01	19.06	19.15	20.50
		25	13	18.74	19.01	19.10	20.50
		25	25	18.57	19.09	19.14	20.50
		50	0	18.64	19.04	19.26	20.50
	64QAM	1	0	18.62	18.74	18.85	20.50
		1	25	18.63	18.89	19.17	20.50
		1	49	18.61	18.55	18.74	20.50
		25	0	18.91	19.13	19.38	20.00
		25	13	18.78	19.15	19.43	20.00
		25	25	18.95	19.16	19.22	20.00
		50	0	18.80	19.13	19.29	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 37825	Channel 38000	Channel 38175	Tune up
15MHz	QPSK	1	0	18.54	18.61	18.77	20.50
		1	38	19.03	19.16	19.42	20.50
		1	74	18.97	19.09	18.94	20.50
		36	0	18.95	19.17	19.28	20.50
		36	18	18.95	19.18	19.36	20.50
		36	39	18.77	19.12	19.40	20.50

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		75	0	18.77	19.11	19.38	20.50
	16QAM	1	0	18.98	18.68	18.90	20.50
		1	38	18.68	19.07	19.54	20.50
		1	74	18.84	18.98	19.57	20.50
		36	0	18.74	19.05	19.33	20.50
		36	18	18.76	19.09	19.26	20.50
		36	39	18.62	19.13	19.17	20.50
		75	0	18.66	19.02	19.35	20.50
	64QAM	1	0	18.52	18.52	18.62	20.50
		1	38	19.51	19.16	19.24	20.50
		1	74	18.83	19.16	18.88	20.50
		36	0	19.08	19.23	19.52	20.00
		36	18	18.92	19.19	19.37	20.00
		36	39	19.01	19.17	19.34	20.00
		75	0	19.03	19.25	19.20	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	18.64	18.68	18.73	20.50
		1	50	19.58	19.35	19.54	20.50
		1	99	**19.58**	18.61	18.69	20.50
		50	0	18.62	19.35	19.68	20.50
		50	25	18.93	19.31	19.28	20.50
		50	50	18.96	19.31	19.24	20.50
		100	0	18.94	19.34	19.30	20.50
	16QAM	1	0	18.85	18.61	18.77	20.50
		1	50	19.16	19.58	19.89	20.50
		1	99	18.99	18.59	18.98	20.50
		50	0	18.62	19.33	19.39	20.50
		50	25	18.70	19.29	19.27	20.50
		50	50	18.78	19.24	19.18	20.50
		100	0	18.84	19.24	19.20	20.50
	64QAM	1	0	18.66	18.66	18.62	20.50
		1	50	18.96	19.49	19.49	20.50
		1	99	18.61	18.55	18.62	20.50
		50	0	19.22	19.23	19.54	20.00
		50	25	19.08	19.11	19.54	20.00
		50	50	19.15	19.19	19.52	20.00
		100	0	19.12	19.19	19.36	20.00

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LTE Band 38 Receiver on(Left head) +WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	14.11	14.17	14.40	15.50
		1	13	13.61	14.21	14.45	15.50
		1	24	13.85	14.19	14.31	15.50
		12	0	13.96	14.16	14.31	15.50
		12	6	13.91	14.15	14.24	15.50
		12	13	13.86	14.15	14.23	15.50
		25	0	13.85	14.11	14.20	15.50
	16QAM	1	0	13.92	14.36	14.35	15.50
		1	13	13.83	13.89	14.32	15.50
		1	24	13.75	14.11	14.26	15.50
		12	0	13.79	14.08	14.08	15.50
		12	6	13.74	14.04	14.12	15.50
		12	13	13.71	14.01	14.12	15.50
		25	0	13.70	13.97	14.23	15.50
	64QAM	1	0	13.68	14.36	14.29	15.50
		1	13	13.94	14.10	14.47	15.50
		1	24	13.89	14.21	14.63	15.50
		12	0	13.93	14.30	14.32	15.50
		12	6	13.93	14.15	14.23	15.50
		12	13	13.80	14.29	14.05	15.50
		25	0	13.80	14.11	14.39	15.50
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	13.99	13.52	13.82	15.50
		1	25	13.66	14.55	14.19	15.50
		1	49	13.75	13.65	13.72	15.50
		25	0	13.77	14.43	14.40	15.50
		25	13	13.78	14.40	14.40	15.50
		25	25	13.81	13.96	14.36	15.50
		50	0	13.83	14.00	14.34	15.50
	16QAM	1	0	13.63	13.69	13.68	15.50
		1	25	13.54	13.85	13.86	15.50
		1	49	13.74	13.84	13.67	15.50
		25	0	13.64	14.13	14.26	15.50
		25	13	13.69	13.98	14.24	15.50
		25	25	13.92	14.03	14.18	15.50
		50	0	13.56	14.02	14.28	15.50
	64QAM	1	0	13.73	13.83	14.11	15.50
		1	25	13.61	13.83	13.88	15.50
		1	49	13.70	13.68	13.76	15.50
		25	0	13.74	14.17	14.32	15.50
		25	13	14.01	14.08	14.25	15.50

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		25	25	13.93	14.10	14.36	15.50
		50	0	13.60	14.14	14.31	15.50
Bandwidth	Modulation	RB size	RB offset	Channel 37825	Channel 38000	Channel 38175	Tune up
15MHz	QPSK	1	0	13.64	13.95	13.72	15.50
		1	38	13.96	14.16	14.43	15.50
		1	74	13.87	14.21	14.36	15.50
		36	0	13.96	14.30	14.53	15.50
		36	18	13.94	14.28	14.40	15.50
		36	39	13.93	14.23	14.42	15.50
		75	0	13.95	14.27	14.39	15.50
	16QAM	1	0	13.84	13.86	13.86	15.50
		1	38	13.88	14.43	14.41	15.50
		1	74	13.98	14.38	13.84	15.50
		36	0	13.96	14.26	14.38	15.50
		36	18	13.89	14.22	14.37	15.50
		36	39	13.85	14.17	14.20	15.50
		75	0	13.85	14.21	14.31	15.50
	64QAM	1	0	13.64	13.89	13.98	15.50
		1	38	13.75	14.67	14.46	15.50
		1	74	14.03	14.27	14.15	15.50
		36	0	14.27	14.22	14.56	15.50
		36	18	14.17	14.19	14.42	15.50
		36	39	14.16	14.09	14.48	15.50
		75	0	14.11	14.11	14.44	15.50
Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	13.65	13.68	14.02	15.50
		1	50	13.98	14.26	14.36	15.50
		1	99	13.57	13.76	13.77	15.50
		50	0	13.96	14.22	14.48	15.50
		50	25	13.57	14.23	14.35	15.50
		50	50	13.91	14.27	14.38	15.50
		100	0	13.97	14.30	14.47	15.50
	16QAM	1	0	13.51	13.62	13.87	15.50
		1	50	13.68	14.03	14.16	15.50
		1	99	13.53	13.79	13.79	15.50
		50	0	13.92	14.18	14.39	15.50
		50	25	13.83	14.16	14.29	15.50
		50	50	13.84	14.22	14.38	15.50
		100	0	13.84	14.23	14.40	15.50
	64QAM	1	0	13.68	13.68	14.11	15.50
		1	50	14.33	14.11	14.57	15.50
		1	99	13.86	13.82	13.88	15.50
		50	0	14.30	14.22	14.65	15.50
		50	25	14.07	14.16	14.41	15.50
		50	50	14.16	14.02	14.36	15.50

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		100	0	14.24	14.18	14.48	15.50

LTE Band 38 Receiver on(Right head) +WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	9.95	10.28	10.31	11.50
		1	13	9.95	10.28	10.26	11.50
		1	24	9.56	10.22	10.12	11.50
		12	0	9.84	10.17	10.23	11.50
		12	6	9.68	10.34	10.26	11.50
		12	13	9.73	10.35	10.12	11.50
		25	0	9.77	10.30	10.15	11.50
	16QAM	1	0	9.88	10.35	10.25	11.50
		1	13	9.72	10.50	10.11	11.50
		1	24	9.86	10.10	10.07	11.50
		12	0	9.79	10.11	10.18	11.50
		12	6	9.75	10.06	9.97	11.50
		12	13	9.70	10.22	10.04	11.50
		25	0	9.78	10.11	10.03	11.50
	64QAM	1	0	10.14	10.43	10.52	11.50
		1	13	10.13	10.09	10.60	11.50
		1	24	9.93	10.40	10.41	11.50
		12	0	9.79	10.22	10.37	11.50
		12	6	9.91	10.31	10.23	11.50
		12	13	9.95	10.23	10.19	11.50
		25	0	9.79	10.13	10.16	11.50
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	9.56	9.52	9.77	11.50
		1	25	9.65	10.64	10.36	11.50
		1	49	9.50	9.60	9.55	11.50
		25	0	9.93	10.23	10.37	11.50
		25	13	9.71	10.22	10.34	11.50
		25	25	9.50	10.26	10.23	11.50
		50	0	9.85	10.29	10.37	11.50
	16QAM	1	0	9.77	9.88	9.74	11.50
		1	25	9.74	9.82	10.40	11.50
		1	49	9.75	9.67	9.65	11.50
		25	0	9.68	10.01	10.48	11.50
		25	13	9.55	9.95	10.26	11.50
		25	25	9.85	10.00	10.10	11.50
		50	0	9.50	10.11	10.24	11.50
	64QAM	1	0	9.95	9.84	9.96	11.50
		1	25	9.97	10.50	10.22	11.50
		1	49	9.75	9.67	9.78	11.50
		25	0	9.89	10.15	10.25	11.50

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		25	13	9.69	10.20	10.16	11.50
		25	25	10.04	10.12	10.34	11.50
		50	0	9.66	10.14	10.19	11.50
Bandwidth	Modulation	RB size	RB offset	Channel 37825	Channel 38000	Channel 38175	Tune up
15MHz	QPSK	1	0	9.95	9.84	9.63	11.50
		1	38	9.62	10.16	10.35	11.50
		1	74	9.94	10.05	10.19	11.50
		36	0	9.72	10.20	10.42	11.50
		36	18	9.84	10.19	10.34	11.50
		36	39	9.64	10.14	10.12	11.50
		75	0	9.70	10.12	10.35	11.50
	16QAM	1	0	9.86	9.61	9.84	11.50
		1	38	9.96	9.95	10.45	11.50
		1	74	9.79	9.90	10.07	11.50
		36	0	9.63	10.16	10.60	11.50
		36	18	9.71	10.16	10.43	11.50
		36	39	9.70	10.08	10.03	11.50
		75	0	9.75	10.04	10.20	11.50
	64QAM	1	0	9.84	9.56	9.94	11.50
		1	38	10.34	10.00	10.30	11.50
		1	74	10.22	10.30	10.22	11.50
		36	0	10.25	10.28	10.37	11.50
		36	18	9.74	10.16	10.30	11.50
		36	39	10.03	10.16	10.44	11.50
		75	0	9.84	10.20	10.26	11.50
Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	9.55	9.66	10.12	11.50
		1	50	10.15	10.45	10.61	11.50
		1	99	9.61	9.79	9.58	11.50
		50	0	9.97	10.34	10.56	11.50
		50	25	9.83	10.22	10.37	11.50
		50	50	9.96	10.33	10.35	11.50
		100	0	9.92	10.33	10.36	11.50
	16QAM	1	0	9.84	9.53	9.78	11.50
		1	50	10.26	10.29	10.43	11.50
		1	99	9.57	9.90	9.62	11.50
		50	0	9.70	10.25	10.31	11.50
		50	25	9.51	10.23	10.38	11.50
		50	50	9.91	10.25	10.31	11.50
		100	0	9.82	10.19	10.18	11.50
	64QAM	1	0	9.78	9.82	10.03	11.50
		1	50	10.37	10.37	10.38	11.50
		1	99	9.89	9.84	9.67	11.50
		50	0	9.86	10.27	10.51	11.50
		50	25	10.04	10.20	10.40	11.50

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		50	50	10.17	10.14	10.41	11.50
		100	0	9.89	10.19	10.37	11.50

LTE Band 38 Receiver off (Body Scene)+WiFi on/Hotspot on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	16.09	16.18	16.34	17.50
		1	13	15.67	16.13	16.30	17.50
		1	24	15.94	16.16	16.25	17.50
		12	0	15.79	16.15	16.38	17.50
		12	6	15.61	15.92	16.18	17.50
		12	13	15.51	16.19	16.29	17.50
		25	0	15.74	16.12	16.27	17.50
	16QAM	1	0	15.53	16.12	16.48	17.50
		1	13	16.11	16.39	16.48	17.50
		1	24	15.72	16.38	16.19	17.50
		12	0	16.03	16.04	16.27	17.50
		12	6	15.66	15.92	16.17	17.50
		12	13	15.99	16.28	16.11	17.50
		25	0	15.68	16.30	16.17	17.50
	64QAM	1	0	16.29	16.25	16.61	17.50
		1	13	15.84	16.32	16.47	17.50
		1	24	15.81	16.31	15.94	17.50
		12	0	16.04	16.15	16.14	17.50
		12	6	16.13	16.13	16.13	17.50
		12	13	15.95	16.22	16.19	17.50
		25	0	15.94	16.07	16.05	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	15.65	15.53	15.61	17.50
		1	25	15.73	16.17	16.48	17.50
		1	49	16.01	16.12	16.31	17.50
		25	0	15.86	16.17	16.22	17.50
		25	13	15.91	16.13	16.22	17.50
		25	25	15.66	16.18	16.17	17.50
		50	0	15.52	16.10	16.23	17.50
	16QAM	1	0	15.96	15.59	15.96	17.50
		1	25	16.03	16.65	16.71	17.50
		1	49	16.01	16.22	15.74	17.50
		25	0	15.85	16.24	16.25	17.50
		25	13	15.55	16.15	16.09	17.50
		25	25	15.60	16.22	16.15	17.50
		50	0	16.24	16.22	16.25	17.50
	64QAM	1	0	15.94	15.66	15.92	17.50
		1	25	16.04	16.15	15.70	17.50
		1	49	15.96	15.89	15.52	17.50

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		25	0	15.61	16.13	16.07	17.50
		25	13	15.67	16.21	16.22	17.50
		25	25	15.53	16.03	16.10	17.50
		50	0	15.57	16.08	16.22	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 37825	Channel 38000	Channel 38175	Tune up
15MHz	QPSK	1	0	15.66	15.51	15.93	17.50
		1	38	15.95	16.12	16.41	17.50
		1	74	15.91	16.12	15.98	17.50
		36	0	15.97	16.15	16.45	17.50
		36	18	15.89	16.15	16.36	17.50
		36	39	15.89	16.13	16.44	17.50
		75	0	15.95	16.09	16.41	17.50
	16QAM	1	0	15.59	15.74	15.61	17.50
		1	38	16.20	16.22	16.59	17.50
		1	74	15.95	16.34	16.59	17.50
		36	0	15.85	16.11	16.42	17.50
		36	18	15.93	16.00	16.16	17.50
		36	39	15.88	16.08	16.33	17.50
		75	0	15.86	16.04	16.34	17.50
	64QAM	1	0	15.89	15.50	16.18	17.50
		1	38	15.99	16.24	16.29	17.50
		1	74	15.86	16.14	16.03	17.50
		36	0	16.10	16.23	16.58	17.50
		36	18	15.96	16.05	16.45	17.50
		36	39	15.95	16.18	16.33	17.50
		75	0	16.06	16.14	16.48	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	**16.34**	15.58	15.91	17.50
		1	50	16.33	16.17	16.32	17.50
		1	99	15.99	15.86	15.73	17.50
		50	0	15.66	16.26	16.51	17.50
		50	25	15.91	16.16	16.41	17.50
		50	50	15.97	16.15	16.42	17.50
		100	0	15.91	16.17	16.44	17.50
	16QAM	1	0	15.89	15.89	15.82	17.50
		1	50	16.03	16.25	15.83	17.50
		1	99	15.99	15.56	16.07	17.50
		50	0	15.84	16.19	16.44	17.50
		50	25	15.81	16.03	16.35	17.50
		50	50	15.75	16.06	16.27	17.50
		100	0	15.85	16.04	16.36	17.50
	64QAM	1	0	15.98	15.68	15.85	17.50
		1	50	16.24	15.59	16.74	17.50
		1	99	15.79	15.78	16.12	17.50
		50	0	16.06	16.19	16.29	17.50

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		50	25	15.97	16.16	16.57	17.50
		50	50	15.76	16.13	16.22	17.50
		100	0	16.17	16.20	16.39	17.50

LTE Band 41 Receiver on(Left head)				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel 40165	Channel 40515	Channel 40865	Channel 41215	Tune up
5MHz	QPSK	1	0	18.12	17.45	17.70	17.20	19.00
		1	13	18.15	17.07	17.67	17.27	19.00
		1	24	17.72	17.25	17.24	17.22	19.00
		12	0	18.25	17.23	17.73	17.19	19.00
		12	6	18.17	17.23	17.66	17.08	19.00
		12	13	17.80	17.21	17.46	17.18	19.00
		25	0	17.80	17.19	17.51	17.15	19.00
	16QAM	1	0	17.64	17.25	17.43	17.03	19.00
		1	13	17.66	17.30	17.37	17.14	19.00
		1	24	17.86	17.01	17.19	17.14	19.00
		12	0	17.68	17.08	17.40	17.03	19.00
		12	6	18.00	17.09	17.38	17.12	19.00
		12	13	17.59	17.02	17.31	17.07	19.00
		25	0	17.56	17.10	17.31	17.19	19.00
	64QAM	1	0	18.49	17.53	17.89	17.45	19.00
		1	13	18.28	17.49	17.84	17.31	19.00
		1	24	18.15	17.74	17.75	17.31	19.00
		12	0	18.26	17.46	17.74	17.27	19.00
		12	6	18.27	17.14	17.54	17.17	19.00
		12	13	18.06	17.68	17.60	17.06	19.00
		25	0	18.28	17.44	17.48	17.39	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 40190	Channel 40523	Channel 40857	Channel 41190	Tune up
10MHz	QPSK	1	0	17.56	17.60	17.15	17.46	19.00
		1	25	18.00	17.01	17.55	17.08	19.00
		1	49	17.86	17.01	17.19	17.14	19.00
		25	0	17.96	17.31	17.84	17.28	19.00
		25	13	17.90	17.29	17.47	17.14	19.00
		25	25	17.88	17.25	17.57	17.24	19.00
		50	0	17.67	17.24	17.47	17.12	19.00
	16QAM	1	0	17.33	17.12	17.43	17.00	19.00
		1	25	17.68	17.83	17.46	17.58	19.00
		1	49	17.69	17.31	17.94	17.39	19.00
		25	0	18.08	17.20	17.50	17.22	19.00
		25	13	17.85	17.23	17.36	17.09	19.00
		25	25	17.37	17.24	17.41	17.82	19.00
		50	0	17.74	17.16	17.55	17.24	19.00
	64QAM	1	0	17.73	17.67	17.47	17.80	19.00
		1	25	17.73	17.92	17.06	17.63	19.00

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		1	49	17.74	17.49	17.73	17.77	19.00
		25	0	18.45	17.24	17.66	17.48	19.00
		25	13	18.16	17.58	17.42	17.11	19.00
		25	25	17.99	17.53	17.40	17.43	19.00
		50	0	17.96	17.10	17.47	17.50	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 40215	Channel 40532	Channel 40848	Channel 41165	Tune up
15MHz	QPSK	1	0	17.61	17.59	17.07	17.41	19.00
		1	38	17.82	17.29	17.59	17.27	19.00
		1	74	17.36	17.41	17.28	17.26	19.00
		36	0	18.02	17.32	17.94	17.19	19.00
		36	18	17.87	17.34	17.35	17.13	19.00
		36	39	17.39	17.23	17.39	17.19	19.00
		75	0	17.91	17.27	17.39	17.18	19.00
	16QAM	1	0	17.69	17.72	17.26	17.64	19.00
		1	38	17.71	17.32	17.89	17.98	19.00
		1	74	17.19	17.26	17.20	17.13	19.00
		36	0	17.98	17.17	17.87	17.13	19.00
		36	18	17.76	17.35	17.42	17.15	19.00
		36	39	17.28	17.31	17.30	17.10	19.00
		75	0	17.82	17.17	17.69	17.12	19.00
	64QAM	1	0	17.85	17.80	17.44	17.14	19.00
		1	38	18.09	17.51	17.63	17.38	19.00
		1	74	17.54	17.22	17.49	17.52	19.00
		36	0	18.02	17.67	17.67	17.56	19.00
		36	18	18.09	17.20	17.66	17.40	19.00
		36	39	17.70	17.62	17.60	17.39	19.00
		75	0	17.73	17.60	17.67	17.38	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 40240	Channel 40540	Channel 40840	Channel 41140	Tune up
20MHz	QPSK	1	0	18.04	17.64	18.12	17.55	19.00
		1	50	**18.20**	**17.99**	**18.13**	**17.86**	19.00
		1	99	17.90	17.68	17.19	17.80	19.00
		50	0	18.43	17.76	**18.66**	17.67	19.00
		50	25	17.73	17.80	18.07	17.45	19.00
		50	50	17.47	18.30	17.99	17.42	19.00
		100	0	18.32	18.25	18.51	17.60	19.00
	16QAM	1	0	17.54	17.00	18.35	17.97	19.00
		1	50	17.30	18.04	18.16	17.51	19.00
		1	99	17.19	17.38	17.92	17.10	19.00
		50	0	18.12	18.05	18.56	17.49	19.00
		50	25	17.71	18.02	17.99	17.32	19.00
		50	50	17.72	17.98	17.87	17.55	19.00
		100	0	17.80	17.95	18.39	17.64	19.00
	64QAM	1	0	18.03	17.85	17.54	17.24	19.00
		1	50	18.07	17.42	17.25	17.57	19.00
		1	99	17.95	17.38	17.94	17.12	19.00

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		50	0	18.05	17.66	17.78	17.51	19.00
		50	25	17.83	17.56	17.58	17.31	19.00
		50	50	17.68	17.36	17.61	17.04	19.00
		100	0	18.04	17.63	17.87	17.86	19.00

LTE Band 41 Receiver on(Right head)				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel 40165	Channel 40515	Channel 40865	Channel 41215	Tune up
5MHz	QPSK	1	0	14.15	13.40	13.68	13.45	15.00
		1	13	14.19	13.42	13.65	13.28	15.00
		1	24	14.07	13.31	13.66	13.27	15.00
		12	0	14.17	13.37	13.60	13.27	15.00
		12	6	14.09	13.31	13.64	13.23	15.00
		12	13	14.08	13.51	13.58	13.31	15.00
		25	0	14.08	13.50	13.66	13.19	15.00
	16QAM	1	0	14.34	13.31	13.60	13.29	15.00
		1	13	14.40	13.25	13.49	13.32	15.00
		1	24	13.72	13.57	13.61	13.38	15.00
		12	0	14.19	13.40	13.49	13.19	15.00
		12	6	13.96	13.34	13.39	13.16	15.00
		12	13	14.03	13.41	13.44	13.14	15.00
		25	0	14.01	13.38	13.53	13.11	15.00
	64QAM	1	0	14.25	13.28	14.20	13.79	15.00
		1	13	14.35	13.51	13.91	13.69	15.00
		1	24	13.92	13.60	13.87	13.73	15.00
		12	0	14.40	13.48	13.80	13.79	15.00
		12	6	14.23	13.23	13.74	13.79	15.00
		12	13	14.33	13.42	13.68	13.26	15.00
		25	0	14.32	13.43	13.62	13.70	15.00
Bandwidth	Modulation	RB size	RB offset	Channel 40190	Channel 40523	Channel 40857	Channel 41190	Tune up
10MHz	QPSK	1	0	13.55	13.99	13.12	13.79	15.00
		1	25	14.01	13.73	13.55	13.36	15.00
		1	49	13.99	13.88	13.84	13.64	15.00
		25	0	14.11	13.54	13.79	13.40	15.00
		25	13	13.83	13.53	13.66	13.24	15.00
		25	25	14.05	13.52	13.66	13.33	15.00
		50	0	14.01	13.52	13.67	13.24	15.00
	16QAM	1	0	13.29	13.97	13.83	13.46	15.00
		1	25	14.20	13.60	13.69	13.84	15.00
		1	49	13.01	13.43	13.70	13.88	15.00
		25	0	14.09	13.40	13.47	13.29	15.00
		25	13	13.87	13.45	13.54	13.24	15.00
		25	25	13.93	13.47	13.41	13.29	15.00
		50	0	13.84	13.42	13.47	13.43	15.00
	64QAM	1	0	13.81	13.51	13.15	13.05	15.00

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		1	25	14.12	13.71	13.99	13.08	15.00
		1	49	13.25	13.71	13.05	13.74	15.00
		25	0	14.52	13.60	13.64	13.26	15.00
		25	13	13.92	13.83	13.69	13.68	15.00
		25	25	13.75	13.37	13.53	13.45	15.00
		50	0	14.37	13.36	13.69	13.24	15.00
Bandwidth	Modulation	RB size	RB offset	Channel 40215	Channel 40532	Channel 40848	Channel 41165	Tune up
15MHz	QPSK	1	0	13.66	13.84	13.12	13.79	15.00
		1	38	13.85	13.48	13.63	13.38	15.00
		1	74	13.59	13.55	13.54	13.67	15.00
		36	0	14.14	13.53	13.72	13.32	15.00
		36	18	14.01	13.50	13.55	13.24	15.00
		36	39	13.82	13.51	13.56	13.28	15.00
		75	0	13.75	13.53	13.53	13.26	15.00
	16QAM	1	0	13.58	13.64	13.39	13.52	15.00
		1	38	14.02	13.28	13.38	13.37	15.00
		1	74	13.63	13.55	13.67	13.41	15.00
		36	0	14.01	13.42	13.68	13.25	15.00
		36	18	13.68	13.46	13.51	13.11	15.00
		36	39	13.67	13.39	13.54	13.22	15.00
		75	0	13.65	13.44	13.46	13.18	15.00
	64QAM	1	0	13.93	13.01	13.25	13.08	15.00
		1	38	14.24	13.67	13.76	13.52	15.00
		1	74	13.89	13.69	13.77	13.75	15.00
		36	0	14.40	13.93	14.00	13.85	15.00
		36	18	13.92	13.76	13.59	13.36	15.00
		36	39	13.62	13.59	13.64	13.38	15.00
		75	0	13.85	13.90	13.60	13.38	15.00
Bandwidth	Modulation	RB size	RB offset	Channel 40240	Channel 40540	Channel 40840	Channel 41140	Tune up
20MHz	QPSK	1	0	14.16	13.39	14.00	13.50	15.00
		1	50	**14.65**	14.41	14.19	13.61	15.00
		1	99	13.86	13.66	13.50	13.83	15.00
		50	0	14.47	14.24	**14.68**	13.71	15.00
		50	25	14.27	14.14	14.07	13.47	15.00
		50	50	13.58	14.27	14.02	13.54	15.00
		100	0	14.30	14.11	14.21	13.62	15.00
	16QAM	1	0	14.09	13.14	13.93	13.01	15.00
		1	50	14.21	13.59	14.26	13.61	15.00
		1	99	13.20	13.55	13.04	13.01	15.00
		50	0	14.41	14.22	14.66	13.74	15.00
		50	25	13.85	14.11	14.08	13.50	15.00
		50	50	13.51	14.20	13.91	13.52	15.00
		100	0	14.11	14.02	14.16	13.57	15.00
	64QAM	1	0	14.28	13.22	13.48	13.15	15.00
		1	50	13.79	13.82	13.66	13.54	15.00

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		1	99	13.06	13.12	13.34	13.21	15.00
		50	0	14.29	13.59	13.93	13.73	15.00
		50	25	14.04	13.29	13.57	13.45	15.00
		50	50	13.67	13.80	13.72	13.37	15.00
		100	0	14.16	13.82	13.81	13.43	15.00

LTE Band 41 Receiver off (Body Scene)				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel 40165	Channel 40515	Channel 40865	Channel 41215	Tune up
5MHz	QPSK	1	0	19.67	19.03	19.40	18.94	20.50
		1	13	19.62	19.05	19.00	18.56	20.50
		1	24	19.10	19.01	18.92	18.80	20.50
		12	0	19.49	19.01	18.95	18.85	20.50
		12	6	19.46	19.01	18.93	18.80	20.50
		12	13	19.48	18.99	18.92	18.87	20.50
		25	0	19.37	18.96	18.87	18.76	20.50
	16QAM	1	0	19.57	19.26	19.03	18.78	20.50
		1	13	19.67	18.99	18.95	18.71	20.50
		1	24	19.16	19.13	18.91	18.74	20.50
		12	0	19.63	18.90	18.84	18.71	20.50
		12	6	19.56	18.81	18.84	18.56	20.50
		12	13	19.21	18.90	18.79	18.73	20.50
		25	0	19.24	18.94	18.83	18.73	20.50
	64QAM	1	0	19.34	19.36	19.02	19.22	20.50
		1	13	19.47	18.92	19.19	18.92	20.50
		1	24	19.37	19.10	19.23	18.90	20.50
		12	0	19.68	19.13	19.25	18.84	20.00
		12	6	19.61	19.05	18.96	19.13	20.00
		12	13	19.64	19.14	19.13	18.83	20.00
		25	0	19.53	19.13	19.07	19.01	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 40190	Channel 40523	Channel 40857	Channel 41190	Tune up
10MHz	QPSK	1	0	19.04	18.78	18.67	18.84	20.50
		1	25	19.56	18.90	19.00	18.54	20.50
		1	49	18.95	18.86	18.94	18.94	20.50
		25	0	19.34	18.75	19.40	18.61	20.50
		25	13	19.31	18.74	18.95	18.72	20.50
		25	25	19.21	18.62	18.73	18.71	20.50
		50	0	19.08	18.65	19.17	18.70	20.50
	16QAM	1	0	18.85	18.81	18.52	18.91	20.50
		1	25	19.39	19.13	19.25	18.58	20.50
		1	49	18.50	18.96	18.94	18.75	20.50
		25	0	19.66	18.77	19.07	18.65	20.50
		25	13	19.36	18.70	18.82	18.62	20.50
		25	25	19.16	18.83	18.59	18.65	20.50
		50	0	19.37	18.80	19.13	18.63	20.50

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	64QAM	1	0	18.86	18.89	18.58	18.77	20.50
		1	25	19.60	19.11	18.77	19.05	20.50
		1	49	18.87	18.67	18.55	18.81	20.50
		25	0	19.49	18.87	19.36	19.06	20.00
		25	13	19.49	18.79	19.30	18.89	20.00
		25	25	19.39	18.91	19.16	18.94	20.00
		50	0	19.69	19.06	19.05	18.76	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 40215	Channel 40532	Channel 40848	Channel 41165	Tune up
15MHz	QPSK	1	0	18.88	18.89	18.89	18.78	20.50
		1	38	19.39	18.90	18.99	18.77	20.50
		1	74	18.83	18.93	18.88	18.76	20.50
		36	0	19.52	18.93	19.39	18.70	20.50
		36	18	19.41	18.86	18.86	18.67	20.50
		36	39	19.08	18.88	19.00	18.69	20.50
		75	0	19.27	18.92	19.10	18.72	20.50
	16QAM	1	0	18.85	18.96	18.58	18.97	20.50
		1	38	19.68	18.61	19.13	18.89	20.50
		1	74	18.62	18.71	18.98	18.93	20.50
		36	0	19.44	18.83	19.14	18.64	20.50
		36	18	19.25	18.84	19.00	18.52	20.50
		36	39	19.02	18.81	19.08	18.64	20.50
		75	0	19.30	18.80	19.02	18.61	20.50
	64QAM	1	0	19.01	18.68	18.57	18.77	20.50
		1	38	19.15	19.12	19.06	18.96	20.50
		1	74	19.14	18.76	18.94	19.24	20.50
		36	0	19.62	19.23	19.28	18.76	20.00
		36	18	19.15	18.73	19.15	18.86	20.00
		36	39	19.17	18.77	19.26	18.97	20.00
		75	0	19.48	18.90	19.03	18.92	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 40240	Channel 40540	Channel 40840	Channel 41140	Tune up
20MHz	QPSK	1	0	19.13	18.60	19.63	18.37	20.50
		1	50	**19.47**	**19.39**	**19.64**	**18.38**	20.50
		1	99	18.61	19.15	18.86	18.84	20.50
		50	0	19.76	19.57	**20.11**	19.19	20.50
		50	25	19.53	19.46	19.96	18.96	20.50
		50	50	19.15	19.63	19.75	18.95	20.50
		100	0	19.56	19.55	19.84	18.98	20.50
	16QAM	1	0	19.55	18.91	19.35	18.85	20.50
		1	50	19.44	19.27	19.27	19.33	20.50
		1	99	18.94	19.25	18.63	18.71	20.50
		50	0	19.70	19.40	19.98	19.24	20.50
		50	25	19.46	19.29	19.45	19.03	20.50
		50	50	19.35	19.46	19.30	18.98	20.50
		100	0	19.46	19.37	19.55	19.17	20.50
	64QAM	1	0	19.56	18.74	19.13	18.82	20.50

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		1	50	19.69	19.76	19.13	18.90	20.50
		1	99	18.86	18.57	18.91	18.82	20.50
		50	0	19.63	19.23	19.50	18.84	20.00
		50	25	19.37	19.09	19.32	18.85	20.00
		50	50	19.01	19.01	19.04	18.88	20.00
		100	0	19.62	19.24	19.20	18.89	20.00

LTE Band 41 Receiver on(Left head) +WiFi on/Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel 40165	Channel 40515	Channel 40865	Channel 41215	Tune up
5MHz	QPSK	1	0	14.90	14.00	14.72	14.05	16.00
		1	13	14.74	14.44	14.64	14.30	16.00
		1	24	14.88	14.42	14.18	14.87	16.00
		12	0	15.07	14.48	14.97	14.30	16.00
		12	6	14.87	14.54	14.70	14.22	16.00
		12	13	14.64	14.54	14.77	14.31	16.00
		25	0	14.95	14.51	14.80	14.35	16.00
	16QAM	1	0	14.45	14.16	14.54	14.86	16.00
		1	13	14.79	14.73	14.54	14.23	16.00
		1	24	14.65	14.40	14.86	14.75	16.00
		12	0	14.97	14.54	14.87	14.37	16.00
		12	6	14.76	14.42	14.59	14.18	16.00
		12	13	14.34	14.53	14.67	14.28	16.00
		25	0	14.84	14.46	14.59	14.32	16.00
	64QAM	1	0	15.28	14.87	14.89	14.81	16.00
		1	13	15.32	14.75	14.76	14.86	16.00
		1	24	15.21	14.84	14.69	14.67	16.00
		12	0	15.21	14.34	14.62	14.65	16.00
		12	6	15.09	14.71	14.86	14.75	16.00
		12	13	15.28	14.80	14.66	14.70	16.00
		25	0	15.24	14.74	14.66	14.68	16.00
Bandwidth	Modulation	RB size	RB offset	Channel 40190	Channel 40523	Channel 40857	Channel 41190	Tune up
10MHz	QPSK	1	0	14.60	14.80	14.36	14.65	16.00
		1	25	14.86	14.38	14.65	14.23	16.00
		1	49	14.54	14.75	14.39	14.37	16.00
		25	0	15.09	14.41	14.81	14.30	16.00
		25	13	15.07	14.40	14.69	14.16	16.00
		25	25	14.58	14.41	14.64	14.28	16.00
		50	0	14.91	14.39	14.70	14.21	16.00
	16QAM	1	0	14.53	14.75	14.30	14.78	16.00
		1	25	14.80	14.30	14.50	14.18	16.00
		1	49	14.52	14.70	14.38	14.05	16.00
		25	0	15.15	14.36	14.86	14.32	16.00
		25	13	15.03	14.31	14.72	14.08	16.00
		25	25	14.64	14.39	14.67	14.19	16.00

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		50	0	14.81	14.31	14.71	14.11	16.00
	64QAM	1	0	14.74	14.23	14.78	14.80	16.00
		1	25	15.07	14.80	14.75	14.78	16.00
		1	49	14.15	14.62	14.73	14.57	16.00
		25	0	15.20	14.71	15.00	14.65	16.00
		25	13	15.17	14.70	14.85	14.66	16.00
		25	25	15.11	14.23	14.53	14.28	16.00
		50	0	15.14	14.27	14.89	14.22	16.00
Bandwidth	Modulation	RB size	RB offset	Channel 40215	Channel 40532	Channel 40848	Channel 41165	Tune up
15MHz	QPSK	1	0	14.52	14.93	14.39	14.69	16.00
		1	38	14.98	14.54	14.52	14.47	16.00
		1	74	14.79	14.59	14.87	14.69	16.00
		36	0	15.32	14.61	14.95	14.41	16.00
		36	18	14.88	14.59	14.59	14.38	16.00
		36	39	14.88	14.27	14.67	14.39	16.00
		75	0	14.92	14.26	14.64	14.13	16.00
	16QAM	1	0	14.48	14.05	14.41	14.88	16.00
		1	38	14.81	14.27	14.69	14.25	16.00
		1	74	14.87	14.82	14.43	14.71	16.00
		36	0	14.84	14.49	14.60	14.41	16.00
		36	18	14.87	14.44	14.67	14.27	16.00
		36	39	14.70	14.45	14.50	14.03	16.00
		75	0	14.82	14.42	14.65	14.06	16.00
	64QAM	1	0	14.52	14.46	14.65	14.84	16.00
		1	38	15.32	14.78	14.87	14.88	16.00
		1	74	14.83	14.90	14.87	14.98	16.00
		36	0	15.25	14.73	15.20	14.36	16.00
		36	18	15.15	14.74	14.66	14.18	16.00
		36	39	14.75	14.72	14.72	14.35	16.00
		75	0	15.12	14.70	14.89	14.44	16.00
Bandwidth	Modulation	RB size	RB offset	Channel 40240	Channel 40540	Channel 40840	Channel 41140	Tune up
20MHz	QPSK	1	0	15.39	14.63	14.98	14.51	16.00
		1	50	15.25	14.63	14.70	14.55	16.00
		1	99	14.85	14.31	14.58	14.15	16.00
		50	0	15.22	14.63	14.93	14.54	16.00
		50	25	15.16	14.63	14.68	14.22	16.00
		50	50	15.29	14.27	14.59	14.28	16.00
		100	0	15.08	14.59	14.62	14.19	16.00
	16QAM	1	0	15.14	14.30	14.37	14.37	16.00
		1	50	15.17	14.04	14.31	14.29	16.00
		1	99	15.04	14.87	14.46	14.47	16.00
		50	0	14.94	14.44	14.50	14.20	16.00
		50	25	14.97	14.50	14.37	14.10	16.00
		50	50	14.94	14.18	14.53	14.15	16.00
		100	0	14.91	14.43	14.53	14.23	16.00

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	64QAM	1	0	15.29	14.14	14.73	14.16	16.00
		1	50	15.10	14.61	14.46	14.24	16.00
		1	99	14.64	14.36	14.25	14.44	16.00
		50	0	15.35	14.45	15.05	14.35	16.00
		50	25	14.72	14.70	14.77	14.38	16.00
		50	50	14.78	14.76	14.85	14.41	16.00
		100	0	14.85	14.74	14.89	14.33	16.00

LTE Band 41 Receiver on(Right head) +WiFi on/Hotspot on				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel 40165	Channel 40515	Channel 40865	Channel 41215	Tune up
5MHz	QPSK	1	0	11.01	10.49	10.66	10.24	12.00
		1	13	11.02	10.51	10.57	10.26	12.00
		1	24	10.92	10.44	10.46	10.24	12.00
		12	0	11.05	10.46	10.56	10.26	12.00
		12	6	11.00	10.40	10.65	10.21	12.00
		12	13	11.04	10.48	10.53	10.25	12.00
		25	0	10.87	10.42	10.56	10.29	12.00
	16QAM	1	0	11.06	10.58	10.41	10.28	12.00
		1	13	11.09	10.48	10.37	10.35	12.00
		1	24	10.78	10.25	10.20	10.09	12.00
		12	0	10.86	10.33	10.47	10.16	12.00
		12	6	10.85	10.33	10.36	10.10	12.00
		12	13	10.91	10.03	10.40	10.12	12.00
		25	0	10.94	10.05	10.53	10.04	12.00
	64QAM	1	0	11.28	10.70	10.80	10.64	12.00
		1	13	11.20	10.88	10.51	10.32	12.00
		1	24	11.39	10.17	10.93	10.64	12.00
		12	0	11.00	10.35	10.73	10.31	12.00
		12	6	11.38	10.71	10.63	10.27	12.00
		12	13	11.23	10.58	10.60	10.60	12.00
		25	0	11.01	10.62	10.57	10.25	12.00
Bandwidth	Modulation	RB size	RB offset	Channel 40190	Channel 40523	Channel 40857	Channel 41190	Tune up
10MHz	QPSK	1	0	10.48	10.55	10.09	10.82	12.00
		1	25	10.76	10.46	10.62	10.52	12.00
		1	49	10.82	10.66	10.88	10.57	12.00
		25	0	11.23	10.43	10.68	10.21	12.00
		25	13	10.75	10.40	10.58	10.25	12.00
		25	25	10.90	10.28	10.59	10.34	12.00
		50	0	10.75	10.27	10.73	10.24	12.00
	16QAM	1	0	10.56	10.55	10.02	10.53	12.00
		1	25	11.06	10.27	10.63	10.42	12.00
		1	49	10.82	10.76	10.89	10.63	12.00
		25	0	10.89	10.37	10.47	10.30	12.00
		25	13	10.75	10.27	10.40	10.13	12.00

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		25	25	10.72	10.15	10.33	10.28	12.00
		50	0	10.89	10.29	10.55	10.28	12.00
	64QAM	1	0	10.49	10.01	10.23	10.01	12.00
		1	25	10.76	10.73	10.36	10.62	12.00
		1	49	10.05	10.06	10.09	10.11	12.00
		25	0	11.41	10.67	10.65	10.69	12.00
		25	13	10.83	10.60	10.67	10.57	12.00
		25	25	10.53	10.06	10.58	10.02	12.00
		50	0	11.00	10.14	10.56	10.56	12.00
Bandwidth	Modulation	RB size	RB offset	Channel 40215	Channel 40532	Channel 40848	Channel 41165	Tune up
15MHz	QPSK	1	0	10.44	10.56	10.11	10.89	12.00
		1	38	11.09	10.33	10.74	10.36	12.00
		1	74	10.48	10.43	10.63	10.43	12.00
		36	0	11.28	10.27	10.79	10.44	12.00
		36	18	11.04	10.23	10.63	10.32	12.00
		36	39	10.65	10.65	10.63	10.46	12.00
		75	0	11.13	10.30	10.67	10.08	12.00
	16QAM	1	0	10.45	10.87	10.59	10.08	12.00
		1	38	10.94	10.16	10.74	10.89	12.00
		1	74	10.35	10.10	10.68	10.38	12.00
		36	0	11.23	10.28	10.91	10.44	12.00
		36	18	10.66	10.52	10.58	10.31	12.00
		36	39	10.61	10.14	10.54	10.44	12.00
		75	0	10.60	10.48	10.49	10.69	12.00
	64QAM	1	0	10.83	10.29	10.48	10.57	12.00
		1	38	11.12	10.94	11.00	10.34	12.00
		1	74	10.82	10.90	10.61	10.58	12.00
		36	0	11.42	10.70	10.87	10.22	12.00
		36	18	10.84	10.68	10.62	10.04	12.00
		36	39	10.79	10.25	10.74	10.57	12.00
		75	0	11.15	10.67	10.69	10.23	12.00
Bandwidth	Modulation	RB size	RB offset	Channel 40240	Channel 40540	Channel 40840	Channel 41140	Tune up
20MHz	QPSK	1	0	10.63	10.57	10.48	10.10	12.00
		1	50	10.65	10.49	10.59	10.19	12.00
		1	99	10.21	10.11	10.11	10.23	12.00
		50	0	11.16	10.39	10.85	10.45	12.00
		50	25	10.95	10.43	10.57	10.37	12.00
		50	50	10.54	10.48	10.67	10.44	12.00
		100	0	11.07	10.46	10.65	10.43	12.00
	16QAM	1	0	10.90	10.08	10.35	10.36	12.00
		1	50	10.49	10.03	10.32	10.20	12.00
		1	99	10.22	10.00	10.04	10.21	12.00
		50	0	11.04	10.41	10.74	10.20	12.00
		50	25	10.48	10.33	10.49	10.17	12.00
		50	50	10.44	10.52	10.58	10.38	12.00

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		100	0	11.01	10.52	10.73	10.43	12.00
	64QAM	1	0	11.03	10.07	10.55	10.22	12.00
		1	50	10.48	10.29	11.00	10.34	12.00
		1	99	10.02	10.36	10.21	10.22	12.00
		50	0	11.30	10.48	11.01	10.74	12.00
		50	25	11.09	10.37	10.89	10.27	12.00
		50	50	10.62	10.80	10.86	10.25	12.00
		100	0	10.72	10.50	10.91	10.63	12.00

LTE Band 41 Receiver off (Body Scene)+WiFi on/Hotspot on				**Conducted Power(dBm)**				
Bandwidth	Modulation	RB size	RB offset	Channel 40165	Channel 40515	Channel 40865	Channel 41215	Tune up
5MHz	QPSK	1	0	16.69	16.07	16.20	15.79	17.50
		1	13	16.57	16.10	16.16	15.76	17.50
		1	24	16.62	15.68	16.00	15.70	17.50
		12	0	16.59	15.68	16.10	15.78	17.50
		12	6	16.58	15.80	15.98	15.73	17.50
		12	13	16.60	15.89	15.98	15.83	17.50
		25	0	16.56	15.76	16.06	15.75	17.50
	16QAM	1	0	16.60	15.95	15.99	15.57	17.50
		1	13	16.83	16.06	16.12	15.62	17.50
		1	24	16.09	15.60	16.02	15.66	17.50
		12	0	16.51	15.85	16.00	15.71	17.50
		12	6	16.53	15.89	15.86	15.64	17.50
		12	13	16.51	15.77	15.95	15.62	17.50
		25	0	16.53	15.87	15.99	15.70	17.50
	64QAM	1	0	16.73	16.20	16.25	15.98	17.50
		1	13	16.78	16.04	16.01	16.25	17.50
		1	24	16.34	16.05	16.08	16.07	17.50
		12	0	16.72	16.12	16.22	16.21	17.50
		12	6	16.56	15.76	16.07	16.06	17.50
		12	13	16.69	16.12	16.01	15.72	17.50
		25	0	16.69	15.74	16.04	16.13	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 40190	Channel 40523	Channel 40857	Channel 41190	Tune up
10MHz	QPSK	1	0	15.91	15.66	15.77	16.01	17.50
		1	25	16.52	15.88	16.11	15.74	17.50
		1	49	16.37	15.92	16.10	16.08	17.50
		25	0	16.45	15.75	16.47	15.77	17.50
		25	13	16.38	15.98	16.06	15.74	17.50
		25	25	16.41	16.01	15.96	15.77	17.50
		50	0	16.32	15.94	16.11	15.71	17.50
	16QAM	1	0	15.66	16.20	15.69	16.12	17.50
		1	25	15.80	16.01	15.68	15.64	17.50
		1	49	16.30	15.91	16.16	16.26	17.50
		25	0	16.49	15.91	16.10	15.72	17.50

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		25	13	16.40	15.88	16.03	15.63	17.50
		25	25	16.16	15.55	15.98	15.79	17.50
		50	0	16.22	15.54	16.13	15.76	17.50
	64QAM	1	0	15.54	15.63	15.90	15.80	17.50
		1	25	16.10	15.92	16.39	15.96	17.50
		1	49	16.22	16.10	15.77	15.91	17.50
		25	0	16.98	16.20	16.28	15.76	17.50
		25	13	16.57	15.85	16.18	15.71	17.50
		25	25	16.41	16.02	16.12	15.80	17.50
		50	0	16.59	16.07	16.12	16.12	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 40215	Channel 40532	Channel 40848	Channel 41165	Tune up
15MHz	QPSK	1	0	15.94	15.95	15.62	15.86	17.50
		1	38	16.46	16.08	16.09	15.75	17.50
		1	74	16.01	16.04	15.70	15.84	17.50
		36	0	16.49	15.68	16.54	15.79	17.50
		36	18	16.40	15.95	16.18	15.78	17.50
		36	39	16.29	15.93	16.05	15.83	17.50
		75	0	16.12	15.91	16.20	15.83	17.50
	16QAM	1	0	15.88	16.29	15.80	16.15	17.50
		1	38	16.24	15.76	15.96	15.75	17.50
		1	74	15.93	16.00	16.27	15.97	17.50
		36	0	16.41	15.81	16.28	15.82	17.50
		36	18	16.22	15.75	15.96	15.67	17.50
		36	39	15.76	15.91	16.13	15.85	17.50
		75	0	16.11	15.77	16.09	15.75	17.50
	64QAM	1	0	15.60	15.69	15.94	15.83	17.50
		1	38	16.14	15.97	16.46	16.05	17.50
		1	74	16.30	16.12	15.57	15.98	17.50
		36	0	16.99	16.29	16.34	15.85	17.50
		36	18	16.60	15.91	16.19	15.74	17.50
		36	39	16.48	16.05	16.17	15.82	17.50
		75	0	16.68	16.13	16.16	16.16	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 40240	Channel 40540	Channel 40840	Channel 41140	Tune up
20MHz	QPSK	1	0	16.20	15.86	16.55	15.57	17.50
		1	50	**16.21**	**16.51**	**16.62**	**15.77**	17.50
		1	99	16.18	15.83	15.80	15.74	17.50
		50	0	16.79	16.50	**17.20**	16.41	17.50
		50	25	16.14	16.35	16.60	16.27	17.50
		50	50	16.34	16.83	16.44	16.06	17.50
		100	0	16.68	16.40	16.73	16.19	17.50
	16QAM	1	0	15.87	15.95	16.93	15.71	17.50
		1	50	15.60	16.76	16.58	16.25	17.50
		1	99	15.57	16.37	15.93	16.14	17.50
		50	0	16.66	16.37	17.09	16.06	17.50
		50	25	16.05	16.30	16.57	15.92	17.50

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		50	50	16.17	16.71	16.56	15.95	17.50
		100	0	16.61	16.33	16.84	16.10	17.50
	64QAM	1	0	16.49	16.31	15.87	16.48	17.50
		1	50	16.60	16.09	16.21	15.62	17.50
		1	99	15.63	15.80	16.20	15.53	17.50
		50	0	16.84	16.23	16.60	16.11	17.50
		50	25	16.33	16.08	16.27	15.69	17.50
		50	50	16.23	16.15	16.28	16.16	17.50
		100	0	16.52	15.91	16.21	16.08	17.50

Table 16：Conducted Power of LTE

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8.1.3 Conducted Power of Downlink LTE CA

In this section, 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 ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

Power test equipment: R&S Radio Communication Tester CMU500 and/or Anritsu Radio Communication Analyzer MT8821C
The device supports Rel. 13 downlink only LTE Carrier Aggregation and certain network enhancement features. It supports a maximum of 4 carriers in the downlink.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V13.5.0 (2016-09) The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521 V13.3.0 (2016-09). According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing and PAG requirements.

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Intra-band contiguous

Initial Conditions								
Test Environment as specified in TS 36.508[7] subclause 4.1			NC, TL/VL, TL/VH, TH/VL, TH/VH					
Test Frequencies as specified in TS 36.508 [7] subclause 4.3.1 for different CA bandwidth classes, and PCC and SCCs are mapped onto physical frequencies according to Table 6.1-2.			C: Mid range					
Test CC Combination setting (N_{RB_agg}) as specified in subclause 5.4.2A.1 for the CA Configuration across bandwidth combination sets supported by the UE.			Lowest N_{RB_agg} Highest N_{RB_agg} (Note 2)					
Test Parameters for CA Configurations								
CA Configuration / N_{RB_agg}		**DL Allocation**	**CC MOD**	**UL Allocation**				
PCC N_{RB}	**SCCs N_{RB}**	**PCC & SCC RB allocation**		**N_{RB_alloc}**	**PCC & SCC RB allocations (L_{CRB} @ RB_{start})**			
75	75	N/A for this test	QPSK	16	P_16@0	S_0@0	-	-
100	25		QPSK	8	P_8@0	S_0@0	-	-
100	50		QPSK	12	P_12@0	S_0@0	-	-
100	100		QPSK	18	P_18@0	S_0@0	-	-
Note 1: CA Configuration Test CC Combination settings are checked separately for each CA Configuration, which applicable aggregated channel bandwidths are specified in Table 5.4.2A.1-1 Note 2: If in the CA Configuration UE supports multiple CC Combinations with the same N_{RB_agg}, only the first of those is tested, according to the order on the Test Configuration Table list.								

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Inter-band

Initial Conditions								
Test Environment as specified in TS 36.508[7] subclause 4.1			NC, TL/VL, TL/VH, TH/VL, TH/VH					
Test Frequencies as specified in TS 36.508 [7] subclause 4.3.1 for different CA bandwidth classes.			A: Mid range PCC-SCC: CC1-CC2					
Test CC Combination setting (N_{RB_agg}) as specified in subclause 5.4.2A.1-2 for the CA Configuration across bandwidth combination sets supported by the UE.			Lowest N_{RB_agg} Highest N_{RB_agg} (Note 2)					
Test Parameters for CA Configurations								
CA Configuration / N_{RB_agg}		**DL Allocation**	**CC MOD**	**UL Allocation**				
PCC N_{RB}	**SCCs N_{RB}**	**PCC & SCC RB allocation**		**N_{RB_alloc}**	**PCC & SCC RB allocations (L_{CRB} @ RB_{start})**			
6	25	N/A for this test	QPSK	13	P_5@0	S_8@0	-	-
6	50		QPSK	17	P_5@0	S_12@0	-	-
25	15		QPSK	12	P_8@0	S_5@0	-	-
25	25		QPSK	16	P_8@0	S_8@0	-	-
25	50		QPSK	20	P_8@0	S_12@0	-	-
50	25		QPSK	20	P_12@0	S_8@0	-	-
50	50		QPSK	24	P_12@0	S_12@0	-	-
50	100		QPSK	30	P_12@0	S_18@0	-	-
75	75		QPSK	32	P_16@0	S_16@0	-	-
100	50		QPSK	30	P_18@0	S_12@0	-	-
100	75		QPSK	34	P_18@0	S_16@0	-	-
100	100		QPSK	36	P_18@0	S_18@0	-	-
Note 1: CA Configuration Test CC Combination settings are checked separately for each CA Configuration, which applicable aggregated channel bandwidths are specified in Table 5.4.2A.1-2. Note 2: If in the CA Configuration UE supports multiple CC Combinations with the same N_{RB_agg} , only the first of those is tested, according to the order on the Test Configuration Table list.								

The conducted power measurement results of downlink LTE CA Conducted Power are as below, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing

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Downlink LTE CA Conducted Power of Main Antenna

Head Scene(receiver on)+SAR sensor off
Body Scene(SAR sensor on Level D2&D3)

DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	QPSK	2510	20850	1	50	Band 7	20M	2649.8	3048	/	/	/	/	/	/	/	/	21.95	21.98	22.60
CA_4A-4A	Band 4	20M	QPSK	1745	20300	1	0	Band 4	20M	2120	2050	/	/	/	/	/	/	/	/	23.12	23.18	24.00
CA_7A-7A	Band 7	20M	QPSK	2510	20850	1	50	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	21.93	21.98	22.26
CA_12A-12A	Band 12	5M	QPSK	701.5	23035	1	24	Band 12	5M	743.5	5155	/	/	/	/	/	/	/	/	23.62	23.67	24.00
CA_2A-4A	Band 2	20M	QPSK	1900	19100	1	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	23.62	23.65	24.00
CA_2A-4A	Band 4	20M	QPSK	1745	20300	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	23.16	23.18	24.00
CA_2A-5A	Band 2	20M	QPSK	1900	19100	1	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	23.61	23.65	24.00
CA_2A-5A	Band 5	10M	QPSK	829	20450	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	23.28	23.31	24.00
CA_2A-7A	Band 2	20M	QPSK	1900	19100	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	23.60	23.65	24.00
CA_2A-7A	Band 7	20M	QPSK	2510	20850	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	21.97	21.98	22.26
CA_2A-12A	Band 2	20M	QPSK	1900	19100	1	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	23.59	23.65	24.00
CA_2A-12A	Band 12	5M	QPSK	701.5	23035	1	24	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	23.66	23.67	24.00
CA_4A-5A	Band 4	20M	QPSK	1745	20300	1	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	23.11	23.18	24.00
CA_4A-5A	Band 5	10M	QPSK	829	20450	1	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	23.26	23.31	24.00
CA_4A-7A	Band 4	20M	QPSK	1745	20300	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	23.17	23.18	24.00
CA_4A-7A	Band 7	20M	QPSK	2510	20850	1	50	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	21.92	21.98	22.60
CA_4A-12A	Band 4	20M	QPSK	1745	20300	1	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	23.07	23.18	24.00
CA_5A-7A	Band 5	10M	QPSK	829	20450	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	23.24	23.31	24.00
CA_5A-7A	Band 7	20M	QPSK	2510	20850	1	50	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	21.92	21.98	22.60
CA_7A-12A	Band 7	20M	QPSK	2510	20850	1	50	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	21.90	21.98	22.60
CA_7A-12A	Band 12	5M	QPSK	701.5	23035	1	24	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	23.55	23.67	24.00
CA_2A-12B	Band 2	20M	QPSK	1900	19100	1	0	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	23.55	23.65	24.00
CA_4A-12B	Band 4	20M	QPSK	1745	20300	1	0	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	23.04	23.18	24.00
CA_2A-4A-4A	Band 2	20M	QPSK	1900	19100	1	0	Band 4	20M	2120	2050	Band 4	20M	2145	2300	/	/	/	/	23.61	23.65	24.00
CA_2A-4A-4A	Band 4	20M	QPSK	1745	20300	1	0	Band 4	20M	2120	2050	Band 2	20M	1960	900	/	/	/	/	23.11	23.18	24.00
CA_4A-7A-7A	Band 4	20M	QPSK	1745	20300	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	23.07	23.18	24.00
CA_4A-7A-7A	Band 7	20M	QPSK	2510	20850	1	50	Band 7	20M	2680	3350	Band 4	20M	2132.5	2175	/	/	/	/	21.90	21.98	22.26
CA_2A-4A-5A	Band 2	20M	QPSK	1900	19100	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	23.55	23.65	24.00
CA_2A-4A-5A	Band 4	20M	QPSK	1745	20300	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	23.06	23.18	24.00
CA_2A-4A-5A	Band 5	10M	QPSK	829	20450	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	23.22	23.31	24.00
CA_2A-4A-7A	Band 2	20M	QPSK	1900	19100	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	23.64	23.65	24.00
CA_2A-4A-7A	Band 4	20M	QPSK	1745	20300	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	23.10	23.18	24.00
CA_2A-4A-7A	Band 7	20M	QPSK	2510	20850	1	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	21.97	21.98	22.60
CA_2A-4A-12A	Band 2	20M	QPSK	1900	19100	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	23.55	23.65	24.00
CA_2A-4A-12A	Band 4	20M	QPSK	1745	20300	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	/	/	/	/	23.06	23.18	24.00
CA_2A-7A-12A	Band 2	20M	QPSK	1900	19100	1	0	Band 7	20M	2655	3100	Band 12	5M	737.5	5095	/	/	/	/	23.54	23.65	24.00
CA_2A-7A-12A	Band 7	20M	QPSK	2510	20850	1	50	Band 2	20M	1960	900	Band 12	5M	737.5	5095	/	/	/	/	21.94	21.98	22.60
CA_2A-7A-12A	Band 12	5M	QPSK	701.5	23035	1	24	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	23.66	23.67	24.00
CA_4A-7A-12A	Band 4	20M	QPSK	1745	20300	1	0	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	/	23.08	23.18	24.00
CA_4A-7A-12A	Band 7	20M	QPSK	2510	20850	1	50	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	21.87	21.98	22.60
CA_2A-4A-7A-12A	Band 2	20M	QPSK	1900	19100	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	23.62	23.65	24.00
CA_2A-4A-7A-12A	Band 4	20M	QPSK	1745	20300	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	23.11	23.18	24.00
CA_2A-4A-7A-12A	Band 7	20M	QPSK	2510	20850	1	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	21.95	21.98	22.60
CA_2A-4A-7A-12A	Band 12	5M	QPSK	701.5	23035	1	24	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	23.61	23.67	24.00

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Body Scene(0mm SAR sensor on Level D0)																							
DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)			
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	QPSK	2560	21350	50	0	Band 7	20M	3152	2660.2	/	/	/	/	/	/	/	/	19.26	19.31	19.60
CA_4A-4A	Band 4	20M	16QAM	1720	20050	1	99	Band 4	20M	2145	2300	/	/	/	/	/	/	/	/	21.18	21.21	22.00
CA_7A-7A	Band 7	20M	QPSK	2560	21350	50	0	Band 7	20M	2645	3000	/	/	/	/	/	/	/	/	19.30	19.31	19.60
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	20.95	20.97	21.50
CA_2A-4A	Band 4	20M	16QAM	1720	20050	1	99	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	21.19	21.21	22.00
CA_2A-5A	Band 2	20M	16QAM	1860	18700	1	99	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	20.91	20.97	21.50
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	99	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	20.96	20.97	21.50
CA_2A-7A	Band 7	20M	QPSK	2560	21350	50	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	19.25	19.31	19.60
CA_2A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	20.93	20.97	21.50
CA_4A-5A	Band 4	20M	16QAM	1720	20050	1	99	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	21.20	21.21	22.00
CA_4A-7A	Band 4	20M	16QAM	1720	20050	1	99	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	21.16	21.21	22.00
CA_4A-7A	Band 7	20M	QPSK	2560	21350	50	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	19.23	19.31	19.60
CA_4A-12A	Band 4	20M	16QAM	1720	20050	1	99	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	21.15	21.21	22.00
CA_5A-7A	Band 7	20M	QPSK	2560	21350	50	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	19.20	19.31	19.60
CA_7A-12A	Band 7	20M	QPSK	2560	21350	50	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	19.29	19.31	19.60
CA_2A-12B	Band 2	20M	16QAM	1860	18700	1	99	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	20.88	20.97	21.50
CA_4A-12B	Band 4	20M	16QAM	1720	20050	1	99	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	21.11	21.21	22.00
CA_2A-4A-4A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2120	2050	Band 4	20M	2145	2300	/	/	/	/	20.88	20.97	21.50
CA_2A-4A-4A	Band 4	20M	16QAM	1720	20050	1	99	Band 4	20M	2145	2300	Band 2	20M	1960	900	/	/	/	/	21.13	21.21	22.00
CA_4A-7A-7A	Band 4	20M	16QAM	1720	20050	1	99	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	21.14	21.21	22.00
CA_4A-7A-7A	Band 7	20M	QPSK	2560	21350	50	0	Band 7	20M	2645	3000	Band 4	20M	2132.5	2175	/	/	/	/	19.20	19.31	19.60
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	20.89	20.97	21.50
CA_2A-4A-5A	Band 4	20M	16QAM	1720	20050	1	99	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	21.20	21.21	22.00
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	20.83	20.97	21.50
CA_2A-4A-7A	Band 4	20M	16QAM	1720	20050	1	99	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	21.18	21.21	22.00
CA_2A-4A-7A	Band 7	20M	QPSK	2560	21350	50	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	19.30	19.31	19.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	20.83	20.97	21.50
CA_2A-4A-12A	Band 4	20M	16QAM	1720	20050	1	99	Band 2	20M	1960	900	Band 12	10M	737.5	5095	/	/	/	/	21.09	21.21	22.00
CA_2A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 7	20M	2655	3100	Band 12	5M	737.5	5095	/	/	/	/	20.83	20.97	21.50
CA_2A-7A-12A	Band 7	20M	QPSK	2560	21350	50	0	Band 2	20M	1960	900	Band 12	5M	737.5	5095	/	/	/	/	19.22	19.31	19.60
CA_4A-7A-12A	Band 4	20M	16QAM	1720	20050	1	99	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	/	21.11	21.21	22.00
CA_4A-7A-12A	Band 7	20M	QPSK	2560	21350	50	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	19.20	19.31	19.60
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	20.89	20.97	21.50
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1720	20050	1	99	Band 2	20M	1960	900	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	21.19	21.21	22.00
CA_2A-4A-7A-12A	Band 7	20M	QPSK	2560	21350	50	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	19.22	19.31	19.60

Body Scene(SAR sensor on Level D1)																							
DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)			
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	16QAM	2510	20850	1	50	Band 7	20M	2649.8	3048	/	/	/	/	/	/	/	/	21.01	21.05	21.60
CA_4A-4A	Band 4	20M	16QAM	1720	20050	1	99	Band 4	20M	2145	2300	/	/	/	/	/	/	/	/	21.18	21.21	22.00
CA_7A-7A	Band 7	20M	16QAM	2510	20850	1	50	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	20.99	21.05	21.60
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	20.95	20.97	21.50
CA_2A-4A	Band 4	20M	16QAM	1720	20050	1	99	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	21.19	21.21	22.00
CA_2A-5A	Band 2	20M	16QAM	1860	18700	1	99	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	20.91	20.97	21.50
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	99	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	20.96	20.97	21.50
CA_2A-7A	Band 7	20M	16QAM	2510	20850	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	21.04	21.05	21.60
CA_2A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	20.93	20.97	21.50
CA_4A-5A	Band 4	20M	16QAM	1720	20050	1	99	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	21.20	21.21	22.00
CA_4A-7A	Band 4	20M	16QAM	1720	20050	1	99	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	21.16	21.21	22.00
CA_4A-7A	Band 7	20M	16QAM	2510	20850	1	50	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	21.00	21.05	21.60
CA_4A-12A	Band 4	20M	16QAM	1720	20050	1	99	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	21.15	21.21	22.00
CA_5A-7A	Band 7	20M	16QAM	2510	20850	1	50	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	20.98	21.05	21.60
CA_7A-12A	Band 7	20M	16QAM	2510	20850	1	50	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	21.03	21.05	21.60
CA_2A-12B	Band 2	20M	16QAM	1860	18700	1	99	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	20.88	20.97	21.50
CA_4A-12B	Band 4	20M	16QAM	1720	20050	1	99	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	21.11	21.21	22.00
CA_2A-4A-4A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2120	2050	Band 4	20M	2145	2300	/	/	/	/	20.85	20.97	21.50
CA_2A-4A-4A	Band 4	20M	16QAM	1720	20050	1	99	Band 4	20M	2145	2300	Band 2	20M	1960	900	/	/	/	/	21.09	21.21	22.00
CA_4A-7A-7A	Band 4	20M	16QAM	1720	20050	1	99	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	21.13	21.21	22.00
CA_4A-7A-7A	Band 7	20M	16QAM	2510	20850	1	50	Band 7	20M	2680	3350	Band 4	20M	2132.5	2175	/	/	/	/	20.96	21.05	21.60
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	20.85	20.97	21.50
CA_2A-4A-5A	Band 4	20M	16QAM	1720	20050	1	99	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	21.21	21.21	22.00
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	20.93	20.97	21.50
CA_2A-4A-7A	Band 4	20M	16QAM	1720	20050	1	99	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	21.14	21.21	22.00
CA_2A-4A-7A	Band 7	20M	16QAM	2510	20850	1	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	20.96	21.05	21.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	20.83	20.97	21.50
CA_2A-4A-12A	Band 4	20M	16QAM	1720	20050	1	99	Band 2	20M	1960	900	Band 12	10M	737.5	5095	/	/	/	/	21.07	21.21	22.00
CA_2A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 7	20M	2655	3100	Band 12	5M	737.5	5095	/	/	/	/	20.84	20.97	21.50
CA_2A-7A-12A	Band 7	20M	16QAM	2510	20850	1	50	Band 2	20M	1960	900	Band 12	5M	737.5	5095	/	/	/	/	21.00	21.05	21.60
CA_4A-7A-12A	Band 4	20M	16QAM	1720	20050	1	99	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	/	21.13	21.21	22.00
CA_4A-7A-12A	Band 7	20M	16QAM	2510	20850	1	50	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	20.89	21.05	21.60
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	20.91	20.97	21.50
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1720	20050	1	99	Band 2	20M	1960	900	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	21.15	21.21	22.00
CA_2A-4A-7A-12A	Band 7	20M	16QAM	2510	20850	1	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	20.95	21.05	21.60

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Wifi Hotspot on(10mm SAR sensor off)																							
DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)			
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	QPSK	2510	20850	50	50	Band 7	20M	2649.8	3048	/	/	/	/	/	/	/	/	17.92	17.98	18.60
CA_4A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 4	20M	2120	2050	/	/	/	/	/	/	/	/	17.92	17.95	18.50
CA_7A-7A	Band 7	20M	QPSK	2510	20850	50	50	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	17.96	17.98	18.60
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	18.81	18.85	19.00
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	17.93	17.95	18.50
CA_2A-5A	Band 2	20M	16QAM	1860	18700	1	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	18.82	18.85	19.00
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	18.84	18.85	19.00
CA_2A-7A	Band 7	20M	QPSK	2510	20850	50	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	17.97	17.98	18.60
CA_2A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	18.79	18.85	19.00
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	17.90	17.95	18.50
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	17.88	17.95	18.50
CA_4A-7A	Band 7	20M	QPSK	2510	20850	50	50	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	17.95	17.98	18.60
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	17.94	17.95	18.50
CA_5A-7A	Band 7	20M	QPSK	2510	20850	50	50	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	17.89	17.98	18.60
CA_7A-12A	Band 7	20M	QPSK	2510	20850	50	50	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	17.87	17.98	18.60
CA_2A-12B	Band 2	20M	16QAM	1860	18700	1	0	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	18.77	18.85	19.00
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	0	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	17.84	17.95	18.50
CA_2A-4A-4A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2145	2300	Band 4	20M	2120	2050	/	/	/	/	18.77	18.85	19.00
CA_2A-4A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 4	20M	2120	2050	Band 2	20M	1960	900	/	/	/	/	17.86	17.95	18.50
CA_4A-7A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	17.81	17.95	18.50
CA_4A-7A-7A	Band 7	20M	QPSK	2510	20850	50	50	Band 7	20M	2680	3350	Band 4	20M	2132.5	2175	/	/	/	/	17.90	17.98	18.60
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	18.84	18.85	19.00
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	17.94	17.95	18.50
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	18.81	18.85	19.00
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	17.92	17.95	18.50
CA_2A-4A-7A	Band 7	20M	QPSK	2510	20850	50	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	17.93	17.98	18.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	18.77	18.85	19.00
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	/	/	/	/	17.83	17.95	18.50
CA_2A-7A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 7	20M	2655	3100	Band 12	5M	737.5	5095	/	/	/	/	18.84	18.85	19.00
CA_2A-7A-12A	Band 7	20M	QPSK	2510	20850	50	50	Band 2	20M	1960	900	Band 12	5M	737.5	5095	/	/	/	/	17.85	17.98	18.60
CA_4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	/	17.86	17.95	18.50
CA_4A-7A-12A	Band 7	20M	QPSK	2510	20850	50	50	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	17.92	17.98	18.60
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	18.77	18.85	19.00
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	17.93	17.95	18.50
CA_2A-4A-7A-12A	Band 7	20M	QPSK	2510	20850	50	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	17.83	17.98	18.60

SAR sensor on level D0 +Wifi Hotspot on																							
DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)			
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	QPSK	2510	20850	50	0	Band 7	20M	2649.8	3048	/	/	/	/	/	/	/	/	15.48	15.52	15.60
CA_4A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 4	20M	2120	2050	/	/	/	/	/	/	/	/	16.19	16.21	16.50
CA_7A-7A	Band 7	20M	QPSK	2510	20850	50	0	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	15.49	15.52	15.60
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	15.92	15.94	16.50
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	16.20	16.21	16.50
CA_2A-5A	Band 2	20M	16QAM	1860	18700	1	99	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	15.90	15.94	16.50
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	99	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	15.93	15.94	16.50
CA_2A-7A	Band 7	20M	QPSK	2510	20850	50	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	15.49	15.52	15.60
CA_2A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	15.89	15.94	16.50
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	16.15	16.21	16.50
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	16.18	16.21	16.50
CA_4A-7A	Band 7	20M	QPSK	2510	20850	50	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	15.46	15.52	15.60
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	16.13	16.21	16.50
CA_5A-7A	Band 7	20M	QPSK	2510	20850	50	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	15.42	15.52	15.60
CA_7A-12A	Band 7	20M	QPSK	2510	20850	50	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	15.48	15.52	15.60
CA_2A-12B	Band 2	20M	16QAM	1860	18700	1	99	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	15.83	15.94	16.50
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	0	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	16.10	16.21	16.50
CA_2A-4A-4A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2145	2300	Band 4	20M	2120	2050	/	/	/	/	15.83	15.94	16.50
CA_2A-4A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 4	20M	2120	2050	Band 2	20M	1960	900	/	/	/	/	16.09	16.21	16.50
CA_4A-7A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	16.14	16.21	16.50
CA_4A-7A-7A	Band 7	20M	QPSK	2510	20850	50	0	Band 7	20M	2680	3350	Band 4	20M	2132.5	2175	/	/	/	/	15.44	15.52	15.60
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	15.93	15.94	16.50
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	16.17	16.21	16.50
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	15.92	15.94	16.50
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	16.16	16.21	16.50
CA_2A-4A-7A	Band 7	20M	QPSK	2510	20850	50	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	15.44	15.52	15.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	15.84	15.94	16.50
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	/	/	/	/	16.08	16.21	16.50
CA_2A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 7	20M	2655	3100	Band 12	5M	737.5	5095	/	/	/	/	15.83	15.94	16.50
CA_2A-7A-12A	Band 7	20M	QPSK	2510	20850	50	0	Band 2	20M	1960	900	Band 12	5M	737.5	5095	/	/	/	/	15.42	15.52	15.60
CA_4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	/	16.19	16.21	16.50
CA_4A-7A-12A	Band 7	20M	QPSK	2510	20850	50	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	15.43	15.52	15.60
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	15.88	15.94	16.50
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	16.11	16.21	16.50
CA_2A-4A-7A-12A	Band 7	20M	QPSK	2510	20850	50	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	15.45	15.52	15.60

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SAR sensor on level D1+Wifi Hotspot on																							
DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	QPSK	2510	20850	1	50	Band 7	20M	2649.8	3048	/	/	/	/	/	/	/	/	17.05	17.11	17.60
CA_4A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 4	20M	2120	2050	/	/	/	/	/	/	/	/	16.19	16.21	16.50
CA_7A-7A	Band 7	20M	QPSK	2510	20850	1	50	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	17.09	17.11	17.60
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	15.92	15.94	16.50
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	16.20	16.21	16.50
CA_2A-5A	Band 2	20M	16QAM	1860	18700	1	99	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	15.90	15.94	16.50
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	99	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	15.91	15.94	16.50
CA_2A-7A	Band 7	20M	QPSK	2510	20850	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	17.08	17.11	17.60
CA_2A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	15.88	15.94	16.50
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	16.15	16.21	16.50
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	16.18	16.21	16.50
CA_4A-7A	Band 7	20M	QPSK	2510	20850	1	50	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	17.02	17.11	17.60
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	16.13	16.21	16.50
CA_5A-7A	Band 7	20M	QPSK	2510	20850	1	50	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	17.03	17.11	17.60
CA_7A-12A	Band 7	20M	QPSK	2510	20850	1	50	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	17.01	17.11	17.60
CA_2A-12B	Band 2	20M	16QAM	1860	18700	1	99	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	15.80	15.94	16.50
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	0	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	16.10	16.21	16.50
CA_2A-4A-4A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2145	2300	Band 4	20M	2120	2050	/	/	/	/	15.86	15.94	16.50
CA_2A-4A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 4	20M	2120	2050	Band 2	20M	1960	900	/	/	/	/	16.13	16.21	16.50
CA_4A-7A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	16.14	16.21	16.50
CA_4A-7A-7A	Band 7	20M	QPSK	2510	20850	1	50	Band 7	20M	2680	3350	Band 4	20M	2132.5	2175	/	/	/	/	17.05	17.11	17.60
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	15.93	15.94	16.50
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	16.17	16.21	16.50
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	15.93	15.94	16.50
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	16.19	16.21	16.50
CA_2A-4A-7A	Band 7	20M	QPSK	2510	20850	1	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	17.04	17.11	17.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	15.85	15.94	16.50
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	/	/	/	/	16.09	16.21	16.50
CA_2A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 7	20M	2655	3100	Band 12	5M	737.5	5095	/	/	/	/	15.83	15.94	16.50
CA_2A-7A-12A	Band 7	20M	QPSK	2510	20850	1	50	Band 2	20M	1960	900	Band 12	5M	737.5	5095	/	/	/	/	17.10	17.11	17.60
CA_4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	/	16.17	16.21	16.50
CA_4A-7A-12A	Band 7	20M	QPSK	2510	20850	1	50	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	17.00	17.11	17.60
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	15.86	15.94	16.50
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	16.15	16.21	16.50
CA_2A-4A-7A-12A	Band 7	20M	QPSK	2510	20850	1	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	17.01	17.11	17.60

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Downlink LTE CA Conducted Power of Second Antenna

Receiver on(Left head)																							
DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	16QAM	2560	21350	1	50	Band 7	20M	3152	2660.2	/	/	/	/	/	/	/	/	14.89	14.97	15.10
CA_4A-4A	Band 4	20M	16QAM	1745	20300	1	50	Band 4	20M	2120	2050	/	/	/	/	/	/	/	/	20.85	20.86	21.00
CA_7A-7A	Band 7	20M	16QAM	2560	21350	1	50	Band 7	20M	2645	3000	/	/	/	/	/	/	/	/	14.85	14.97	15.10
CA_12A-12A	Band 12	5M	16QAM	713.5	23155	1	24	Band 12	5M	731.5	5035	/	/	/	/	/	/	/	/	22.26	22.29	22.40
CA_2A-4A	Band 2	20M	16QAM	1900	19100	1	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	19.36	19.38	19.50
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	20.83	20.86	21.00
CA_2A-5A	Band 2	20M	16QAM	1900	19100	1	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	19.35	19.38	19.50
CA_2A-5A	Band 5	10M	16QAM	844	20600	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	21.58	21.60	22.00
CA_2A-7A	Band 2	20M	16QAM	1900	19100	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	19.36	19.38	19.50
CA_2A-7A	Band 7	20M	16QAM	2560	21350	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	14.91	14.97	15.10
CA_2A-12A	Band 2	20M	16QAM	1900	19100	1	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	19.31	19.38	19.50
CA_2A-12A	Band 12	5M	16QAM	713.5	23155	1	24	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	22.22	22.29	22.40
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	50	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	20.79	20.86	21.00
CA_4A-5A	Band 5	10M	16QAM	844	20600	1	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	21.55	21.60	22.00
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	50	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	20.85	20.86	21.00
CA_4A-7A	Band 7	20M	16QAM	2560	21350	1	50	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	14.88	14.97	15.10
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	50	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	20.82	20.86	21.00
CA_5A-7A	Band 5	10M	16QAM	844	20600	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	21.50	21.60	22.00
CA_5A-7A	Band 7	20M	16QAM	2560	21350	1	50	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	14.87	14.97	15.10
CA_7A-12A	Band 7	20M	16QAM	2560	21350	1	50	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	14.92	14.97	15.10
CA_7A-12A	Band 12	5M	16QAM	713.5	23155	1	24	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	22.19	22.29	22.40
CA_2A-12B	Band 2	20M	16QAM	1900	19100	1	0	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	19.30	19.38	19.50
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	50	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	20.80	20.86	21.00
CA_2A-4A-4A	Band 2	20M	16QAM	1900	19100	1	0	Band 4	20M	2145	2300	Band 4	20M	2120	2050	/	/	/	/	19.36	19.38	19.50
CA_2A-4A-4A	Band 4	20M	16QAM	1745	20300	1	50	Band 4	20M	2120	2050	Band 2	20M	1960	900	/	/	/	/	20.87	20.86	21.00
CA_4A-7A-7A	Band 4	20M	16QAM	1745	20300	1	50	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	20.80	20.86	21.00
CA_4A-7A-7A	Band 7	20M	16QAM	2560	21350	1	50	Band 7	20M	2645	3000	Band 4	20M	2132.5	2175	/	/	/	/	14.86	14.97	15.10
CA_2A-4A-5A	Band 2	20M	16QAM	1900	19100	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	19.30	19.38	19.50
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	50	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	20.77	20.86	21.00
CA_2A-4A-5A	Band 5	10M	16QAM	844	20600	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	21.53	21.60	22.00
CA_2A-4A-7A	Band 2	20M	16QAM	1900	19100	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	19.27	19.38	19.50
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	50	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	20.77	20.86	21.00
CA_2A-4A-7A	Band 7	20M	16QAM	2560	21350	1	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	14.86	14.97	15.10
CA_2A-4A-12A	Band 2	20M	16QAM	1900	19100	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	13.27	19.38	19.50
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	50	Band 2	20M	1960	900	Band 12	10M	737.5	5095	/	/	/	/	20.77	20.86	21.00
CA_2A-7A-12A	Band 2	20M	16QAM	1900	19100	1	0	Band 7	20M	2655	3100	Band 12	5M	737.5	5095	/	/	/	/	19.31	19.38	19.50
CA_2A-7A-12A	Band 7	20M	16QAM	2560	21350	1	50	Band 2	20M	1960	900	Band 12	5M	737.5	5095	/	/	/	/	14.88	14.97	15.10
CA_2A-7A-12A	Band 12	5M	16QAM	713.5	23155	1	24	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	22.17	22.29	22.40
CA_4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	50	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	/	20.83	20.86	21.00
CA_4A-7A-12A	Band 7	20M	16QAM	2560	21350	1	50	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	14.89	14.97	15.10
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1900	19100	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	19.29	19.38	19.50
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	50	Band 2	20M	1960	900	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	20.76	20.86	21.00
CA_2A-4A-7A-12A	Band 7	20M	16QAM	2560	21350	1	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	14.88	14.97	15.10
CA_2A-4A-7A-12A	Band 12	5M	16QAM	713.5	23155	1	24	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	22.18	22.29	22.40

Receiver on(Right head)																							
DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	QPSK	2560	21350	50	50	Band 7	20M	3152	2660.2	/	/	/	/	/	/	/	/	11.33	11.36	11.60
CA_4A-4A	Band 4	20M	16QAM	1745	20300	1	50	Band 4	20M	2120	2050	/	/	/	/	/	/	/	/	18.55	18.58	19.00
CA_7A-7A	Band 7	20M	QPSK	2560	21350	50	50	Band 7	20M	2645	3000	/	/	/	/	/	/	/	/	11.35	11.36	11.60
CA_12A-12A	Band 12	5M	16QAM	701.5	23035	1	0	Band 12	5M	743.5	5155	/	/	/	/	/	/	/	/	21.72	21.79	22.00
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	17.96	17.99	18.00
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	18.56	18.58	19.00
CA_2A-5A	Band 2	20M	16QAM	1860	18700	1	99	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	17.91	17.99	18.00
CA_2A-5A	Band 5	10M	16QAM	829	20450	1	49	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	20.96	20.99	21.50
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	99	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	17.89	17.99	18.00
CA_2A-7A	Band 7	20M	QPSK	2560	21350	50	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	11.35	11.36	11.60
CA_2A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	17.86	17.99	18.00
CA_2A-12A	Band 12	5M	16QAM	701.5	23035	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	21.76	21.79	22.00
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	50	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	18.50	18.58	19.00
CA_4A-5A	Band 5	10M	16QAM	829	20450	1	49	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	20.91	20.99	21.50
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	50	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	18.55	18.58	19.00
CA_4A-7A	Band 7	20M	QPSK	2560	21350	50	50	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	11.29	11.36	11.60
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	50	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	18.49	18.58	19.00
CA_5A-7A	Band 5	10M	16QAM	829	20450	1	49	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	20.88	20.99	21.50
CA_5A-7A	Band 7	20M	QPSK	2560	21350	50	50	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	11.22	11.36	11.60
CA_7A-12A	Band 7	20M	QPSK	2560	21350	50	50	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	11.23	11.36	11.60
CA_7A-12A	Band 12	5M	16QAM	701.5	23035	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	21.70	21.79	22.00
CA_2A-12B	Band 2	20M	16QAM	1860	18700	1	99	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	17.89	17.99	18.00
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	50	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	18.47	18.58	19.00
CA_2A-4A-4A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2145	2300	Band 4	20M	2120	2050	/	/	/	/	17.88	17.99	18.00
CA_2A-4A-4A	Band 4	20M	16QAM	1745	20300	1	50	Band 4	20M	2120	2050	Band 2	20M	1960	900	/	/	/	/	18.51	18.58	19.00
CA_4A-7A-7A	Band 4	20M	16QAM	1745	20300	1	50	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	18.46	18.58	19.00
CA_4A-7A-7A	Band 7	20M	QPSK	2560	21350	50	50	Band 7	20M	2645	3000	Band 4	20M	2132.5	2175	/	/	/	/	11.27	11.36	11.60
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	17.91	17.99	18.00
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	50	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	18.50	18.58	19.00
CA_2A-4A-5A	Band 5	10M	16QAM	829	20450	1	49	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	20.96	20.99	21.50
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	17.85	17.99	18.00
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	50	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	17.47	18.58	19.00
CA_2A-4A-7A	Band 7	20M	QPSK	2560	21350	50	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	11.25	11.36	11.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	17.83	17.99	18.00
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	50	Band 2	20M	1960	900	Band 12	10M	737.5	5095	/	/	/	/	18.46	18.58	19.00
CA_2A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 7	20M	2655	3100	Band 12	5M	737.5	5095	/	/	/	/	17.89	17.99	18.00
CA_2A-7A-12A	Band 7	20M	QPSK	2560	21350	50	50	Band 2	20M	1960	900	Band 12	5M	737.5	5095	/	/	/	/	11.25	11.36	11.60
CA_2A-7A-12A	Band 12	5M	16QAM	701.5	23035	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	21.68	21.79	22.00
CA_4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	50	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	/	18.57	18.58	19.00
CA_4A-7A-12A	Band 7	20M	QPSK	2560	21350	50	50	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	11.26	11.36	11.60
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	17.81	17.99	18.00
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	50	Band 2	20M	1960	900	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	17.45	18.58	19.00
CA_2A-4A-7A-12A	Band 7	20M	QPSK	2560	21350	50	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	11.28	11.36	11.60
CA_2A-4A-7A-12A	Band 12	5M	16QAM	701.5	23035	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	21.77	21.79	22.00

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Receiver off (Body Scene)																							
DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	16QAM	2560	21350	50	25	Band 7	20M	3152	2660.2	/	/	/	/	/	/	/	/	18.86	18.90	19.10
CA_4A-4A	Band 4	20M	QPSK	1720	20050	1	99	Band 4	20M	2145	2300	/	/	/	/	/	/	/	/	22.61	22.63	23.50
CA_7A-7A	Band 7	20M	16QAM	2560	21350	50	25	Band 7	20M	2645	3000	/	/	/	/	/	/	/	/	18.83	18.90	19.10
CA_12A-12A	Band 12	5M	QPSK	713.5	23155	1	24	Band 12	5M	731.5	5035	/	/	/	/	/	/	/	/	23.44	23.48	24.00
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	22.89	22.93	23.00
CA_2A-4A	Band 4	20M	QPSK	1720	20050	1	99	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	22.58	22.63	23.50
CA_2A-5A	Band 2	20M	16QAM	1860	18700	1	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	22.91	22.93	23.00
CA_2A-5A	Band 5	10M	QPSK	829	20450	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	23.11	23.14	24.00
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	22.89	22.93	23.00
CA_2A-7A	Band 7	20M	16QAM	2560	21350	50	25	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	18.87	18.90	19.10
CA_2A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	22.86	22.93	23.00
CA_2A-12A	Band 12	5M	QPSK	713.5	23155	1	24	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	23.41	23.48	24.00
CA_4A-5A	Band 4	20M	QPSK	1720	20050	1	99	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	22.58	22.63	23.50
CA_4A-5A	Band 5	10M	QPSK	829	20450	1	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	23.08	23.14	24.00
CA_4A-7A	Band 4	20M	QPSK	1720	20050	1	99	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	22.55	22.63	23.50
CA_4A-7A	Band 7	20M	16QAM	2560	21350	50	25	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	18.84	18.90	19.10
CA_4A-12A	Band 4	20M	QPSK	1720	20050	1	99	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	22.55	22.63	23.50
CA_5A-7A	Band 5	10M	QPSK	829	20450	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	23.01	23.14	24.00
CA_5A-7A	Band 7	20M	16QAM	2560	21350	50	25	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	18.81	18.90	19.10
CA_7A-12A	Band 7	20M	16QAM	2560	21350	50	25	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	18.78	18.90	19.10
CA_7A-12A	Band 12	5M	QPSK	713.5	23155	1	24	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	23.40	23.48	24.00
CA_2A-12B	Band 2	20M	16QAM	1860	18700	1	0	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	22.84	22.93	23.00
CA_4A-12B	Band 4	20M	QPSK	1720	20050	1	99	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	22.52	22.63	23.50
CA_2A-4A-4A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2145	2300	Band 4	20M	2120	2050	/	/	/	/	22.88	22.93	23.00
CA_2A-4A-4A	Band 4	20M	QPSK	1720	20050	1	99	Band 4	20M	2145	2300	Band 2	20M	1960	900	/	/	/	/	22.52	22.63	23.50
CA_4A-7A-7A	Band 4	20M	QPSK	1720	20050	1	99	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	22.55	22.63	23.50
CA_4A-7A-7A	Band 7	20M	16QAM	2560	21350	50	25	Band 7	20M	2645	3000	Band 4	20M	2132.5	2175	/	/	/	/	18.81	18.90	19.10
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	22.89	22.93	23.00
CA_2A-4A-5A	Band 4	20M	QPSK	1720	20050	1	99	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	22.62	22.63	23.50
CA_2A-4A-5A	Band 5	10M	QPSK	829	20450	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	23.13	23.14	24.00
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	22.91	22.93	23.00
CA_2A-4A-7A	Band 4	20M	QPSK	1720	20050	1	99	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	22.51	22.63	23.50
CA_2A-4A-7A	Band 7	20M	16QAM	2560	21350	50	25	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	18.80	18.90	19.10
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	22.81	22.93	23.00
CA_2A-4A-12A	Band 4	20M	QPSK	1720	20050	1	99	Band 2	20M	1960	900	Band 12	10M	737.5	5095	/	/	/	/	22.56	22.63	23.50
CA_2A-7A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 7	20M	2655	3100	Band 12	5M	737.5	5095	/	/	/	/	22.85	22.93	23.00
CA_2A-7A-12A	Band 7	20M	16QAM	2560	21350	50	25	Band 2	20M	1960	900	Band 12	5M	737.5	5095	/	/	/	/	18.79	18.90	19.10
CA_2A-7A-12A	Band 12	5M	QPSK	713.5	23155	1	24	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	23.40	23.48	24.00
CA_4A-7A-12A	Band 4	20M	QPSK	1720	20050	1	99	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	/	22.50	22.63	23.50
CA_4A-7A-12A	Band 7	20M	16QAM	2560	21350	50	25	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	18.88	18.90	19.10
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	22.88	22.93	23.00
CA_2A-4A-7A-12A	Band 4	20M	QPSK	1720	20050	1	99	Band 2	20M	1960	900	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	22.51	22.63	23.50
CA_2A-4A-7A-12A	Band 7	20M	16QAM	2560	21350	50	25	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	18.89	18.90	19.10
CA_2A-4A-7A-12A	Band 12	5M	QPSK	713.5	23155	1	24	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	23.39	23.48	24.00

Receiver on(Left head) +WiFi on/Hotspot on																							
DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	16QAM	2510	20850	50	50	Band 7	20M	2649.8	3048	/	/	/	/	/	/	/	/	13.51	13.56	13.60
CA_4A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 4	20M	2120	2050	/	/	/	/	/	/	/	/	17.36	17.39	18.00
CA_7A-7A	Band 7	20M	16QAM	2510	20850	50	50	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	13.54	13.56	13.60
CA_12A-12A	Band 12	5M	16QAM	713.5	23155	1	13	Band 12	5M	731.5	5035	/	/	/	/	/	/	/	/	18.75	18.81	19.40
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	16.05	16.08	16.50
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	17.33	17.39	18.00
CA_2A-5A	Band 2	20M	16QAM	1860	18700	1	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	16.01	16.08	16.50
CA_2A-5A	Band 5	10M	16QAM	829	20450	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	17.80	17.82	19.00
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	16.02	16.08	16.50
CA_2A-7A	Band 7	20M	16QAM	2510	20850	50	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	13.50	13.56	13.60
CA_2A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	15.99	16.08	16.50
CA_2A-12A	Band 12	5M	16QAM	713.5	23155	1	13	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	18.73	18.81	19.40
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	17.38	17.39	18.00
CA_4A-5A	Band 5	10M	16QAM	829	20450	1	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	17.76	17.82	19.00
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	17.32	17.39	18.00
CA_4A-7A	Band 7	20M	16QAM	2510	20850	50	50	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	13.48	13.56	13.60
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	17.30	17.39	18.00
CA_5A-7A	Band 5	10M	16QAM	829	20450	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	17.71	17.82	19.00
CA_5A-7A	Band 7	20M	16QAM	2510	20850	50	50	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	13.50	13.56	13.60
CA_7A-12A	Band 7	20M	16QAM	2510	20850	50	50	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	13.55	13.56	13.60
CA_7A-12A	Band 12	5M	16QAM	713.5	23155	1	13	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	18.70	18.81	19.40
CA_2A-12B	Band 2	20M	16QAM	1860	18700	1	0	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	15.93	16.08	16.50
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	0	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	17.26	17.39	18.00
CA_2A-4A-4A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2145	2300	Band 4	20M	2120	2050	/	/	/	/	16.00	16.08	16.50
CA_2A-4A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 4	20M	2120	2050	Band 2	20M	1960	900	/	/	/	/	17.31	17.39	18.00
CA_4A-7A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	17.26	17.39	18.00
CA_4A-7A-7A	Band 7	20M	16QAM	2510	20850	50	50	Band 7	20M	2680	3350	Band 4	20M	2132.5	2175	/	/	/	/	13.43	13.56	13.60
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	16.07	16.08	16.50
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	17.38	17.39	18.00
CA_2A-4A-5A	Band 5	10M	16QAM	829	20450	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	17.81	17.82	19.00
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	16.03	16.08	16.50
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	17.33	17.39	18.00
CA_2A-4A-7A	Band 7	20M	16QAM	2510	20850	50	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	13.47	13.56	13.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	16.08	16.08	16.50
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	/	/	/	/	17.25	17.39	18.00
CA_2A-7A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 7	20M	2655	3100	Band 12	5M	737.5	5095	/	/	/	/	16.00	16.08	16.50
CA_2A-7A-12A	Band 7	20M	16QAM	2510	20850	50	50	Band 2	20M	1960	900	Band 12	5M	737.5	5095	/	/	/	/	13.50	13.56	13.60
CA_2A-7A-12A	Band 12	5M	16QAM	713.5	23155	1	13	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	18.80	18.81	19.40
CA_4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	/	17.27	17.39	18.00
CA_4A-7A-12A	Band 7	20M	16QAM	2510	20850	50	50	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	13.43	13.56	13.60
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	16.00	16.08	16.50
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	17.36	17.39	18.00
CA_2A-4A-7A-12A	Band 7	20M	16QAM	2510	20850	50	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	13.41	13.56	13.60
CA_2A-4A-7A-12A	Band 12	5M	16QAM	713.5	23155	1	13	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	18.72	18.81	19.40

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Receiver on(Right head) +WiFi on/Hotspot on																							
DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	16QAM	2510	20850	1	99	Band 7	20M	2649.8	3048	/	/	/	/	/	/	/	/	10.02	10.08	10.10
CA_4A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 4	20M	2120	2050	/	/	/	/	/	/	/	/	15.42	15.46	16.00
CA_7A-7A	Band 7	20M	16QAM	2510	20850	1	99	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	10.05	10.08	10.10
CA_12A-12A	Band 12	5M	16QAM	713.5	23155	1	24	Band 12	5M	731.5	5035	/	/	/	/	/	/	/	/	18.26	18.33	19.00
CA_2A-4A	Band 2	20M	16QAM	1900	19100	1	99	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	14.50	14.52	15.00
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	15.45	15.46	16.00
CA_2A-5A	Band 2	20M	16QAM	1900	19100	1	99	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	14.48	14.52	15.00
CA_2A-5A	Band 5	10M	16QAM	829	20450	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	17.35	17.38	18.50
CA_2A-7A	Band 2	20M	16QAM	1900	19100	1	99	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	14.44	14.52	15.00
CA_2A-7A	Band 7	20M	16QAM	2510	20850	1	99	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	10.00	10.08	10.10
CA_2A-12A	Band 2	20M	16QAM	1900	19100	1	99	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	14.40	14.52	15.00
CA_2A-12A	Band 12	5M	16QAM	713.5	23155	1	24	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	18.29	18.33	19.00
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	15.40	15.46	16.00
CA_4A-5A	Band 5	10M	16QAM	829	20450	1	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	17.30	17.38	18.50
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	15.41	15.46	16.00
CA_4A-7A	Band 7	20M	16QAM	2510	20850	1	99	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	9.93	10.08	10.10
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	15.45	15.46	16.00
CA_5A-7A	Band 5	10M	16QAM	829	20450	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	17.26	17.38	18.50
CA_5A-7A	Band 7	20M	16QAM	2510	20850	1	99	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	9.95	10.08	10.10
CA_7A-12A	Band 7	20M	16QAM	2510	20850	1	99	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	9.99	10.08	10.10
CA_7A-12A	Band 12	5M	16QAM	713.5	23155	1	24	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	18.24	18.33	19.00
CA_2A-12B	Band 2	20M	16QAM	1900	19100	1	99	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	14.43	14.52	15.00
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	0	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	15.37	15.46	16.00
CA_2A-4A-4A	Band 2	20M	16QAM	1900	19100	1	99	Band 4	20M	2145	2300	Band 4	20M	2120	2050	/	/	/	/	14.44	14.52	15.00
CA_2A-4A-4A	Band 4	20M	16QAM	1745	20300	1	0	Band 4	20M	2120	2050	Band 2	20M	1960	900	/	/	/	/	15.39	15.46	16.00
CA_4A-7A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	15.37	15.46	16.00
CA_4A-7A-7A	Band 7	20M	16QAM	2510	20850	1	99	Band 7	20M	2680	3350	Band 4	20M	2132.5	2175	/	/	/	/	9.92	10.08	10.10
CA_2A-4A-5A	Band 2	20M	16QAM	1900	19100	1	99	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	14.51	14.52	15.00
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	15.45	15.46	16.00
CA_2A-4A-5A	Band 5	10M	16QAM	829	20450	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	17.37	17.38	18.50
CA_2A-4A-7A	Band 2	20M	16QAM	1900	19100	1	99	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	14.44	14.52	15.00
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	15.33	15.46	16.00
CA_2A-4A-7A	Band 7	20M	16QAM	2510	20850	1	99	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	10.07	10.08	10.10
CA_2A-4A-12A	Band 2	20M	16QAM	1900	19100	1	99	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	14.44	14.52	15.00
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	/	/	/	/	15.44	15.46	16.00
CA_2A-7A-12A	Band 2	20M	16QAM	1900	19100	1	99	Band 7	20M	2655	3100	Band 12	5M	737.5	5095	/	/	/	/	14.50	14.52	15.00
CA_2A-7A-12A	Band 7	20M	16QAM	2510	20850	1	99	Band 2	20M	1960	900	Band 12	5M	737.5	5095	/	/	/	/	10.06	10.08	10.10
CA_2A-7A-12A	Band 12	5M	16QAM	713.5	23155	1	24	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	18.31	18.33	19.00
CA_4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	/	15.43	15.46	16.00
CA_4A-7A-12A	Band 7	20M	16QAM	2510	20850	1	99	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	9.90	10.08	10.10
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1900	19100	1	99	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	14.40	14.52	15.00
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	15.28	15.46	16.00
CA_2A-4A-7A-12A	Band 7	20M	16QAM	2510	20850	1	99	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	10.02	10.08	10.10
CA_2A-4A-7A-12A	Band 12	5M	16QAM	713.5	23155	1	24	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	18.30	18.33	19.00

Receiver off (Body Scene)+WiFi on/Hotspot on																							
DL LTE CA Class	PCC							SCC1				SCC2				SCC3				Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL LTE CA Tx.Power	LTE Rel 8 Tx.Power	Tune-up
CA_7C	Band 7	20M	16QAM	2510	20850	50	50	Band 7	20M	2649.8	3048	/	/	/	/	/	/	/	/	17.11	17.18	17.60
CA_4A-4A	Band 4	20M	16QAM	1720	20050	1	0	Band 4	20M	2145	2300	/	/	/	/	/	/	/	/	19.83	19.89	20.50
CA_7A-7A	Band 7	20M	16QAM	2510	20850	50	50	Band 7	20M	2680	3350	/	/	/	/	/	/	/	/	17.16	17.18	17.60
CA_12A-12A	Band 12	5M	16QAM	701.5	23035	1	24	Band 12	5M	743.5	5155	/	/	/	/	/	/	/	/	20.58	20.68	21.00
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	19.75	19.77	20.00
CA_2A-4A	Band 4	20M	16QAM	1720	20050	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	19.85	19.89	20.50
CA_2A-5A	Band 2	20M	16QAM	1860	18700	1	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	19.72	19.77	20.00
CA_2A-5A	Band 5	10M	16QAM	844	20600	1	0	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	20.41	20.43	21.00
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	19.68	19.77	20.00
CA_2A-7A	Band 7	20M	16QAM	2510	20850	50	50	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	17.17	17.18	17.60
CA_2A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	19.68	19.77	20.00
CA_2A-12A	Band 12	5M	16QAM	701.5	23035	1	24	Band 2	20M	1960	900	/	/	/	/	/	/	/	/	20.65	20.68	21.00
CA_4A-5A	Band 4	20M	16QAM	1720	20050	1	0	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	19.82	19.89	20.50
CA_4A-5A	Band 5	10M	16QAM	844	20600	1	0	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	20.37	20.43	21.00
CA_4A-7A	Band 4	20M	16QAM	1720	20050	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	19.88	19.89	20.50
CA_4A-7A	Band 7	20M	16QAM	2510	20850	50	50	Band 4	20M	2132.5	2175	/	/	/	/	/	/	/	/	17.09	17.18	17.60
CA_4A-12A	Band 4	20M	16QAM	1720	20050	1	0	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	19.86	19.89	20.50
CA_5A-7A	Band 5	10M	16QAM	844	20600	1	0	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	20.36	20.43	21.00
CA_5A-7A	Band 7	20M	16QAM	2510	20850	50	50	Band 5	10M	881.5	2525	/	/	/	/	/	/	/	/	17.07	17.18	17.60
CA_7A-12A	Band 7	20M	16QAM	2510	20850	50	50	Band 12	5M	737.5	5095	/	/	/	/	/	/	/	/	17.11	17.18	17.60
CA_7A-12A	Band 12	5M	16QAM	701.5	23035	1	24	Band 7	20M	2655	3100	/	/	/	/	/	/	/	/	20.59	20.68	21.00
CA_2A-12B	Band 2	20M	16QAM	1860	18700	1	0	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	19.66	19.77	20.00
CA_4A-12B	Band 4	20M	16QAM	1720	20050	1	0	Band 12	10M	741	5130	Band 12	5M	733.8	5058	/	/	/	/	19.79	19.89	20.50
CA_2A-4A-4A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2145	2300	Band 4	20M	2120	2050	/	/	/	/	19.71	19.77	20.00
CA_2A-4A-4A	Band 4	20M	16QAM	1720	20050	1	0	Band 4	20M	2145	2300	Band 2	20M	1960	900	/	/	/	/	19.86	19.89	20.50
CA_4A-7A-7A	Band 4	20M	16QAM	1720	20050	1	0	Band 7	20M	2630	2850	Band 7	20M	2680	3350	/	/	/	/	19.77	19.89	20.50
CA_4A-7A-7A	Band 7	20M	16QAM	2510	20850	50	50	Band 7	20M	2680	3350	Band 4	20M	2132.5	2175	/	/	/	/	17.06	17.18	17.60
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	/	/	/	/	19.70	19.77	20.00
CA_2A-4A-5A	Band 4	20M	16QAM	1720	20050	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	/	/	/	/	19.88	19.89	20.50
CA_2A-4A-5A	Band 5	10M	16QAM	844	20600	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	20.42	20.43	21.00
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	/	/	/	/	19.66	19.77	20.00
CA_2A-4A-7A	Band 4	20M	16QAM	1720	20050	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	19.77	19.89	20.50
CA_2A-4A-7A	Band 7	20M	16QAM	2510	20850	50	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	/	/	/	/	17.03	17.18	17.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	19.73	19.77	20.00
CA_2A-4A-12A	Band 4	20M	16QAM	1720	20050	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	/	/	/	/	19.76	19.89	20.50
CA_2A-7A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 7	20M	2655	3100	Band 12	5M	737.5	5095	/	/	/	/	19.65	19.77	20.00
CA_2A-7A-12A	Band 7	20M	16QAM	2510	20850	50	50	Band 2	20M	1960	900	Band 12	5M	737.5	5095	/	/	/	/	17.08	17.18	17.60
CA_2A-7A-12A	Band 12	5M	16QAM	701.5	23035	1	24	Band 2	20M	1960	900	Band 7	20M	2655	3100	/	/	/	/	20.67	20.68	21.00
CA_4A-7A-12A	Band 4	20M	16QAM	1720	20050	1	0	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	/	/	/	/	19.80	19.89	20.50
CA_4A-7A-12A	Band 7	20M	16QAM	2510	20850	50	50	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	/	/	/	/	17.07	17.18	17.60
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	19.61	19.77	20.00
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1720	20050	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	Band 12	10M	737.5	5095	19.72	19.89	20.50
CA_2A-4A-7A-12A	Band 7	20M	16QAM	2510	20850	50	50	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	17.08	17.18	17.60
CA_2A-4A-7A-12A	Band 12	5M	16QAM	701.5	23035	1	24	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	20.55	20.68	21.00

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4X4 MIMO Conducted Power of Main Antenna

Head Scene(receiver on)+SAR sensor off, Body Scene(SAR sensor on Level D2&D3)									
LTE Band	BW (MHz)	Modulation	Freq. (MHz)	Channel	UL# RB	UL RB Offset	With DL 4*4 MIMO Tx.Power (dBm)	Without DL 4*4 MIMO Tx.Power (dBm)	Tune-up
Band 4	20M	QPSK	1745	20300	1	0	23.18	23.18	24.00
Band 7	20M	QPSK	2510	20850	1	50	21.79	21.98	22.60
Body Scene(0mm SAR sensor on Level D0)									
LTE Band	BW (MHz)	Modulation	Freq. (MHz)	Channel	UL# RB	UL RB Offset	With DL 4*4 MIMO Tx.Power (dBm)	Without DL 4*4 MIMO Tx.Power (dBm)	Tune-up
Band 4	20M	16QAM	1720	20050	1	99	21.02	21.21	22.00
Band 7	20M	QPSK	2560	21350	50	0	19.09	19.31	19.60
Body Scene(SAR sensor on Level D1)									
LTE Band	BW (MHz)	Modulation	Freq. (MHz)	Channel	UL# RB	UL RB Offset	With DL 4*4 MIMO Tx.Power (dBm)	Without DL 4*4 MIMO Tx.Power (dBm)	Tune-up
Band 4	20M	16QAM	1720	20050	1	99	21.03	21.21	22.00
Band 7	20M	16QAM	2510	20850	1	50	20.89	21.05	21.60
Wifi Hotspot on(10mm SAR sensor off)									
LTE Band	BW (MHz)	Modulation	Freq. (MHz)	Channel	UL# RB	UL RB Offset	With DL 4*4 MIMO Tx.Power (dBm)	Without DL 4*4 MIMO Tx.Power (dBm)	Tune-up
Band 4	20M	16QAM	1745	20300	1	0	17.79	17.95	18.50
Band 7	20M	QPSK	2510	20850	50	50	17.81	17.98	18.60
SAR sensor on level D0 +Wifi Hotspot on									
LTE Band	BW (MHz)	Modulation	Freq. (MHz)	Channel	UL# RB	UL RB Offset	With DL 4*4 MIMO Tx.Power (dBm)	Without DL 4*4 MIMO Tx.Power (dBm)	Tune-up
Band 4	20M	16QAM	1745	20300	1	0	16.02	16.21	16.50
Band 7	20M	QPSK	2510	20850	50	0	15.34	15.52	15.60
SAR sensor on level D1+Wifi Hotspot on									
LTE Band	BW (MHz)	Modulation	Freq. (MHz)	Channel	UL# RB	UL RB Offset	With DL 4*4 MIMO Tx.Power (dBm)	Without DL 4*4 MIMO Tx.Power (dBm)	Tune-up
Band 4	20M	16QAM	1745	20300	1	0	16.01	16.21	16.50
Band 7	20M	QPSK	2510	20850	1	50	16.92	17.11	17.60

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Head Scene(receiver on) SAR sensor off
Body Scene(SAR sensor on Level D2&D3)

DL LTE CA Class	PCC								SCC1						SCC2						SCC3						Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq (MHz)	UL Channel	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Channel	With DL 4*4 MIMO Tx Power(dBm)	Without DL 4*4 MIMO Tx Power(dBm)	Tune-up
CA_7C	Band 7	20M	QPSK	2510	20850	1	50	4*4 MIMO	Band 7	20M	2649.8	3048	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	21.72	21.98	22.60
CA_2A-4A	Band 2	20M	QPSK	1900	19100	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	23.44	23.65	24.00
CA_2A-4A	Band 4	20M	QPSK	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	23.02	23.18	24.00
CA_2A-7A	Band 2	20M	QPSK	1900	19100	1	0	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	22.55	23.65	24.00
CA_2A-7A	Band 7	20M	QPSK	2510	20850	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	21.86	21.98	22.26
CA_4A-5A	Band 4	20M	QPSK	1745	20300	1	0	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	23.00	23.18	24.00
CA_4A-5A	Band 5	10M	QPSK	829	20450	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	23.05	23.31	24.00
CA_4A-7A	Band 4	20M	QPSK	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	23.00	23.18	24.00
CA_4A-7A	Band 7	20M	QPSK	2510	20850	1	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	21.82	21.98	22.60
CA_4A-7C	Band 4	20M	QPSK	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	23.00	23.18	24.00
CA_4A-7C	Band 7	20M	QPSK	2510	20850	1	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	21.82	21.98	22.60
CA_4A-12A	Band 4	20M	QPSK	1745	20300	1	0	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	23.01	23.18	24.00
CA_4A-12B	Band 4	20M	QPSK	1745	20300	1	0	4*4 MIMO	Band 12	10M	741	5130	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	23.00	23.18	24.00
CA_5A-7A	Band 5	10M	QPSK	829	20450	1	0	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	23.21	23.31	24.00
CA_5A-7A	Band 7	20M	QPSK	2510	20850	1	50	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	21.89	21.98	22.60
CA_7A-12A	Band 7	20M	QPSK	2510	20850	1	50	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	21.90	21.98	22.60
CA_7A-12A	Band 12	5M	QPSK	701.5	23035	1	24	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	23.55	23.67	24.00
CA_2A-4A-5A	Band 2	20M	QPSK	1900	19100	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	23.51	23.65	24.00
CA_2A-4A-5A	Band 4	20M	QPSK	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	23.02	23.18	24.00
CA_2A-4A-5A	Band 5	10M	QPSK	829	20450	1	0	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	23.11	23.31	24.00
CA_2A-4A-7A	Band 2	20M	QPSK	1900	19100	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	23.55	23.65	24.00
CA_2A-4A-7A	Band 4	20M	QPSK	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	23.03	23.18	24.00
CA_2A-4A-7A	Band 7	20M	QPSK	2510	20850	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	21.83	21.98	22.60
CA_2A-4A-12A	Band 2	20M	QPSK	1900	19100	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	23.47	23.65	24.00
CA_2A-4A-12A	Band 4	20M	QPSK	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	22.98	23.18	24.00
CA_2A-4A-7A-12A	Band 2	20M	QPSK	1900	19100	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	23.53	23.65	24.00
CA_2A-4A-7A-12A	Band 4	20M	QPSK	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	23.00	23.18	24.00
CA_2A-4A-7A-12A	Band 7	20M	QPSK	2510	20850	1	50	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	21.81	21.98	22.60

Body Scene(0mm SAR sensor on Level D0)

DL LTE CA Class	PCC								SCC1						SCC2						SCC3						Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq (MHz)	UL Channel	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Channel	With DL 4*4 MIMO Tx Power(dBm)	Without DL 4*4 MIMO Tx Power(dBm)	Tune-up
CA_7C	Band 7	20M	QPSK	2560	21350	50	0	4*4 MIMO	Band 7	20M	3152	2660.2	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	19.08	19.31	19.60
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.81	20.97	21.50
CA_2A-4A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	21.03	21.21	22.00
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.81	20.97	21.50
CA_2A-7A	Band 7	20M	QPSK	2560	21350	50	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	19.20	19.31	19.60
CA_4A-5A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	21.00	21.21	22.00
CA_4A-7A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	21.01	21.21	22.00
CA_4A-7A	Band 7	20M	QPSK	2560	21350	50	0	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	19.18	19.31	19.60
CA_4A-7C	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	21.01	21.21	22.00
CA_4A-7C	Band 7	20M	QPSK	2560	21350	50	0	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	19.18	19.31	19.60
CA_4A-12A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	20.96	21.21	22.00
CA_4A-12B	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 12	10M	741	5130	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	20.99	21.21	22.00
CA_5A-7A	Band 7	20M	QPSK	2560	21350	50	0	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	19.11	19.31	19.60
CA_7A-12A	Band 7	20M	QPSK	2560	21350	50	0	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	19.08	19.31	19.60
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	20.80	20.97	21.50
CA_2A-4A-5A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	21.00	21.21	22.00
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	20.82	20.97	21.50
CA_2A-4A-7A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	21.03	21.21	22.00
CA_2A-4A-7A	Band 7	20M	QPSK	2560	21350	50	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	19.12	19.31	19.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	20.78	20.97	21.50
CA_2A-4A-12A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	21.03	21.21	22.00
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	20.81	20.97	21.50
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	21.02	21.21	22.00
CA_2A-4A-7A-12A	Band 7	20M	QPSK	2560	21350	50	0	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	19.09	19.31	19.60

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Body Scene(SAR sensor on Level D1)

DL LTE CA Class	PCC								SCC1					SCC2					SCC3					Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq (MHz)	UL Channel	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Channel	With DL 4*4 MIMO Tx Power(dBm)	Without DL 4*4 MIMO Tx Power(dBm)	Time-up
CA_7C	Band 7	20M	16QAM	2510	20850	1	50	4*4 MIMO	Band 7	20M	2649.8	3048	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.86	21.06	21.60
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.81	20.97	21.50
CA_2A-4A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	21.03	21.21	22.00
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.80	20.97	21.50
CA_2A-7A	Band 7	20M	16QAM	2510	20850	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	20.90	21.05	21.60
CA_4A-5A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	21.01	21.21	22.00
CA_4A-7A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	21.02	21.21	22.00
CA_4A-7A	Band 7	20M	16QAM	2510	20850	1	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.93	21.05	21.60
CA_4A-7C	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	21.02	21.21	22.00
CA_4A-7C	Band 7	20M	16QAM	2510	20850	1	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.93	21.05	21.60
CA_4A-12A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	20.97	21.21	22.00
CA_4A-12B	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 12	10M	741	5130	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	21.00	21.21	22.00
CA_5A-7A	Band 7	20M	16QAM	2510	20850	1	50	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	20.81	21.05	21.60
CA_7A-12A	Band 7	20M	16QAM	2510	20850	1	50	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	20.83	21.05	21.60
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	20.79	20.97	21.50
CA_2A-4A-5A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	20.99	21.21	22.00
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	20.73	20.97	21.50
CA_2A-4A-7A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	21.02	21.21	22.00
CA_2A-4A-7A	Band 7	20M	16QAM	2510	20850	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	20.88	21.05	21.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	20.73	20.97	21.50
CA_2A-4A-12A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	20.96	21.21	22.00
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	20.69	20.97	21.50
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	21.01	21.21	22.00
CA_2A-4A-7A-12A	Band 7	20M	16QAM	2510	20850	1	50	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	20.85	21.05	21.60

Will Hotspot on(10mm SAR sensor off)

DL LTE CA Class	PCC								SCC1					SCC2					SCC3					Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq (MHz)	UL Channel	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Channel	With DL 4*4 MIMO Tx Power(dBm)	Without DL 4*4 MIMO Tx Power(dBm)	Time-up
CA_7C	Band 7	20M	QPSK	2510	20850	50	50	4*4 MIMO	Band 7	20M	2649.8	3048	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.70	17.98	18.60
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	18.69	18.85	19.00
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.78	17.95	18.50
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	18.73	18.85	19.00
CA_2A-7A	Band 7	20M	QPSK	2510	20850	50	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.82	17.98	18.60
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.80	17.95	18.50
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.81	17.95	18.50
CA_4A-7A	Band 7	20M	QPSK	2510	20950	50	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.93	17.99	18.60
CA_4A-7C	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.81	17.95	18.50
CA_4A-7C	Band 7	20M	QPSK	2510	20850	50	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.83	17.98	18.60
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.81	17.95	18.50
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 12	10M	741	5130	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	17.85	17.95	18.50
CA_5A-7A	Band 7	20M	QPSK	2510	20850	50	50	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.82	17.98	18.60
CA_7A-12A	Band 7	20M	QPSK	2510	20850	50	50	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.84	17.98	18.60
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	18.66	18.85	19.00
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	17.73	17.95	18.50
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	18.73	18.85	19.00
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	17.82	17.95	18.50
CA_2A-4A-7A	Band 7	20M	QPSK	2510	20850	50	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	17.85	17.98	18.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	18.69	18.85	19.00
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	17.77	17.95	18.50
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	18.71	18.85	19.00
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	17.79	17.95	18.50
CA_2A-4A-7A-12A	Band 7	20M	QPSK	2510	20850	50	50	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	17.83	17.98	18.60

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SAR sensor on level D0 +Wifi Hotspot on

DL LTE CA Class	PCC								SCC1					SCC2					SCC3					Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq (MHz)	UL Channel	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Channel	With DL 4*4 MIMO Tx Power(dBm)	Without DL 4*4 MIMO Tx Power(dBm)	Tune-up
CA_7C	Band 7	20M	QPSK	2510	20850	50	0	4*4 MIMO	Band 7	20M	2649.8	3048	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	16.31	15.52	16.60
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	15.73	15.94	16.50
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	16.03	16.21	16.50
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	15.83	15.94	16.50
CA_2A-7A	Band 7	20M	QPSK	2510	20850	50	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	15.39	15.52	15.60
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	16.05	16.21	16.50
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	16.00	16.21	16.50
CA_4A-7A	Band 7	20M	QPSK	2510	20850	50	0	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	15.38	15.52	15.60
CA_4A-7C	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	16.00	16.21	16.50
CA_4A-7C	Band 7	20M	QPSK	2510	20850	50	0	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	15.38	15.52	15.60
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	16.01	16.21	16.50
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 12	10M	741	5130	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	15.99	16.21	16.50
CA_5A-7A	Band 7	20M	QPSK	2510	20850	50	0	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	16.41	15.52	15.60
CA_7A-12A	Band 7	20M	QPSK	2510	20850	50	0	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	15.44	15.52	15.60
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	15.71	15.94	16.50
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	16.01	16.21	16.50
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	15.73	15.94	16.50
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	16.03	16.21	16.50
CA_2A-4A-7A	Band 7	20M	QPSK	2510	20850	50	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	15.27	15.52	15.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	15.79	15.94	16.50
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	16.06	16.21	16.50
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	15.70	15.94	16.50
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	16.01	16.21	16.50
CA_2A-4A-7A-12A	Band 7	20M	QPSK	2510	20850	50	0	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	15.25	15.52	15.60

SAR sensor on level D1+Wifi Hotspot on

DL LTE CA Class	PCC								SCC1					SCC2					SCC3					Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq (MHz)	UL Channel	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Channel	With DL 4*4 MIMO Tx Power(dBm)	Without DL 4*4 MIMO Tx Power(dBm)	Tune-up
CA_7C	Band 7	20M	16QAM	2560	21350	1	50	4*4 MIMO	Band 7	20M	3152	2660.2	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	14.68	14.97	15.10
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	15.73	15.94	16.50
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	16.03	16.21	16.50
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	15.88	15.94	16.50
CA_2A-7A	Band 7	20M	QPSK	2510	20850	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.01	17.11	17.60
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	16.04	16.21	16.50
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	16.03	16.21	16.50
CA_4A-7A	Band 7	20M	QPSK	2510	20850	1	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.00	17.11	17.60
CA_4A-7C	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	16.03	16.21	16.50
CA_4A-7C	Band 7	20M	QPSK	2510	20850	1	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.00	17.11	17.60
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	16.05	16.21	16.50
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 12	10M	741	5130	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	16.02	16.21	16.50
CA_5A-7A	Band 7	20M	QPSK	2510	20850	1	50	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.02	17.11	17.60
CA_7A-12A	Band 7	20M	QPSK	2510	20850	1	50	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	16.98	17.11	17.60
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	15.70	15.94	16.50
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	16.04	16.21	16.50
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	15.74	15.94	16.50
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	15.99	16.21	16.50
CA_2A-4A-7A	Band 7	20M	QPSK	2510	20850	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	16.97	17.11	17.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	15.78	15.94	16.50
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	16.05	16.21	16.50
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	15.72	15.94	16.50
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	15.97	16.21	16.50
CA_2A-4A-7A-12A	Band 7	20M	QPSK	2510	20850	1	50	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	16.83	17.11	17.60

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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4X4 MIMO Conducted Power of Second Antenna

Receiver on(Left head)									
LTE Band	BW (MHz)	Modulation	Freq. (MHz)	Channel	UL# RB	UL RB Offset	With DL 4*4 MIMO Tx.Power (dBm)	Without DL 4*4 MIMO Tx.Power (dBm)	Tune-up
Band 4	20M	16QAM	1745	20300	1	50	20.71	20.86	21.00
Band 7	20M	16QAM	2560	21350	1	50	14.82	14.97	15.10
Receiver on(Right head)									
LTE Band	BW (MHz)	Modulation	Freq. (MHz)	Channel	UL# RB	UL RB Offset	With DL 4*4 MIMO Tx.Power (dBm)	Without DL 4*4 MIMO Tx.Power (dBm)	Tune-up
Band 4	20M	16QAM	1745	20300	1	50	18.41	18.58	19.00
Band 7	20M	QPSK	2560	21350	50	50	11.21	11.36	11.60
Receiver off (Body Scene)									
LTE Band	BW (MHz)	Modulation	Freq. (MHz)	Channel	UL# RB	UL RB Offset	With DL 4*4 MIMO Tx.Power (dBm)	Without DL 4*4 MIMO Tx.Power (dBm)	Tune-up
Band 4	20M	QPSK	1720	20050	1	99	22.48	22.63	23.50
Band 7	20M	16QAM	2560	21350	50	25	18.78	18.90	19.10
Receiver on(Left head) +WiFi on/Hotspot on									
LTE Band	BW (MHz)	Modulation	Freq. (MHz)	Channel	UL# RB	UL RB Offset	With DL 4*4 MIMO Tx.Power (dBm)	Without DL 4*4 MIMO Tx.Power (dBm)	Tune-up
Band 4	20M	16QAM	1745	20300	1	0	17.20	17.39	18.00
Band 7	20M	16QAM	2510	20850	50	50	13.44	13.56	13.60
Receiver on(Right head) +WiFi on/Hotspot on									
LTE Band	BW (MHz)	Modulation	Freq. (MHz)	Channel	UL# RB	UL RB Offset	With DL 4*4 MIMO Tx.Power (dBm)	Without DL 4*4 MIMO Tx.Power (dBm)	Tune-up
Band 4	20M	16QAM	1745	20300	1	0	15.31	15.46	16.00
Band 7	20M	16QAM	2510	20850	1	99	9.89	10.08	10.10
Receiver off (Body Scene)+WiFi on/Hotspot on									
LTE Band	BW (MHz)	Modulation	Freq. (MHz)	Channel	UL# RB	UL RB Offset	With DL 4*4 MIMO Tx.Power (dBm)	Without DL 4*4 MIMO Tx.Power (dBm)	Tune-up
Band 4	20M	16QAM	1720	20050	1	0	19.77	19.89	20.50
Band 7	20M	16QAM	2510	20850	50	50	17.01	17.18	17.60

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Receiver on(Left head)

DL LTE CA Class	PCC								SCC1						SCC2						SCC3					Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Channel	With DL 4*4 MIMO Tx Power(dBm)	Without DL 4*4 MIMO Tx Power(dBm)	Tune-up
CA_7C	Band 7	20M	16QAM	2560	21350	1	50	4*4 MIMO	Band 7	20M	3152	2660.2	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	14.77	14.97	15.10
CA_2A-4A	Band 2	20M	16QAM	1900	19100	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	19.13	19.38	19.50
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	20.71	20.86	21.00
CA_2A-7A	Band 2	20M	16QAM	1900	19100	1	0	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	19.22	19.38	19.50
CA_2A-7A	Band 7	20M	16QAM	2560	21350	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	14.81	14.97	15.10
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	20.77	20.86	21.00
CA_4A-5A	Band 5	10M	16QAM	844	20600	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	21.55	21.69	22.00
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.71	20.86	21.00
CA_4A-7A	Band 7	20M	16QAM	2560	21350	1	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	14.79	14.97	15.10
CA_4A-7C	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.71	20.86	21.00
CA_4A-7C	Band 7	20M	16QAM	2560	21350	1	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	14.79	14.97	15.10
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	20.68	20.86	21.00
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 12	10M	741	5130	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	20.72	20.86	21.00
CA_5A-7A	Band 5	10M	16QAM	844	20600	1	0	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	21.43	21.65	22.00
CA_5A-7A	Band 7	20M	16QAM	2560	21350	1	50	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	14.82	14.97	15.10
CA_7A-12A	Band 7	20M	16QAM	2560	21350	1	50	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	14.88	14.97	15.10
CA_7A-12A	Band 12	5M	16QAM	713.5	23155	1	24	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	22.03	22.29	22.40
CA_2A-4A-5A	Band 2	20M	16QAM	1900	19100	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	19.31	19.38	19.50
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	20.77	20.86	21.00
CA_2A-4A-5A	Band 5	10M	16QAM	844	20600	1	0	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	21.47	21.60	22.00
CA_2A-4A-7A	Band 2	20M	16QAM	1900	19100	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	19.13	19.38	19.50
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	20.71	20.86	21.00
CA_2A-4A-7A	Band 7	20M	16QAM	2560	21350	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	14.79	14.97	15.10
CA_2A-4A-12A	Band 2	20M	16QAM	1900	19100	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	19.25	19.38	19.50
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	20.73	20.86	21.00
CA_4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	20.73	20.86	21.00
CA_4A-7A-12A	Band 7	20M	16QAM	2560	21350	1	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	14.76	14.97	15.10
CA_4A-12A-12A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	20.71	20.86	21.00
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1900	19100	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	19.11	19.38	19.50
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	20.68	20.86	21.00
CA_2A-4A-7A-12A	Band 7	20M	16QAM	2560	21350	1	50	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	14.75	14.97	15.10

Receiver on(Right head)

DL LTE CA Class	PCC								SCC1						SCC2						SCC3					Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Channel	With DL 4*4 MIMO Tx Power(dBm)	Without DL 4*4 MIMO Tx Power(dBm)	Tune-up
CA_7C	Band 7	20M	QPSK	2560	21350	50	50	4*4 MIMO	Band 7	20M	3152	2660.2	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	11.12	11.36	11.60
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.73	17.99	18.00
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	18.38	18.58	19.00
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.71	17.99	18.00
CA_2A-7A	Band 7	20M	QPSK	2560	21350	50	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	11.28	11.36	11.60
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	18.41	18.58	19.00
CA_4A-5A	Band 5	10M	16QAM	829	20450	1	49	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.76	20.99	21.50
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	18.44	18.58	19.00
CA_4A-7A	Band 7	20M	QPSK	2560	21350	50	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	11.21	11.36	11.60
CA_4A-7C	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	18.44	18.58	19.00
CA_4A-7C	Band 7	20M	QPSK	2560	21350	50	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	11.21	11.36	11.60
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	18.39	18.58	19.00
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 12	10M	741	5130	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	18.43	18.58	19.00
CA_5A-7A	Band 5	10M	16QAM	829	20450	1	49	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.86	20.99	21.50
CA_5A-7A	Band 7	20M	QPSK	2560	21350	50	50	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	11.31	11.36	11.60
CA_7A-12A	Band 7	20M	QPSK	2560	21350	50	50	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	11.35	11.36	11.60
CA_7A-12A	Band 12	5M	16QAM	701.5	23035	1	0	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	21.63	21.79	22.00
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	17.83	17.99	18.00
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	18.41	18.58	19.00
CA_2A-4A-5A	Band 5	10M	16QAM	829	20450	1	49	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	20.76	20.99	21.50
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	17.73	17.99	18.00
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	18.45	18.58	19.00
CA_2A-4A-7A	Band 7	20M	QPSK	2560	21350	50	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	11.09	11.36	11.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	17.86	17.99	18.00
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	18.40	18.58	19.00
CA_4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	18.43	18.58	19.00
CA_4A-7A-12A	Band 7	20M	QPSK	2560	21350	50	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	11.20	11.36	11.60
CA_4A-12A-12A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	18.44	18.58	19.00
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	17.72	17.99	18.00
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	18.44	18.58	19.00
CA_2A-4A-7A-12A	Band 7	20M	QPSK	2560	21350	50	50	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	11.08	11.36	11.60

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Receiver off (Body Scene)

DL LTE CA Class	PCC								SCC1						SCC2						SCC3						Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq (MHz)	UL Channel	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Channel	With DL 4*4 MIMO Tx Power(dBm)	Without DL 4*4 MIMO Tx Power(dBm)	Tune-up
CA_7C	Band 7	20M	16QAM	2560	21350	50	25	4*4 MIMO	Band 7	20M	3152	2660 2	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	18.69	18.90	19.10
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	22.68	22.93	23.00
CA_2A-4A	Band 4	20M	QPSK	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	22.43	22.63	23.50
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	22.81	22.93	23.00
CA_2A-7A	Band 7	20M	16QAM	2560	21350	50	25	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	18.88	18.90	19.10
CA_4A-5A	Band 4	20M	QPSK	1720	20050	1	99	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	22.51	22.63	23.50
CA_4A-5A	Band 5	10M	QPSK	829	20450	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	23.04	23.14	24.00
CA_4A-7A	Band 4	20M	QPSK	1720	20050	1	99	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	22.55	22.63	23.50
CA_4A-7A	Band 7	20M	16QAM	2560	21350	50	25	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	18.78	18.90	19.10
CA_4A-7C	Band 4	20M	QPSK	1720	20050	1	99	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	22.55	22.63	23.50
CA_4A-7C	Band 7	20M	16QAM	2560	21350	50	25	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	18.78	18.90	19.10
CA_4A-12A	Band 4	20M	QPSK	1720	20050	1	99	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	22.52	22.63	23.50
CA_4A-12B	Band 4	20M	QPSK	1720	20050	1	99	4*4 MIMO	Band 12	10M	741	5130	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	22.55	22.63	23.50
CA_5A-7A	Band 5	10M	QPSK	829	20450	1	0	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	23.01	23.14	24.00
CA_5A-7A	Band 7	20M	16QAM	2560	21350	50	25	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	18.73	18.90	19.10
CA_7A-12A	Band 7	20M	16QAM	2560	21350	50	25	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	18.71	18.90	19.10
CA_7A-12A	Band 12	5M	QPSK	713.5	23155	1	24	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	23.26	23.48	24.00
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	22.61	22.93	23.00
CA_2A-4A-5A	Band 4	20M	QPSK	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	22.42	22.63	23.50
CA_2A-4A-5A	Band 5	10M	QPSK	829	20450	1	0	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	23.00	23.14	24.00
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	22.79	22.93	23.00
CA_2A-4A-7A	Band 4	20M	QPSK	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	22.51	22.63	23.50
CA_2A-4A-7A	Band 7	20M	16QAM	2560	21350	50	25	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	18.81	18.90	19.10
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	22.64	22.93	23.00
CA_2A-4A-12A	Band 4	20M	QPSK	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	22.44	22.63	23.50
CA_4A-7A-12A	Band 4	20M	QPSK	1720	20050	1	99	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	22.52	22.63	23.50
CA_4A-7A-12A	Band 7	20M	16QAM	2560	21350	50	25	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	18.74	18.90	19.10
CA_4A-12A-12A	Band 4	20M	QPSK	1720	20050	1	99	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	22.53	22.63	23.50
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	22.75	22.93	23.00
CA_2A-4A-7A-12A	Band 4	20M	QPSK	1720	20050	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	22.48	22.63	23.50
CA_2A-4A-7A-12A	Band 7	20M	16QAM	2560	21350	50	25	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	18.76	18.90	19.10

Receiver on(Left head) +WiFi on/Hotspot on

DL LTE CA Class	PCC								SCC1						SCC2						SCC3						Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq (MHz)	UL Channel	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Channel	With DL 4*4 MIMO Tx Power(dBm)	Without DL 4*4 MIMO Tx Power(dBm)	Tune-up
CA_7C	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 7	20M	2649.8	3048	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	13.31	13.56	13.60
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	15.79	16.08	16.50
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.06	17.39	18.00
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	16.00	16.08	16.50
CA_2A-7A	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	13.50	13.56	13.60
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.21	17.39	18.00
CA_4A-5A	Band 5	10M	16QAM	829	20450	1	0	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.66	17.82	18.00
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.31	17.39	18.00
CA_4A-7A	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	13.48	13.56	13.60
CA_4A-7C	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.31	17.39	18.00
CA_4A-7C	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	13.48	13.56	13.60
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.24	17.39	18.00
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 12	10M	741	5130	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	17.18	17.39	18.00
CA_5A-7A	Band 5	10M	16QAM	829	20450	1	0	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.69	17.82	18.00
CA_5A-7A	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	13.42	13.56	13.60
CA_7A-12A	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	13.41	13.56	13.60
CA_7A-12A	Band 12	5M	16QAM	713.5	23155	1	13	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	18.65	18.81	19.40
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	15.89	16.08	16.50
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	17.25	17.39	18.00
CA_2A-4A-5A	Band 5	10M	16QAM	829	20450	1	0	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	17.63	17.82	18.00
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	16.03	16.08	16.50
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	17.31	17.39	18.00
CA_2A-4A-7A	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	13.42	13.56	13.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	15.86	16.08	16.50
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	17.27	17.39	18.00
CA_4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	17.36	17.39	18.00
CA_4A-7A-12A	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	13.49	13.56	13.60
CA_4A-12A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	17.32	17.39	18.00
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	16.00	16.08	16.50
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	17.20	17.39	18.00
CA_2A-4A-7A-12A	Band 7	20M	16QAM	2510	20850	50	50	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	13.41	13.56	13.60

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Receiver on(Right head) +WiFi on/Hotspot on

DL LTE CA Class	PCC								SCC1					SCC2					SCC3					Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq (MHz)	UL Channel	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Channel	With DL 4*4 MIMO Tx Power(dBm)	Without DL 4*4 MIMO Tx Power(dBm)	Tune-up
CA_7C	Band 7	20M	16QAM	2510	20850	1	99	4*4 MIMO	Band 7	20M	2649.8	3048	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	9.89	10.08	10.10
CA_2A-4A	Band 2	20M	16QAM	1900	19100	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	14.51	14.52	15.00
CA_2A-4A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	15.38	15.46	16.00
CA_2A-7A	Band 2	20M	16QAM	1900	19100	1	99	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	14.38	14.52	15.00
CA_2A-7A	Band 7	20M	16QAM	2510	20850	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	10.00	10.08	10.10
CA_4A-5A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	15.33	15.46	16.00
CA_4A-5A	Band 5	10M	16QAM	829	20450	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.16	17.38	18.50
CA_4A-7A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	15.39	15.46	16.00
CA_4A-7A	Band 7	20M	16QAM	2510	20850	1	99	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	9.88	10.08	10.10
CA_4A-7C	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	15.39	15.46	16.00
CA_4A-7C	Band 7	20M	16QAM	2510	20850	1	99	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	9.88	10.08	10.10
CA_4A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	15.31	15.46	16.00
CA_4A-12B	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 12	10M	741	5130	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	15.26	15.46	16.00
CA_5A-7A	Band 5	10M	16QAM	829	20450	1	0	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.26	17.38	18.50
CA_5A-7A	Band 7	20M	16QAM	2510	20850	1	99	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	9.99	10.08	10.10
CA_7A-12A	Band 7	20M	16QAM	2510	20850	1	99	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	9.95	10.08	10.10
CA_7A-12A	Band 12	5M	16QAM	713.5	23155	1	24	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	18.21	18.33	19.00
CA_2A-4A-5A	Band 2	20M	16QAM	1900	19100	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	14.33	14.52	15.00
CA_2A-4A-5A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	15.29	15.46	16.00
CA_2A-4A-5A	Band 5	10M	16QAM	829	20450	1	0	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	17.21	17.38	18.50
CA_2A-4A-7A	Band 2	20M	16QAM	1900	19100	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	14.39	14.52	15.00
CA_2A-4A-7A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	15.32	15.46	16.00
CA_2A-4A-7A	Band 7	20M	16QAM	2510	20850	1	99	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	9.87	10.08	10.10
CA_2A-4A-12A	Band 2	20M	16QAM	1900	19100	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	14.35	14.52	15.00
CA_2A-4A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	15.26	15.46	16.00
CA_4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	15.37	15.46	16.00
CA_4A-7A-12A	Band 7	20M	16QAM	2510	20850	1	99	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	9.86	10.08	10.10
CA_4A-12A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	15.33	15.46	16.00
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1900	19100	1	99	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	14.33	14.52	15.00
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1745	20300	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	15.31	15.46	16.00
CA_2A-4A-7A-12A	Band 7	20M	16QAM	2510	20850	1	99	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	9.86	10.08	10.10

Receiver off (Body Scene)+WiFi on/Hotspot on

DL LTE CA Class	PCC								SCC1					SCC2					SCC3					Power(dBm)		
	LTE Band	BW (MHz)	Modulation	UL Freq (MHz)	UL Channel	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Channel	With DL 4*4 MIMO Tx Power(dBm)	Without DL 4*4 MIMO Tx Power(dBm)	Tune-up
CA_7C	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 7	20M	2649.8	3048	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.01	17.18	17.60
CA_2A-4A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	19.62	19.77	20.00
CA_2A-4A	Band 4	20M	16QAM	1720	20050	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	19.81	19.89	20.50
CA_2A-7A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	19.70	19.77	20.00
CA_2A-7A	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.00	17.18	17.60
CA_4A-5A	Band 4	20M	16QAM	1720	20050	1	0	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	19.77	19.89	20.50
CA_4A-5A	Band 5	10M	16QAM	844	20600	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.25	20.43	21.00
CA_4A-7A	Band 4	20M	16QAM	1720	20050	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	19.78	19.89	20.50
CA_4A-7A	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.01	17.18	17.60
CA_4A-7C	Band 4	20M	16QAM	1720	20050	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	19.78	19.89	20.50
CA_4A-7C	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	17.01	17.18	17.60
CA_4A-12A	Band 4	20M	16QAM	1720	20050	1	0	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	19.77	19.89	20.50
CA_4A-12B	Band 4	20M	16QAM	1720	20050	1	0	4*4 MIMO	Band 12	10M	741	5130	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	19.72	19.89	20.50
CA_5A-7A	Band 5	10M	16QAM	844	20600	1	0	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.31	20.43	21.00
CA_5A-7A	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	16.99	17.18	17.60
CA_7A-12A	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 12	5M	737.5	5095	2*2 MIMO	/	/	/	/	/	/	/	/	/	/	17.03	17.18	17.60
CA_7A-12A	Band 12	5M	16QAM	701.5	23035	1	24	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	/	/	/	/	/	20.55	20.68	21.00
CA_2A-4A-5A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	19.63	19.77	20.00
CA_2A-4A-5A	Band 4	20M	16QAM	1720	20050	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 5	10M	881.5	2525	2*2 MIMO	/	/	/	/	/	19.71	19.89	20.50
CA_2A-4A-5A	Band 5	10M	16QAM	844	20600	1	0	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	20.27	20.43	21.00
CA_2A-4A-7A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	19.66	19.77	20.00
CA_2A-4A-7A	Band 4	20M	16QAM	1720	20050	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	4*4 MIMO	/	/	/	/	/	19.67	19.89	20.50
CA_2A-4A-7A	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	/	/	/	/	/	16.83	17.18	17.60
CA_2A-4A-12A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	19.61	19.77	20.00
CA_2A-4A-12A	Band 4	20M	16QAM	1720	20050	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	19.72	19.89	20.50
CA_4A-7A-12A	Band 4	20M	16QAM	1720	20050	1	0	4*4 MIMO	Band 7	20M	2655	3100	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	19.79	19.89	20.50
CA_4A-7A-12A	Band 7	20M	16QAM	2510	20850	50	50	4*4 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	16.98	17.18	17.60
CA_4A-12A-12A	Band 4	20M	16QAM	1720	20050	1	0	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	/	/	/	/	/	19.75	19.89	20.50
CA_2A-4A-7A-12A	Band 2	20M	16QAM	1860	18700	1	0	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	19.65	19.77	20.00
CA_2A-4A-7A-12A	Band 4	20M	16QAM	1720	20050	1	0	4*4 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 7	20M	2655	3100	2*2 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	19.63	19.89	20.50
CA_2A-4A-7A-12A	Band 7	20M	16QAM	2510	20850	50	50	2*2 MIMO	Band 2	20M	1960	900	2*2 MIMO	Band 4	20M	2132.5	2175	4*4 MIMO	Band 12	5M	733.8	5058	2*2 MIMO	16.81	17.18	17.60

Note: Testing is not required in bands or modes not intended/allowed for US operation.
According to KDB 941225 D05A, the downlink LTE CA SAR test is not required and PAG requirements can be excluded.

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8.1.4 Conducted Power of WIFI and BT

WIFI2.4GHz Full Power (receiver off)							
Mode	Antenna	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11b	Ant1	1	2412	1	19.5	18.24	Yes
		6	2437		19.5	18.36	Yes
		11	2462		18.00	17.89	Yes
	Ant2	1	2412		19.00	18.08	Yes
		6	2437		19.00	17.67	Yes
		11	2462		18.00	17.65	Yes
802.11g	Ant1	1	2412	6	17.50	15.02	No
		6	2437		17.50	15.76	No
		11	2462		16.00	15.53	No
	Ant2	1	2412		17.00	14.95	No
		6	2437		17.00	15.06	No
		11	2462		16.00	15.65	No
802.11n HT20 SISO	Ant1	1	2412	6.5	16.50	13.83	No
		6	2437		16.50	14.72	No
		11	2462		15.00	14.42	No
	Ant2	1	2412		16.00	14.02	No
		6	2437		16.00	13.88	No
		11	2462		15.00	14.67	No
802.11g CDD	Ant1	1	2412	6	17.50	15.08	No
		6	2437		17.50	15.81	No
		11	2462		16.00	15.67	No
	Ant2	1	2412		17.00	15.55	No
		6	2437		17.00	15.33	No
		11	2462		16.00	15.89	No
802.11HT20MIMO	Sum	1	2412	13	19.30	16.94	No
		6	2437		19.30	17.33	No
		11	2462		18.00	17.56	No

WIFI2.4GHz receiver on(head scene)							
Mode	Antenna	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11b	Ant1	1	2412	1	16.50	15.16	Yes
		6	2437		16.50	15.28	Yes
		11	2462		16.50	15.25	Yes
	Ant2	1	2412		19.00	17.44	Yes
		6	2437		19.00	17.09	Yes
		11	2462		18.00	17.89	Yes
802.11g	Ant1	1	2412	6	16.50	13.84	No
		6	2437		16.50	14.64	No
		11	2462		16.00	14.56	No
	Ant2	1	2412		17.00	15.10	No
		6	2437		17.00	14.94	No
		11	2462		16.00	15.71	No
802.11n HT20 SISO	Ant1	1	2412	6.5	16.50	13.87	No
		6	2437		16.50	14.41	No

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		11	2462		15.00	14.46	No
	Ant2	1	2412		16.00	14.01	No
		6	2437		16.00	13.99	No
		11	2462		15.00	14.66	No
802.11g CDD	Ant1	1	2412	6	16.50	15.05	No
		6	2437		16.50	15.79	No
		11	2462		16.00	15.77	No
	Ant2	1	2412		17.00	15.58	No
		6	2437		17.00	15.43	No
		11	2462		16.00	15.98	No
802.11HT20 MIMO	Sum	1	2412	13	19.30	16.95	No
		6	2437		19.30	17.22	No
		11	2462		18.00	17.57	No

WIFI5GHz Ant1 Full Power							
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	14.00	12.27	No
		40	5200		17.00	15.03	No
		44	5220		17.00	15.25	No
		48	5240		17.00	15.02	No
	U-NII-2A	52	5260		17.00	15.28	Yes
		56	5280		17.00	15.41	Yes
		60	5300		17.00	15.24	No
		64	5320		14.00	12.36	Yes
	U-NII-2C	100	5500		14.00	12.33	Yes
		104	5520		17.00	15.18	Yes
		108	5540		17.00	15.09	No
		112	5560		17.00	15.14	No
		116	5580		17.00	15.28	Yes
		120	5600		17.00	15.10	No
		124	5620		17.00	15.08	No
		128	5640		17.00	15.07	No
		132	5660		17.00	15.28	No
		136	5680		17.00	15.31	Yes
		140	5700		14.00	12.49	No
		144	5720		14.00	12.41	Yes
	U-NII-3	149	5745		17.00	15.54	Yes
		153	5765		17.00	15.44	No
		157	5785		17.00	15.29	Yes
		161	5805		17.00	15.18	No
		165	5825		17.00	15.24	Yes
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	14.00	11.84	No
		40	5200		17.00	14.56	No
		44	5220		17.00	14.61	No
		48	5240		17.00	14.46	No
	U-NII-2A	52	5260		17.00	14.63	No
		56	5280		17.00	14.82	No

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		60	5300		17.00	14.73	No
		64	5320		14.00	11.89	No
	U-NII-2C	100	5500		14.00	11.77	No
		104	5520		17.00	14.64	No
		108	5540		17.00	14.52	No
		112	5560		17.00	14.51	No
		116	5580		17.00	14.50	No
		120	5600		17.00	14.63	No
		124	5620		17.00	14.46	No
		128	5640		17.00	14.64	No
		132	5660		17.00	14.66	No
		136	5680		17.00	14.69	No
		140	5700		14.00	11.84	No
		144	5720		14.00	11.99	No
	U-NII-3	149	5745		17.00	14.91	No
		153	5765		17.00	14.82	No
		157	5785		17.00	14.73	No
		161	5805		17.00	14.68	No
		165	5825		17.00	14.66	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT40	U-NII-1	38	5190	MCS0	11.50	9.26	No
		46	5230		14.50	12.05	No
	U-NII-2A	54	5270		14.50	12.21	No
		62	5310		11.50	9.24	No
	U-NII-2C	102	5510		11.50	9.14	No
		110	5550		14.50	11.03	No
		118	5590		14.50	11.82	No
		126	5630		14.50	11.87	No
		134	5670		14.50	12.24	No
		142	5710		11.50	9.09	No
	U-NII-3	151	5755		14.50	12.32	No
		159	5795		14.50	12.08	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 20M	U-NII-1	36	5180	MCS0	14.00	11.88	No
		40	5200		17.00	14.58	No
		44	5220		17.00	14.51	No
		48	5240		17.00	14.46	No
	U-NII-2A	52	5260		17.00	14.72	No
		56	5280		17.00	14.82	No
		60	5300		17.00	14.79	No
		64	5320		14.00	11.86	No
	U-NII-2C	100	5500		14.00	11.78	No
		104	5520		17.00	14.68	No
		108	5540		17.00	14.61	No
		112	5560		17.00	14.54	No
		116	5580		17.00	14.55	No
		120	5600		17.00	14.63	No
		124	5620		17.00	14.48	No

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		128	5640		17.00	14.79	No
		132	5660		17.00	14.67	No
		136	5680		17.00	14.72	No
		140	5700		14.00	11.96	No
		144	5720		14.00	11.93	No
	U-NII-3	149	5745		17.00	14.93	No
		153	5765		17.00	14.83	No
		157	5785		17.00	14.81	No
		161	5805		17.00	14.64	No
		165	5825		17.00	14.63	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS0	11.50	9.25	No
		46	5230		14.50	12.03	No
	U-NII-2A	54	5270		14.50	12.24	No
		62	5310		11.50	9.22	No
	U-NII-2C	102	5510		11.50	9.19	No
		110	5550		14.50	11.98	No
		118	5590		14.50	11.84	No
		126	5630		14.50	11.91	No
		134	5670		14.50	12.21	No
		142	5710		11.50	9.09	No
	U-NII-3	151	5755		14.50	12.25	No
		159	5795		14.50	12.09	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	11.50	8.85	No
	U-NII-2A	58	5290		11.50	8.73	No
	U-NII-2C	106	5530		11.50	8.46	No
		122	5610		13.00	9.74	No
		138	5690		11.50	8.55	No
	U-NII-3	155	5775		13.00	10.11	No
WIFI5GHz Ant2 Full Powe							
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	11.00	9.64	No
		40	5200		14.00	12.55	No
		44	5220		14.00	12.64	No
		48	5240		14.00	12.72	No
	U-NII-2A	52	5260		14.00	12.96	Yes
		56	5280		14.00	13.01	No
		60	5300		14.00	13.15	Yes
		64	5320		11.00	10.23	Yes
	U-NII-2C	100	5500		11.00	9.82	Yes
		104	5520		14.00	12.83	Yes
		108	5540		14.00	12.87	No
		112	5560		14.00	13.02	No
		116	5580		14.00	13.09	Yes
		120	5600		14.00	13.13	No

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		124	5620		14.00	13.18	No
		128	5640		14.00	13.22	No
		132	5660		14.00	13.35	Yes
		136	5680		14.00	13.08	No
		140	5700		11.00	10.62	No
		144	5720		11.00	10.35	Yes
	U-NII-3	149	5745		14.00	12.81	Yes
		153	5765		14.00	12.61	No
		157	5785		14.00	12.52	Yes
		161	5805		14.00	12.43	No
		165	5825		14.00	12.56	Yes
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	11.00	9.57	No
		40	5200		14.00	12.62	No
		44	5220		14.00	12.52	No
		48	5240		14.00	12.77	No
	U-NII-2A	52	5260		14.00	13.01	No
		56	5280		14.00	12.98	No
		60	5300		14.00	13.12	No
		64	5320		11.00	10.11	No
	U-NII-2C	100	5500		11.00	9.89	No
		104	5520		14.00	12.91	No
		108	5540		14.00	12.93	No
		112	5560		14.00	13.15	No
		116	5580		14.00	13.05	No
		120	5600		14.00	13.18	No
		124	5620		14.00	13.28	No
		128	5640		14.00	13.31	No
		132	5660		14.00	13.24	No
		136	5680		14.00	13.17	No
		140	5700		11.00	10.19	No
		144	5720		11.00	9.96	No
	U-NII-3	149	5745		14.00	12.88	No
		153	5765		14.00	12.92	No
		157	5785		14.00	12.66	No
		161	5805		14.00	12.67	No
		165	5825		14.00	12.69	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT40	U-NII-1	38	5190	MCS0	10.00	8.46	No
		46	5230		11.50	9.87	No
	U-NII-2A	54	5270		11.50	10.25	No
		62	5310		10.00	8.92	No
	U-NII-2C	102	5510		10.00	8.79	No
		110	5550		11.50	10.51	No
		118	5590		11.50	10.59	No
		126	5630		11.50	10.79	No
		134	5670		11.50	10.72	No
		142	5710		10.00	9.09	No

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	U-NII-3	151	5755		11.50	10.47	No
		159	5795		11.50	10.08	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 20M	U-NII-1	36	5180	MCS0	11.00	9.77	No
		40	5200		14.00	12.55	No
		44	5220		14.00	12.69	No
		48	5240		14.00	12.78	No
	U-NII-2A	52	5260		14.00	12.92	No
		56	5280		14.00	13.01	No
		60	5300		14.00	13.02	No
		64	5320		11.00	10.01	No
	U-NII-2C	100	5500		11.00	9.91	No
		104	5520		14.00	12.97	No
		108	5540		14.00	12.98	No
		112	5560		14.00	13.07	No
		116	5580		14.00	13.14	No
		120	5600		14.00	13.26	No
		124	5620		14.00	13.25	No
		128	5640		14.00	13.21	No
		132	5660		14.00	13.34	No
		136	5680		14.00	13.06	No
		140	5700		11.00	10.25	No
		144	5720		11.00	9.98	No
	U-NII-3	149	5745		14.00	12.99	No
		153	5765		14.00	12.81	No
		157	5785		14.00	12.67	No
		161	5805		14.00	12.56	No
		165	5825		14.00	12.55	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS0	10.00	8.46	No
		46	5230		11.50	9.96	No
	U-NII-2A	54	5270		11.50	10.19	No
		62	5310		10.00	9.01	No
	U-NII-2C	102	5510		10.00	8.93	No
		110	5550		11.50	10.51	No
		118	5590		11.50	10.77	No
		126	5630		11.50	10.75	No
		134	5670		11.50	10.68	No
		142	5710		10.00	9.09	No
	U-NII-3	151	5755		11.50	10.39	No
		159	5795		11.50	10.07	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	10.00	8.41	No
	U-NII-2A	58	5290		10.00	8.66	No
	U-NII-2C	106	5530		10.00	8.51	No
		122	5610		10.00	8.88	No

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		138	5690		10.00	8.65	No
	U-NII-3	155	5775		10.00	8.23	No

WIFI5GHz CDD Full Power

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	12	15.80	14.16	No
		40	5200		18.80	16.98	No
		44	5220		18.80	17.15	No
		48	5240		18.80	17.03	No
	U-NII-2A	52	5260		18.80	17.28	No
		56	5280		18.80	17.38	No
		60	5300		18.80	17.33	No
		64	5320		15.80	14.44	No
	U-NII-2C	100	5500		15.80	14.26	No
		104	5520		18.80	17.17	No
		108	5540		18.80	17.13	No
		112	5560		18.80	17.22	No
		116	5580		18.80	17.33	No
		120	5600		18.80	17.24	No
		124	5620		18.80	17.24	No
		128	5640		18.80	17.25	No
		132	5660		18.80	17.43	No
		136	5680		18.80	17.35	No
		140	5700		15.80	14.67	No
		144	5720		15.80	14.51	No
	U-NII-3	149	5745		18.80	17.40	No
		153	5765		18.80	17.26	No
		157	5785		18.80	17.13	No
		161	5805		18.80	17.03	No
		165	5825		18.80	17.11	No

WIFI5GHz MIMO Full Power

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS8	15.80	13.86	No
		40	5200		18.80	16.71	No
		44	5220		18.80	16.70	No
		48	5240		18.80	16.71	No
	U-NII-2A	52	5260		18.80	16.91	No
		56	5280		18.80	17.01	No
		60	5300		18.80	17.01	No
		64	5320		15.80	14.10	No
	U-NII-2C	100	5500		15.80	13.94	No
		104	5520		18.80	16.87	No
		108	5540		18.80	16.81	No
		112	5560		18.80	16.89	No
		116	5580		18.80	16.85	No
		120	5600		18.80	16.98	No
		124	5620		18.80	16.92	No
		128	5640		18.80	17.04	No
		132	5660		18.80	17.02	No

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		136	5680		18.80	17.01	No
		140	5700		15.80	14.10	No
		144	5720		15.80	14.10	No
	U-NII-3	149	5745		18.80	17.02	No
		153	5765		18.80	16.98	No
		157	5785		18.80	16.83	No
		161	5805		18.80	16.80	No
		165	5825		18.80	16.80	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT40	U-NII-1	38	5190	MCS8	13.80	11.89	No
		46	5230		16.30	14.11	No
	U-NII-2A	54	5270		16.30	14.35	No
		62	5310		13.80	12.09	No
	U-NII-2C	102	5510		13.80	11.98	No
		110	5550		16.30	13.79	No
		118	5590		16.30	14.26	No
		126	5630		16.30	14.37	No
		134	5670		16.30	14.56	No
		142	5710		13.80	12.10	No
	U-NII-3	151	5755		16.30	14.50	No
		159	5795		16.30	14.20	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 20M	U-NII-1	36	5180	MCS8	15.80	13.96	No
		40	5200		18.80	16.69	No
		44	5220		18.80	16.71	No
		48	5240		18.80	16.71	No
	U-NII-2A	52	5260		18.80	16.92	No
		56	5280		18.80	17.02	No
		60	5300		18.80	17.01	No
		64	5320		15.80	14.04	No
	U-NII-2C	100	5500		15.80	13.96	No
		104	5520		18.80	16.92	No
		108	5540		18.80	16.88	No
		112	5560		18.80	16.88	No
		116	5580		18.80	16.91	No
		120	5600		18.80	17.01	No
		124	5620		18.80	16.92	No
		128	5640		18.80	17.08	No
		132	5660		18.80	17.07	No
		136	5680		18.80	16.98	No
		140	5700		15.80	14.20	No
		144	5720		15.80	14.07	No
	U-NII-3	149	5745		18.80	17.08	No
		153	5765		18.80	16.95	No
		157	5785		18.80	16.88	No
		161	5805		18.80	16.73	No
		165	5825		18.80	16.72	No

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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS8	13.80	11.88	No
		46	5230		16.30	14.13	No
	U-NII-2A	54	5270		16.30	14.35	No
		62	5310		13.80	12.13	No
	U-NII-2C	102	5510		13.80	12.07	No
		110	5550		16.30	14.32	No
		118	5590		16.30	14.35	No
		126	5630		16.30	14.38	No
		134	5670		16.30	14.52	No
		142	5710		13.80	12.10	No
	U-NII-3	151	5755		16.30	14.43	No
		159	5795		16.30	14.21	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS8	13.80	11.65	No
	U-NII-2A	58	5290		13.80	11.71	No
	U-NII-2C	106	5530		13.80	11.50	No
		122	5610		14.80	12.34	No
		138	5690		13.80	11.61	No
	U-NII-3	155	5775		14.80	12.28	No

WIFI5GHz Ant1 receiver on(head scene)							
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	11.00	10.46	No
		40	5200		11.00	10.55	No
		44	5220		11.00	10.47	No
		48	5240		11.00	10.45	No
	U-NII-2A	52	5260		11.00	10.52	No
		56	5280		11.00	10.61	No
		60	5300		11.00	10.55	No
		64	5320		11.00	10.59	No
	U-NII-2C	100	5500		9.00	8.27	No
		104	5520		9.00	8.09	No
		108	5540		9.00	8.01	No
		112	5560		9.00	8.14	No
		116	5580		9.00	8.11	No
		120	5600		9.00	8.06	No
		124	5620		9.00	8.07	No
		128	5640		9.00	8.10	No
		132	5660		9.00	8.32	No
		136	5680		9.00	8.37	No
		140	5700		9.00	8.41	No
		144	5720		9.00	8.17	No

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	U-NII-3	149	5745		9.00	8.72	No
		153	5765		9.00	8.71	No
		157	5785		9.00	8.47	No
		161	5805		9.00	8.37	No
		165	5825		9.00	8.45	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	11.00	9.96	No
		40	5200		11.00	9.75	No
		44	5220		11.00	9.88	No
		48	5240		11.00	9.85	No
	U-NII-2A	52	5260		11.00	9.91	No
		56	5280		11.00	10.08	No
		60	5300		11.00	9.94	No
		64	5320		11.00	10.14	No
	U-NII-2C	100	5500		9.00	7.77	No
		104	5520		9.00	7.63	No
		108	5540		9.00	7.51	No
		112	5560		9.00	7.65	No
		116	5580		9.00	7.44	No
		120	5600		9.00	7.54	No
		124	5620		9.00	7.56	No
		128	5640		9.00	7.64	No
		132	5660		9.00	7.73	No
		136	5680		9.00	7.81	No
		140	5700		9.00	7.94	No
		144	5720		9.00	7.77	No
	U-NII-3	149	5745		9.00	8.02	No
		153	5765		9.00	7.91	No
		157	5785		9.00	8.05	No
		161	5805		9.00	7.93	No
		165	5825		9.00	7.67	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT40	U-NII-1	38	5190	MCS0	11.00	9.88	No
		46	5230		11.00	9.73	No
	U-NII-2A	54	5270		11.00	9.85	No
		62	5310		11.00	9.82	No
	U-NII-2C	102	5510		9.00	8.02	No
		110	5550		9.00	7.95	No
		118	5590		9.00	7.76	No
		126	5630		9.00	7.79	No
		134	5670		9.00	8.02	No
		142	5710		9.00	8.03	No
	U-NII-3	151	5755		9.00	8.09	No

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		159	5795		9.00	7.82	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 20M	U-NII-1	36	5180	MCS0	11.00	9.97	No
		40	5200		11.00	9.95	No
		44	5220		11.00	9.86	No
		48	5240		11.00	9.74	No
	U-NII-2A	52	5260		11.00	10.22	No
		56	5280		11.00	9.96	No
		60	5300		11.00	9.95	No
		64	5320		11.00	10.23	No
	U-NII-2C	100	5500		9.00	7.67	No
		104	5520		9.00	7.64	No
		108	5540		9.00	7.63	No
		112	5560		9.00	7.45	No
		116	5580		9.00	7.52	No
		120	5600		9.00	7.61	No
		124	5620		9.00	7.67	No
		128	5640		9.00	7.63	No
		132	5660		9.00	7.86	No
		136	5680		9.00	7.78	No
		140	5700		9.00	7.83	No
		144	5720		9.00	7.81	No
	U-NII-3	149	5745		9.00	8.11	No
		153	5765		9.00	7.97	No
		157	5785		9.00	7.81	No
		161	5805		9.00	7.79	No
		165	5825		9.00	7.77	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS0	11.00	9.94	No
		46	5230		11.00	9.86	No
	U-NII-2A	54	5270		11.00	9.88	No
		62	5310		11.00	9.99	No
	U-NII-2C	102	5510		9.00	7.96	No
		110	5550		9.00	7.69	No
		118	5590		9.00	7.76	No
		126	5630		9.00	7.83	No
		134	5670		9.00	7.98	No
		142	5710		9.00	8.05	No
	U-NII-3	151	5755		9.00	8.14	No
		159	5795		9.00	7.83	No

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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	11.00	9.32	No
	U-NII-2A	58	5290		11.00	9.21	Yes
	U-NII-2C	106	5530		9.00	7.24	Yes
		122	5610		9.00	7.14	Yes
		138	5690		9.00	7.32	Yes
	U-NII-3	155	5775		9.00	7.38	Yes
WIFI5GHz Ant2 receiver on(head scene)							
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	6	11.00	10.56	No
		40	5200		11.00	10.38	No
		44	5220		11.00	10.41	No
		48	5240		11.00	10.57	No
	U-NII-2A	52	5260		11.00	10.59	No
		56	5280		11.00	10.56	No
		60	5300		11.00	10.51	No
		64	5320		11.00	10.50	No
	U-NII-2C	100	5500		11.00	10.81	No
		104	5520		11.00	10.57	No
		108	5540		11.00	10.71	No
		112	5560		11.00	10.82	No
		116	5580		11.00	10.88	No
		120	5600		11.00	10.74	No
		124	5620		11.00	10.67	No
		128	5640		11.00	10.74	No
		132	5660		11.00	10.74	No
		136	5680		11.00	10.72	No
		140	5700		11.00	10.61	No
		144	5720		11.00	10.85	No
	U-NII-3	149	5745		11.00	10.39	No
		153	5765		11.00	10.42	No
		157	5785		11.00	10.37	No
		161	5805		11.00	10.39	No
		165	5825		11.00	10.60	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS0	11.00	9.98	No
		40	5200		11.00	9.81	No
		44	5220		11.00	9.84	No
		48	5240		11.00	9.78	No
	U-NII-2A	52	5260		11.00	10.10	No
		56	5280		11.00	10.09	No

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		60	5300		11.00	10.07	No
		64	5320		11.00	10.01	No
	U-NII-2C	100	5500		11.00	10.25	No
		104	5520		11.00	10.21	No
		108	5540		11.00	10.05	No
		112	5560		11.00	10.18	No
		116	5580		11.00	10.17	No
		120	5600		11.00	10.33	No
		124	5620		11.00	10.32	No
		128	5640		11.00	10.31	No
		132	5660		11.00	10.35	No
		136	5680		11.00	10.16	No
		140	5700		11.00	10.14	No
		144	5720		11.00	10.03	No
	U-NII-3	149	5745		11.00	10.18	No
		153	5765		11.00	9.88	No
		157	5785		11.00	9.94	No
		161	5805		11.00	9.86	No
		165	5825		11.00	9.83	No

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT40	U-NII-1	38	5190	MCS0	10.00	8.44	No
		46	5230		11.00	9.57	No
	U-NII-2A	54	5270		11.00	9.79	Yes
		62	5310		10.00	8.89	Yes
	U-NII-2C	102	5510		10.00	8.86	Yes
		110	5550		11.00	9.08	No
		118	5590		11.00	9.81	No
		126	5630		11.00	10.09	No
		134	5670		11.00	10.13	Yes
		142	5710		10.00	9.08	Yes
	U-NII-3	151	5755		11.00	9.75	Yes
		159	5795		11.00	9.61	Yes

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 20M	U-NII-1	36	5180	MCS0	11.00	9.98	No
		40	5200		11.00	9.79	No
		44	5220		11.00	9.83	No
		48	5240		11.00	9.78	No
	U-NII-2A	52	5260		11.00	10.12	No
		56	5280		11.00	10.30	No
		60	5300		11.00	10.06	No
		64	5320		11.00	10.13	No
	U-NII-2C	100	5500		11.00	10.19	No
		104	5520		11.00	10.17	No

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		108	5540		11.00	10.16	No
		112	5560		11.00	10.18	No
		116	5580		11.00	10.23	No
		120	5600		11.00	10.31	No
		124	5620		11.00	10.35	No
		128	5640		11.00	10.28	No
		132	5660		11.00	10.25	No
		136	5680		11.00	10.13	No
		140	5700		11.00	10.12	No
		144	5720		11.00	10.05	No
	U-NII-3	149	5745		11.00	9.98	No
		153	5765		11.00	9.93	No
		157	5785		11.00	9.98	No
		161	5805		11.00	9.79	No
		165	5825		11.00	9.96	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS0	10.00	8.49	No
		46	5230		11.00	9.57	No
	U-NII-2A	54	5270		11.00	9.64	No
		62	5310		10.00	8.83	No
	U-NII-2C	102	5510		10.00	9.03	No
		110	5550		11.00	9.85	No
		118	5590		11.00	10.14	No
		126	5630		11.00	10.08	No
		134	5670		11.00	10.07	No
		142	5710		10.00	9.07	No
	U-NII-3	151	5755		11.00	9.99	No
		159	5795		11.00	9.64	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS0	10.00	8.01	No
	U-NII-2A	58	5290		10.00	8.25	No
	U-NII-2C	106	5530		10.00	8.31	No
		122	5610		10.00	8.33	No
		138	5690		10.00	8.17	No
	U-NII-3	155	5775		10.00	7.85	No
WIFI5GHz CDD receiver on(head scene)							
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11a	U-NII-1	36	5180	12	14.00	13.52	No
		40	5200		14.00	13.48	No
		44	5220		14.00	13.45	No

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		48	5240		14.00	13.52	No
	U-NII-2A	52	5260		14.00	13.57	No
		56	5280		14.00	13.60	No
		60	5300		14.00	13.54	No
		64	5320		14.00	13.56	No
	U-NII-2C	100	5500		13.10	12.73	No
		104	5520		13.10	12.52	No
		108	5540		13.10	12.58	No
		112	5560		13.10	12.69	No
		116	5580		13.10	12.72	No
		120	5600		13.10	12.61	No
		124	5620		13.10	12.57	No
		128	5640		13.10	12.63	No
		132	5660		13.10	12.71	No
		136	5680		13.10	12.71	No
		140	5700		13.10	12.66	No
		144	5720		13.10	12.72	No
	U-NII-3	149	5745		13.10	12.65	No
		153	5765		13.10	12.66	No
		157	5785		13.10	12.53	No
		161	5805		13.10	12.51	No
		165	5825		13.10	12.67	No

WIFI5GHz MIMO receiver on(head scene)

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT20	U-NII-1	36	5180	MCS8	14.00	12.98	No
		40	5200		14.00	12.79	No
		44	5220		14.00	12.87	No
		48	5240		14.00	12.83	No
	U-NII-2A	52	5260		14.00	13.02	No
		56	5280		14.00	13.10	No
		60	5300		14.00	13.02	No
		64	5320		14.00	13.09	No
	U-NII-2C	100	5500		13.10	12.20	No
		104	5520		13.10	12.12	No
		108	5540		13.10	11.97	No
		112	5560		13.10	12.11	No
		116	5580		13.10	12.03	No
		120	5600		13.10	12.17	No
		124	5620		13.10	12.17	No
		128	5640		13.10	12.19	No
		132	5660		13.10	12.25	No
		136	5680		13.10	12.15	No
		140	5700		13.10	12.19	No

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		144	5720		13.10	12.06	No
	U-NII-3	149	5745		13.10	12.24	No
		153	5765		13.10	12.02	No
		157	5785		13.10	12.11	No
		161	5805		13.10	12.01	No
		165	5825		13.10	11.89	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11n-HT40	U-NII-1	38	5190	MCS8	13.50	12.23	No
		46	5230		14.00	12.66	No
	U-NII-2A	54	5270		14.00	12.83	No
		62	5310		13.50	12.39	No
	U-NII-2C	102	5510		12.50	11.47	No
		110	5550		13.10	11.56	No
		118	5590		13.10	11.92	No
		126	5630		13.10	12.10	No
		134	5670		13.10	12.21	No
		142	5710		12.50	11.60	No
	U-NII-3	151	5755		13.10	12.01	No
		159	5795		13.10	11.82	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 20M	U-NII-1	36	5180	MCS8	14.00	12.99	No
		40	5200		14.00	12.88	No
		44	5220		14.00	12.86	No
		48	5240		14.00	12.77	No
	U-NII-2A	52	5260		14.00	13.18	No
		56	5280		14.00	13.14	No
		60	5300		14.00	13.02	No
		64	5320		14.00	13.19	No
	U-NII-2C	100	5500		13.10	12.12	No
		104	5520		13.10	12.10	No
		108	5540		13.10	12.09	No
		112	5560		13.10	12.04	No
		116	5580		13.10	12.09	No
		120	5600		13.10	12.18	No
		124	5620		13.10	12.22	No
		128	5640		13.10	12.16	No
		132	5660		13.10	12.23	No
		136	5680		13.10	12.12	No
		140	5700		13.10	12.14	No
		144	5720		13.10	12.08	No
	U-NII-3	149	5745		13.10	12.16	No
		153	5765		13.10	12.07	No
		157	5785		13.10	12.04	No

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		161	5805		13.10	11.91	No
		165	5825		13.10	12.01	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 40M	U-NII-1	38	5190	MCS8	13.50	11.42	No
		46	5230		14.00	13.44	No
	U-NII-2A	54	5270		14.00	13.44	No
		62	5310		13.50	11.23	No
	U-NII-2C	102	5510		12.50	10.55	No
		110	5550		13.10	12.48	No
		118	5590		13.10	12.56	No
		126	5630		13.10	12.56	No
		134	5670		13.10	12.73	No
		142	5710		12.50	10.75	No
	U-NII-3	151	5755		13.10	13.03	No
		159	5795		13.10	13.01	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Tune up	Average Power (dBm)	SAR Test
802.11ac 80M	U-NII-1	42	5210	MCS8	13.50	11.73	No
	U-NII-2A	58	5290		13.50	11.77	No
	U-NII-2C	106	5530		12.50	10.82	No
		122	5610		12.50	10.79	No
		138	5690		12.50	10.78	No
	U-NII-3	155	5775		12.50	10.63	No

Table 17：Conducted Power Of WIFI

Note:

a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.

b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.

2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

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BT			Tune up (dBm)	Average Conducted Power(dBm)
Modulation	Channel	Frequency(MHz)		GFSK
GFSK	0	2402	11.00	9.01
	5	2407	11.00	**9.16**
	10	2412	11.00	9.19
GFSK	11	2413	11.70	10.43
	39	2441	11.70	**10.52**
	58	2460	11.70	10.49
GFSK	59	2461	11.20	9.87
	65	2467	11.20	**9.91**
	70	2472	11.20	9.76
GFSK	71	2473	10.30	9.28
	75	2477	10.30	**9.31**
	78	2480	10.30	9.24
π/4DQPSK	0	2402	6.00	3.55
	5	2407	6.00	3.12
	10	2412	6.00	3.74
π/4DQPSK	11	2413	6.50	4.43
	39	2441	6.50	4.85
	58	2460	6.50	4.79
π/4DQPSK	59	2461	6.30	4.12
	65	2467	6.30	4.24
	70	2472	6.30	4.51
π/4DQPSK	71	2473	5.00	2.96
	75	2477	5.00	2.90
	78	2480	5.00	2.81
8DPSK	0	2402	6.00	3.49
	5	2407	6.00	3.10
	10	2412	6.00	3.73
8DPSK	11	2413	6.50	4.28
	39	2441	6.50	4.72
	58	2460	6.50	4.67
8DPSK	59	2461	6.30	4.07
	65	2467	6.30	4.09
	70	2472	6.30	4.49
8DPSK	71	2473	5.00	2.84
	75	2477	5.00	2.82
	78	2480	5.00	2.69
BLE			Tune up (dBm)	Average Conducted Power(dBm)
Modulation	Channel	Frequency(MHz)		GFSK
GFSK	0	2402	5.00	1.28
	3	2408	5.00	1.85
	5	2412	5.00	2.06
GFSK	6	2414	5.30	2.16
	19	2440	5.30	2.26
	31	2464	5.30	1.71
GFSK	32	2466	5.10	1.58
	33	2468	5.10	1.72
	34	2470	5.10	1.25
GFSK	35	2472	3.70	0.97

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	37	2476	3.70	0.28
	39	2480	3.70	-0.23

Note： As different maximum tune-up output power is specified across the different channels range. So the additional conducted power measurement for the adjacent channel of each power level stage is also performed in this report to ensure compliance.

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8.2 Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Freq. Band	Frequency (GHz)	Position	Average Power		Test Separation (mm)	Calculate Value	Exclusion Threshold	Exclusion (Y/N)
			dBm	mW				
Bluetooth	2.48	Head	11.7	14.79	0	4.66	3	N
		Body-worn	11.7	14.79	15	1.55	3	Y
		Hotspot	11.7	14.79	10	2.33	3	Y

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
• f(GHz) is the RF channel transmit frequency in GHz
• Power and distance are rounded to the nearest mW and mm before calculation
• The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

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8.3 Measurement of SAR Data

8.3.1 SAR Result of GSM850

Ant1 Test data										
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
Head Test data										
Left cheek	GSM	190/836.6	1:8.3	0.128	-0.02	32.75	33.60	1.216	0.156	22.1
Left tilted	GSM	190/836.7	1:8.3	0.081	0.07	32.75	33.60	1.216	0.099	22.1
Right cheek	GSM	190/836.8	1:8.3	0.214	-0.01	32.75	33.60	1.216	0.260	22.1
Right tilted	GSM	190/836.9	1:8.3	0.079	0.14	32.75	33.60	1.216	0.096	22.1
Right cheek	GSM	128/824.2	1:8.3	0.225	-0.04	32.59	33.60	1.262	**0.284**	22.1
Right cheek	GSM	251/848.8	1:8.3	0.181	0.07	32.81	33.60	1.199	0.217	22.1
Head Test Data at the worst case with Battery 2#										
Right cheek	GSM	128/824.2	1:8.3	0.214	0.03	32.59	33.60	1.262	0.270	22.1
Head Test Data at the worst case with Battery 3#										
Right cheek	GSM	128/824.2	1:8.3	0.221	0.00	32.59	33.60	1.262	0.279	22.1
Body worn Test data(Separate 15mm)										
Front side	GSM	190/836.6	1:8.3	0.298	-0.12	32.75	33.60	1.216	0.362	22.1
Back side	GSM	190/836.6	1:8.3	0.327	0.07	32.75	33.60	1.216	0.398	22.1
Front side	GPRS 2TS	190/836.6	1:4.15	0.365	-0.09	30.59	32.00	1.384	0.505	22.1
Back side	GPRS 2TS	190/836.6	1:4.15	0.440	0.06	30.59	32.00	1.384	**0.609**	22.1
Back side	GPRS 2TS	128/824.2	1:4.15	0.398	-0.10	30.42	32.00	1.439	0.573	22.1
Back side	GPRS 2TS	251/848.8	1:4.15	0.419	0.09	30.57	32.00	1.390	0.582	22.1
Body worn Test data at the worst case with Battery 2#										
Back side	GPRS 2TS	190/836.6	1:4.15	0.418	0.01	30.59	32.00	1.384	0.578	22.1
Body worn Test data at the worst case with Battery 3#										
Back side	GPRS 2TS	190/836.6	1:4.15	0.413	-0.04	30.59	32.00	1.384	0.571	22.1
Hotspot Test data(Separate 10mm)										
Front side	GPRS 2TS	190/836.6	1:4.15	0.562	-0.10	30.59	32.00	1.384	0.778	22.1
Back side	GPRS 2TS	190/836.6	1:4.15	0.599	0.07	30.59	32.00	1.384	0.829	22.1
Left side	GPRS 2TS	190/836.6	1:4.15	0.119	-0.05	30.59	32.00	1.384	0.165	22.1
Right side	GPRS 2TS	190/836.6	1:4.15	0.431	-0.05	30.59	32.00	1.384	0.596	22.1
Bottom side	GPRS 2TS	190/836.6	1:4.15	0.417	0.08	30.59	32.00	1.384	0.577	22.1
Back side	GPRS 2TS	128/824.2	1:4.15	0.471	0.08	30.42	32.00	1.439	0.678	22.1
Back side	GPRS 2TS	251/848.8	1:4.15	0.652	-0.08	30.57	32.00	1.390	**0.906**	22.1
Hotspot Test Data at the worst case with Battery 2#(10mm)										
Back side	GPRS 2TS	251/848.8	1:4.15	0.633	-0.03	30.57	32.00	1.390	0.880	22.1
Hotspot Test Data at the worst case with Battery 3#(10mm)										
Back side	GPRS 2TS	251/848.8	1:4.15	0.561	0.04	30.57	32.00	1.390	0.780	22.1
Ant2 Test data										
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
Head Test data										
Left cheek	GSM	190/836.6	1:8.3	0.61	0.05	29.62	30.60	1.253	0.764	22.1
Left tilted	GSM	190/836.6	1:8.3	0.497	0.08	29.62	30.60	1.253	0.623	22.1
Right cheek	GSM	190/836.6	1:8.3	0.553	-0.03	29.59	30.60	1.262	0.698	22.1
Right tilted	GSM	190/836.6	1:8.3	0.577	0.14	29.59	30.60	1.262	0.728	22.1
Left cheek	GSM	128/824.2	1:8.3	0.613	0.02	29.49	30.60	1.291	**0.792**	22.1
Left cheek	GSM	251/848.8	1:8.3	0.579	-0.02	29.61	30.60	1.256	0.727	22.1
Head Test Data at the worst case with Battery 2#										
Left cheek	GSM	128/824.2	1:8.3	0.564	0.11	29.49	30.60	1.291	0.728	22.1
Head Test Data at the worst case with Battery 3#										
Left cheek	GSM	128/824.2	1:8.3	0.529	0.07	29.49	30.60	1.291	0.683	22.1

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Body worn Test data(Separate 15mm)										
Front side	GSM	190/836.6	1:8.3	0.093	0.04	33.05	33.60	1.135	0.105	22.1
Back side	GSM	190/836.6	1:8.3	0.083	-0.13	33.05	33.60	1.135	0.094	22.1
Front side	GPRS 2TS	190/836.6	1:4.15	0.227	0.04	31.13	32.00	1.222	0.277	22.1
Back side	GPRS 2TS	190/836.6	1:4.15	0.220	-0.08	31.13	32.00	1.222	0.269	22.1
Front side	GPRS 2TS	128/824.2	1:4.15	0.231	0.01	31.01	32.00	1.256	0.290	22.1
Front side	GPRS 2TS	251/848.8	1:4.15	0.230	0.01	31.22	32.00	1.197	0.275	22.1
Body worn Test data at the worst case with Battery 2#										
Front side	GPRS 2TS	128/824.2	1:4.15	0.234	0.03	31.01	32.00	1.256	**0.294**	22.1
Body worn Test data at the worst case with Battery 3#										
Front side	GPRS 2TS	128/824.2	1:4.15	0.227	0.05	31.01	32.00	1.256	0.285	22.1
Hotspot Test data(Separate 10mm)										
Front side	GPRS 2TS	190/836.6	1:4.15	0.209	0.05	27.94	29.00	1.276	0.267	22.1
Back side	GPRS 2TS	190/836.6	1:4.15	0.198	-0.01	27.94	29.00	1.276	0.253	22.1
Left side	GPRS 2TS	190/836.6	1:4.15	0.082	-0.05	27.94	29.00	1.276	0.104	22.1
Right side	GPRS 2TS	190/836.6	1:4.15	0.189	-0.04	27.94	29.00	1.276	0.241	22.1
Top side	GPRS 2TS	190/836.6	1:4.15	0.144	-0.04	27.94	29.00	1.276	0.184	22.1
Front side	GPRS 2TS	128/824.2	1:4.15	0.231	0.14	27.88	29.00	1.294	**0.299**	22.1
Front side	GPRS 2TS	251/848.8	1:4.15	0.196	0.07	27.92	29.00	1.282	0.251	22.1
Hotspot Test Data at the worst case with Battery 2#(10mm)										
Front side	GPRS 2TS	128/824.2	1:4.15	0.194	0.09	27.88	29.00	1.294	0.251	22.1
Hotspot Test Data at the worst case with Battery 3#(10mm)										
Front side	GPRS 2TS	128/824.2	1:4.15	0.211	-0.08	27.88	29.00	1.294	0.273	22.1

Table 18：SAR of GSM850 for Head and Body(Original report E5/2018/20036).

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Ant1 Test data										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data at the worst case										
Right cheek	GSM	128/824.2	1:8.3	0.191	0.06	32.59	33.60	1.262	0.241	22.1
Body worn Test data at the worst case (Separate 15mm)										
Back side	GPRS 2TS	190/836.6	1:4.15	0.363	0.05	30.59	32.00	1.384	0.502	22.1
Hotspot Test data at the worst case (Separate 10mm)										
Back side	GPRS 2TS	251/848.8	1:4.15	0.605	-0.02	30.57	32.00	1.390	0.841	22.1
Ant2 Test data										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data at the worst case										
Left cheek	GSM	128/824.2	1:8.3	0.601	-0.14	29.49	30.60	1.291	0.776	22.1
Body worn Test data at the worst case with Battery 2#										
Front side	GPRS 2TS	128/824.2	1:4.15	0.099	-0.06	27.05	29.00	1.567	0.155	22.1
Hotspot Test data at the worst case (Separate 10mm)										
Front side	GPRS 2TS	128/824.2	1:4.15	0.125	0.00	24.11	26.00	1.545	0.193	22.1
Ant2 Additional Test data(simultaneous transmission with WIFI)										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data										
Left tilted	GSM	190/836.6	1:8.3	0.322	-0.06	26.71	27.60	1.227	0.395	22.1

Table 19：SAR of GSM850 for Head and Body(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B

2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

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8.3.2 SAR Result of GSM1900

Ant1 Test data										
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
Head Test data										
Left cheek	GSM	661/1880	1:8.3	0.063	0.18	30.25	31.00	1.189	0.075	22.3
Left tilted	GSM	661/1880	1:8.3	0.020	0.08	30.25	31.00	1.189	0.024	22.3
Right cheek	GSM	661/1880	1:8.3	0.054	0.06	30.25	31.00	1.189	0.064	22.3
Right tilted	GSM	661/1880	1:8.3	0.069	0.02	30.25	31.00	1.189	**0.082**	22.3
Right tilted	GSM	512/1850.2	1:8.3	0.055	0.12	30.24	31.00	1.191	0.066	22.3
Right tilted	GSM	810/1909.8	1:8.3	0.064	-0.03	30.33	31.00	1.167	0.075	22.3
Head Test Data at the worst case with Battery 2#										
Right tilted	GSM	661/1880	1:8.3	0.043	0.05	30.25	31.00	1.189	0.051	22.3
Head Test Data at the worst case with Battery 3#										
Right tilted	GSM	661/1880	1:8.3	0.066	-0.01	30.25	31.00	1.189	0.078	22.3
Body worn Test data(Separate 15mm)										
Front side	GSM	661/1880	1:8.3	0.263	0.06	30.25	31.00	1.189	0.313	22.3
Back side	GSM	661/1880	1:8.3	0.254	-0.04	30.25	31.00	1.189	0.302	22.3
Front side	GPRS 2TS	661/1880	1:4.15	0.308	0.07	27.83	29.00	1.309	**0.403**	22.3
Back side	GPRS 2TS	661/1880	1:4.15	0.279	0.19	27.83	29.00	1.309	0.365	22.3
Front side	GPRS 2TS	512/1850.2	1:4.15	0.251	-0.04	27.81	29.00	1.315	0.330	22.3
Front side	GPRS 2TS	810/1909.8	1:4.15	0.305	0.05	27.79	29.00	1.321	0.403	22.3
Body worn Test Data at the worst case with Battery 2#										
Front side	GPRS 2TS	661/1880	1:4.15	0.273	0.07	27.83	29.00	1.309	0.357	22.3
Body worn Test Data at the worst case with Battery 3#										
Front side	GPRS 2TS	661/1880	1:4.15	0.270	0.01	27.83	29.00	1.309	0.353	22.3
Hotspot Test data(Separate 10mm)										
Front side	GPRS 2TS	661/1880	1:4.15	0.212	0.02	26.61	28.00	1.377	0.292	22.3
Back side	GPRS 2TS	661/1880	1:4.15	0.231	-0.09	26.61	28.00	1.377	0.318	22.3
Left side	GPRS 2TS	661/1880	1:4.15	0.066	-0.07	26.61	28.00	1.377	0.090	22.3
Right side	GPRS 2TS	661/1880	1:4.15	0.022	-0.06	26.61	28.00	1.377	0.030	22.3
Bottom side	GPRS 2TS	661/1880	1:4.15	0.403	-0.08	26.61	28.00	1.377	0.555	22.3
Bottom side	GPRS 2TS	512/1850.2	1:4.15	0.353	-0.06	26.69	28.00	1.352	0.477	22.3
Bottom side	GPRS 2TS	810/1909.8	1:4.15	0.517	0.09	26.51	28.00	1.409	**0.729**	22.3
Hotspot Test Data at the worst case with Battery 2#(10mm)										
Bottom side	GPRS 2TS	810/1909.8	1:4.15	0.517	-0.01	26.51	28.00	1.409	**0.729**	22.3
Hotspot Test Data at the worst case with Battery 3#(10mm)										
Bottom side	GPRS 2TS	810/1909.8	1:4.15	0.495	-0.11	26.51	28.00	1.409	**0.698**	22.3
Ant2 Test data										
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
Head Test data										
Left cheek	GSM	661/1880	1:8.3	0.366	0.11	27.96	28.50	1.132	0.414	22.3
Left tilted	GSM	661/1880	1:8.3	0.513	0.08	27.96	28.50	1.132	0.581	22.3
Right cheek	GSM	661/1880	1:8.3	0.447	0.10	26.98	27.50	1.127	0.504	22.3
Right tilted	GSM	661/1880	1:8.3	0.505	0.01	26.98	27.50	1.127	0.569	22.3
Left tilted	GSM	512/1850.2	1:8.3	0.279	0.06	27.92	28.50	1.143	0.319	22.3
Left tilted	GSM	810/1909.8	1:8.3	0.591	0.02	27.95	28.50	1.135	**0.671**	22.3
Head Test Data at the worst case with Battery 2#										
Left tilted	GSM	810/1909.8	1:8.3	0.584	0.01	27.95	28.50	1.135	0.663	22.3
Head Test Data at the worst case with Battery 3#										
Left tilted	GSM	810/1909.8	1:8.3	0.582	0.08	27.95	28.50	1.135	0.661	22.3

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Body worn Test data(Separate 15mm)										
Front side	GSM	661/1880	1:8.3	0.063	0.09	30.91	31.50	1.146	0.072	22.3
Back side	GSM	661/1880	1:8.3	0.086	0.06	30.91	31.50	1.146	0.098	22.3
Front side	GPRS 2TS	661/1880	1:4.15	0.202	0.17	28.85	29.50	1.161	0.235	22.3
Back side	GPRS 2TS	661/1880	1:4.15	0.274	0.13	28.85	29.50	1.161	0.318	22.3
Back side	GPRS 2TS	512/1850.2	1:4.15	0.260	0.15	28.84	29.50	1.164	0.303	22.3
Back side	GPRS 2TS	810/1909.8	1:4.15	0.272	0.01	28.87	29.50	1.156	0.314	22.3
Body worn Test Data at the worst case with Battery 2#										
Back side	GPRS 2TS	661/1880	1:4.15	0.267	0.03	28.85	29.50	1.161	0.310	22.3
Body worn Test Data at the worst case with Battery 3#										
Back side	GPRS 2TS	661/1880	1:4.15	0.266	0.04	28.85	29.50	1.161	**0.309**	22.3
Hotspot Test data(Separate 10mm)										
Front side	GPRS 2TS	661/1880	1:4.15	0.165	0.07	25.94	26.50	1.138	0.188	22.3
Back side	GPRS 2TS	661/1880	1:4.15	0.221	0.01	25.94	26.50	1.138	0.251	22.3
Left side	GPRS 2TS	661/1880	1:4.15	0.157	0.07	25.94	26.50	1.138	0.179	22.3
Right side	GPRS 2TS	661/1880	1:4.15	0.029	0.08	25.94	26.50	1.138	0.032	22.3
Top side	GPRS 2TS	661/1880	1:4.15	0.335	0.04	25.94	26.50	1.138	0.381	22.3
Top side	GPRS 2TS	512/1850.2	1:4.15	0.325	0.05	25.79	26.50	1.178	0.383	22.3
Top side	GPRS 2TS	810/1909.8	1:4.15	0.338	-0.05	25.89	26.50	1.151	**0.389**	22.3
Hotspot Test Data at the worst case with Battery 2#(10mm)										
Top side	GPRS 2TS	810/1909.8	1:4.15	0.335	-0.17	25.89	26.50	1.151	0.386	22.3
Hotspot Test Data at the worst case with Battery 3#(10mm)										
Top side	GPRS 2TS	810/1909.8	1:4.15	0.337	0.04	25.89	26.50	1.151	0.388	22.3

Table 20：SAR of GSM1900 for Head and Body(Original report E5/2018/20036).

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Ant1 Test data										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data at the worst case										
Right tilted	GSM	661/1880	1:8.3	0.056	-0.04	30.25	31.00	1.189	0.066	22.3
Body worn Test data at the worst case (Separate 15mm)										
Front side	GPRS 2TS	661/1880	1:4.15	0.250	-0.05	27.83	29.00	1.309	0.327	22.3
Hotspot Test data at the worst case (Separate 10mm)										
Bottom side	GPRS 2TS	810/1909.8	1:4.15	0.500	-0.10	24.60	26.00	1.380	0.690	22.3
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)10-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Product specific 10g SAR Test data sensor on(Separate 0mm)										
Bottom side	GPRS 2TS	661/1880	1:4.15	1.710	-0.14	26.81	28.00	1.315	2.249	22.3
Bottom side	GPRS 2TS	512/1850.2	1:4.15	1.680	0.03	26.89	28.00	1.291	2.169	22.3
Bottom side	GPRS 2TS	810/1909.8	1:4.15	1.720	-0.03	26.83	28.00	1.309	**2.252**	22.3
Product specific 10g SAR Test data sensor off(Separate 9mm)										
Bottom side	GPRS 2TS	661/1880	1:4.15	0.661	-0.09	27.83	29.00	1.309	0.865	22.3
Bottom side	GPRS 2TS	512/1850.2	1:4.15	0.880	-0.08	27.81	29.00	1.315	1.157	22.3
Bottom side	GPRS 2TS	810/1909.8	1:4.15	0.528	-0.08	27.79	29.00	1.321	0.698	22.3
Product specific 10g SAR Test data at the worst case with Battery 2# (Separate 0mm)										
Bottom side	GPRS 2TS	810/1909.8	1:4.15	1.650	-0.18	26.83	28.00	1.309	2.160	22.3
Product specific 10g SAR Test data at the worst case with Battery 3# (Separate 0mm)										
Bottom side	GPRS 2TS	810/1909.8	1:4.15	1.570	-0.06	26.83	28.00	1.309	2.055	22.3
Ant2 Test data										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data at the worst case										
Left tilted	GSM	810/1909.8	1:8.3	0.580	0.03	27.95	28.50	1.135	0.658	22.3
Body worn Test data at the worst case (Separate 15mm)										
Back side	GPRS 2TS	661/1880	1:4.15	0.109	-0.19	24.08	25.50	1.387	0.151	22.3
Hotspot Test data at the worst case (Separate 10mm)										
Top side	GPRS 2TS	810/1909.8	1:4.15	0.164	-0.03	21.12	22.50	1.374	0.225	22.3
Ant2 Additional Test data(simultaneous transmission with WIFI)										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data										
Left tilted	GSM	661/1880	1:8.3	0.273	0.03	24.97	25.50	1.130	0.308	22.3

Table 21：SAR of GSM1900 for Head, Body and Limb (Variant).

Note:

The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B

1) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

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8.3.3 SAR Result of WCDMA Band II

Ant1 Test data										
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	9400/1880	1:1	0.123	0.13	23.74	24.50	1.191	**0.147**	22.3
Left tilted	RMC	9400/1880	1:1	0.041	0.07	23.74	24.50	1.191	0.049	22.3
Right cheek	RMC	9400/1880	1:1	0.099	-0.08	23.74	24.50	1.191	0.118	22.3
Right tilted	RMC	9400/1880	1:1	0.079	0.17	23.74	24.50	1.191	0.094	22.3
Left cheek	RMC	9262/1852.4	1:1	0.122	0.08	23.77	24.50	1.183	0.144	22.3
Left cheek	RMC	9538/1907.6	1:1	0.117	-0.02	23.73	24.50	1.194	0.140	22.3
Head Test Data at the worst case with Battery 2#										
Left cheek	RMC	9400/1880	1:1	0.122	-0.05	23.74	24.50	1.191	0.145	22.3
Head Test Data at the worst case with Battery 3#										
Left cheek	RMC	9400/1880	1:1	0.119	0.08	23.74	24.50	1.191	0.142	22.3
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.411	0.09	23.74	24.50	1.191	0.490	22.3
Back side	RMC	9400/1880	1:1	0.408	0.17	23.74	24.50	1.191	0.486	22.3
Front side	RMC	9262/1852.4	1:1	0.373	-0.17	23.77	24.50	1.183	0.441	22.3
Front side	RMC	9538/1907.6	1:1	0.425	0.02	23.73	24.50	1.194	**0.507**	22.3
Body worn Test Data at the worst case with Battery 2#										
Front side	RMC	9538/1907.6	1:1	0.405	-0.05	23.73	24.50	1.194	0.484	22.3
Body worn Test Data at the worst case with Battery 3#										
Front side	RMC	9538/1907.6	1:1	0.421	-0.14	23.73	24.50	1.194	0.503	22.3
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.259	0.02	18.74	19.50	1.191	0.309	22.3
Back side	RMC	9400/1880	1:1	0.265	0.08	18.74	19.50	1.191	0.316	22.3
Left side	RMC	9400/1880	1:1	0.098	0.06	18.74	19.50	1.191	0.117	22.3
Right side	RMC	9400/1880	1:1	0.021	0.05	18.74	19.50	1.191	0.025	22.3
Bottom side	RMC	9400/1880	1:1	0.480	0.00	18.74	19.50	1.191	0.572	22.3
Bottom side	RMC	9262/1852.4	1:1	0.422	0.09	18.76	19.50	1.186	0.500	22.3
Bottom side	RMC	9538/1907.6	1:1	0.586	0.13	18.65	19.50	1.216	**0.713**	22.3
Hotspot Test Data at the worst case with Battery 2#(10mm)										
Bottom side	RMC	9538/1907.6	1:1	0.585	0.11	18.65	19.50	1.216	0.711	22.3
Hotspot Test Data at the worst case with Battery 3#(10mm)										
Bottom side	RMC	9538/1907.6	1:1	0.573	0.01	18.65	19.50	1.216	0.697	22.3
Ant2 Test data										
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	9400/1880	1:1	0.390	0.04	18.89	19.50	1.151	0.449	22.3
Left tilted	RMC	9400/1880	1:1	0.536	0.06	18.89	19.50	1.151	0.617	22.3
Right cheek	RMC	9400/1880	1:1	0.426	-0.07	17.41	18.00	1.146	0.488	22.3
Right tilted	RMC	9400/1880	1:1	0.473	-0.04	17.41	18.00	1.146	0.542	22.3
Left tilted	RMC	9262/1852.4	1:1	0.319	0.05	18.88	19.50	1.153	0.368	22.3
Left tilted	RMC	9538/1907.6	1:1	0.687	0.14	18.77	19.50	1.183	**0.813**	22.3
Head Test Data at the worst case with Battery 2#										
Left tilted	RMC	9538/1907.6	1:1	0.675	0.10	18.77	19.50	1.183	0.799	22.3
Head Test Data at the worst case with Battery 3#										
Left tilted	RMC	9538/1907.6	1:1	0.670	0.13	18.77	19.50	1.183	0.793	22.3
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.158	0.16	22.73	23.50	1.194	0.189	22.3
Back side	RMC	9400/1880	1:1	0.214	0.05	22.73	23.50	1.194	0.256	22.3

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Back side	RMC	9262/1852.4	1:1	0.183	0.18	22.67	23.50	1.211	0.222	22.3
Back side	RMC	9538/1907.6	1:1	0.284	0.01	22.54	23.50	1.247	**0.354**	22.3
Body worn Test Data at the worst case with Battery 2#										
Back side	RMC	9538/1907.6	1:1	0.258	0.09	22.54	23.50	1.247	0.322	22.3
Body worn Test Data at the worst case with Battery 3#										
Back side	RMC	9538/1907.6	1:1	0.252	0.01	22.54	23.50	1.247	0.314	22.3
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.121	0.05	19.23	20.00	1.194	0.144	22.3
Back side	RMC	9400/1880	1:1	0.172	0.08	19.23	20.00	1.194	0.205	22.3
Left side	RMC	9400/1880	1:1	0.103	0.03	19.23	20.00	1.194	0.123	22.3
Right side	RMC	9400/1880	1:1	0.028	0.01	19.23	20.00	1.194	0.033	22.3
Top side	RMC	9400/1880	1:1	0.241	0.09	19.23	20.00	1.194	0.288	22.3
Top side	RMC	9262/1852.4	1:1	0.218	-0.02	19.22	20.00	1.197	0.261	22.3
Top side	RMC	9538/1907.6	1:1	0.304	0.01	19.14	20.00	1.219	**0.371**	22.3
Hotspot Test Data at the worst case with Battery 2#(10mm)										
Top side	RMC	9538/1907.6	1:1	0.283	0.00	19.14	20.00	1.219	0.345	22.3
Hotspot Test Data at the worst case with Battery 3#(10mm)										
Top side	RMC	9538/1907.6	1:1	0.296	0.00	19.14	20.00	1.219	0.361	22.3
Ant2 Additional Test data(simultaneous transmission with WIFI)										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data										
Left tilted	RMC	9538/1907.6	1:1	0.322	0.04	15.32	16.00	1.169	**0.377**	22.3

Table 22：SAR of WCDMA Band II for Head and Body(Original report E5/2018/20036).

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Ant1 Test data										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data at the worst case										
Left cheek	RMC	9400/1880	1:1	0.130	0.06	23.74	24.50	1.191	**0.155**	22.3
Body worn Test data at the worst case (Separate 15mm)										
Front side	RMC	9538/1907.6	1:1	0.521	-0.07	23.73	24.50	1.194	**0.622**	22.3
Hotspot Test data at the worst case (Separate 10mm)										
Bottom side	RMC	9538/1907.6	1:1	0.710	-0.04	18.65	19.50	1.216	**0.863**	22.3
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)10-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Product specific 10g SAR Test data sensor on(Separate 0mm)										
Bottom side	RMC	9400/1880	1:1	1.670	-0.05	20.37	21.50	1.297	2.166	22.3
Bottom side	RMC	9262/1852.4	1:1	1.770	-0.08	20.30	21.50	1.318	**2.333**	22.3
Bottom side	RMC	9538/1907.6	1:1	1.660	-0.05	20.40	21.50	1.288	2.138	22.3
Product specific 10g SAR Test data sensor off(Separate 9mm)										
Bottom side	RMC	9400/1880	1:1	1.030	-0.04	23.74	24.50	1.191	1.227	22.3
Bottom side	RMC	9262/1852.4	1:1	0.934	-0.01	23.77	24.50	1.183	1.105	22.3
Bottom side	RMC	9538/1907.6	1:1	1.310	-0.11	23.73	24.50	1.194	1.564	22.3
Product specific 10g SAR Test data at the worst case with Battery 2#										
Bottom side	RMC	9262/1852.4	1:1	1.510	-0.04	20.30	21.50	1.318	1.991	22.3
Product specific 10g SAR Test data at the worst case with Battery 3#										
Bottom side	RMC	9262/1852.4	1:1	1.730	-0.02	20.30	21.50	1.318	2.281	22.3
Ant2 Test data										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data at the worst case										
Left tilted	RMC	9538/1907.6	1:1	0.654	0.04	17.77	19.00	1.327	**0.868**	22.3
Body worn Test data at the worst case (Separate 15mm)										
Back side	RMC	9538/1907.6	1:1	0.380	-0.04	22.54	23.50	1.247	**0.474**	22.3
Hotspot Test data at the worst case (Separate 10mm)										
Top side	RMC	9538/1907.6	1:1	0.457	-0.13	19.14	20.00	1.219	**0.557**	22.3

Table 23：SAR of WCDMA Band II for Head, Body and Limb(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B

2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0 W/kg for 10g) then testing at the other channels is not required for such test configuration(s).

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8.3.4 SAR Result of WCDMA Band IV

Ant1 Test data										
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	1412/1732.4	1:1	0.082	-0.05	23.31	24.00	1.172	0.096	22.3
Left tilted	RMC	1412/1732.4	1:1	0.029	-0.10	23.31	24.00	1.172	0.034	22.3
Right cheek	RMC	1412/1732.4	1:1	0.088	0.04	23.31	24.00	1.172	0.103	22.3
Right tilted	RMC	1412/1732.4	1:1	0.035	0.06	23.31	24.00	1.172	0.041	22.3
Right cheek	RMC	1312/1712.4	1:1	0.085	-0.06	23.29	24.00	1.178	0.100	22.3
Right cheek	RMC	1513/1752.6	1:1	0.088	0.06	23.36	24.00	1.159	0.101	22.3
Head Test Data at the worst case with Battery 2#										
Right cheek	RMC	1412/1732.4	1:1	0.113	0.06	23.31	24.00	1.172	**0.132**	22.3
Head Test Data at the worst case with Battery 3#										
Right cheek	RMC	1412/1732.4	1:1	0.104	0.09	23.31	24.00	1.172	0.122	22.3
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.393	-0.08	23.31	24.00	1.172	0.461	22.3
Back side	RMC	1412/1732.4	1:1	0.405	-0.04	23.31	24.00	1.172	0.475	22.3
Back side	RMC	1312/1712.4	1:1	0.421	-0.02	23.29	24.00	1.178	0.496	22.3
Back side	RMC	1513/1752.6	1:1	0.428	-0.05	23.36	24.00	1.159	**0.496**	22.3
Body worn Test Data at the worst case with Battery 2#										
Back side	RMC	1513/1752.6	1:1	0.324	0.00	23.36	24.00	1.159	0.375	22.3
Body worn Test Data at the worst case with Battery 3#										
Back side	RMC	1513/1752.6	1:1	0.283	0.06	23.36	24.00	1.159	0.328	22.3
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.296	0.02	18.18	19.00	1.208	0.358	22.3
Back side	RMC	1412/1732.4	1:1	0.260	-0.18	18.18	19.00	1.208	0.314	22.3
Left side	RMC	1412/1732.4	1:1	0.037	0.08	18.18	19.00	1.208	0.045	22.3
Right side	RMC	1412/1732.4	1:1	0.020	0.05	18.18	19.00	1.208	0.024	22.3
Bottom side	RMC	1412/1732.4	1:1	0.496	0.08	18.18	19.00	1.208	**0.599**	22.3
Bottom side	RMC	1312/1712.4	1:1	0.470	0.03	18.16	19.00	1.213	0.570	22.3
Bottom side	RMC	1513/1752.6	1:1	0.505	0.04	18.35	19.00	1.161	0.587	22.3
Hotspot Test Data at the worst case with Battery 2#										
Bottom side	RMC	1412/1732.4	1:1	0.395	0.01	18.18	19.00	1.208	0.477	22.3
Hotspot Test Data at the worst case with Battery 3#										
Bottom side	RMC	1412/1732.4	1:1	0.379	0.05	18.18	19.00	1.208	0.458	22.3
Ant2 Test data										
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp
Head Test data										
Left cheek	RMC	1412/1732.4	1:1	0.444	0.01	20.02	20.50	1.117	0.496	22.3
Left tilted	RMC	1412/1732.4	1:1	0.699	0.01	20.02	20.50	1.117	**0.781**	22.3
Right cheek	RMC	1412/1732.4	1:1	0.587	0.12	18.52	19.00	1.117	0.656	22.3
Right tilted	RMC	1412/1732.4	1:1	0.619	0.06	18.52	19.00	1.117	0.691	22.3
Left tilted	RMC	1312/1712.4	1:1	0.677	-0.06	19.98	20.50	1.127	0.763	22.3
Left tilted	RMC	1513/1752.6	1:1	0.684	-0.03	20.01	20.50	1.119	0.766	22.3
Head Test Data at the worst case with Battery 2#										
Left tilted	RMC	1412/1732.4	1:1	0.585	-0.01	20.02	20.50	1.117	0.653	22.3
Head Test Data at the worst case with Battery 3#										
Left tilted	RMC	1412/1732.4	1:1	0.622	-0.01	20.02	20.50	1.117	0.695	22.3
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.213	-0.01	22.33	23.00	1.167	0.249	22.3
Back side	RMC	1412/1732.4	1:1	0.291	0.03	22.33	23.00	1.167	0.340	22.3

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Back side	RMC	1312/1712.4	1:1	0.289	0.01	22.26	23.00	1.186	**0.343**	22.3
Back side	RMC	1513/1752.6	1:1	0.269	0.01	22.37	23.00	1.156	0.311	22.3
Body worn Test Data at the worst case with Battery 2#										
Back side	RMC	1312/1712.4	1:1	0.260	0.02	22.26	23.00	1.186	0.308	22.3
Body worn Test Data at the worst case with Battery 3#										
Back side	RMC	1312/1712.4	1:1	0.236	-0.14	22.26	23.00	1.186	0.280	22.3
Hotspot Test data(Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.185	0.07	19.41	20.00	1.146	0.212	22.3
Back side	RMC	1412/1732.4	1:1	0.246	-0.15	19.41	20.00	1.146	0.282	22.3
Left side	RMC	1412/1732.4	1:1	0.185	-0.07	19.41	20.00	1.146	0.212	22.3
Right side	RMC	1412/1732.4	1:1	0.022	-0.02	19.41	20.00	1.146	0.025	22.3
Top side	RMC	1412/1732.4	1:1	0.332	-0.06	19.41	20.00	1.146	0.380	22.3
Top side	RMC	1312/1712.4	1:1	0.323	-0.03	19.26	20.00	1.186	**0.383**	22.3
Top side	RMC	1513/1752.6	1:1	0.312	-0.02	19.38	20.00	1.153	0.360	22.3
Hotspot Test Data at the worst case with Battery 2#										
Top side	RMC	1312/1712.4	1:1	0.297	-0.01	19.26	20.00	1.186	0.352	22.3
Hotspot Test Data at the worst case with Battery 3#										
Top side	RMC	1312/1712.4	1:1	0.283	-0.08	19.26	20.00	1.186	0.336	22.3
Ant2 Additional Test data(simultaneous transmission with WIFI)										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data										
Left tilted	RMC	1412/1732.4	1:1	0.300	-0.02	17.15	17.50	1.084	**0.325**	22.3

Table 24：SAR of WCDMA Band IV for Head and Body(Original report E5/2018/20036).

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Ant1 Test data										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test Data at the worst case with Battery 2#										
Right cheek	RMC	1412/1732.4	1:1	0.103	0.03	23.31	24.00	1.172	0.121	22.3
Body worn Test data at the worst case (Separate 15mm)										
Back side	RMC	1513/1752.6	1:1	0.292	-0.09	23.36	24.00	1.159	0.338	22.3
Hotspot Test data at the worst case (Separate 10mm)										
Bottom side	RMC	1412/1732.4	1:1	0.368	-0.09	18.18	19.00	1.208	0.444	22.3
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)10-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Product specific 10g SAR Test data with sensor on (Separate 0mm)										
Bottom side	RMC	1412/1732.4	1:1	1.990	0.16	21.31	22.00	1.172	2.333	22.3
Bottom side	RMC	1312/1712.4	1:1	1.930	0.01	21.26	22.00	1.186	2.289	22.3
Bottom side	RMC	1513/1752.6	1:1	2.050	0.03	21.15	22.00	1.216	**2.493**	22.3
Bottom side-Repeat	RMC	1513/1752.6	1:1	2.000	0.04	21.15	22.00	1.216	2.432	22.3
Product specific 10g SAR Test data with sensor off (Separate 9mm)										
Bottom side	RMC	1412/1732.4	1:1	0.846	0.16	23.31	24.00	1.172	0.992	22.3
Bottom side	RMC	1312/1712.4	1:1	0.712	0.11	23.29	24.00	1.178	0.838	22.3
Bottom side	RMC	1513/1752.6	1:1	0.949	0.19	23.36	24.00	1.159	1.100	22.3
Product specific 10g SAR Test data at the worst case with Battery 2#										
Bottom side	RMC	1513/1752.6	1:1	1.800	0.04	21.15	22.00	1.216	2.189	22.3
Product specific 10g SAR Test data at the worst case with Battery 3#										
Bottom side	RMC	1513/1752.6	1:1	1.920	0.04	21.15	22.00	1.216	**2.335**	22.3
Ant2 Test data										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data at the worst case										
Left tilted	RMC	1412/1732.4	1:1	0.572	-0.11	20.02	20.50	1.117	0.639	22.3
Body worn Test data at the worst case (Separate 15mm)										
Back side	RMC	1312/1712.4	1:1	0.172	-0.11	22.26	23.00	1.186	0.204	22.3
Hotspot Test data at the worst case (Separate 10mm)										
Top side	RMC	1312/1712.4	1:1	0.210	-0.06	19.26	20.00	1.186	0.249	22.3

Table 25：SAR of WCDMA Band IV for Head, Body and Limb(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B

2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0 W/kg for 10g) then testing at the other channels is not required for such test configuration(s).

Test Position	**Channel/ Frequency (MHz)**	**Measured SAR (1g)**	**1st Repeated SAR (1g)**	**Ratio**	**2nd Repeated SAR (1g)**	**3rd Repeated SAR (1g)**
Bottom side	1513/1752.6	2.050	2.000	1.025	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

Table 26：SAR Measurement Variability Results

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8.3.5 SAR Result of WCDMA Band V

Ant1 Test data										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data										
Left cheek	RMC	4182/836.4	1:1	0.219	-0.02	23.66	24.50	1.213	0.266	22.1
Left tilted	RMC	4182/836.4	1:1	0.114	-0.15	23.66	24.50	1.213	0.138	22.1
Right cheek	RMC	4182/836.4	1:1	0.255	0.13	23.66	24.50	1.213	0.309	22.1
Right tilted	RMC	4182/836.4	1:1	0.116	0.09	23.66	24.50	1.213	0.141	22.1
Right cheek	RMC	4132/826.4	1:1	0.235	-0.11	23.61	24.50	1.227	0.288	22.1
Right cheek	RMC	4233/846.6	1:1	0.260	0.07	23.72	24.50	1.197	**0.311**	22.1
Head Test Data at the worst case with Battery 2#										
Right cheek	RMC	4233/846.6	1:1	0.236	0.14	23.72	24.50	1.197	0.282	22.1
Head Test Data at the worst case with Battery 3#										
Right cheek	RMC	4233/846.6	1:1	0.258	0.10	23.72	24.50	1.197	0.309	22.1
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.341	-0.14	23.66	24.50	1.213	0.414	22.1
Back side	RMC	4182/836.4	1:1	0.372	0.03	23.66	24.50	1.213	0.451	22.1
Back side	RMC	4132/826.4	1:1	0.345	0.04	23.61	24.50	1.227	0.423	22.1
Back side	RMC	4233/846.6	1:1	0.371	0.06	23.72	24.50	1.197	0.444	22.1
Body worn Test Data at the worst case with Battery 2#										
Back side	RMC	4182/836.4	1:1	0.380	0.06	23.66	24.50	1.213	0.461	22.1
Body worn Test Data at the worst case with Battery 3#										
Back side	RMC	4182/836.4	1:1	0.408	0.06	23.66	24.50	1.213	**0.495**	22.1
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.497	-0.07	23.66	24.50	1.213	0.603	22.1
Back side	RMC	4182/836.4	1:1	0.557	0.06	23.66	24.50	1.213	0.676	22.1
Left side	RMC	4182/836.4	1:1	0.101	-0.15	23.66	24.50	1.213	0.123	22.1
Right side	RMC	4182/836.4	1:1	0.369	-0.07	23.66	24.50	1.213	0.448	22.1
Bottom side	RMC	4182/836.4	1:1	0.317	-0.04	23.66	24.50	1.213	0.385	22.1
Back side	RMC	4132/826.4	1:1	0.528	0.08	23.61	24.50	1.227	0.648	22.1
Back side	RMC	4233/846.6	1:1	0.572	0.05	23.72	24.50	1.197	0.685	22.1
Hotspot Test Data at the worst case with Battery 2#										
Back side	RMC	4233/846.6	1:1	0.609	0.06	23.72	24.50	1.197	**0.729**	22.1
Hotspot Test Data at the worst case with Battery 3#										
Back side	RMC	4233/846.6	1:1	0.600	0.06	23.72	24.50	1.197	0.718	22.1
Ant2 Test data										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data										
Left cheek	RMC	4182/836.4	1:1	0.425	0.03	19.29	20.50	1.321	0.562	22.1
Left tilted	RMC	4182/836.4	1:1	0.345	0.16	19.29	20.50	1.321	0.456	22.1
Right cheek	RMC	4182/836.4	1:1	0.373	-0.08	19.29	20.50	1.321	0.493	22.1
Right tilted	RMC	4182/836.4	1:1	0.327	0.07	19.29	20.50	1.321	0.432	22.1
Left cheek	RMC	4132/826.4	1:1	0.432	0.03	19.40	20.50	1.288	0.557	22.1
Left cheek	RMC	4233/846.6	1:1	0.433	0.10	19.30	20.50	1.318	**0.571**	22.1
Head Test Data at the worst case with Battery 2#										
Left cheek	RMC	4233/846.6	1:1	0.379	-0.03	19.30	20.50	1.318	0.500	22.1
Head Test Data at the worst case with Battery 3#										
Left cheek	RMC	4233/846.6	1:1	0.392	-0.07	19.30	20.50	1.318	0.517	22.1
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.175	0.06	23.28	24.50	1.324	0.232	22.1
Back side	RMC	4182/836.4	1:1	0.179	-0.09	23.28	24.50	1.324	0.237	22.1

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Back side	RMC	4132/826.4	1:1	0.201	-0.09	23.35	24.50	1.303	**0.262**	22.1
Back side	RMC	4233/846.6	1:1	0.169	-0.10	23.32	24.50	1.312	0.222	22.1
Body worn Test Data at the worst case with Battery 2#										
Back side	RMC	4132/826.4	1:1	0.154	-0.12	23.35	24.50	1.303	0.201	22.1
Body worn Test Data at the worst case with Battery 3#										
Back side	RMC	4132/826.4	1:1	0.160	-0.07	23.35	24.50	1.303	0.209	22.1
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.174	0.05	20.26	21.50	1.330	0.231	22.1
Back side	RMC	4182/836.4	1:1	0.159	-0.09	20.26	21.50	1.330	0.212	22.1
Left side	RMC	4182/836.4	1:1	0.055	0.13	20.26	21.50	1.330	0.073	22.1
Right side	RMC	4182/836.4	1:1	0.011	-0.12	20.26	21.50	1.330	0.015	22.1
Top side	RMC	4182/836.4	1:1	0.122	-0.06	20.26	21.50	1.330	0.162	22.1
Front side	RMC	4132/826.4	1:1	0.170	-0.14	20.34	21.50	1.306	0.222	22.1
Front side	RMC	4233/846.6	1:1	0.148	0.10	20.27	21.50	1.327	0.196	22.1
Hotspot Test Data at the worst case with Battery 2#										
Front side	RMC	4182/836.4	1:1	0.166	-0.01	20.26	21.50	1.330	0.221	22.1
Hotspot Test Data at the worst case with Battery 3#										
Front side	RMC	4182/836.4	1:1	0.178	0.03	20.26	21.50	1.330	**0.237**	22.1

Table 27：SAR of WCDMA Band V for Head and Body(Original report E5/2018/20036).

Ant1 Test data										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data at the worst case										
Right cheek	RMC	4233/846.6	1:1	0.208	-0.16	23.72	24.50	1.197	0.249	22.1
Body worn Test Data at the worst case with Battery 3#										
Back side	RMC	4182/836.4	1:1	0.321	0.05	23.66	24.50	1.213	0.389	22.1
Hotspot Test Data at the worst case with Battery 2#										
Back side	RMC	4233/846.6	1:1	0.551	0.03	23.72	24.50	1.197	0.659	22.1
Ant2 Test data										
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp**
Head Test data at the worst case										
Left cheek	RMC	4233/846.6	1:1	0.397	0.17	19.30	20.50	1.318	0.523	22.1
Body worn Test data at the worst case (Separate 15mm)										
Back side	RMC	4132/826.4	1:1	0.172	0.01	23.35	24.50	1.303	0.224	22.1
Hotspot Test Data at the worst case with Battery 3#										
Front side	RMC	4182/836.4	1:1	0.161	0.14	20.26	21.50	1.330	0.214	22.1

Table 28：SAR of WCDMA Band V for Head and Body(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B

2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

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8.3.6 SAR Result of LTE Band 2

Ant1 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	19100/1900	1:1	0.117	0.09	23.65	24.00	1.084	0.127	22.3
Left tilted	20	QPSK 1RB_0	19100/1900	1:1	0.033	0.04	23.65	24.00	1.084	0.035	22.3
Right cheek	20	QPSK 1RB_0	19100/1900	1:1	0.088	0.01	23.65	24.00	1.084	0.096	22.3
Right tilted	20	QPSK 1RB_0	19100/1900	1:1	0.077	0.03	23.65	24.00	1.084	0.084	22.3
Left cheek	20	QPSK 1RB_0	18700/1860	1:1	0.126	-0.02	23.61	24.00	1.094	**0.138**	22.3
Left cheek	20	QPSK 1RB_0	18900/1880	1:1	0.033	0.04	23.54	24.00	1.112	0.037	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	19100/1900	1:1	0.088	0.01	22.48	23.00	1.127	0.099	22.3
Left tilted	20	QPSK 50RB_0	19100/1900	1:1	0.021	-0.02	22.48	23.00	1.127	0.024	22.3
Right cheek	20	QPSK 50RB_0	19100/1900	1:1	0.066	0.15	22.48	23.00	1.127	0.074	22.3
Right tilted	20	QPSK 50RB_0	19100/1900	1:1	0.052	-0.02	22.48	23.00	1.127	0.058	22.3
Head Test Data at the worst case with Battery 2#											
Left cheek	20	QPSK 1RB_0	18700/1860	1:1	0.125	-0.10	23.61	24.00	1.094	0.137	22.3
Head Test Data at the worst case with Battery 3#											
Left cheek	20	QPSK 1RB_0	18700/1860	1:1	0.120	0.07	23.61	24.00	1.094	0.131	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_0	19100/1900	1:1	0.541	0.03	23.65	24.00	1.084	0.586	22.3
Back side	20	QPSK 1RB_0	19100/1900	1:1	0.558	0.03	23.65	24.00	1.084	**0.605**	22.3
Back side	20	QPSK 1RB_0	18700/1860	1:1	0.258	-0.17	23.61	24.00	1.094	0.282	22.3
Back side	20	QPSK 1RB_0	18900/1880	1:1	0.396	-0.03	23.54	24.00	1.112	0.440	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	19100/1900	1:1	0.424	0.05	22.48	23.00	1.127	0.478	22.3
Back side	20	QPSK 50RB_0	19100/1900	1:1	0.436	-0.02	22.48	23.00	1.127	0.491	22.3
Body worn Test Data at the worst case with Battery 2#											
Back side	20	QPSK 1RB_0	19100/1900	1:1	0.557	-0.08	23.65	24.00	1.084	0.604	22.3
Body worn Test Data at the worst case with Battery 3#											
Back side	20	QPSK 1RB_0	19100/1900	1:1	0.544	-0.02	23.65	24.00	1.084	0.590	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	18700/1860	1:1	0.307	0.13	18.62	19.00	1.091	0.335	22.3
Back side	20	QPSK 1RB_0	18700/1860	1:1	0.303	0.04	18.62	19.00	1.091	0.331	22.3
Left side	20	QPSK 1RB_0	18700/1860	1:1	0.102	0.04	18.62	19.00	1.091	0.111	22.3
Right side	20	QPSK 1RB_0	18700/1860	1:1	0.059	0.04	18.62	19.00	1.091	0.064	22.3
Bottom side	20	QPSK 1RB_0	18700/1860	1:1	0.535	0.10	18.62	19.00	1.091	0.584	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	18700/1860	1:1	0.307	0.14	18.50	19.00	1.122	0.344	22.3
Back side	20	QPSK 50RB_0	18700/1860	1:1	0.302	0.08	18.50	19.00	1.122	0.339	22.3
Left side	20	QPSK 50RB_0	18700/1860	1:1	0.101	0.07	18.50	19.00	1.122	0.113	22.3
Right side	20	QPSK 50RB_0	18700/1860	1:1	0.035	0.04	18.50	19.00	1.122	0.039	22.3
Bottom side	20	QPSK 50RB_0	18700/1860	1:1	0.590	0.12	18.50	19.00	1.122	0.662	22.3
Bottom side	20	QPSK 50RB_0	18900/1880	1:1	0.623	0.04	18.45	19.00	1.135	0.707	22.3
Bottom side	20	QPSK 50RB_0	19100/1900	1:1	0.640	0.07	18.44	19.00	1.138	**0.728**	22.3
Hotspot Test Data at the worst case with Battery 2#											
Bottom side	20	QPSK 50RB_0	19100/1900	1:1	0.636	-0.06	18.44	19.00	1.138	0.724	22.3
Hotspot Test Data at the worst case with Battery 3#											
Bottom side	20	QPSK 50RB_0	19100/1900	1:1	0.621	-0.02	18.44	19.00	1.138	0.706	22.3
Ant2 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	19100/1900	1:1	0.371	-0.08	19.18	19.50	1.076	0.399	22.3
Left tilted	20	QPSK 1RB_0	19100/1900	1:1	0.543	-0.15	19.18	19.50	1.076	0.585	22.3

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Right cheek	20	QPSK 1RB_0	18700/1860	1:1	0.335	0.03	17.69	18.00	1.074	0.360	22.3
Right tilted	20	QPSK 1RB_0	18700/1860	1:1	0.380	-0.03	17.69	18.00	1.074	0.408	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	19100/1900	1:1	0.392	-0.08	19.04	19.50	1.112	0.436	22.3
Left tilted	20	QPSK 50RB_0	19100/1900	1:1	0.711	0.19	19.04	19.50	1.112	**0.790**	22.3
Right cheek	20	QPSK 50RB_0	18700/1860	1:1	0.344	0.14	17.61	18.00	1.094	0.376	22.3
Right tilted	20	QPSK 50RB_0	18700/1860	1:1	0.393	-0.02	17.61	18.00	1.094	0.430	22.3
Left tilted	20	QPSK 50RB_0	18700/1860	1:1	0.276	0.03	19.00	19.50	1.122	0.310	22.3
Left tilted	20	QPSK 50RB_0	18900/1880	1:1	0.566	-0.03	18.99	19.50	1.125	0.637	22.3
Head Test Data at the worst case with Battery 2#											
Left tilted	20	QPSK 50RB_0	19100/1900	1:1	0.607	0.13	19.04	19.50	1.112	0.675	22.3
Head Test Data at the worst case with Battery 3#											
Left tilted	20	QPSK 50RB_0	19100/1900	1:1	0.705	0.06	19.04	19.50	1.112	0.784	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_0	18700/1860	1:1	0.125	0.03	22.56	23.00	1.107	0.138	22.3
Back side	20	QPSK 1RB_0	18700/1860	1:1	0.176	0.01	22.56	23.00	1.107	0.195	22.3
Back side	20	QPSK 1RB_0	18900/1880	1:1	0.187	0.09	22.43	23.00	1.140	0.213	22.3
Back side	20	QPSK 1RB_0	19100/1900	1:1	0.228	0.16	22.48	23.00	1.127	**0.257**	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	18700/1860	1:1	0.121	0.02	22.49	23.00	1.125	0.136	22.3
Back side	20	QPSK 50RB_0	18700/1860	1:1	0.171	0.06	22.49	23.00	1.125	0.192	22.3
Body worn Test data at the worst case with Battery 2#											
Back side	20	QPSK 1RB_0	19100/1900	1:1	0.217	0.00	22.48	23.00	1.127	0.245	22.3
Body worn Test data at the worst case with Battery 3#											
Back side	20	QPSK 1RB_0	19100/1900	1:1	0.206	0.00	22.48	23.00	1.127	0.232	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	18700/1860	1:1	0.096	0.02	19.65	20.00	1.084	0.104	22.3
Back side	20	QPSK 1RB_0	18700/1860	1:1	0.160	0.05	19.65	20.00	1.084	0.173	22.3
Left side	20	QPSK 1RB_0	18700/1860	1:1	0.115	0.09	19.65	20.00	1.084	0.125	22.3
Right side	20	QPSK 1RB_0	18700/1860	1:1	0.026	0.09	19.65	20.00	1.084	0.028	22.3
Top side	20	QPSK 1RB_0	18700/1860	1:1	0.233	-0.10	19.65	20.00	1.084	0.253	22.3
Top side	20	QPSK 1RB_0	18900/1880	1:1	0.242	0.06	19.54	20.00	1.112	0.269	22.3
Top side	20	QPSK 1RB_0	19100/1900	1:1	0.267	0.08	19.53	20.00	1.114	**0.298**	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	18700/1860	1:1	0.092	0.04	19.44	20.00	1.138	0.104	22.3
Back side	20	QPSK 50RB_0	18700/1860	1:1	0.156	0.18	19.44	20.00	1.138	0.177	22.3
Left side	20	QPSK 50RB_0	18700/1860	1:1	0.109	0.04	19.44	20.00	1.138	0.124	22.3
Right side	20	QPSK 50RB_0	18700/1860	1:1	0.025	0.00	19.44	20.00	1.138	0.028	22.3
Top side	20	QPSK 50RB_0	18700/1860	1:1	0.221	-0.02	19.44	20.00	1.138	0.251	22.3
Hotspot Test Data at the worst case with Battery 2#											
Top side	20	QPSK 1RB_0	19100/1900	1:1	0.262	0.02	19.53	20.00	1.114	0.292	22.3
Hotspot Test Data at the worst case with Battery 3#											
Top side	20	QPSK 1RB_0	19100/1900	1:1	0.263	0.02	19.53	20.00	1.114	0.293	22.3
Ant2 Additional Test data(simultaneous transmission with WIFI)											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data(1RB)											
Left tilted	20	QPSK 1RB_99	18700/1860	1:1	0.308	0.01	15.72	16.50	1.197	**0.369**	22.3

Table 29：SAR of LTE Band 2 for Head and Body (Original report E5/2018/20036).

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Ant1 Test data											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data at the worst case (1RB)											
Left cheek	20	QPSK 1RB_0	18700/1860	1:1	0.108	-0.03	23.61	24.00	1.094	0.118	22.3
Body worn Test data at the worst case (Separate 15mm 1RB)											
Back side	20	QPSK 1RB_0	19100/1900	1:1	0.570	-0.09	23.65	24.00	1.084	**0.618**	22.3
Hotspot Test data at the worst case (Separate 10mm 50%RB)											
Bottom side	20	QPSK 50RB_0	19100/1900	1:1	0.792	-0.10	18.44	19.00	1.138	**0.901**	22.3
Hotspot Test data at the worst case (Separate 10mm 100%RB)											
Bottom side	20	QPSK 100RB_0	18700/1860	1:1	0.499	-0.19	18.44	19.00	1.138	0.568	22.3
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)10-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Product specific 10g SAR Test data with sensor on (Separate 0mm 1RB)											
Bottom side	20	QPSK 1RB_50	18900/1880	1:1	1.680	-0.10	20.56	21.50	1.242	2.086	22.3
Bottom side	20	QPSK 1RB_99	18700/1860	1:1	1.510	-0.06	20.53	21.50	1.250	1.888	22.3
Bottom side	20	QPSK 1RB_99	19100/1900	1:1	1.750	-0.06	20.56	21.50	1.242	2.173	22.3
Product specific 10g SAR Test data with sensor on (Separate 0mm 50%RB)											
Bottom side	20	QPSK 50RB_0	19100/1900	1:1	1.600	-0.04	20.66	21.50	1.213	1.941	22.3
Product specific 10g SAR Test data with sensor on (Separate 0mm 100%RB)											
Bottom side	20	QPSK 100RB_0	18900/1880	1:1	1.770	-0.09	20.61	21.50	1.227	**2.173**	22.3
Product specific 10g SAR Test data with sensor off (Separate 9mm 1R)											
Bottom side	20	QPSK 1RB_0	19100/1900	1:1	1.150	-0.07	23.65	24.00	1.084	1.247	22.3
Bottom side	20	QPSK 1RB_0	18700/1860	1:1	0.734	-0.03	23.61	24.00	1.094	0.803	22.3
Bottom side	20	QPSK 1RB_0	18900/1880	1:1	0.795	-0.09	23.54	24.00	1.112	0.884	22.3
Product specific 10g SAR Test data with sensor off (Separate 9mm 50%RB)											
Bottom side	20	QPSK 50RB_0	19100/1900	1:1	1.180	0.03	22.48	23.00	1.127	1.330	22.3
Product specific 10g SAR Test Data at the worst case with Battery 2#(Separate 0mm 100%RB)											
Bottom side	20	QPSK 100RB_0	18900/1880	1:1	1.500	0.02	20.61	21.50	1.227	1.841	22.3
Product specific 10g SAR Test Data at the worst case with Battery 3#(Separate 0mm 100%RB)											
Bottom side	20	QPSK 100RB_0	18900/1880	1:1	1.640	-0.04	20.61	21.50	1.227	2.013	22.3
Ant2 Test data											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data at the worst case (50%RB)											
Left tilted	20	QPSK 50RB_0	19100/1900	1:1	0.655	0.07	19.04	19.50	1.112	0.728	22.3
Body worn Test data at the worst case (Separate 15mm 1RB)											
Back side	20	QPSK 1RB_0	19100/1900	1:1	0.359	-0.02	22.48	23.00	1.127	**0.405**	22.3
Hotspot Test data at the worst case (Separate 10mm 1RB)											
Top side	20	QPSK 1RB_0	19100/1900	1:1	0.377	-0.07	19.53	20.00	1.114	**0.420**	22.3

Table 30：SAR of LTE Band 2 for Head, Body and Limb(Variant).
Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B

2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0 W/kg for 10g) then testing at the other channels is not required for such test configuration(s).

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8.3.7 SAR Result of LTE Band 4

Ant1 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	20300/1745	1:1	0.089	-0.09	23.18	24.00	1.208	0.108	22.3
Left tilted	20	QPSK 1RB_0	20300/1745	1:1	0.024	0.17	23.18	24.00	1.208	0.029	22.3
Right cheek	20	QPSK 1RB_0	20300/1745	1:1	0.089	0.05	23.18	24.00	1.208	0.107	22.3
Right tilted	20	QPSK 1RB_0	20300/1745	1:1	0.037	0.05	23.18	24.00	1.208	0.045	22.3
Left cheek	20	QPSK 1RB_0	20050/1720	1:1	0.085	-0.03	23.13	24.00	1.222	0.104	22.3
Left cheek	20	QPSK 1RB_0	20175/1732.5	1:1	0.082	0.08	23.16	24.00	1.213	0.099	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	20300/1745	1:1	0.057	-0.08	21.54	23.00	1.400	0.080	22.3
Left tilted	20	QPSK 50RB_0	20300/1745	1:1	0.013	0.01	21.54	23.00	1.400	0.017	22.3
Right cheek	20	QPSK 50RB_0	20300/1745	1:1	0.058	-0.03	21.54	23.00	1.400	0.081	22.3
Right tilted	20	QPSK 50RB_0	20300/1745	1:1	0.026	0.03	21.54	23.00	1.400	0.036	22.3
Head Test Data at the worst case with Battery 2#											
Left cheek	20	QPSK 1RB_0	20300/1745	1:1	0.121	0.03	23.18	24.00	1.208	**0.146**	22.3
Head Test Data at the worst case with Battery 3#											
Left cheek	20	QPSK 1RB_0	20300/1745	1:1	0.118	0.01	23.18	24.00	1.208	0.143	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_0	20300/1745	1:1	0.428	-0.01	23.18	24.00	1.208	**0.517**	22.3
Back side	20	QPSK 1RB_0	20300/1745	1:1	0.425	0.05	23.18	24.00	1.208	0.513	22.3
Front side	20	QPSK 1RB_0	20050/1720	1:1	0.389	-0.10	23.13	24.00	1.222	0.475	22.3
Front side	20	QPSK 1RB_0	20175/1732.5	1:1	0.390	-0.06	23.16	24.00	1.213	0.473	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	20300/1745	1:1	0.293	-0.04	21.54	23.00	1.400	0.410	22.3
Back side	20	QPSK 50RB_0	20300/1745	1:1	0.291	0.00	21.54	23.00	1.400	0.407	22.3
Body worn Test Data at the worst case with Battery 2#											
Front side	20	QPSK 1RB_0	20300/1745	1:1	0.387	-0.14	23.18	24.00	1.208	0.467	22.3
Body worn Test Data at the worst case with Battery 3#											
Front side	20	QPSK 1RB_0	20300/1745	1:1	0.361	-0.16	23.18	24.00	1.208	0.436	22.3
Hotspot Test data (Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	20175/1732.5	1:1	0.234	-0.04	17.69	18.50	1.205	0.282	22.3
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.256	-0.11	17.69	18.50	1.205	0.308	22.3
Left side	20	QPSK 1RB_0	20175/1732.5	1:1	0.033	-0.06	17.69	18.50	1.205	0.040	22.3
Right side	20	QPSK 1RB_0	20175/1732.5	1:1	0.018	-0.04	17.69	18.50	1.205	0.021	22.3
Bottom side	20	QPSK 1RB_0	20175/1732.5	1:1	0.465	0.03	17.69	18.50	1.205	0.560	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	20175/1732.5	1:1	0.231	-0.04	17.53	18.50	1.250	0.289	22.3
Back side	20	QPSK 50RB_0	20175/1732.5	1:1	0.251	0.06	17.53	18.50	1.250	0.314	22.3
Left side	20	QPSK 50RB_0	20175/1732.5	1:1	0.033	-0.14	17.53	18.50	1.250	0.042	22.3
Right side	20	QPSK 50RB_0	20175/1732.5	1:1	0.026	-0.01	17.53	18.50	1.250	0.033	22.3
Bottom side	20	QPSK 50RB_0	20175/1732.5	1:1	0.465	0.02	17.53	18.50	1.250	0.581	22.3
Bottom side	20	QPSK 50RB_0	20050/1720	1:1	0.448	0.01	17.49	18.50	1.262	0.565	22.3
Bottom side	20	QPSK 50RB_0	20300/1745	1:1	0.468	0.02	17.52	18.50	1.253	**0.586**	22.3
Hotspot Test Data at the worst case with Battery 2#											
Bottom side	20	QPSK 50RB_0	20300/1745	1:1	0.380	0.05	17.52	18.50	1.253	0.476	22.3
Hotspot Test Data at the worst case with Battery 3#											
Bottom side	20	QPSK 50RB_0	20300/1745	1:1	0.366	0.07	17.52	18.50	1.253	0.459	22.3
Ant2 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_0	20050/1720	1:1	0.457	-0.03	20.28	21.00	1.180	0.539	22.3
Left tilted	20	QPSK 1RB_0	20050/1720	1:1	0.763	0.00	20.28	21.00	1.180	0.901	22.3

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Right cheek	20	QPSK 1RB_0	20050/1720	1:1	0.625	0.16	18.26	19.00	1.186	0.741	22.3
Right tilted	20	QPSK 1RB_0	20050/1720	1:1	0.646	-0.01	18.26	19.00	1.186	0.766	22.3
Left tilted	20	QPSK 1RB_0	20175/1732.5	1:1	0.794	0.01	20.11	21.00	1.227	**0.975**	22.3
Left tilted	20	QPSK 1RB_0	20300/1745	1:1	0.756	-0.01	20.25	21.00	1.189	0.899	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	20050/1720	1:1	0.462	0.01	20.18	21.00	1.208	0.558	22.3
Left tilted	20	QPSK 50RB_0	20050/1720	1:1	0.774	0.02	20.18	21.00	1.208	0.935	22.3
Right cheek	20	QPSK 50RB_25	20050/1720	1:1	0.615	0.03	18.12	19.00	1.225	0.753	22.3
Right tilted	20	QPSK 50RB_25	20050/1720	1:1	0.644	0.03	18.12	19.00	1.225	0.789	22.3
Left tilted	20	QPSK 50RB_0	20175/1732.5	1:1	0.785	-0.07	20.08	21.00	1.236	0.970	22.3
Left tilted	20	QPSK 50RB_0	20300/1745	1:1	0.784	-0.07	20.13	21.00	1.222	0.958	22.3
Head Test data(100%RB)											
Left tilted	20	QPSK 100RB_0	20050/1720	1:1	0.672	0.02	20.10	21.00	1.230	0.827	22.3
Head Test Data at the worst case with Battery 2#											
Left tilted	20	QPSK 1RB_0	20175/1732.5	1:1	0.565	0.09	20.11	21.00	1.227	0.694	22.3
Head Test Data at the worst case with Battery 3#											
Left tilted	20	QPSK 1RB_0	20175/1732.5	1:1	0.655	0.04	20.11	21.00	1.227	0.804	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_0	20175/1732.5	1:1	0.248	-0.14	22.70	23.50	1.202	0.298	22.3
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.340	-0.05	22.70	23.50	1.202	**0.409**	22.3
Back side	20	QPSK 1RB_0	20050/1720	1:1	0.326	-0.01	22.56	23.50	1.242	0.405	22.3
Back side	20	QPSK 1RB_0	20300/1745	1:1	0.321	-0.10	22.53	23.50	1.250	0.401	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	20050/1720	1:1	0.191	-0.03	21.59	23.00	1.384	0.264	22.3
Back side	20	QPSK 50RB_0	20050/1720	1:1	0.256	0.03	21.59	23.00	1.384	0.354	22.3
Body worn Test Data at the worst case with Battery 2#											
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.281	-0.02	22.70	23.50	1.202	0.338	22.3
Body worn Test Data at the worst case with Battery 3#											
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.302	-0.07	22.70	23.50	1.202	0.363	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	20050/1720	1:1	0.211	-0.09	19.75	20.50	1.189	0.251	22.3
Back side	20	QPSK 1RB_0	20050/1720	1:1	0.291	-0.13	19.75	20.50	1.189	0.346	22.3
Left side	20	QPSK 1RB_0	20050/1720	1:1	0.257	-0.07	19.75	20.50	1.189	0.305	22.3
Right side	20	QPSK 1RB_0	20050/1720	1:1	0.025	-0.06	19.75	20.50	1.189	0.029	22.3
Top side	20	QPSK 1RB_0	20050/1720	1:1	0.374	-0.05	19.75	20.50	1.189	0.444	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	20050/1720	1:1	0.208	-0.18	19.54	20.50	1.247	0.259	22.3
Back side	20	QPSK 50RB_0	20050/1720	1:1	0.289	-0.17	19.54	20.50	1.247	0.360	22.3
Left side	20	QPSK 50RB_0	20050/1720	1:1	0.257	-0.05	19.54	20.50	1.247	0.321	22.3
Right side	20	QPSK 50RB_0	20050/1720	1:1	0.026	-0.03	19.54	20.50	1.247	0.032	22.3
Top side	20	QPSK 50RB_0	20050/1720	1:1	0.373	-0.04	19.54	20.50	1.247	0.465	22.3
Top side	20	QPSK 50RB_0	20175/1732.5	1:1	0.384	-0.01	19.53	20.50	1.250	0.480	22.3
Top side	20	QPSK 50RB_0	20300/1745	1:1	0.381	-0.01	19.47	20.50	1.268	**0.483**	22.3
Hotspot Test Data at the worst case with Battery 2#											
Top side	20	QPSK 50RB_0	20300/1745	1:1	0.336	-0.05	19.47	20.50	1.268	0.426	22.3
Hotspot Test Data at the worst case with Battery 3#											
Top side	20	QPSK 50RB_0	20300/1745	1:1	0.334	-0.01	19.47	20.50	1.268	0.423	22.3
Ant2 Additional Test data(simultaneous transmission with WIFI)											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data(1RB)											
Left tilted	20	QPSK 1RB_0	20050/1720	1:1	0.334	-0.04	17.15	18.00	1.216	0.406	22.3
Right tilted	20	QPSK 1RB_0	20050/1720	1:1	0.299	0.02	15.15	16.00	1.216	0.364	22.3

Table 31：SAR of LTE Band 4 for Head and Body (Original report E5/2018/20036).

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Ant1 Test data											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test Data at the worst case with Battery 2#											
Left cheek	20	QPSK 1RB_0	20300/1745	1:1	0.119	0.02	23.18	24.00	1.208	0.144	22.3
Body worn Test data at the worst case (Separate 15mm 1RB)											
Front side	20	QPSK 1RB_0	20300/1745	1:1	0.359	-0.06	23.18	24.00	1.208	0.434	22.3
Hotspot Test data at the worst case (Separate 10mm 50%RB)											
Bottom side	20	QPSK 50RB_0	20300/1745	1:1	0.400	0.13	17.52	18.50	1.253	0.501	22.3
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)10-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Product specific 10g SAR Test data with sensor on (Separate 0mm 1RB)											
Bottom side	20	QPSK 1RB_0	20300/1745	1:1	2.060	0.02	20.89	22.00	1.291	**2.660**	22.3
Bottom side	20	QPSK 1RB_0	20050/1720	1:1	1.560	0.08	20.73	22.00	1.340	2.090	22.3
Bottom side	20	QPSK 1RB_99	20175/1732.5	1:1	1.610	0.04	20.87	22.00	1.297	2.088	22.3
Bottom side-Repeat	20	QPSK 1RB_0	20300/1745	1:1	2.010	0.05	20.89	22.00	1.291	2.595	22.3
Product specific 10g SAR Test data with sensor on (Separate 0mm 50%RB)											
Bottom side	20	QPSK 50RB_0	20300/1745	1:1	1.850	0.05	21.04	22.00	1.247	2.308	22.3
Bottom side	20	QPSK 50RB_0	20050/1720	1:1	1.810	0.09	20.70	22.00	1.349	2.442	22.3
Bottom side	20	QPSK 50RB_50	20175/1732.5	1:1	1.920	0.01	20.77	22.00	1.327	2.549	22.3
Product specific 10g SAR Test data with sensor on (Separate 0mm 100%RB)											
Bottom side	20	QPSK 100RB_0	20300/1745	1:1	1.930	0.09	21.00	22.00	1.259	2.430	22.3
Product specific 10g SAR Test data with sensor off (Separate 9mm 1RB)											
Bottom side	20	QPSK 1RB_0	20300/1745	1:1	0.780	0.03	23.18	24.00	1.208	0.942	22.3
Bottom side	20	QPSK 1RB_0	20050/1720	1:1	0.551	0.10	23.13	24.00	1.222	0.673	22.3
Bottom side	20	QPSK 1RB_0	20175/1732.5	1:1	0.538	0.11	23.16	24.00	1.213	0.653	22.3
Product specific 10g SAR Test data with sensor off (Separate 9mm 50%RB)											
Bottom side	20	QPSK 50RB_0	20300/1745	1:1	0.604	0.12	21.54	23.00	1.400	0.845	22.3
Product specific 10g SAR Test Data at the worst case with Battery 2#(Separate 0mm)											
Bottom side	20	QPSK 1RB_0	20300/1745	1:1	1.910	0.03	20.89	22.00	1.291	2.466	22.3
Product specific 10g SAR Test Data at the worst case with Battery 3#(Separate 0mm)											
Bottom side	20	QPSK 1RB_0	20300/1745	1:1	1.980	0.02	20.89	22.00	1.291	2.557	22.3
Ant2 Test data											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data at the worst case (1RB)											
Left tilted	20	QPSK 1RB_0	20175/1732.5	1:1	0.613	-0.01	20.11	21.00	1.227	0.752	22.3
Body worn Test data at the worst case (Separate 15mm 1RB)											
Back side	20	QPSK 1RB_0	20175/1732.5	1:1	0.268	-0.16	22.70	23.50	1.202	0.322	22.3
Hotspot Test data at the worst case (Separate 10mm 50%RB)											
Top side	20	QPSK 50RB_0	20300/1745	1:1	0.308	-0.05	19.47	20.50	1.268	0.390	22.3

Table 32：SAR of LTE Band 4 for Head, Body and Limb(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B

2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0 W/kg for 10g) then testing at the other channels is not required for such test configuration(s).

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Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	3rd Repeated SAR (1g)
Bottom side	20300/1745	2.060	2.010	1.025	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

Table 33：SAR Measurement Variability Results

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8.3.8 SAR Result of LTE Band 5

Ant1 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_0	20450/829	1:1	0.126	0.05	23.31	24.00	1.172	0.148	22.1
Left tilted	10	QPSK 1RB_0	20450/829	1:1	0.083	0.09	23.31	24.00	1.172	0.097	22.1
Right cheek	10	QPSK 1RB_0	20450/829	1:1	0.188	-0.04	23.31	24.00	1.172	0.220	22.1
Right tilted	10	QPSK 1RB_0	20450/829	1:1	0.099	-0.09	23.31	24.00	1.172	0.116	22.1
Right cheek	10	QPSK 1RB_0	20525/836.5	1:1	0.173	-0.07	23.29	24.00	1.178	0.204	22.1
Right cheek	10	QPSK 1RB_0	20600/844	1:1	0.186	0.08	23.25	24.00	1.189	**0.221**	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_0	20450/829	1:1	0.105	0.05	22.25	23.00	1.189	0.125	22.1
Left tilted	10	QPSK 25RB_0	20450/829	1:1	0.069	0.13	22.25	23.00	1.189	0.082	22.1
Right cheek	10	QPSK 25RB_0	20450/829	1:1	0.155	-0.01	22.25	23.00	1.189	0.184	22.1
Right tilted	10	QPSK 25RB_0	20450/829	1:1	0.082	-0.06	22.25	23.00	1.189	0.098	22.1
Head Test Data at the worst case with Battery 2#											
Right cheek	10	QPSK 1RB_0	20600/844	1:1	0.176	0.07	23.25	24.00	1.189	0.209	22.1
Head Test Data at the worst case with Battery 3#											
Right cheek	10	QPSK 1RB_0	20600/844	1:1	0.157	0.03	23.25	24.00	1.189	0.187	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_0	20450/829	1:1	0.297	-0.07	23.31	24.00	1.172	0.348	22.1
Back side	10	QPSK 1RB_0	20450/829	1:1	0.317	0.05	23.31	24.00	1.172	0.372	22.1
Back side	10	QPSK 1RB_0	20525/836.5	1:1	0.342	0.05	23.29	24.00	1.178	0.403	22.1
Back side	10	QPSK 1RB_0	20600/844	1:1	0.352	0.07	23.25	24.00	1.189	**0.418**	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_0	20450/829	1:1	0.241	-0.08	22.25	23.00	1.189	0.286	22.1
Back side	10	QPSK 25RB_0	20450/829	1:1	0.258	0.05	22.25	23.00	1.189	0.307	22.1
Body worn Test data at the worst case with Battery 2#											
Back side	10	QPSK 1RB_0	20600/844	1:1	0.278	0.05	23.25	24.00	1.189	0.330	22.1
Body worn Test data at the worst case with Battery 3#											
Back side	10	QPSK 1RB_0	20600/844	1:1	0.340	0.05	23.25	24.00	1.189	0.404	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	20450/829	1:1	0.441	-0.07	23.31	24.00	1.172	0.517	22.1
Back side	10	QPSK 1RB_0	20450/829	1:1	0.506	0.06	23.31	24.00	1.172	**0.593**	22.1
Left side	10	QPSK 1RB_0	20450/829	1:1	0.089	-0.08	23.31	24.00	1.172	0.104	22.1
Right side	10	QPSK 1RB_0	20450/829	1:1	0.321	-0.16	23.31	24.00	1.172	0.376	22.1
Bottom side	10	QPSK 1RB_0	20450/829	1:1	0.305	-0.08	23.31	24.00	1.172	0.358	22.1
Back side	10	QPSK 1RB_0	20525/836.5	1:1	0.376	0.07	23.29	24.00	1.178	0.443	22.1
Back side	10	QPSK 1RB_0	20600/844	1:1	0.468	0.09	23.25	24.00	1.189	0.556	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_0	20450/829	1:1	0.358	-0.09	22.25	23.00	1.189	0.425	22.1
Back side	10	QPSK 25RB_0	20450/829	1:1	0.407	0.05	22.25	23.00	1.189	0.484	22.1
Left side	10	QPSK 25RB_0	20450/829	1:1	0.053	-0.15	22.25	23.00	1.189	0.063	22.1
Right side	10	QPSK 25RB_0	20450/829	1:1	0.187	-0.10	22.25	23.00	1.189	0.222	22.1
Bottom side	10	QPSK 25RB_0	20450/829	1:1	0.204	-0.04	22.25	23.00	1.189	0.242	22.1
Hotspot Test data at the worst case with Battery 2#											
Back side	10	QPSK 1RB_0	20450/829	1:1	0.370	0.07	23.31	24.00	1.172	0.434	22.1
Hotspot Test data at the worst case with Battery 3#											
Back side	10	QPSK 1RB_0	20450/829	1:1	0.462	0.08	23.31	24.00	1.172	0.542	22.1

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Ant2 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_0	20450/829	1:1	0.643	-0.04	21.08	22.00	1.236	0.795	22.1
Left tilted	10	QPSK 1RB_0	20450/829	1:1	0.561	0.01	21.08	22.00	1.236	0.693	22.1
Right cheek	10	QPSK 1RB_0	20525/836.5	1:1	0.511	-0.04	20.68	21.50	1.208	0.617	22.1
Right tilted	10	QPSK 1RB_0	20525/836.5	1:1	0.517	0.02	20.68	21.50	1.208	0.624	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_0	20450/829	1:1	0.644	0.01	21.07	22.00	1.239	**0.798**	22.1
Left tilted	10	QPSK 25RB_0	20450/829	1:1	0.573	0.17	21.07	22.00	1.239	0.710	22.1
Right cheek	10	QPSK 25RB_13	20450/829	1:1	0.518	-0.08	20.53	21.50	1.250	0.648	22.1
Right tilted	10	QPSK 25RB_13	20450/829	1:1	0.491	0.05	20.53	21.50	1.250	0.614	22.1
Left cheek	10	QPSK 25RB_0	20525/836.5	1:1	0.632	0.05	21.05	22.00	1.245	0.787	22.1
Left cheek	10	QPSK 25RB_0	20600/844	1:1	0.632	0.02	21.01	22.00	1.256	0.794	22.1
Head Test Data at the worst case with Battery 2#											
Left cheek	10	QPSK 25RB_0	20450/829	1:1	0.592	0.02	21.07	22.00	1.239	0.733	22.1
Head Test Data at the worst case with Battery 3#											
Left cheek	10	QPSK 25RB_0	20450/829	1:1	0.601	0.03	21.07	22.00	1.239	0.745	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_0	20450/829	1:1	0.147	0.08	23.14	24.00	1.219	0.179	22.1
Back side	10	QPSK 1RB_0	20450/829	1:1	0.144	-0.03	23.14	24.00	1.219	0.176	22.1
Front side	10	QPSK 1RB_0	20525/836.5	1:1	0.160	0.07	23.11	24.00	1.227	**0.196**	22.1
Front side	10	QPSK 1RB_0	20600/844	1:1	0.149	0.10	22.89	24.00	1.291	0.192	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_25	20450/829	1:1	0.108	0.13	22.16	23.00	1.213	0.131	22.1
Back side	10	QPSK 25RB_25	20450/829	1:1	0.106	0.00	22.16	23.00	1.213	0.129	22.1
Body worn Test Data at the worst case with Battery 2#											
Front side	10	QPSK 1RB_0	20525/836.5	1:1	0.159	0.07	23.11	24.00	1.227	0.195	22.1
Body worn Test Data at the worst case with Battery 3#											
Front side	10	QPSK 1RB_0	20525/836.5	1:1	0.147	0.05	23.11	24.00	1.227	0.180	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_25	20450/829	1:1	0.134	0.03	20.33	21.00	1.167	0.156	22.1
Back side	10	QPSK 1RB_25	20450/829	1:1	0.164	-0.01	20.33	21.00	1.167	0.191	22.1
Left side	10	QPSK 1RB_25	20450/829	1:1	0.050	0.00	20.33	21.00	1.167	0.058	22.1
Right side	10	QPSK 1RB_25	20450/829	1:1	0.011	0.03	20.33	21.00	1.167	0.012	22.1
Top side	10	QPSK 1RB_25	20450/829	1:1	0.112	0.04	20.33	21.00	1.167	0.131	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_0	20450/829	1:1	0.147	0.17	20.01	21.00	1.256	0.185	22.1
Back side	10	QPSK 25RB_0	20450/829	1:1	0.173	-0.09	20.01	21.00	1.256	**0.217**	22.1
Left side	10	QPSK 25RB_0	20450/829	1:1	0.053	-0.01	20.01	21.00	1.256	0.066	22.1
Right side	10	QPSK 25RB_0	20450/829	1:1	0.010	0.04	20.01	21.00	1.256	0.013	22.1
Top side	10	QPSK 25RB_0	20450/829	1:1	0.119	0.09	20.01	21.00	1.256	0.149	22.1
Back side	10	QPSK 25RB_0	20525/836.5	1:1	0.162	-0.08	19.95	21.00	1.274	0.206	22.1
Back side	10	QPSK 25RB_0	20600/844	1:1	0.154	-0.13	19.89	21.00	1.291	0.199	22.1
Hotspot Test Data at the worst case with Battery 2#											
Back side	10	QPSK 25RB_0	20450/829	1:1	0.138	-0.13	20.01	21.00	1.256	0.173	22.1
Hotspot Test Data at the worst case with Battery 3#											
Back side	10	QPSK 25RB_0	20450/829	1:1	0.153	-0.10	20.01	21.00	1.256	0.192	22.1

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Ant2 Additional Test data(simultaneous transmission with WIFI)											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left tilted	10	QPSK 1RB_0	20450/829	1:1	0.225	0.09	17.63	19.00	1.371	**0.308**	22.1

Table 34： SAR of LTE Band 5 for Head and Body(Original report E5/2018/20036).

Ant1 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case (1RB)											
Right cheek	10	QPSK 1RB_0	20600/844	1:1	0.179	0.18	23.25	24.00	1.189	0.213	22.1
Body worn Test data at the worst case (Separate 15mm 1RB)											
Back side	10	QPSK 1RB_0	20600/844	1:1	0.298	0.16	23.25	24.00	1.189	0.354	22.1
Hotspot Test data at the worst case (Separate 10mm 1RB)											
Back side	10	QPSK 1RB_0	20450/829	1:1	0.373	0.03	23.31	24.00	1.172	0.437	22.1
Ant2 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data at the worst case (50%RB)											
Left cheek	10	QPSK 25RB_0	20450/829	1:1	0.579	-0.07	21.07	22.00	1.239	0.717	22.1
Body worn Test data at the worst case (Separate 15mm 1RB)											
Front side	10	QPSK 1RB_0	20525/836.5	1:1	0.184	-0.01	23.11	24.00	1.227	**0.226**	22.1
Hotspot Test data at the worst case (Separate 10mm 50%RB)											
Back side	10	QPSK 25RB_0	20450/829	1:1	0.166	0.02	20.01	21.00	1.256	0.209	22.1

Table 35：SAR of LTE Band 5 for Head and Body(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B

2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

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8.3.9 SAR Result of LTE Band 7

Ant1 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	20850/2510	1:1	0.069	0.06	23.25	23.60	1.084	0.075	22.3
Left tilted	20	QPSK 1RB_99	20850/2510	1:1	0.046	0.06	23.25	23.60	1.084	0.050	22.3
Right cheek	20	QPSK 1RB_99	20850/2510	1:1	0.106	-0.01	23.25	23.60	1.084	**0.115**	22.3
Right tilted	20	QPSK 1RB_99	20850/2510	1:1	0.073	0.04	23.25	23.60	1.084	0.079	22.3
Right cheek	20	QPSK 1RB_99	21100/2535.5	1:1	0.095	0.05	23.18	23.60	1.102	0.105	22.3
Right cheek	20	QPSK 1RB_99	21350/2560	1:1	0.084	0.06	23.21	23.60	1.094	0.091	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_50	20850/2510	1:1	0.046	0.01	21.61	22.60	1.256	0.057	22.3
Left tilted	20	QPSK 50RB_50	20850/2510	1:1	0.031	0.08	21.61	22.60	1.256	0.039	22.3
Right cheek	20	QPSK 50RB_50	20850/2510	1:1	0.072	0.07	21.61	22.60	1.256	0.091	22.3
Right tilted	20	QPSK 50RB_50	20850/2510	1:1	0.050	0.03	21.61	22.60	1.256	0.063	22.3
Head Test Data at the worst case with Battery 2#											
Right cheek	20	QPSK 1RB_99	20850/2510	1:1	0.101	0.05	23.25	23.60	1.084	0.109	22.3
Head Test Data at the worst case with Battery 3#											
Right cheek	20	QPSK 1RB_99	20850/2510	1:1	0.086	0.00	23.25	23.60	1.084	0.093	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	20850/2510	1:1	0.363	-0.02	23.25	23.60	1.084	**0.393**	22.3
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.366	-0.04	23.25	23.60	1.084	**0.397**	22.3
Back side	20	QPSK 1RB_99	21100/2535.5	1:1	0.298	-0.09	23.18	23.60	1.102	0.328	22.3
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.214	-0.03	23.21	23.60	1.094	0.234	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_50	20850/2510	1:1	0.257	-0.01	21.61	22.60	1.256	0.323	22.3
Back side	20	QPSK 50RB_50	20850/2510	1:1	0.258	-0.02	21.61	22.60	1.256	0.324	22.3
Body worn Test Data at the worst case with Battery 2#											
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.260	-0.18	23.25	23.60	1.084	0.282	22.3
Body worn Test Data at the worst case with Battery 3#											
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.270	-0.04	23.25	23.60	1.084	0.293	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	20850/2510	1:1	0.262	-0.08	19.18	19.60	1.102	0.289	22.3
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.281	-0.03	19.18	19.60	1.102	0.310	22.3
Left side	20	QPSK 1RB_99	20850/2510	1:1	0.089	-0.12	19.18	19.60	1.102	0.098	22.3
Right side	20	QPSK 1RB_99	20850/2510	1:1	0.064	-0.07	19.18	19.60	1.102	0.070	22.3
Bottom side	20	QPSK 1RB_99	20850/2510	1:1	0.489	-0.02	19.18	19.60	1.102	**0.539**	22.3
Bottom side	20	QPSK 1RB_99	21100/2535.5	1:1	0.485	0.16	19.15	19.60	1.109	0.538	22.3
Bottom side	20	QPSK 1RB_99	21350/2560	1:1	0.425	-0.06	19.17	19.60	1.104	0.469	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_50	20850/2510	1:1	0.266	-0.07	19.09	19.60	1.125	0.299	22.3
Back side	20	QPSK 50RB_50	20850/2510	1:1	0.279	-0.09	19.09	19.60	1.125	0.314	22.3
Left side	20	QPSK 50RB_50	20850/2510	1:1	0.091	-0.07	19.09	19.60	1.125	0.102	22.3
Right side	20	QPSK 50RB_50	20850/2510	1:1	0.064	-0.06	19.09	19.60	1.125	0.072	22.3
Bottom side	20	QPSK 50RB_50	20850/2510	1:1	0.479	0.00	19.09	19.60	1.125	0.539	22.3
Hotspot Test Data at the worst case with Battery 2#											
Bottom side	20	QPSK 1RB_99	20850/2510	1:1	0.459	-0.01	19.18	19.60	1.102	0.506	22.3
Hotspot Test Data at the worst case with Battery 3#											
Bottom side	20	QPSK 1RB_99	20850/2510	1:1	0.414	-0.08	19.18	19.60	1.102	0.456	22.3

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Ant2 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	20850/2510	1:1	0.375	-0.14	15.57	16.10	1.130	0.424	22.3
Left tilted	20	QPSK 1RB_99	20850/2510	1:1	0.394	-0.03	15.57	16.10	1.130	0.445	22.3
Right cheek	20	QPSK 1RB_99	21350/2560	1:1	0.441	-0.01	12.09	12.60	1.125	0.496	22.3
Right tilted	20	QPSK 1RB_99	21350/2560	1:1	0.395	0.03	12.09	12.60	1.125	0.444	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_50	20850/2510	1:1	0.366	-0.03	15.53	16.10	1.140	0.417	22.3
Left tilted	20	QPSK 50RB_50	20850/2510	1:1	0.391	0.02	15.53	16.10	1.140	0.446	22.3
Right cheek	20	QPSK 50RB_50	21350/2560	1:1	0.443	0.07	12.01	12.60	1.146	**0.507**	22.3
Right tilted	20	QPSK 50RB_50	21350/2560	1:1	0.389	0.03	12.01	12.60	1.146	0.446	22.3
Right cheek	20	QPSK 50RB_50	20850/2510	1:1	0.375	0.02	11.94	12.60	1.164	0.437	22.3
Right cheek	20	QPSK 50RB_50	21100/2535.5	1:1	0.405	0.11	11.99	12.60	1.151	0.466	22.3
Head Test Data at the worst case with Battery 2#											
Right cheek	20	QPSK 50RB_50	21350/2560	1:1	0.354	0.12	12.01	12.60	1.146	0.406	22.3
Head Test Data at the worst case with Battery 3#											
Right cheek	20	QPSK 50RB_50	21350/2560	1:1	0.396	0.19	12.01	12.60	1.146	0.454	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	21100/2535.5	1:1	0.126	-0.07	19.93	20.10	1.040	0.131	22.3
Back side	20	QPSK 1RB_99	21100/2535.5	1:1	0.192	0.06	19.93	20.10	1.040	**0.200**	22.3
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.191	0.03	19.91	20.10	1.045	0.200	22.3
Back side	20	QPSK 1RB_99	21350/2560	1:1	0.155	0.13	19.89	20.10	1.050	0.163	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_50	21100/2535.5	1:1	0.110	-0.09	19.89	20.10	1.050	0.115	22.3
Back side	20	QPSK 50RB_50	21100/2535.5	1:1	0.191	0.07	19.89	20.10	1.050	0.200	22.3
Body worn Test Data at the worst case with Battery 2#											
Back side	20	QPSK 1RB_99	21100/2535.5	1:1	0.186	-0.07	19.93	20.10	1.040	0.193	22.3
Body worn Test Data at the worst case with Battery 3#											
Back side	20	QPSK 1RB_99	21100/2535.5	1:1	0.171	-0.04	19.93	20.10	1.040	0.178	22.3
Hotspot Test data (Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	20850/2510	1:1	0.266	-0.07	18.57	18.60	1.007	0.268	22.3
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.332	-0.04	18.57	18.60	1.007	0.334	22.3
Left side	20	QPSK 1RB_99	20850/2510	1:1	0.176	-0.09	18.57	18.60	1.007	0.177	22.3
Right side	20	QPSK 1RB_99	20850/2510	1:1	0.026	-0.02	18.57	18.60	1.007	0.026	22.3
Top side	20	QPSK 1RB_99	20850/2510	1:1	0.416	-0.03	18.57	18.60	1.007	0.419	22.3
Top side	20	QPSK 1RB_99	21100/2535.5	1:1	0.442	-0.06	18.54	18.60	1.014	0.448	22.3
Top side	20	QPSK 1RB_99	21350/2560	1:1	0.363	-0.02	18.48	18.60	1.028	0.373	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_50	20850/2510	1:1	0.262	-0.09	18.43	18.60	1.040	0.272	22.3
Back side	20	QPSK 50RB_50	20850/2510	1:1	0.230	-0.04	18.43	18.60	1.040	0.239	22.3
Left side	20	QPSK 50RB_50	20850/2510	1:1	0.173	-0.02	18.43	18.60	1.040	0.180	22.3
Right side	20	QPSK 50RB_50	20850/2510	1:1	0.026	-0.05	18.43	18.60	1.040	0.027	22.3
Top side	20	QPSK 50RB_50	20850/2510	1:1	0.398	-0.16	18.43	18.60	1.040	0.414	22.3
Hotspot Test Data at the worst case with Battery 2#											
Top side	20	QPSK 1RB_99	21100/2535.5	1:1	0.463	-0.06	18.54	18.60	1.014	**0.469**	22.3
Hotspot Test Data at the worst case with Battery 3#											
Top side	20	QPSK 1RB_99	21100/2535.5	1:1	0.432	-0.03	18.54	18.60	1.014	0.438	22.3

Table 36：SAR of LTE Band 7 for Head and Body (Original report E5/2018/20036).

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Ant1 Test data											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data at the worst case (1RB)											
Right cheek	20	QPSK 1RB_99	20850/2510	1:1	0.067	0.01	21.98	22.60	1.153	0.077	22.3
Body worn Test data at the worst case (Separate 15mm 1RB)											
Back side	20	QPSK 1RB_99	20850/2510	1:1	0.208	-0.01	21.98	22.60	1.153	0.240	22.3
Hotspot Test data at the worst case (Separate 10mm 1RB)											
Bottom side	20	QPSK 1RB_99	20850/2510	1:1	0.337	-0.03	17.22	18.60	1.374	0.463	22.3
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)10-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Product specific 10g SAR Test data with sensor on (1RB)											
Bottom side-0mm	20	QPSK 1RB_50	21100/2535.5	1:1	0.579	-0.12	19.21	19.60	1.094	0.633	22.3
Bottom side-4mm	20	QPSK 1RB_50	21100/2535.5	1:1	0.973	0.00	20.74	21.60	1.219	**1.186**	22.3
Bottom side-4mm	20	QPSK 1RB_50	20850/2510	1:1	0.857	-0.07	20.55	21.60	1.274	1.091	22.3
Bottom side-4mm	20	QPSK 1RB_50	21350/2560	1:1	0.824	0.06	20.24	21.60	1.368	1.127	22.3
Product specific 10g SAR Test data with sensor on (50%RB)											
Bottom side-0mm	20	QPSK 50RB_0	21350/2560	1:1	0.491	-0.07	19.31	19.60	1.069	0.525	22.3
Bottom side-4mm	20	QPSK 50RB_0	20850/2510	1:1	0.809	-0.12	20.67	21.60	1.239	1.002	22.3
Product specific 10g SAR Test data with sensor off (Separate 9mm 1RB)											
Bottom side	20	QPSK 1RB_50	20850/2510	1:1	0.562	-0.01	21.98	22.60	1.153	0.648	22.3
Bottom side	20	QPSK 1RB_50	21100/2535.5	1:1	0.576	-0.05	21.78	22.60	1.208	0.696	22.3
Bottom side	20	QPSK 1RB_50	21350/2560	1:1	0.578	0.11	21.64	22.60	1.247	0.721	22.3
Product specific 10g SAR Test data with sensor off (Separate 9mm 50%RB)											
Bottom side	20	QPSK 50RB_0	20850/2510	1:1	0.438	-0.08	20.75	21.60	1.216	0.533	22.3
Product specific 10g SAR Test Data at the worst case with Battery 2#											
Bottom side-4mm	20	QPSK 1RB_50	21100/2535.5	1:1	0.967	-0.05	20.74	21.60	1.219	1.179	22.3
Product specific 10g SAR Test Data at the worst case with Battery 3#											
Bottom side-4mm	20	QPSK 1RB_50	21100/2535.5	1:1	0.940	0.05	20.74	21.60	1.219	1.146	22.3
Ant2 Test data											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data at the worst case (50%RB)											
Right cheek	20	QPSK 50RB_50	21350/2560	1:1	0.361	-0.09	11.22	11.60	1.091	0.394	22.3
Body worn Test data at the worst case (Separate 15mm 1RB)											
Back side	20	QPSK 1RB_99	21100/2535.5	1:1	0.213	-0.06	18.53	19.10	1.140	**0.243**	22.3
Hotspot Test Data at the worst case with Battery 2#											
Top side	20	QPSK 1RB_99	21100/2535.5	1:1	0.185	-0.06	16.91	17.60	1.172	0.217	22.3

Table 37：SAR of LTE Band 7 for Head, Body and Limb(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0 W/kg for 10g) then testing at the other channels is not required for such test configuration(s).

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8.3.10 SAR Result of LTE Band 12

Ant1 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_49	23060/704	1:1	0.115	0.07	23.66	24.00	1.081	0.124	22.1
Left tilted	10	QPSK 1RB_49	23060/704	1:1	0.076	-0.16	23.66	24.00	1.081	0.082	22.1
Right cheek	10	QPSK 1RB_49	23060/704	1:1	0.147	-0.17	23.66	24.00	1.081	0.159	22.1
Right tilted	10	QPSK 1RB_49	23060/704	1:1	0.068	0.03	23.66	24.00	1.081	0.074	22.1
Right cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.159	0.07	23.62	24.00	1.091	**0.174**	22.1
Right cheek	10	QPSK 1RB_49	23130/711	1:1	0.158	0.11	23.62	24.00	1.091	0.172	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_0	23060/704	1:1	0.097	-0.06	22.51	23.00	1.119	0.108	22.1
Left tilted	10	QPSK 25RB_0	23060/704	1:1	0.062	-0.09	22.51	23.00	1.119	0.069	22.1
Right cheek	10	QPSK 25RB_0	23060/704	1:1	0.114	-0.03	22.51	23.00	1.119	0.128	22.1
Right tilted	10	QPSK 25RB_0	23060/704	1:1	0.051	-0.06	22.51	23.00	1.119	0.057	22.1
Head Test Data at the worst case with Battery 2#											
Right cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.147	0.03	23.62	24.00	1.091	0.160	22.1
Head Test Data at the worst case with Battery 3#											
Right cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.148	0.17	23.62	24.00	1.091	0.162	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_49	23060/704	1:1	0.242	-0.17	23.66	24.00	1.081	0.262	22.1
Back side	10	QPSK 1RB_49	23060/704	1:1	0.249	-0.04	23.66	24.00	1.081	0.269	22.1
Back side	10	QPSK 1RB_49	23095/707.5	1:1	0.256	0.16	23.62	24.00	1.091	0.279	22.1
Back side	10	QPSK 1RB_49	23130/711	1:1	0.257	0.16	23.62	24.00	1.091	**0.281**	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_0	23060/704	1:1	0.201	0.05	22.51	23.00	1.119	0.225	22.1
Back side	10	QPSK 25RB_0	23060/704	1:1	0.210	0.08	22.51	23.00	1.119	0.235	22.1
Body worn Data at the worst case with Battery 2#											
Back side	10	QPSK 1RB_49	23130/711	1:1	0.247	-0.05	23.62	24.00	1.091	0.270	22.1
Body worn Data at the worst case with Battery 3#											
Back side	10	QPSK 1RB_49	23130/711	1:1	0.240	-0.01	23.62	24.00	1.091	0.262	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_49	23060/704	1:1	0.310	-0.04	23.66	24.00	1.081	0.335	22.1
Back side	10	QPSK 1RB_49	23060/704	1:1	0.345	-0.08	23.66	24.00	1.081	0.373	22.1
Left side	10	QPSK 1RB_49	23060/704	1:1	0.099	-0.11	23.66	24.00	1.081	0.107	22.1
Right side	10	QPSK 1RB_49	23060/704	1:1	0.268	-0.09	23.66	24.00	1.081	0.290	22.1
Bottom side	10	QPSK 1RB_49	23060/704	1:1	0.205	-0.09	23.66	24.00	1.081	0.222	22.1
Back side	10	QPSK 1RB_49	23095/707.5	1:1	0.344	0.05	23.62	24.00	1.091	**0.375**	22.1
Back side	10	QPSK 1RB_49	23130/711	1:1	0.329	-0.10	23.62	24.00	1.091	0.359	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_0	23060/704	1:1	0.266	0.04	22.51	23.00	1.119	0.298	22.1
Back side	10	QPSK 25RB_0	23060/704	1:1	0.295	-0.02	22.51	23.00	1.119	0.330	22.1
Left side	10	QPSK 25RB_0	23060/704	1:1	0.086	-0.03	22.51	23.00	1.119	0.096	22.1
Right side	10	QPSK 25RB_0	23060/704	1:1	0.220	-0.01	22.51	23.00	1.119	0.246	22.1
Bottom side	10	QPSK 25RB_0	23060/704	1:1	0.174	-0.06	22.51	23.00	1.119	0.195	22.1
Hotspot Test Data at the worst case with Battery 2#											
Back side	10	QPSK 1RB_49	23095/707.5	1:1	0.332	-0.01	23.62	24.00	1.091	0.362	22.1
Hotspot Test Data at the worst case with Battery 3#											
Back side	10	QPSK 1RB_49	23095/707.5	1:1	0.317	-0.02	23.62	24.00	1.091	0.346	22.1

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Ant2 Test data											
Test position	BW	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_49	23130/711	1:1	0.842	0.00	21.97	22.40	1.104	0.930	22.1
Left tilted	10	QPSK 1RB_49	23130/711	1:1	0.683	0.03	21.97	22.40	1.104	0.754	22.1
Right cheek	10	QPSK 1RB_49	23130/711	1:1	0.699	0.08	21.40	22.00	1.148	0.803	22.1
Right tilted	10	QPSK 1RB_49	23130/711	1:1	0.736	-0.02	21.40	22.00	1.148	0.845	22.1
Left cheek	10	QPSK 1RB_49	23060/704	1:1	0.808	0.05	21.72	22.40	1.169	0.945	22.1
Left cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.862	0.01	21.85	22.40	1.135	0.978	22.1
Right cheek	10	QPSK 1RB_49	23060/704	1:1	0.709	0.10	21.17	22.00	1.211	0.858	22.1
Right cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.659	0.09	21.31	22.00	1.172	0.772	22.1
Right tilted	10	QPSK 1RB_49	23060/704	1:1	0.700	0.05	21.17	22.00	1.211	0.847	22.1
Right tilted	10	QPSK 1RB_49	23095/707.5	1:1	0.749	0.00	21.31	22.00	1.172	0.878	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_0	23060/704	1:1	0.757	0.03	21.86	22.40	1.132	0.857	22.1
Left tilted	10	QPSK 25RB_0	23060/704	1:1	0.662	0.03	21.86	22.40	1.132	0.750	22.1
Right cheek	10	QPSK 25RB_0	23130/711	1:1	0.689	-0.04	21.33	22.00	1.167	0.804	22.1
Right tilted	10	QPSK 25RB_0	23130/711	1:1	0.687	0.19	21.33	22.00	1.167	0.802	22.1
Left cheek	10	QPSK 25RB_0	23095/707.5	1:1	0.810	0.06	21.72	22.40	1.169	0.947	22.1
Left cheek	10	QPSK 25RB_0	23130/711	1:1	0.841	0.03	21.76	22.40	1.159	0.975	22.1
Right cheek	10	QPSK 25RB_0	23060/704	1:1	0.549	0.01	21.31	22.00	1.172	0.644	22.1
Right cheek	10	QPSK 25RB_0	23095/707.5	1:1	0.613	-0.07	21.21	22.00	1.199	0.735	22.1
Right tilted	10	QPSK 25RB_0	23060/704	1:1	0.589	0.16	21.31	22.00	1.172	0.690	22.1
Right tilted	10	QPSK 25RB_0	23095/707.5	1:1	0.648	-0.01	21.21	22.00	1.199	0.777	22.1
Head Test data(100%RB)											
Left cheek	10	QPSK 100RB_0	23060/704	1:1	0.785	0.01	21.88	22.40	1.127	0.885	22.1
Right cheek	10	QPSK 100RB_0	23130/711	1:1	0.744	0.06	21.40	22.00	1.148	0.854	22.3
Right tilted	10	QPSK 100RB_0	23130/711	1:1	0.773	0.07	21.40	22.00	1.148	0.888	22.3
Head Test Data at the worst case with Battery 2#											
Left cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.878	0.04	21.85	22.40	1.135	0.997	22.1
Head Test Data at the worst case with Battery 3#											
Left cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.907	-0.06	21.85	22.40	1.135	**1.029**	22.1
Left cheek-repeat	10	QPSK 1RB_49	23095/707.5	1:1	0.891	0.04	21.85	22.40	1.135	1.011	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_0	23130/711	1:1	0.215	-0.11	23.34	24.00	1.164	**0.250**	22.1
Back side	10	QPSK 1RB_0	23130/711	1:1	0.188	-0.04	23.34	24.00	1.164	0.219	22.1
Front side	10	QPSK 1RB_0	23060/704	1:1	0.159	-0.02	23.02	24.00	1.253	0.199	22.1
Front side	10	QPSK 1RB_0	23095/707.5	1:1	0.179	0.00	23.32	24.00	1.169	0.209	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_0	23130/711	1:1	0.166	0.00	22.32	23.00	1.169	0.194	22.1
Back side	10	QPSK 25RB_0	23130/711	1:1	0.144	0.08	22.32	23.00	1.169	0.168	22.1
Body worn Test Data at the worst case with Battery 2#											
Front side	10	QPSK 1RB_0	23130/711	1:1	0.194	-0.03	23.34	24.00	1.164	0.226	22.1
Body worn Test Data at the worst case with Battery 3#											
Front side	10	QPSK 1RB_0	23130/711	1:1	0.207	0.06	23.34	24.00	1.164	0.241	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	23095/707.5	1:1	0.160	0.03	20.40	21.00	1.148	0.184	22.1
Back side	10	QPSK 1RB_0	23095/707.5	1:1	0.157	0.02	20.40	21.00	1.148	0.180	22.1
Left side	10	QPSK 1RB_0	23095/707.5	1:1	0.079	0.04	20.40	21.00	1.148	0.091	22.1
Right side	10	QPSK 1RB_0	23095/707.5	1:1	0.044	0.02	20.40	21.00	1.148	0.050	22.1
Top side	10	QPSK 1RB_0	23095/707.5	1:1	0.114	-0.02	20.40	21.00	1.148	0.131	22.1

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Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_0	23060/704	1:1	0.173	-0.02	20.38	21.00	1.153	0.200	22.1
Back side	10	QPSK 25RB_0	23060/704	1:1	0.146	0.01	20.38	21.00	1.153	0.168	22.1
Left side	10	QPSK 25RB_0	23060/704	1:1	0.069	-0.02	20.38	21.00	1.153	0.079	22.1
Right side	10	QPSK 25RB_0	23060/704	1:1	0.041	0.02	20.38	21.00	1.153	0.048	22.1
Top side	10	QPSK 25RB_0	23060/704	1:1	0.108	0.01	20.38	21.00	1.153	0.125	22.1
Front side	10	QPSK 25RB_0	23095/707.5	1:1	0.205	0.03	20.27	21.00	1.183	0.243	22.1
Front side	10	QPSK 25RB_0	23130/711	1:1	0.219	0.06	20.25	21.00	1.189	**0.260**	22.1
Hotspot Test Data at the worst case with Battery 2#											
Front side	10	QPSK 25RB_0	23130/711	1:1	0.216	0.04	20.25	21.00	1.189	0.257	22.1
Hotspot Test Data at the worst case with Battery 3#											
Front side	10	QPSK 25RB_0	23130/711	1:1	0.202	0.00	20.25	21.00	1.189	0.240	22.1
Ant2 Additional Test data(simultaneous transmission with WIFI)											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.400	0.06	18.53	19.40	1.222	0.489	22.1
Left tilted	10	QPSK 1RB_49	23095/707.5	1:1	0.340	0.08	18.53	19.40	1.222	0.415	22.1
Right cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.347	-0.03	18.00	19.00	1.259	0.437	22.1
Right tilted	10	QPSK 1RB_49	23095/707.5	1:1	0.349	0.07	18.00	19.00	1.259	0.439	22.1

Table 38：SAR of LTE Band 12 for Head and Body(Original report E5/2018/20036).

Ant1 Test data											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data at the worst case (1RB)											
Right cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.117	-0.05	23.62	24.00	1.091	**0.128**	22.1
Body worn Test data at the worst case (Separate 15mm 1RB)											
Back side	10	QPSK 1RB_49	23130/711	1:1	0.254	0.08	23.62	24.00	1.091	**0.277**	22.1
Hotspot Test data at the worst case (Separate 10mm 1RB)											
Back side	10	QPSK 1RB_49	23095/707.5	1:1	0.344	-0.02	23.62	24.00	1.091	**0.375**	22.1
Ant2 Test data											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test Data at the worst case with Battery 3#											
Left cheek	10	QPSK 1RB_49	23095/707.5	1:1	0.674	0.11	21.85	22.40	1.135	**0.765**	22.1
Body worn Test data at the worst case (Separate 15mm 1RB)											
Front side	10	QPSK 1RB_0	23130/711	1:1	0.112	-0.03	23.34	24.00	1.164	**0.130**	22.1
Hotspot Test data at the worst case (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_0	23130/711	1:1	0.152	0.04	20.25	21.00	1.189	**0.181**	22.1

Table 39：SAR of LTE Band 12 for Head and Body(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

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8.3.11 SAR Result of LTE Band 17

Ant1 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_0	23780/709	1:1	0.123	0.01	23.66	24.00	1.081	0.133	22.1
Left tilted	10	QPSK 1RB_0	23780/709	1:1	0.073	0.16	23.66	24.00	1.081	0.079	22.1
Right cheek	10	QPSK 1RB_0	23780/709	1:1	0.149	0.05	23.66	24.00	1.081	**0.161**	22.1
Right tilted	10	QPSK 1RB_0	23780/709	1:1	0.068	0.16	23.66	24.00	1.081	0.074	22.1
Right cheek	10	QPSK 1RB_0	23790/710	1:1	0.142	0.13	23.54	24.00	1.112	0.158	22.1
Right cheek	10	QPSK 1RB_0	23800/711	1:1	0.141	0.01	23.56	24.00	1.107	0.156	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_25	23780/709	1:1	0.100	-0.02	22.19	23.00	1.205	0.120	22.1
Left tilted	10	QPSK 25RB_25	23780/709	1:1	0.063	0.11	22.19	23.00	1.205	0.076	22.1
Right cheek	10	QPSK 25RB_25	23780/709	1:1	0.119	-0.02	22.19	23.00	1.205	0.143	22.1
Right tilted	10	QPSK 25RB_25	23780/709	1:1	0.057	-0.01	22.19	23.00	1.205	0.069	22.1
Head Test Data at the worst case with Battery 2#											
Right cheek	10	QPSK 1RB_0	23780/709	1:1	0.143	0.03	23.66	24.00	1.081	0.155	22.1
Head Test Data at the worst case with Battery 3#											
Right cheek	10	QPSK 1RB_0	23780/709	1:1	0.148	0.03	23.66	24.00	1.081	0.160	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_0	23780/709	1:1	0.240	-0.02	23.66	24.00	1.081	0.260	22.1
Back side	10	QPSK 1RB_0	23780/709	1:1	0.251	-0.08	23.66	24.00	1.081	0.271	22.1
Back side	10	QPSK 1RB_0	23790/710	1:1	0.250	-0.13	23.54	24.00	1.112	**0.278**	22.1
Back side	10	QPSK 1RB_0	23800/711	1:1	0.247	-0.12	23.56	24.00	1.107	0.273	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_25	23780/709	1:1	0.178	0.08	22.19	23.00	1.205	0.214	22.1
Back side	10	QPSK 25RB_25	23780/709	1:1	0.186	0.09	22.19	23.00	1.205	0.224	22.1
Body worn Test Data at the worst case with Battery 2#											
Back side	10	QPSK 1RB_0	23790/710	1:1	0.241	-0.03	23.54	24.00	1.112	0.268	22.1
Body worn Test Data at the worst case with Battery 3#											
Back side	10	QPSK 1RB_0	23790/710	1:1	0.234	-0.07	23.54	24.00	1.112	0.260	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	23780/709	1:1	0.317	-0.12	23.66	24.00	1.081	0.343	22.1
Back side	10	QPSK 1RB_0	23780/709	1:1	0.350	-0.06	23.66	24.00	1.081	0.379	22.1
Left side	10	QPSK 1RB_0	23780/709	1:1	0.102	-0.08	23.66	24.00	1.081	0.110	22.1
Right side	10	QPSK 1RB_0	23780/709	1:1	0.255	-0.05	23.66	24.00	1.081	0.276	22.1
Bottom side	10	QPSK 1RB_0	23780/709	1:1	0.208	-0.07	23.66	24.00	1.081	0.225	22.1
Back side	10	QPSK 1RB_0	23790/710	1:1	0.347	-0.09	23.54	24.00	1.112	**0.386**	22.1
Back side	10	QPSK 1RB_0	23800/711	1:1	0.336	-0.19	23.56	24.00	1.107	0.372	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_25	23780/709	1:1	0.231	0.03	22.19	23.00	1.205	0.278	22.1
Back side	10	QPSK 25RB_25	23780/709	1:1	0.256	0.10	22.19	23.00	1.205	0.308	22.1
Left side	10	QPSK 25RB_25	23780/709	1:1	0.072	0.04	22.19	23.00	1.205	0.087	22.1
Right side	10	QPSK 25RB_25	23780/709	1:1	0.195	0.03	22.19	23.00	1.205	0.235	22.1
Bottom side	10	QPSK 25RB_25	23780/709	1:1	0.152	-0.04	22.19	23.00	1.205	0.183	22.1
Hotspot Test Data at the worst case with Battery 2#											
Back side	10	QPSK 1RB_0	23790/710	1:1	0.320	-0.01	23.54	24.00	1.112	0.356	22.1
Hotspot Test Data at the worst case with Battery 3#											
Back side	10	QPSK 1RB_0	23790/710	1:1	0.324	-0.02	23.54	24.00	1.112	0.360	22.1

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Ant2 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_49	23800/711	1:1	0.802	0.00	21.87	22.30	1.104	0.885	22.1
Left tilted	10	QPSK 1RB_49	23800/712	1:1	0.780	-0.13	21.87	22.30	1.104	0.861	22.1
Right cheek	10	QPSK 1RB_49	23800/711	1:1	0.604	-0.01	20.77	21.50	1.183	0.715	22.1
Right tilted	10	QPSK 1RB_49	23800/711	1:1	0.683	0.04	20.77	21.50	1.183	0.808	22.1
Left cheek	10	QPSK 1RB_49	23780/709	1:1	0.823	0.00	21.69	22.30	1.151	0.947	22.1
Left cheek	10	QPSK 1RB_49	23790/710	1:1	0.828	0.04	21.66	22.30	1.159	0.959	22.1
Left tilted	10	QPSK 1RB_49	23780/709	1:1	0.732	0.12	21.69	22.30	1.151	0.842	22.1
Left tilted	10	QPSK 1RB_49	23790/710	1:1	0.738	0.04	21.66	22.30	1.159	0.855	22.1
Right tilted	10	QPSK 1RB_49	23780/709	1:1	0.676	0.11	20.75	21.50	1.189	0.803	22.1
Right tilted	10	QPSK 1RB_49	23790/710	1:1	0.682	0.06	20.54	21.50	1.247	0.851	22.1
Head Test data(50%RB)											
Left cheek	10	QPSK 25RB_13	23790/710	1:1	0.834	0.08	21.76	22.30	1.132	0.944	22.1
Left tilted	10	QPSK 25RB_13	23790/710	1:1	0.707	0.06	21.76	22.30	1.132	0.801	22.1
Right cheek	10	QPSK 25RB_0	23780/709	1:1	0.526	0.02	20.73	21.50	1.194	0.628	22.1
Right tilted	10	QPSK 25RB_0	23780/709	1:1	0.627	-0.04	20.73	21.50	1.194	0.749	22.1
Left cheek	10	QPSK 25RB_13	23780/709	1:1	0.829	0.00	21.69	22.30	1.151	0.954	22.1
Left cheek	10	QPSK 25RB_13	23800/711	1:1	0.839	0.05	21.66	22.30	1.159	0.972	22.1
Left tilted	10	QPSK 25RB_13	23780/709	1:1	0.668	-0.01	21.69	22.30	1.151	0.769	22.1
Left tilted	10	QPSK 25RB_13	23800/711	1:1	0.692	0.02	21.66	22.30	1.159	0.802	22.1
Head Test data(100%RB)											
Left cheek	10	QPSK 100RB_0	23790/710	1:1	0.846	0.07	21.74	22.30	1.138	0.962	22.1
Left tilted	10	QPSK 100RB_0	23790/710	1:1	0.732	0.04	21.74	22.30	1.138	0.833	22.1
Right tilted	10	QPSK 100RB_0	23800/711	1:1	0.679	0.12	20.72	21.50	1.197	0.813	22.1
Head Test Data at the worst case with Battery 2#											
Left cheek	10	QPSK 25RB_13	23800/711	1:1	0.845	0.01	21.66	22.30	1.159	0.979	22.1
Head Test Data at the worst case with Battery 3#											
Left cheek	10	QPSK 25RB_13	23800/711	1:1	0.855	0.13	21.66	22.30	1.159	**0.991**	22.1
Left cheek-repeat	10	QPSK 25RB_13	23800/711	1:1	0.824	0.07	21.66	22.30	1.159	0.955	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1RB_25	23790/710	1:1	0.199	-0.05	23.45	24.00	1.135	0.226	22.1
Back side	10	QPSK 1RB_25	23790/710	1:1	0.174	-0.01	23.45	24.00	1.135	0.197	22.1
Front side	10	QPSK 1RB_25	23780/709	1:1	0.190	-0.01	23.20	24.00	1.202	0.228	22.1
Front side	10	QPSK 1RB_25	23800/711	1:1	0.198	0.01	23.18	24.00	1.208	**0.239**	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	10	QPSK 25RB_25	23790/710	1:1	0.159	0.04	21.93	23.00	1.279	0.203	22.1
Back side	10	QPSK 25RB_25	23790/710	1:1	0.139	0.08	21.93	23.00	1.279	0.178	22.1
Body worn Test Data at the worst case with Battery 2#											
Front side	10	QPSK 1RB_25	23800/711	1:1	0.197	0.00	23.18	24.00	1.208	0.238	22.1
Body worn Test Data at the worst case with Battery 3#											
Front side	10	QPSK 1RB_25	23800/711	1:1	0.142	-0.11	23.18	24.00	1.208	0.172	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1RB_0	23800/711	1:1	0.173	0.03	20.38	21.00	1.153	0.200	22.1
Back side	10	QPSK 1RB_0	23800/711	1:1	0.167	0.03	20.38	21.00	1.153	0.193	22.1
Left side	10	QPSK 1RB_0	23800/711	1:1	0.062	0.01	20.38	21.00	1.153	0.072	22.1
Right side	10	QPSK 1RB_0	23800/711	1:1	0.012	0.02	20.38	21.00	1.153	0.014	22.1
Top side	10	QPSK 1RB_0	23800/711	1:1	0.125	0.02	20.38	21.00	1.153	0.144	22.1

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Hotspot Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25RB_0	23800/711	1:1	0.189	0.01	20.24	21.00	1.191	0.225	22.1
Back side	10	QPSK 25RB_0	23800/711	1:1	0.183	0.03	20.24	21.00	1.191	0.218	22.1
Left side	10	QPSK 25RB_0	23800/711	1:1	0.068	0.08	20.24	21.00	1.191	0.080	22.1
Right side	10	QPSK 25RB_0	23800/711	1:1	0.013	-0.10	20.24	21.00	1.191	0.015	22.1
Top side	10	QPSK 25RB_0	23800/711	1:1	0.135	0.04	20.24	21.00	1.191	0.161	22.1
Front side	10	QPSK 25RB_0	23780/709	1:1	0.236	0.03	20.16	21.00	1.213	0.286	22.1
Front side	10	QPSK 25RB_0	23790/710	1:1	0.238	0.08	20.15	21.00	1.216	0.289	22.1
Hotspot Test Data at the worst case with Battery 2#											
Front side	10	QPSK 25RB_0	23790/710	1:1	0.238	0.05	20.15	21.00	1.216	0.289	22.1
Hotspot Test Data at the worst case with Battery 3#											
Front side	10	QPSK 25RB_0	23790/710	1:1	0.243	0.03	20.15	21.00	1.216	**0.296**	22.1
Ant2 Additional Test data(simultaneous transmission with WIFI)											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data(1RB)											
Left cheek	10	QPSK 1RB_49	23800/711	1:1	0.408	0.08	18.42	19.30	1.225	0.500	22.1
Left tilted	10	QPSK 1RB_49	23800/712	1:1	0.341	0.06	18.42	19.30	1.225	0.418	22.1
Right tilted	10	QPSK 1RB_49	23800/711	1:1	0.314	0.08	17.44	18.50	1.276	0.401	22.1

Table 40：SAR of LTE Band 17 for Head and Body(Original report E5/2018/20036).

Ant1 Test data											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data at the worst case (1RB)											
Right cheek	10	QPSK 1RB_0	23780/709	1:1	0.130	0.09	23.66	24.00	1.081	0.141	22.1
Body worn Test data at the worst case (Separate 15mm 1RB)											
Back side	10	QPSK 1RB_0	23790/710	1:1	0.239	-0.02	23.54	24.00	1.112	0.266	22.1
Hotspot Test data at the worst case (Separate 10mm 1RB)											
Back side	10	QPSK 1RB_0	23790/710	1:1	0.340	0.00	23.54	24.00	1.112	0.378	22.1
Ant2 Test data											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test Data at the worst case with Battery 3#											
Left cheek	10	QPSK 25RB_13	23800/711	1:1	0.719	0.01	21.66	22.30	1.159	0.833	22.1
Body worn Test data at the worst case											
Front side	10	QPSK 1RB_25	23800/711	1:1	0.135	-0.03	23.18	24.00	1.208	0.163	22.1
Hotspot Test Data at the worst case with Battery 3#											
Front side	10	QPSK 25RB_0	23790/710	1:1	0.156	0.04	20.15	21.00	1.216	0.190	22.1

Table 41：SAR of LTE Band 17 for Head and Body(variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

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8.3.12 SAR Result of LTE Band 26

Ant1 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	15	QPSK 1RB_38	26765/821.5	1:1	0.143	0.04	23.35	24.00	1.161	0.166	22.1
Left tilted	15	QPSK 1RB_38	26765/821.5	1:1	0.086	-0.12	23.35	24.00	1.161	0.099	22.1
Right cheek	15	QPSK 1RB_38	26765/821.5	1:1	0.195	-0.05	23.35	24.00	1.161	0.226	22.1
Right tilted	15	QPSK 1RB_38	26765/821.5	1:1	0.090	0.06	23.35	24.00	1.161	0.105	22.1
Right cheek	15	QPSK 1RB_38	26865/831.5	1:1	0.217	0.01	23.29	24.00	1.178	**0.256**	22.1
Right tilted	15	QPSK 1RB_38	26965/841.5	1:1	0.215	0.03	23.27	24.00	1.183	0.254	22.1
Head Test data(50%RB)											
Left cheek	15	QPSK 36RB_39	26765/821.5	1:1	0.117	-0.06	22.33	23.00	1.167	0.137	22.1
Left tilted	15	QPSK 36RB_39	26765/821.5	1:1	0.068	-0.08	22.33	23.00	1.167	0.079	22.1
Right cheek	15	QPSK 36RB_39	26765/821.5	1:1	0.161	-0.11	22.33	23.00	1.167	0.188	22.1
Right tilted	15	QPSK 36RB_39	26765/821.5	1:1	0.075	-0.05	22.33	23.00	1.167	0.087	22.1
Head Test Data at the worst case with Battery 2#											
Right cheek	15	QPSK 1RB_38	26865/831.5	1:1	0.216	0.14	23.29	24.00	1.178	0.254	22.1
Head Test Data at the worst case with Battery 3#											
Right cheek	15	QPSK 1RB_38	26865/831.5	1:1	0.215	0.02	23.29	24.00	1.178	0.253	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	15	QPSK 1RB_38	26765/821.5	1:1	0.191	-0.09	23.35	24.00	1.161	0.222	22.1
Back side	15	QPSK 1RB_38	26765/821.5	1:1	0.210	0.05	23.35	24.00	1.161	0.244	22.1
Back side	15	QPSK 1RB_38	26865/831.5	1:1	0.252	0.04	23.29	24.00	1.178	0.297	22.1
Back side	15	QPSK 1RB_38	26965/841.5	1:1	0.307	0.07	23.27	24.00	1.183	**0.363**	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	15	QPSK 36RB_39	26765/821.5	1:1	0.162	-0.12	22.33	23.00	1.167	0.189	22.1
Back side	15	QPSK 36RB_39	26765/821.5	1:1	0.178	0.08	22.33	23.00	1.167	0.208	22.1
Body worn Test data at the worst case with Battery 2#											
Back side	15	QPSK 1RB_38	26965/841.5	1:1	0.233	-0.19	23.27	24.00	1.183	0.276	22.1
Body worn Test data at the worst case with Battery 3#											
Back side	15	QPSK 1RB_38	26965/841.5	1:1	0.271	0.06	23.27	24.00	1.183	0.321	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1RB_38	26765/821.5	1:1	0.328	-0.07	23.35	24.00	1.161	0.381	22.1
Back side	15	QPSK 1RB_38	26765/821.5	1:1	0.355	0.06	23.35	24.00	1.161	0.412	22.1
Left side	15	QPSK 1RB_38	26765/821.5	1:1	0.110	0.06	23.35	24.00	1.161	0.128	22.1
Right side	15	QPSK 1RB_38	26765/821.5	1:1	0.330	0.02	23.35	24.00	1.161	0.383	22.1
Bottom side	15	QPSK 1RB_38	26765/821.5	1:1	0.321	0.11	23.35	24.00	1.161	0.373	22.1
Back side	15	QPSK 1RB_38	26865/831.5	1:1	0.391	0.06	23.29	24.00	1.178	0.460	22.1
Back side	15	QPSK 1RB_38	26965/841.5	1:1	0.465	0.07	23.27	24.00	1.183	**0.550**	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Front side	15	QPSK 36RB_39	26765/821.5	1:1	0.273	-0.07	22.33	23.00	1.167	0.319	22.1
Back side	15	QPSK 36RB_39	26765/821.5	1:1	0.293	0.03	22.33	23.00	1.167	0.342	22.1
Left side	15	QPSK 36RB_39	26765/821.5	1:1	0.089	0.04	22.33	23.00	1.167	0.104	22.1
Right side	15	QPSK 36RB_39	26765/821.5	1:1	0.272	0.00	22.33	23.00	1.167	0.317	22.1
Bottom side	15	QPSK 36RB_39	26765/821.5	1:1	0.211	0.00	22.33	23.00	1.167	0.246	22.1
Hotspot Test data at the worst case with Battery 2#											
Back side	15	QPSK 1RB_38	26965/841.5	1:1	0.422	0.06	23.27	24.00	1.183	0.499	22.1
Hotspot Test data at the worst case with Battery 3#											
Back side	15	QPSK 1RB_38	26965/841.5	1:1	0.319	0.08	23.27	24.00	1.183	0.377	22.1

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Ant2 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	15	QPSK 1RB_0	26965/841.5	1:1	0.411	0.11	20.54	21.50	1.247	0.513	22.1
Left tilted	15	QPSK 1RB_0	26965/841.5	1:1	0.322	0.00	20.54	21.50	1.247	0.402	22.1
Right cheek	15	QPSK 1RB_0	26865/831.5	1:1	0.348	-0.03	20.55	21.50	1.245	0.433	22.1
Right tilted	15	QPSK 1RB_0	26865/831.5	1:1	0.269	0.02	20.55	21.50	1.245	0.335	22.1
Head Test data(50%RB)											
Left cheek	15	QPSK 36RB_18	26765/821.5	1:1	0.438	0.03	20.63	21.50	1.222	0.535	22.1
Left tilted	15	QPSK 36RB_18	26765/821.5	1:1	0.343	0.11	20.63	21.50	1.222	0.419	22.1
Right cheek	15	QPSK 36RB_18	26765/821.5	1:1	0.360	0.02	20.59	21.50	1.233	0.444	22.1
Right tilted	15	QPSK 36RB_18	26765/821.5	1:1	0.280	0.05	20.59	21.50	1.233	0.345	22.1
Left cheek	15	QPSK 36RB_18	26865/831.5	1:1	0.408	0.02	20.49	21.50	1.262	0.515	22.1
Left cheek	15	QPSK 36RB_18	26965/841.5	1:1	0.453	0.01	20.54	21.50	1.247	0.565	22.1
Head Test Data at the worst case with Battery 2#											
Left cheek	15	QPSK 36RB_18	26965/841.5	1:1	0.512	-0.02	20.54	21.50	1.247	0.639	22.1
Head Test Data at the worst case with Battery 3#											
Left cheek	15	QPSK 36RB_18	26965/841.5	1:1	0.529	-0.07	20.54	21.50	1.247	**0.660**	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	15	QPSK 1RB_38	26865/831.5	1:1	0.140	0.13	23.17	24.00	1.211	0.169	22.1
Back side	15	QPSK 1RB_38	26865/831.5	1:1	0.136	-0.07	23.17	24.00	1.211	0.165	22.1
Front side	15	QPSK 1RB_38	26765/821.5	1:1	0.160	0.11	23.06	24.00	1.242	**0.199**	22.1
Front side	15	QPSK 1RB_38	26965/841.5	1:1	0.143	0.08	23.07	24.00	1.239	0.177	22.1
Body worn Test data (Separate 15mm 50%RB)											
Front side	15	QPSK 36RB_0	26765/821.5	1:1	0.126	0.11	22.17	23.00	1.211	0.153	22.1
Back side	15	QPSK 36RB_0	26765/821.5	1:1	0.123	-0.07	22.17	23.00	1.211	0.149	22.1
Body worn Test Data at the worst case with Battery 2#											
Front side	15	QPSK 1RB_38	26765/821.5	1:1	0.158	0.14	23.06	24.00	1.242	0.196	22.1
Body worn Test Data at the worst case with Battery 3#											
Front side	15	QPSK 1RB_38	26765/821.5	1:1	0.146	-0.02	23.06	24.00	1.242	0.181	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	15	QPSK 1RB_0	26865/831.5	1:1	0.149	0.18	20.05	21.00	1.245	0.185	22.1
Back side	15	QPSK 1RB_0	26865/831.5	1:1	0.168	0.07	20.05	21.00	1.245	0.209	22.1
Left side	15	QPSK 1RB_0	26865/831.5	1:1	0.051	-0.02	20.05	21.00	1.245	0.064	22.1
Right side	15	QPSK 1RB_0	26865/831.5	1:1	0.010	0.02	20.05	21.00	1.245	0.012	22.1
Top side	15	QPSK 1RB_0	26865/831.5	1:1	0.110	0.07	20.05	21.00	1.245	0.137	22.1
Back side	15	QPSK 1RB_0	26765/821.5	1:1	0.205	-0.14	19.94	21.00	1.276	**0.262**	22.1
Back side	15	QPSK 1RB_0	26965/841.5	1:1	0.157	-0.16	19.92	21.00	1.282	0.201	22.1
Hotspot actived for WIFITest data (Separate 10mm 50%RB)											
Front side	15	QPSK 36RB_18	26865/831.5	1:1	0.145	0.16	20.08	21.00	1.236	0.179	22.1
Back side	15	QPSK 36RB_18	26865/831.5	1:1	0.162	-0.11	20.08	21.00	1.236	0.200	22.1
Left side	15	QPSK 36RB_18	26865/831.5	1:1	0.050	-0.05	20.08	21.00	1.236	0.062	22.1
Right side	15	QPSK 36RB_18	26865/831.5	1:1	0.009	-0.09	20.08	21.00	1.236	0.012	22.1
Top side	15	QPSK 36RB_18	26865/831.5	1:1	0.114	0.13	20.08	21.00	1.236	0.141	22.1
Hotspot Test Data at the worst case with Battery 2#											
Back side	15	QPSK 1RB_0	26765/821.5	1:1	0.156	-0.13	19.94	21.00	1.276	0.199	22.1
Hotspot Test Data at the worst case with Battery 3#											
Back side	15	QPSK 1RB_0	26765/821.5	1:1	0.168	-0.08	19.94	21.00	1.276	0.214	22.1

Table 42：SAR of LTE Band 26 for Head and Body(Original report E5/2018/20036).

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Ant1 Test data											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data at the worst case (1RB)											
Right cheek	15	QPSK 1RB_38	26865/831.5	1:1	0.179	0.12	23.29	24.00	1.178	0.211	22.1
Body worn Test data at the worst case (Separate 15mm 1RB)											
Back side	15	QPSK 1RB_38	26965/841.5	1:1	0.284	-0.02	23.27	24.00	1.183	0.336	22.1
Hotspot Test data at the worst case (Separate 10mm 1RB)											
Back side	15	QPSK 1RB_38	26965/841.5	1:1	0.462	0.01	23.27	24.00	1.183	0.547	22.1
Ant2 Test data											
Test position	**BW.**	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**SAR (W/kg)1-g**	**Power Drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test Data at the worst case with Battery 3#											
Left cheek	15	QPSK 36RB_18	26965/841.5	1:1	0.560	0.08	20.54	21.50	1.247	**0.699**	22.1
Body worn Test data at the worst case (Separate 15mm 1RB)											
Front side	15	QPSK 1RB_38	26765/821.5	1:1	0.166	-0.01	23.06	24.00	1.242	**0.206**	22.1
Hotspot Test data at the worst case (Separate 10mm 1RB)											
Back side	15	QPSK 1RB_0	26765/821.5	1:1	0.171	0.02	19.94	21.00	1.276	0.218	22.1

Table 43：SAR of LTE Band 26 for Head and Body(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

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8.3.13 SAR Result of LTE Band 38

Ant1 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	38150/2610	1:1.58	0.018	0.08	23.63	24.00	1.089	0.019	22.3
Left tilted	20	QPSK 1RB_99	38150/2610	1:1.58	0.008	0.01	23.63	24.00	1.089	0.009	22.3
Right cheek	20	QPSK 1RB_99	38150/2610	1:1.58	0.044	0.00	23.63	24.00	1.089	0.048	22.3
Right tilted	20	QPSK 1RB_99	38150/2610	1:1.58	0.016	0.03	23.63	24.00	1.089	0.017	22.3
Right cheek	20	QPSK 1RB_99	37850/2580	1:1.58	0.050	0.00	23.46	24.00	1.132	0.057	22.3
Right cheek	20	QPSK 1RB_99	38000/2595	1:1.58	0.048	0.08	23.54	24.00	1.112	0.053	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_50	38150/2610	1:1.58	0.013	0.00	22.47	23.00	1.130	0.015	22.3
Left tilted	20	QPSK 50RB_50	38150/2610	1:1.58	0.005	0.01	22.47	23.00	1.130	0.006	22.3
Right cheek	20	QPSK 50RB_50	38150/2610	1:1.58	0.034	0.00	22.47	23.00	1.130	0.038	22.3
Right tilted	20	QPSK 50RB_50	38150/2610	1:1.58	0.014	0.01	22.47	23.00	1.130	0.016	22.3
Head Test Data at the worst case with Battery 2#											
Right cheek	20	QPSK 1RB_99	37850/2580	1:1.58	0.065	0.08	23.46	24.00	1.132	**0.073**	22.3
Head Test Data at the worst case with Battery 3#											
Right cheek	20	QPSK 1RB_99	37850/2580	1:1.58	0.055	0.00	23.46	24.00	1.132	0.062	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	38150/2610	1:1.58	0.141	0.04	23.63	24.00	1.089	0.154	22.3
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.132	-0.01	23.63	24.00	1.089	0.144	22.3
Front side	20	QPSK 1RB_99	37850/2580	1:1.58	0.194	-0.03	23.46	24.00	1.132	0.220	22.3
Front side	20	QPSK 1RB_99	38000/2595	1:1.58	0.174	0.03	23.54	24.00	1.112	0.193	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_50	38150/2610	1:1.58	0.134	-0.02	22.47	23.00	1.130	0.151	22.3
Back side	20	QPSK 50RB_50	38150/2610	1:1.58	0.107	-0.02	22.47	23.00	1.130	0.121	22.3
Body worn Test Data at the worst case with Battery 2#											
Front side	20	QPSK 1RB_99	37850/2580	1:1.58	0.190	-0.06	23.46	24.00	1.132	0.215	22.3
Body worn Test Data at the worst case with Battery 3#											
Front side	20	QPSK 1RB_99	37850/2580	1:1.58	0.206	-0.06	23.46	24.00	1.132	**0.233**	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_99	38150/2610	1:1.58	0.214	-0.07	22.51	23.00	1.119	0.240	22.3
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.182	-0.02	22.51	23.00	1.119	0.204	22.3
Left side	20	QPSK 1RB_99	38150/2610	1:1.58	0.069	-0.03	22.51	23.00	1.119	0.077	22.3
Right side	20	QPSK 1RB_99	38150/2610	1:1.58	0.049	-0.02	22.51	23.00	1.119	0.055	22.3
Bottom side	20	QPSK 1RB_99	38150/2610	1:1.58	0.454	0.07	22.51	23.00	1.119	0.508	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_50	38150/2610	1:1.58	0.254	-0.06	22.50	23.00	1.122	0.285	22.3
Back side	20	QPSK 50RB_50	38150/2610	1:1.58	0.191	0.04	22.50	23.00	1.122	0.214	22.3
Left side	20	QPSK 50RB_50	38150/2610	1:1.58	0.071	-0.11	22.50	23.00	1.122	0.079	22.3
Right side	20	QPSK 50RB_50	38150/2610	1:1.58	0.049	-0.04	22.50	23.00	1.122	0.055	22.3
Bottom side	20	QPSK 50RB_50	38150/2610	1:1.58	0.459	-0.03	22.50	23.00	1.122	0.515	22.3
Bottom side	20	QPSK 50RB_50	37850/2580	1:1.58	0.532	-0.02	22.38	23.00	1.153	0.614	22.3
Bottom side	20	QPSK 50RB_50	38000/2595	1:1.58	0.486	0.00	22.43	23.00	1.140	0.554	22.3
Hotspot Test Data at the worst case with Battery 2#											
Bottom side	20	QPSK 50RB_50	37850/2580	1:1.58	0.527	-0.04	22.38	23.00	1.153	0.608	22.3
Hotspot Test Data at the worst case with Battery 3#											
Bottom side	20	QPSK 50RB_50	37850/2580	1:1.58	0.610	0.02	22.38	23.00	1.153	**0.704**	22.3

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Ant2 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_99	38150/2610	1:1.58	0.257	-0.05	19.29	19.80	1.125	0.289	22.3
Left tilted	20	QPSK 1RB_99	38150/2610	1:1.58	0.237	-0.02	19.29	19.80	1.125	0.267	22.3
Right cheek	20	QPSK 1RB_99	38150/2610	1:1.58	0.341	0.05	15.38	15.80	1.102	0.376	22.3
Right tilted	20	QPSK 1RB_99	38150/2610	1:1.58	0.368	0.03	15.38	15.80	1.102	0.405	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_50	38150/2610	1:1.58	0.243	0.02	19.21	19.80	1.146	0.278	22.3
Left tilted	20	QPSK 50RB_50	38150/2610	1:1.58	0.244	0.05	19.21	19.80	1.146	0.280	22.3
Right cheek	20	QPSK 50RB_50	38150/2610	1:1.58	0.338	0.11	15.31	15.80	1.119	0.378	22.3
Right tilted	20	QPSK 50RB_50	38150/2610	1:1.58	0.372	0.03	15.31	15.80	1.119	0.416	22.3
Right tilted	20	QPSK 50RB_50	37850/2580	1:1.58	0.426	0.12	15.19	15.80	1.151	0.490	22.3
Right tilted	20	QPSK 50RB_50	38000/2595	1:1.58	0.389	0.15	15.14	15.80	1.164	0.453	22.3
Head Test Data at the worst case with Battery 2#											
Right tilted	20	QPSK 50RB_50	37850/2580	1:1.58	0.459	0.00	15.19	15.80	1.151	**0.528**	22.3
Head Test Data at the worst case with Battery 3#											
Right tilted	20	QPSK 50RB_50	37850/2580	1:1.58	0.438	0.01	15.19	15.80	1.151	0.504	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_99	38000/2595	1:1.58	0.116	-0.10	21.18	21.80	1.153	0.134	22.3
Back side	20	QPSK 1RB_99	38000/2595	1:1.58	0.120	0.01	21.18	21.80	1.153	0.138	22.3
Back side	20	QPSK 1RB_99	37850/2580	1:1.58	0.137	-0.08	21.05	21.80	1.189	**0.163**	22.3
Back side	20	QPSK 1RB_99	38150/2610	1:1.58	0.114	0.05	21.08	21.80	1.180	0.135	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	37850/2580	1:1.58	0.113	0.09	21.07	21.80	1.183	0.134	22.3
Back side	20	QPSK 50RB_0	37850/2580	1:1.58	0.131	0.09	21.07	21.80	1.183	0.155	22.3
Body worn Test Data at the worst case with Battery 2#											
Back side	20	QPSK 1RB_99	37850/2580	1:1.58	0.092	0.05	21.05	21.80	1.189	0.109	22.3
Body worn Test Data at the worst case with Battery 3#											
Back side	20	QPSK 1RB_99	37850/2580	1:1.58	0.104	0.05	21.05	21.80	1.189	0.124	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_0	37850/2580	1:1.58	0.137	0.03	18.26	18.80	1.132	0.155	22.3
Back side	20	QPSK 1RB_0	37850/2581	1:1.58	0.150	0.01	18.26	18.80	1.132	0.170	22.3
Left side	20	QPSK 1RB_0	37850/2582	1:1.58	0.068	0.01	18.26	18.80	1.132	0.077	22.3
Right side	20	QPSK 1RB_0	37850/2583	1:1.58	0.020	-0.08	18.26	18.80	1.132	0.023	22.3
Top side	20	QPSK 1RB_0	37850/2584	1:1.58	0.219	-0.12	18.26	18.80	1.132	0.248	22.3
Top side	20	QPSK 1RB_0	38000/2595	1:1.58	0.177	-0.01	17.97	18.80	1.211	0.214	22.3
Top side	20	QPSK 1RB_0	38150/2610	1:1.58	0.184	-0.05	18.17	18.80	1.156	0.213	22.3
Hotspot actived for WIFI Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	37850/2580	1:1.58	0.135	0.09	18.08	18.80	1.180	0.159	22.3
Back side	20	QPSK 50RB_0	37850/2581	1:1.58	0.146	0.02	18.08	18.80	1.180	0.172	22.3
Left side	20	QPSK 50RB_0	37850/2582	1:1.58	0.066	0.09	18.08	18.80	1.180	0.078	22.3
Right side	20	QPSK 50RB_0	37850/2583	1:1.58	0.020	-0.05	18.08	18.80	1.180	0.024	22.3
Top side	20	QPSK 50RB_0	37850/2584	1:1.58	0.204	-0.04	18.08	18.80	1.180	0.241	22.3
Hotspot Test Data at the worst case with Battery 2#											
Top side	20	QPSK 1RB_0	37850/2584	1:1.58	0.246	0.08	18.26	18.80	1.132	**0.279**	22.3
Hotspot Test Data at the worst case with Battery 3#											
Top side	20	QPSK 1RB_0	37850/2584	1:1.58	0.215	0.11	18.26	18.80	1.132	0.243	22.3

Table 44：SAR of LTE Band 38 for Head and Body(Original report E5/2018/20036).

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Ant1 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test Data at the worst case with Battery 2#											
Right cheek	20	QPSK 1RB_99	37850/2580	1:1.58	0.020	0.03	22.02	23.00	1.253	0.025	22.3
Body worn Test Data at the worst case with Battery 3#											
Front side	20	QPSK 1RB_99	37850/2580	1:1.58	0.083	0.05	22.02	23.00	1.253	0.104	22.3
Hotspot Test Data at the worst case with Battery 3#											
Bottom side	20	QPSK 50RB_50	37850/2580	1:1.58	0.332	0.00	20.61	22.00	1.377	0.457	22.3
Ant2 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test Data at the worst case with Battery 2#											
Right tilted	20	QPSK 50RB_50	37850/2580	1:1.58	0.171	0.04	13.55	14.50	1.245	0.213	22.3
Body worn Test data(Separate 15mm 1RB)											
Back side	20	QPSK 1RB_99	37850/2580	1:1.58	0.121	0.11	19.58	20.50	1.236	0.150	22.3
Hotspot Test Data at the worst case with Battery 2#											
Top side	20	QPSK 1RB_0	37850/2584	1:1.58	0.103	-0.01	16.34	17.50	1.306	0.135	22.3

Table 45：SAR of LTE Band 38 for Head and Body(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B

2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

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8.3.14 SAR Result of LTE Band 41

Ant1 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_50	40240/2555	1:1.58	0.017	0.04	22.14	23.00	1.219	0.021	22.3
Left tilted	20	QPSK 1RB_50	40240/2555	1:1.58	0.010	0.05	22.14	23.00	1.219	0.012	22.3
Right cheek	20	QPSK 1RB_50	40240/2555	1:1.58	0.055	0.04	22.14	23.00	1.219	0.067	22.3
Right tilted	20	QPSK 1RB_50	40240/2555	1:1.58	0.020	-0.14	22.14	23.00	1.219	0.025	22.3
Right cheek	20	QPSK 1RB_50	40540/2585	1:1.58	0.045	0.07	21.90	23.00	1.288	0.058	22.3
Right cheek	20	QPSK 1RB_50	40840/2615	1:1.58	0.047	0.02	21.84	23.00	1.306	0.061	22.3
Right cheek	20	QPSK 1RB_50	41140/2645	1:1.58	0.048	-0.01	21.86	23.00	1.300	0.062	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	40540/2585	1:1.58	0.017	-0.03	21.27	22.00	1.183	0.020	22.3
Left tilted	20	QPSK 50RB_0	40540/2585	1:1.58	0.008	-0.19	21.27	22.00	1.183	0.009	22.3
Right cheek	20	QPSK 50RB_0	40540/2585	1:1.58	0.034	0.07	21.27	22.00	1.183	0.041	22.3
Right tilted	20	QPSK 50RB_0	40540/2585	1:1.58	0.016	0.06	21.27	22.00	1.183	0.019	22.3
Head Test Data at the worst case with Battery 2#											
Right cheek	20	QPSK 1RB_50	40240/2555	1:1.58	0.064	0.00	22.14	23.00	1.219	**0.078**	22.3
Head Test Data at the worst case with Battery 3#											
Right cheek	20	QPSK 1RB_50	40240/2555	1:1.58	0.055	0.06	22.14	23.00	1.219	0.067	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_50	40240/2555	1:1.58	**0.166**	0.17	22.14	23.00	1.219	0.202	22.3
Back side	20	QPSK 1RB_50	40240/2555	1:1.58	0.147	0.02	22.14	23.00	1.219	0.179	22.3
Front side	20	QPSK 1RB_50	40540/2585	1:1.58	0.152	0.02	21.90	23.00	1.288	0.196	22.3
Front side	20	QPSK 1RB_50	40840/2615	1:1.58	0.159	-0.02	21.84	23.00	1.306	**0.208**	22.3
Front side	20	QPSK 1RB_50	41140/2645	1:1.58	0.107	-0.04	21.86	23.00	1.300	0.139	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	40540/2585	1:1.58	0.090	0.08	21.27	22.00	1.183	0.106	22.3
Back side	20	QPSK 50RB_0	40540/2585	1:1.58	0.070	-0.08	21.27	22.00	1.183	0.082	22.3
Body worn Test Data at the worst case with Battery 2#											
Front side	20	QPSK 1RB_50	40840/2615	1:1.58	0.106	-0.05	21.84	23.00	1.306	0.138	22.3
Body worn Test Data at the worst case with Battery 3#											
Front side	20	QPSK 1RB_50	40840/2615	1:1.58	0.102	-0.01	21.84	23.00	1.306	0.133	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	40240/2555	1:1.58	0.158	-0.09	19.15	20.50	1.365	0.216	22.3
Back side	20	QPSK 1RB_50	40240/2555	1:1.58	0.136	0.03	19.15	20.50	1.365	0.186	22.3
Left side	20	QPSK 1RB_50	40240/2555	1:1.58	0.069	-0.15	19.15	20.50	1.365	0.094	22.3
Right side	20	QPSK 1RB_50	40240/2555	1:1.58	0.048	-0.01	19.15	20.50	1.365	0.065	22.3
Bottom side	20	QPSK 1RB_50	40240/2555	1:1.58	**0.350**	-0.01	19.15	20.50	1.365	**0.478**	22.3
Bottom side	20	QPSK 1RB_50	40540/2585	1:1.58	0.259	-0.06	19.11	20.50	1.377	0.357	22.3
Bottom side	20	QPSK 1RB_50	40840/2615	1:1.58	0.248	-0.05	19.03	20.50	1.403	0.348	22.3
Bottom side	20	QPSK 1RB_50	41140/2645	1:1.58	0.193	-0.01	18.99	20.50	1.416	0.273	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	40840/2615	1:1.58	0.130	-0.19	19.29	20.50	1.321	0.172	22.3
Back side	20	QPSK 50RB_0	40840/2615	1:1.58	0.113	-0.08	19.29	20.50	1.321	0.149	22.3
Left side	20	QPSK 50RB_0	40840/2615	1:1.58	0.048	-0.03	19.29	20.50	1.321	0.063	22.3
Right side	20	QPSK 50RB_0	40840/2615	1:1.58	0.034	-0.18	19.29	20.50	1.321	0.045	22.3
Bottom side	20	QPSK 50RB_0	40840/2615	1:1.58	0.286	0.14	19.29	20.50	1.321	0.378	22.3
Hotspot Test Data at the worst case with Battery 2#											
Bottom side	20	QPSK 1RB_50	40240/2555	1:1.58	0.299	0.05	19.15	20.50	1.365	0.408	22.3
Hotspot Test Data at the worst case with Battery 3#											
Bottom side	20	QPSK 1RB_50	40240/2555	1:1.58	0.330	0.05	19.15	20.50	1.365	0.450	22.3

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Ant2 Test data											
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data(1RB)											
Left cheek	20	QPSK 1RB_50	40240/2555	1:1.58	0.425	0.01	18.20	19.00	1.202	0.511	22.3
Left tilted	20	QPSK 1RB_50	40240/2555	1:1.58	0.401	-0.11	18.20	19.00	1.202	0.482	22.3
Right cheek	20	QPSK 1RB_50	40240/2555	1:1.58	0.359	0.08	14.65	15.00	1.084	0.389	22.3
Right tilted	20	QPSK 1RB_50	40240/2555	1:1.58	0.316	-0.02	14.65	15.00	1.084	0.343	22.3
Left cheek	20	QPSK 1RB_50	40540/2585	1:1.58	0.432	0.09	17.99	19.00	1.262	0.545	22.3
Left cheek	20	QPSK 1RB_50	40840/2615	1:1.58	0.381	0.19	18.13	19.00	1.222	0.466	22.3
Left cheek	20	QPSK 1RB_50	41140/2645	1:1.58	0.219	0.08	17.86	19.00	1.300	0.285	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50RB_0	40840/2615	1:1.58	0.404	0.04	18.66	19.00	1.081	0.437	22.3
Left tilted	20	QPSK 50RB_0	40840/2615	1:1.58	0.393	0.13	18.66	19.00	1.081	0.425	22.3
Right cheek	20	QPSK 50RB_0	40840/2615	1:1.58	0.359	-0.03	14.68	15.00	1.076	0.386	22.3
Right tilted	20	QPSK 50RB_0	40840/2615	1:1.58	0.290	-0.05	14.68	15.00	1.076	0.312	22.3
Head Test Data at the worst case with Battery 2#											
Left cheek	20	QPSK 1RB_50	40540/2585	1:1.58	0.408	-0.02	17.99	19.00	1.262	0.515	22.3
Head Test Data at the worst case with Battery 3#											
Left cheek	20	QPSK 1RB_50	40540/2585	1:1.58	**0.450**	0.14	17.99	19.00	1.262	**0.568**	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1RB_50	40840/2615	1:1.58	0.057	-0.01	19.64	20.50	1.219	0.070	22.3
Back side	20	QPSK 1RB_50	40840/2615	1:1.58	0.078	-0.09	19.64	20.50	1.219	0.095	22.3
Back side	20	QPSK 1RB_50	40240/2555	1:1.58	0.073	-0.18	19.47	20.50	1.268	0.092	22.3
Back side	20	QPSK 1RB_50	40540/2585	1:1.58	**0.086**	-0.01	19.39	20.50	1.291	**0.111**	22.3
Back side	20	QPSK 1RB_50	41140/2645	1:1.58	0.058	-0.06	18.38	20.50	1.629	0.094	22.3
Body worn Test data (Separate 15mm 50%RB)											
Front side	20	QPSK 50RB_0	40840/2615	1:1.58	0.057	-0.07	20.11	20.50	1.094	0.062	22.3
Back side	20	QPSK 50RB_0	40840/2615	1:1.58	0.083	-0.04	20.11	20.50	1.094	0.091	22.3
Body worn Test Data at the worst case with Battery 2#											
Back side	20	QPSK 1RB_50	40840/2615	1:1.58	0.073	-0.06	19.64	20.50	1.219	0.089	22.3
Body worn Test Data at the worst case with Battery 3#											
Back side	20	QPSK 1RB_50	40840/2615	1:1.58	0.075	-0.04	19.64	20.50	1.219	0.091	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1RB_50	40840/2615	1:1.58	0.071	-0.06	16.62	17.50	1.225	0.087	22.3
Back side	20	QPSK 1RB_50	40840/2615	1:1.58	0.095	-0.01	16.62	17.50	1.225	0.116	22.3
Left side	20	QPSK 1RB_50	40840/2615	1:1.58	0.085	0.04	16.62	17.50	1.225	0.104	22.3
Right side	20	QPSK 1RB_50	40840/2615	1:1.58	0.022	-0.17	16.62	17.50	1.225	0.027	22.3
Top side	20	QPSK 1RB_50	40840/2615	1:1.58	0.126	-0.01	16.62	17.50	1.225	0.154	22.3
Top side	20	QPSK 1RB_50	40240/2555	1:1.58	**0.160**	-0.01	16.21	17.50	1.346	**0.215**	22.3
Top side	20	QPSK 1RB_50	40540/2585	1:1.58	0.130	0.00	16.51	17.50	1.256	0.163	22.3
Top side	20	QPSK 1RB_50	41140/2645	1:1.58	0.115	-0.04	15.77	17.50	1.489	0.171	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50RB_0	40840/2615	1:1.58	0.078	-0.07	17.20	17.50	1.072	0.084	22.3
Back side	20	QPSK 50RB_0	40840/2615	1:1.58	0.098	-0.06	17.20	17.50	1.072	0.104	22.3
Left side	20	QPSK 50RB_0	40840/2615	1:1.58	0.086	-0.06	17.20	17.50	1.072	0.092	22.3
Right side	20	QPSK 50RB_0	40840/2615	1:1.58	0.023	-0.01	17.20	17.50	1.072	0.025	22.3
Top side	20	QPSK 50RB_0	40840/2615	1:1.58	0.138	-0.08	17.20	17.50	1.072	0.148	22.3
Hotspot Test Data at the worst case with Battery 2#											
Top side	20	QPSK 1RB_50	40240/2555	1:1.58	0.106	-0.07	16.21	17.50	1.346	0.143	22.3
Hotspot Test Data at the worst case with Battery 3#											
Top side	20	QPSK 1RB_50	40240/2555	1:1.58	0.108	-0.02	16.21	17.50	1.346	0.145	22.3

Table 46：SAR of LTE Band 41 for Head and Body(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B

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2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

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8.3.15 SAR Result of 2.4GHz WIFI

WiFi 1 Test data											
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**Duty Cycle Scaled factor**	**SAR (W/kg)1-g**	**Power drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data											
Left cheek	802.11b	6/2437	99.09%	1.009	0.377	-0.14	15.28	16.50	1.324	0.504	22.0
Left tilted	802.11b	6/2437	99.09%	1.009	0.462	-0.03	15.28	16.50	1.324	0.617	22.0
Right cheek	802.11b	6/2437	99.09%	1.009	0.219	0.12	15.28	16.50	1.324	0.293	22.0
Right tilted	802.11b	6/2437	99.09%	1.009	0.291	0.05	15.28	16.50	1.324	0.389	22.0
Left tilted	802.11b	1/2412	99.09%	1.009	0.461	-0.16	15.16	16.50	1.361	**0.633**	22.0
Left tilted	802.11b	11/2462	99.09%	1.009	0.307	0.02	15.25	16.50	1.334	0.413	22.0
Head Test Data at the worst case with Battery 2#											
Left tilted	802.11b	1/2412	99.09%	1.009	0.457	-0.19	15.16	16.50	1.361	0.622	22.0
Head Test Data at the worst case with Battery 3#											
Left tilted	802.11b	1/2412	99.09%	1.009	0.439	0.08	15.16	16.50	1.361	0.598	22.0
Body worn Test data(Separate 15mm)											
Front side	802.11b	6/2437	99.09%	1.009	0.096	0.07	18.36	19.50	1.300	0.125	22.0
Back side	802.11b	6/2437	99.09%	1.009	0.124	-0.05	18.36	19.50	1.300	0.163	22.0
Back side	802.11b	1/2412	99.09%	1.009	0.135	-0.04	18.24	19.50	1.337	**0.182**	22.0
Back side	802.11b	11/2462	99.09%	1.009	0.073	0.03	17.89	18.00	1.026	0.076	22.0
Body worn Test Data at the worst case with Battery 2#											
Back side	802.11b	1/2412	99.09%	1.009	0.133	0.19	18.24	19.50	1.337	0.178	22.0
Body worn Test Data at the worst case with Battery 3#											
Back side	802.11b	1/2412	99.09%	1.009	0.125	-0.05	18.24	19.50	1.337	0.167	22.0
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	99.09%	1.009	0.167	0.06	18.36	19.50	1.300	0.219	22.0
Back side	802.11b	6/2437	99.09%	1.009	0.223	-0.04	18.36	19.50	1.300	0.293	22.0
Right side	802.11b	6/2437	99.09%	1.009	0.136	-0.15	18.36	19.50	1.300	0.178	22.0
Top side	802.11b	6/2437	99.09%	1.009	0.437	0.10	18.36	19.50	1.300	0.573	22.0
Top side	802.11b	1/2412	99.09%	1.009	0.475	0.03	18.24	19.50	1.337	**0.641**	22.0
Top side	802.11b	11/2462	99.09%	1.009	0.219	0.15	17.89	18.00	1.026	0.227	22.0
Hotspot Test Data at the worst case with Battery 2#											
Top side	802.11b	1/2412	99.09%	1.009	0.357	-0.03	18.24	19.50	1.337	0.477	22.0
Hotspot Test Data at the worst case with Battery 3#											
Top side	802.11b	1/2412	99.09%	1.009	0.400	0.03	18.24	19.50	1.337	0.535	22.0
WiFi 2 Test data											
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**Duty Cycle Scaled factor**	**SAR (W/kg)1-g**	**Power drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data											
Left cheek	802.11b	1/2412	98.85%	1.012	0.008	-0.04	17.44	19.00	1.432	0.012	22.0
Left tilted	802.11b	1/2412	98.85%	1.012	0.004	-0.07	17.44	19.00	1.432	0.006	22.0
Right cheek	802.11b	1/2412	98.85%	1.012	0.045	0.02	17.44	19.00	1.432	0.066	22.0
Right tilted	802.11b	1/2412	98.85%	1.012	0.026	0.07	17.44	19.00	1.432	0.037	22.0
Right cheek	802.11b	6/2437	98.85%	1.012	0.046	0.06	17.09	19.00	1.552	**0.073**	22.0
Right cheek	802.11b	11/2462	98.85%	1.012	0.046	0.00	17.89	18.00	1.026	0.048	22.0
Head Test Data at the worst case with Battery 2#											
Right cheek	802.11b	6/2437	98.85%	1.012	0.046	0.03	17.09	19.00	1.552	0.071	22.0
Head Test Data at the worst case with Battery 3#											
Right cheek	802.11b	6/2437	98.85%	1.012	0.044	0.12	17.09	19.00	1.552	0.069	22.0
Body worn Test data(Separate 15mm)											
Front side	802.11b	1/2412	98.85%	1.012	0.006	-0.06	18.08	19.00	1.236	0.007	22.0
Back side	802.11b	1/2412	98.85%	1.012	0.040	-0.02	18.08	19.00	1.236	0.050	22.0
Back side	802.11b	6/2437	98.85%	1.012	0.047	-0.05	17.67	19.00	1.358	**0.065**	22.0

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Back side	802.11b	11/2462	98.85%	1.012	0.045	-0.07	17.65	18.00	1.084	0.050	22.0
Body worn Test Data at the worst case with Battery 2#											
Back side	802.11b	6/2437	98.85%	1.012	0.029	-0.05	17.67	19.00	1.358	0.040	22.0
Body worn Test Data at the worst case with Battery 3#											
Back side	802.11b	6/2437	98.85%	1.012	0.037	-0.04	17.67	19.00	1.358	0.050	22.0
Hotspot Test data (Separate 10mm)											
Front side	802.11b	1/2412	98.85%	1.012	0.007	0.12	18.08	19.00	1.236	0.009	22.0
Back side	802.11b	1/2412	98.85%	1.012	0.080	-0.03	18.08	19.00	1.236	0.100	22.0
Left side	802.11b	1/2412	98.85%	1.012	0.026	-0.03	18.08	19.00	1.236	0.033	22.0
Top side	802.11b	1/2412	98.85%	1.012	0.003	-0.04	18.08	19.00	1.236	0.003	22.0
Back side	802.11b	6/2437	98.85%	1.012	0.084	-0.03	17.67	19.00	1.358	0.116	22.0
Back side	802.11b	11/2462	98.85%	1.012	0.114	-0.19	17.65	18.00	1.084	**0.125**	22.0
Hotspot Test Data at the worst case with Battery 2#											
Back side	802.11b	11/2462	98.85%	1.012	0.105	-0.03	17.65	18.00	1.084	0.114	22.0
Hotspot Test Data at the worst case with Battery 3#											
Back side	802.11b	11/2462	98.85%	1.012	0.090	-0.01	17.65	18.00	1.084	0.097	22.0

Table 47：SAR of 2.4GHz WIFI for Head and Body(Original report E5/2018/20036).

WiFi 1 Test data											
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**Duty Cycle Scaled factor**	**SAR (W/kg)1-g**	**Power drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data at the worst case											
Left tilted	802.11b	1/2412	99.09%	1.009	0.550	0.09	15.16	16.50	1.361	**0.756**	22.0
Body worn Test data at the worst case (Separate 15mm)											
Back side	802.11b	1/2412	99.09%	1.009	0.115	-0.07	18.24	19.50	1.337	0.155	22.0
Hotspot Test data at the worst case (Separate 10mm)											
Top side	802.11b	1/2412	99.09%	1.009	0.520	-0.06	18.24	19.50	1.337	**0.701**	22.0
WiFi 2 Test data											
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**Duty Cycle Scaled factor**	**SAR (W/kg)1-g**	**Power drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data at the worst case											
Right cheek	802.11b	6/2437	98.85%	1.012	0.098	-0.04	17.09	19.00	1.552	**0.154**	22.0
Body worn Test data at the worst case (Separate 15mm)											
Back side	802.11b	6/2437	98.85%	1.012	0.076	-0.05	17.67	19.00	1.358	**0.104**	22.0
Hotspot Test data at the worst case (Separate 10mm)											
Back side	802.11b	11/2462	98.85%	1.012	0.226	-0.07	17.65	18.00	1.084	**0.248**	22.0

Table 48：SAR of 2.4GHz WIFI for Head and Body(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B

2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

3) Each channel was tested at the lowest data rate.

4) 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, 802.11g/n OFDM SAR Test is not required.

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8.3.16 SAR Result of 5GHz WIFI

WiFi 1 Test data											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data U-NII-2A											
Left cheek	802.11ac-80M	58/5290	91.32%	1.095	0.131	0.08	9.21	11.00	1.510	0.217	22.0
Left tilted	802.11ac-80M	58/5290	91.32%	1.095	0.178	0.01	9.21	11.00	1.510	0.294	22.0
Right cheek	802.11ac-80M	58/5290	91.32%	1.095	0.113	-0.04	9.21	11.00	1.510	0.187	22.0
Right tilted	802.11ac-80M	58/5290	91.32%	1.095	0.151	-0.02	9.21	11.00	1.510	0.250	22.0
Head Test data U-NII-2C											
Left cheek	802.11ac-80M	138/5690	91.32%	1.095	0.239	0.03	7.32	9.00	1.472	0.385	22.0
Left tilted	802.11ac-80M	138/5690	91.32%	1.095	0.320	0.01	7.32	9.00	1.472	**0.516**	22.0
Right cheek	802.11ac-80M	138/5690	91.32%	1.095	0.148	-0.02	7.32	9.00	1.472	0.239	22.0
Right tilted	802.11ac-80M	138/5690	91.32%	1.095	0.176	0.07	7.32	9.00	1.472	0.284	22.0
Left tilted	802.11ac-80M	106/5530	91.32%	1.095	0.204	0.01	7.24	9.00	1.500	0.335	22.0
Left tilted	802.11ac-80M	122/5610	91.32%	1.095	0.243	0.12	7.14	9.00	1.535	0.408	22.0
Head Test data U-NII-3											
Left cheek	802.11ac-80M	155/5775	91.32%	1.095	0.253	0.09	7.38	9.00	1.452	0.402	22.0
Left tilted	802.11ac-80M	155/5775	91.32%	1.095	0.317	-0.12	7.38	9.00	1.452	0.504	22.0
Right cheek	802.11ac-80M	155/5775	91.32%	1.095	0.150	0.07	7.38	9.00	1.452	0.239	22.0
Right tilted	802.11ac-80M	155/5775	91.32%	1.095	0.176	0.19	7.38	9.00	1.452	0.280	22.0
Head Test Data at the worst case with Battery 2#											
Left tilted	802.11ac-80M	138/5690	91.32%	1.095	0.303	0.02	7.38	9.00	1.452	0.440	22.0
Head Test Data at the worst case with Battery 3#											
Left tilted	802.11ac-80M	138/5690	91.32%	1.095	0.318	0.03	7.38	9.00	1.452	0.462	22.0
Body worn Test data U-NII-2A(Separate 15mm)											
Front side	802.11a	56/5280	93.11%	1.074	0.025	0.01	15.41	17.00	1.442	0.039	22.0
Back side	802.11a	56/5280	93.11%	1.074	0.057	-0.14	15.41	17.00	1.442	0.088	22.0
Back side	802.11a	52/5260	93.11%	1.074	0.025	0.00	15.28	17.00	1.486	0.040	22.0
Back side	802.11a	64/5320	93.11%	1.074	0.013	0.05	12.36	14.00	1.459	0.021	22.0
Body worn Test data U-NII-2C(Separate 15mm)											
Front side	802.11a	136/5680	93.11%	1.074	0.084	0.12	15.31	17.00	1.476	0.133	22.0
Back side	802.11a	136/5680	93.11%	1.074	0.154	0.10	15.31	17.00	1.476	**0.244**	22.0
Back side	802.11a	104/5520	93.11%	1.074	0.075	0.15	15.18	17.00	1.521	0.123	22.0
Back side	802.11a	116/5580	93.11%	1.074	0.091	0.08	15.28	17.00	1.486	0.146	22.0
Back side	802.11a	100/5500	93.11%	1.074	0.032	0.08	12.33	14.00	1.469	0.050	22.0
Back side	802.11a	144/5720	93.11%	1.074	0.048	0.00	12.41	14.00	1.442	0.074	22.0
Body worn Test data U-NII-3(Separate 15mm)											
Front side	802.11a	149/5745	93.11%	1.074	0.077	0.13	15.54	17.00	1.400	0.116	22.0
Back side	802.11a	149/5745	93.11%	1.074	0.140	0.12	15.54	17.00	1.400	0.210	22.0
Back side	802.11a	157/5785	93.11%	1.074	0.109	-0.08	15.29	17.00	1.483	0.174	22.0
Back side	802.11a	165/5825	93.11%	1.074	0.103	0.02	15.24	17.00	1.500	0.166	22.0
Body worn Data at the worst case with Battery 2#											
Back side	802.11a	136/5680	93.11%	1.074	0.143	0.00	15.31	17.00	1.476	0.211	22.0
Body worn Data at the worst case with Battery 3#											
Back side	802.11a	136/5680	93.11%	1.074	0.142	0.19	15.31	17.00	1.476	0.210	22.0
Hotspot Test data U-NII-1(Separate 10mm)											
Front side	802.11a	44/5220	93.11%	1.074	0.032	0.12	15.25	17.00	1.496	0.051	22.0
Back side	802.11a	44/5220	93.11%	1.074	0.075	-0.18	15.25	17.00	1.496	0.121	22.0
Right side	802.11a	44/5220	93.11%	1.074	0.023	-0.03	15.25	17.00	1.496	0.037	22.0
Top side	802.11a	44/5220	93.11%	1.074	0.120	0.12	15.25	17.00	1.496	0.193	22.0
Top side	802.11a	36/5180	93.11%	1.074	0.026	0.09	12.27	14.00	1.489	0.042	22.0
Top side	802.11a	48/5240	93.11%	1.074	0.061	0.02	15.02	17.00	1.578	0.103	22.0

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Hotspot Test data U-NII-3(Separate 10mm)											
Front side	802.11a	149/5745	93.11%	1.074	0.154	0.11	15.54	17.00	1.400	0.231	22.0
Back side	802.11a	149/5745	93.11%	1.074	0.231	0.13	15.54	17.00	1.400	0.347	22.0
Right side	802.11a	149/5745	93.11%	1.074	0.086	0.07	15.54	17.00	1.400	0.129	22.0
Top side	802.11a	149/5745	93.11%	1.074	0.466	-0.06	15.54	17.00	1.400	**0.700**	22.0
Top side	802.11a	157/5785	93.11%	1.074	0.309	-0.09	15.29	17.00	1.483	0.492	22.0
Top side	802.11a	165/5825	93.11%	1.074	0.298	-0.03	15.24	17.00	1.500	0.480	22.0
Hotspot Test Data at the worst case with Battery 2#											
Top side	802.11a	149/5745	93.11%	1.074	0.376	-0.17	15.54	17.00	1.400	0.526	22.0
Hotspot Test Data at the worst case with Battery 3#											
Top side	802.11a	149/5745	93.11%	1.074	0.328	-0.13	15.54	17.00	1.400	0.459	22.0
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**Duty Cycle Scaled factor**	**SAR (W/kg)10-g**	**Power drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
product specific 10gSAR Test data U-NII-2A(Separate 0mm)											
Front side	802.11a	56/5280	93.11%	1.074	0.334	0.09	15.41	17.00	1.442	0.517	22.0
Back side	802.11a	56/5280	93.11%	1.074	0.278	-0.16	15.41	17.00	1.442	0.431	22.0
Right side	802.11a	56/5280	93.11%	1.074	0.030	0.05	15.41	17.00	1.442	0.046	22.0
Top side	802.11a	56/5280	93.11%	1.074	0.523	0.09	15.41	17.00	1.442	0.810	22.0
Top side	802.11a	52/5260	93.11%	1.074	0.505	0.08	15.28	17.00	1.486	0.806	22.0
Top side	802.11a	64/5320	93.11%	1.074	0.275	0.12	12.36	17.00	2.911	0.860	22.0
product specific 10gSAR Test data U-NII-2C(Separate 0mm)											
Front side	802.11a	136/5680	93.11%	1.074	0.881	0.00	15.31	17.00	1.476	1.396	22.0
Back side	802.11a	136/5680	93.11%	1.074	0.563	0.17	15.31	17.00	1.476	0.892	22.0
Right side	802.11a	136/5680	93.11%	1.074	0.117	0.09	15.31	17.00	1.476	0.185	22.0
Top side	802.11a	136/5680	93.11%	1.074	0.900	0.01	15.31	17.00	1.476	**1.426**	22.0
Top side	802.11a	104/5520	93.11%	1.074	0.743	0.10	15.18	17.00	1.521	1.213	22.0
Top side	802.11a	116/5580	93.11%	1.074	0.780	0.05	15.28	17.00	1.486	1.245	22.0
Top side	802.11a	100/5500	93.11%	1.074	0.356	0.09	12.33	14.00	1.469	0.562	22.0
Top side	802.11a	144/5720	93.11%	1.074	0.347	0.09	12.41	14.00	1.442	0.537	22.0
product specific 10gSAR Test Data at the worst case with Battery 2#											
Top side	802.11a	136/5680	93.11%	1.074	0.765	0.18	15.31	17.00	1.476	1.129	22.0
product specific 10gSAR Test Data at the worst case with Battery 3#											
Top side	802.11a	136/5680	93.11%	1.074	0.813	0.13	15.31	17.00	1.476	1.200	22.0
WiFi 2 Test data											
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**Duty Cycle Scaled factor**	**SAR (W/kg)1-g**	**Power drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data U-NII-2A											
Left cheek	802.11n 40M	54/5270	91.74%	1.09	0.090	0.09	9.79	11.00	1.321	0.130	22.0
Left tilted	802.11n 40M	54/5270	91.74%	1.09	0.104	0.08	9.79	11.00	1.321	0.150	22.0
Right cheek	802.11n 40M	54/5270	91.74%	1.09	0.262	0.04	9.79	11.00	1.321	0.377	22.0
Right tilted	802.11n 40M	54/5270	91.74%	1.09	0.304	0.09	9.79	11.00	1.321	0.438	22.0
Right tilted	802.11n 40M	62/5310	91.74%	1.09	0.157	-0.03	8.89	10.00	1.291	0.221	22.0
Head Test data U-NII-2C											
Left cheek	802.11n 40M	134/5670	91.74%	1.09	0.184	0.09	10.13	11.00	1.222	0.245	22.0
Left tilted	802.11n 40M	134/5670	91.74%	1.09	0.237	0.02	10.13	11.00	1.222	0.316	22.0
Right cheek	802.11n 40M	134/5670	91.74%	1.09	0.355	0.16	10.13	11.00	1.222	**0.473**	22.0
Right tilted	802.11n 40M	134/5670	91.74%	1.09	0.340	0.11	10.13	11.00	1.222	0.453	22.0
Right cheek	802.11n 40M	102/5510	91.74%	1.09	0.259	0.13	8.86	10.00	1.300	0.367	22.0
Right cheek	802.11n 40M	142/5710	91.74%	1.09	0.294	0.17	9.08	10.00	1.236	0.396	22.0
Head Test data U-NII-3											
Left cheek	802.11n 40M	151/5755	91.74%	1.09	0.154	0.04	9.75	11.00	1.334	0.224	22.0
Left tilted	802.11n 40M	151/5755	91.74%	1.09	0.147	0.05	9.75	11.00	1.334	0.214	22.0
Right cheek	802.11n 40M	151/5755	91.74%	1.09	0.273	-0.12	9.75	11.00	1.334	0.397	22.0

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Right tilted	802.11n 40M	151/5755	91.74%	1.09	0.276	0.18	9.75	11.00	1.334	0.401	22.0
Right tilted	802.11n 40M	159/5795	91.74%	1.09	0.199	0.08	9.61	11.00	1.377	0.299	22.0
Head Test Data at the worst case with Battery 2#											
Right cheek	802.11n 40M	134/5670	91.74%	1.09	0.330	0.03	10.13	11.00	1.222	0.403	22.0
Head Test Data at the worst case with Battery 3#											
Right cheek	802.11n 40M	134/5670	91.74%	1.09	0.350	-0.02	10.13	11.00	1.222	0.428	22.0
Body worn Test data U-NII-2A(Separate 15mm)											
Front side	802.11a	60/5300	93.14%	1.074	0.037	0.17	13.15	14.00	1.216	0.048	22.0
Back side	802.11a	60/5300	93.14%	1.074	0.024	0.15	13.15	14.00	1.216	0.031	22.0
Front side	802.11a	52/5260	93.14%	1.074	0.018	-0.02	12.96	14.00	1.271	0.024	22.0
Front side	802.11a	64/5320	93.14%	1.074	0.009	0.01	10.23	11.00	1.194	0.011	22.0
Body worn Test data U-NII-2C(Separate 15mm)											
Front side	802.11a	132/5660	93.14%	1.074	0.065	-0.12	13.35	14.00	1.161	**0.081**	22.0
Back side	802.11a	132/5660	93.14%	1.074	0.052	0.17	13.35	14.00	1.161	0.065	22.0
Front side	802.11a	104/5520	93.14%	1.074	0.035	0.11	12.83	14.00	1.309	0.049	22.0
Front side	802.11a	116/5580	93.14%	1.074	0.030	0.08	13.09	14.00	1.233	0.039	22.0
Front side	802.11a	100/5500	93.14%	1.074	0.013	0.16	9.82	11.00	1.312	0.018	22.0
Front side	802.11a	144/5720	93.14%	1.074	0.004	0.12	10.35	11.00	1.161	0.005	22.0
Body worn Test data U-NII-3(Separate 15mm)											
Front side	802.11a	149/5745	93.14%	1.074	0.044	0.09	12.81	14.00	1.315	0.062	22.0
Back side	802.11a	149/5745	93.14%	1.074	0.042	0.13	12.81	14.00	1.315	0.059	22.0
Front side	802.11a	157/5785	93.14%	1.074	0.026	0.11	12.52	14.00	1.406	0.040	22.0
Front side	802.11a	165/5825	93.14%	1.074	0.030	-0.05	12.56	14.00	1.393	0.045	22.0
Body worn Test Data at the worst case with Battery 2#											
Front side	802.11a	132/5660	93.14%	1.074	0.049	0.15	13.35	14.00	1.161	0.057	22.0
Body worn Test Data at the worst case with Battery 3#											
Front side	802.11a	132/5660	93.14%	1.074	0.048	0.11	13.35	14.00	1.161	0.056	22.0
Hotspot Test data U-NII-1(Separate 10mm)											
Front side	802.11a	48/5240	93.14%	1.074	0.043	0.01	12.72	14.00	1.343	0.062	22.0
Back side	802.11a	48/5240	93.14%	1.074	0.038	0.17	12.72	14.00	1.343	0.055	22.0
Left side	802.11a	48/5240	93.14%	1.074	0.003	0.12	12.72	14.00	1.343	0.005	22.0
Top side	802.11a	48/5240	93.14%	1.074	0.016	0.08	12.72	14.00	1.343	0.023	22.0
Front side	802.11a	36/5180	93.14%	1.074	0.008	0.00	9.64	11.00	1.368	0.012	22.0
Front side	802.11a	40/5200	93.14%	1.074	0.027	-0.05	12.52	14.00	1.406	0.040	22.0
Hotspot Test data U-NII-3(Separate 10mm)											
Front side	802.11a	149/5745	93.14%	1.074	0.075	0.14	12.81	14.00	1.315	**0.106**	22.0
Back side	802.11a	149/5745	93.14%	1.074	0.062	-0.09	12.81	14.00	1.315	0.088	22.0
Left side	802.11a	149/5745	93.14%	1.074	0.022	0.05	12.81	14.00	1.315	0.031	22.0
Top side	802.11a	149/5745	93.14%	1.074	0.036	0.13	12.81	14.00	1.315	0.051	22.0
Front side	802.11a	157/5785	93.14%	1.074	0.051	0.11	12.52	14.00	1.406	0.077	22.0
Front side	802.11a	165/5825	93.14%	1.074	0.049	-0.06	12.56	14.00	1.393	0.073	22.0
Hotspot Test Data at the worst case with Battery 2#											
Front side	802.11a	149/5745	93.14%	1.074	0.068	0.16	12.81	14.00	1.315	0.089	22.0
Hotspot Test Data at the worst case with Battery 3#											
Front side	802.11a	149/5745	93.14%	1.074	0.069	0.18	12.81	14.00	1.315	0.091	22.0
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**Duty Cycle Scaled factor**	**SAR (W/kg)10-g**	**Power drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
product specific 10gSAR Test data U-NII-2A(Separate 0mm)											
Front side	802.11a	60/5300	93.14%	1.074	0.245	0.17	13.15	14.00	1.216	0.320	22.0
Back side	802.11a	60/5300	93.14%	1.074	0.122	-0.18	13.15	14.00	1.216	0.159	22.0
Left side	802.11a	60/5300	93.14%	1.074	0.041	0.02	13.15	14.00	1.216	0.054	22.0
Top side	802.11a	60/5300	93.14%	1.074	0.146	0.11	13.15	14.00	1.216	0.191	22.0

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Front side	802.11a	52/5260	93.14%	1.074	0.225	-0.11	12.96	14.00	1.271	0.307	22.0
Front side	802.11a	64/5320	93.14%	1.074	0.119	0.00	10.23	11.00	1.194	0.153	22.0
product specific 10gSAR Test data U-NII-2C(Separate 0mm)											
Front side	802.11a	132/5660	93.14%	1.074	0.315	-0.16	13.35	14.00	1.161	**0.393**	22.0
Back side	802.11a	132/5660	93.14%	1.074	0.199	0.05	13.35	14.00	1.161	0.248	22.0
Left side	802.11a	132/5660	93.14%	1.074	0.073	-0.15	13.35	14.00	1.161	0.091	22.0
Top side	802.11a	132/5660	93.14%	1.074	0.171	0.02	13.35	14.00	1.161	0.213	22.0
Front side	802.11a	104/5520	93.14%	1.074	0.265	0.02	12.83	14.00	1.309	0.373	22.0
Front side	802.11a	116/5580	93.14%	1.074	0.270	0.11	13.09	14.00	1.233	0.358	22.0
Front side	802.11a	100/5500	93.14%	1.074	0.134	-0.09	9.82	11.00	1.312	0.189	22.0
Front side	802.11a	144/5720	93.14%	1.074	0.174	0.16	10.35	11.00	1.161	0.217	22.0
product specific 10gSAR Test Data at the worst case with Battery 2#											
Front side	802.11a	132/5660	93.14%	1.074	0.284	0.12	13.35	14.00	1.161	0.330	22.0
product specific 10gSAR Test Data at the worst case with Battery 3#											
Front side	802.11a	132/5660	93.14%	1.074	0.301	0.06	13.35	14.00	1.161	0.350	22.0

Table 49：SAR of 5GHz WIFI for Head, Body and Limb(Original report E5/2018/20036).

WiFi 1 Test data											
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**Duty Cycle Scaled factor**	**SAR (W/kg)1-g**	**Power drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data at the worst case											
Left tilted	802.11ac-80M	138/5690	91.32%	1.095	0.261	0.08	7.32	9.00	1.472	0.421	22.2
Body worn Test data at the worst case (Separate 15mm)											
Back side	802.11a	136/5680	93.11%	1.074	0.129	-0.07	15.31	17.00	1.476	0.204	22.2
Hotspot Test data at the worst case (Separate 10mm)											
Top side	802.11a	149/5745	93.11%	1.074	0.282	-0.05	15.54	17.00	1.400	0.424	22.2
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**Duty Cycle Scaled factor**	**SAR (W/kg)10-g**	**Power drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
product specific 10gSAR Test data at the worst case (Separate 0mm)											
Top side	802.11a	136/5680	93.11%	1.074	0.713	0.02	15.31	17.00	1.476	1.130	22.2
WiFi 2 Test data											
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**Duty Cycle Scaled factor**	**SAR (W/kg)1-g**	**Power drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data at the worst case											
Right cheek	802.11n 40M	134/5670	91.74%	1.09	0.159	0.07	10.13	11.00	1.222	0.212	22.2
Body worn Test data at the worst case (Separate 15mm)											
Front side	802.11a	132/5660	93.14%	1.074	0.037	0.04	13.35	14.00	1.161	0.046	22.2
Hotspot Test data at the worst case (Separate 10mm)											
Front side	802.11a	149/5745	93.14%	1.074	0.053	-0.11	12.81	14.00	1.315	0.075	22.2
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**Duty Cycle Scaled factor**	**SAR (W/kg)10-g**	**Power drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
product specific 10gSAR Test data at the worst case (Separate 0mm)											
Front side	802.11a	132/5660	93.14%	1.074	0.228	0.07	13.35	14.00	1.161	0.284	22.2

Table 50：SAR of 5GHz WIFI for Head, Body and Limb(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B

2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2W/kg for 10g) then testing at the other channels is not required for such test configuration(s).

3) Each channel was tested at the lowest data rate.

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4) 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. As 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.

5) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.

6) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

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8.3.17 SAR Result of Bluetooth

Ant1 Test data											
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1-g	Power drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR(W/kg)	Liquid Temp.
Head Test data											
Left cheek	DH5	39/2441	100.00%	1.000	0.055	-0.16	10.52	11.70	1.312	0.073	22.0
Left tilted	DH5	39/2441	100.00%	1.000	0.030	-0.03	10.52	11.70	1.312	0.039	22.0
Right cheek	DH5	39/2441	100.00%	1.000	0.031	0.06	10.52	11.70	1.312	0.041	22.0
Right tilted	DH5	39/2441	100.00%	1.000	0.042	0.16	10.52	11.70	1.312	0.055	22.0
Left cheek	DH5	11/2413	100.00%	1.000	0.057	0.06	10.43	11.70	1.340	0.077	22.0
Left cheek	DH5	58/2460	100.00%	1.000	0.060	0.05	10.49	11.70	1.321	**0.079**	22.0
Head Test Data at the worst case with Battery 2#											
Left cheek	DH5	58/2460	100.00%	1.000	0.056	0.01	10.49	11.70	1.321	0.074	22.0
Head Test Data at the worst case with Battery 3#											
Left cheek	DH5	58/2460	100.00%	1.000	0.043	-0.09	10.49	11.70	1.321	0.057	22.0
Body worn Test data(Separate 15mm)											
Front side	DH5	39/2441	100.00%	1.000	0.009	-0.08	10.52	11.70	1.312	0.011	22.0
Back side	DH5	39/2441	100.00%	1.000	0.010	-0.03	10.52	11.70	1.312	0.014	22.0
Back side	DH5	11/2413	100.00%	1.000	0.011	0.07	10.43	11.70	1.340	**0.014**	22.0
Back side	DH5	58/2460	100.00%	1.000	0.007	0.09	10.49	11.70	1.321	0.009	22.0
Body Test Data at the worst case with Battery 2#											
Back side	DH5	11/2413	100.00%	1.000	0.010	-0.05	10.43	11.70	1.340	0.013	22.0
Body Test Data at the worst case with Battery 3#											
Back side	DH5	11/2413	100.00%	1.000	0.009	-0.01	10.43	11.70	1.340	0.012	22.0
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	100.00%	1.000	0.012	-0.17	10.52	11.70	1.312	0.016	22.0
Back side	DH5	39/2441	100.00%	1.000	0.014	-0.05	10.52	11.70	1.312	0.019	22.0
Right side	DH5	39/2441	100.00%	1.000	0.006	-0.02	10.52	11.70	1.312	0.008	22.0
Top side	DH5	39/2441	100.00%	1.000	0.031	-0.03	10.52	11.70	1.312	**0.041**	22.0
Top side	DH5	11/2413	100.00%	1.000	0.025	-0.02	10.43	11.70	1.340	0.033	22.0
Top side	DH5	58/2460	100.00%	1.000	0.026	-0.04	10.49	11.70	1.321	0.035	22.0
Head Test Data at the worst case with Battery 2#											
Top side	DH5	39/2441	100.00%	1.000	0.026	-0.16	10.52	11.70	1.312	0.034	22.0
Head Test Data at the worst case with Battery 3#											
Top side	DH5	39/2441	100.00%	1.000	0.022	-0.02	10.52	11.70	1.312	0.029	22.0

Table 51：SAR of Bluetooth for Head & Body(Original report E5/2018/20036).

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Ant1 Test data											
Test position	**Test mode**	**Test Ch./Freq.**	**Duty Cycle**	**Duty Cycle Scaled factor**	**SAR (W/kg)1-g**	**Power drift(dB)**	**Conducted power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR(W/kg)**	**Liquid Temp.**
Head Test data at the worst case											
Left cheek	DH5	58/2460	100.00%	1.000	0.073	0.08	10.49	11.70	1.321	**0.097**	22.0
Body worn Test data at the worst case (Separate 15mm)											
Back side	DH5	11/2413	100.00%	1.000	0.011	0.08	10.43	11.70	1.340	**0.015**	22.0
Hotspot Test data at the worst case (Separate 10mm)											
Top side	DH5	39/2441	100.00%	1.000	0.041	-0.02	10.52	11.70	1.312	**0.054**	22.0

Table 52：SAR of Bluetooth for Head & Body(Variant).

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B

2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).

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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

1) Simultaneous Transmission Combination

NO.	Simultaneous TX Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	GSM Voice(Ant 1) + BT	Yes	Yes	N/A	Yes
2	GSM DATA(Ant 1) + BT	N/A	Yes	Yes	Yes
3	GSM Voice(Ant 2) + BT	Yes	Yes	N/A	Yes
4	GSM DATA (Ant 2)+ BT	N/A	Yes	Yes	Yes
5	GSM Voice(Ant 1) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi- Fi 2.4G MIMO	Yes	Yes	N/A	Yes
6	GSM DATA(Ant 1) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	N/A	Yes	Yes	Yes
7	GSM Voice(Ant 2) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	Yes	Yes	N/A	Yes
8	GSM DATA(Ant 2) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	N/A	Yes	Yes	Yes
9	UMTS (Ant 1) + BT	Yes	Yes	Yes	Yes
10	UMTS (Ant 2) + BT	Yes	Yes	Yes	Yes
11	UMTS (Ant 1) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	Yes	Yes	Yes	Yes
12	UMTS (Ant 2) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	Yes	Yes	Yes	Yes
13	LTE (Ant 1) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	Yes	Yes	Yes	Yes
14	LTE(Ant 1) + BT	Yes	Yes	Yes	Yes
15	LTE (Ant 2) + Wi-Fi 2.4G (Ant 1)/ Wi-Fi 2.4G (Ant 2)/ Wi-Fi 2.4G MIMO	Yes	Yes	Yes	Yes
16	LTE (Ant 2) + BT	Yes	Yes	Yes	Yes
17	GSM Voice(Ant 1) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	Yes	Yes	N/A	Yes
18	GSM DATA(Ant 1) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi- Fi 5G MIMO	N/A	Yes	Yes	Yes
19	GSM Voice(Ant 2) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	Yes	Yes	N/A	Yes
20	GSM DATA(Ant 2) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	N/A	Yes	Yes	Yes
21	UMTS (Ant 1) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	Yes	Yes	Yes	Yes
22	UMTS (Ant 2) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	Yes	Yes	Yes	Yes
23	LTE (Ant 1) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	Yes	Yes	Yes	Yes
24	LTE (Ant 2) + Wi-Fi 5G (Ant 1)/ Wi-Fi 5G (Ant 2)/ Wi-Fi 5G MIMO	Yes	Yes	Yes	Yes
25	GSM Voice(Ant 1) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	Yes	Yes	N/A	Yes
26	GSM DATA(Ant 1) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	N/A	Yes	Yes	Yes

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27	GSM Voice(Ant 2) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	Yes	Yes	N/A	Yes
28	GSM DATA(Ant 2) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	N/A	Yes	Yes	Yes
29	UMTS (Ant 1) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	Yes	Yes	Yes	Yes
30	UMTS (Ant 2) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	Yes	Yes	Yes	Yes
31	LTE (Ant 1) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	Yes	Yes	Yes	Yes
32	LTE (Ant 2) + Wi-Fi 2.4G (Ant 1) + Wi-Fi 5G (Ant 2)	Yes	Yes	Yes	Yes
33	GSM Voice(Ant 1) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	Yes	Yes	N/A	Yes
34	GSM DATA(Ant 1) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	N/A	Yes	Yes	Yes
35	GSM Voice(Ant 2) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	Yes	Yes	N/A	Yes
36	GSM DATA (Ant 2)+ BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	N/A	Yes	Yes	Yes
37	UMTS (Ant 1) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	Yes	Yes	Yes	Yes
38	UMTS (Ant 2) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	Yes	Yes	Yes	Yes
39	LTE (Ant 1) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	Yes	Yes	Yes	Yes
40	LTE (Ant 2) + BT+ Wi-Fi 5G (Ant1/ Ant2/ MIMO)	Yes	Yes	Yes	Yes

Note:

1) Neither Wi-Fi 2.4G Ant.1 nor Wi-Fi 2.4G Ant.2 can transmit simultaneously with Bluetooth.
2) Wi-Fi 5G Ant.1 can transmit simultaneously with Bluetooth and Ant.2 also can transmit simultaneously with Bluetooth.
3) Wi-Fi 2.4G has two TX antennas. Wi-Fi 2.4G 802.11g/n support 2*2 CDD/MIMO function.
4) Wi-Fi 5G has two TX antennas. Wi-Fi 5G 802.11 a/n/ac support 2*2 CDD/MIMO function.
5) Wi-Fi 2.4G& Wi-Fi 5G can't work at same mode, but they can transmit simultaneously at different modes (Wi-Fi station/P-to-P) by using different Wi-Fi antennas. Only Wi-Fi 2.4G Ant1 station mode and Wi-Fi 5G Ant2 P-to-P mode or Wi-Fi 2.4G Ant1 P-to-P mode and Wi-Fi 5G Ant2 P-to-P mode can transmit simultaneously.
6) The device does not support DTM function.
7) * VoLTE or pre-installed VOIP applications are considered.
8) The 2G/3G/4G Main Antenna and 2G/3G/4G Second Antenna can't transmit simultaneously.
9) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
10) The device supports Vo-WIFI function.
11) WiFi 5G ANT1 and WiFi 2.4G ANT2 can not transmit simultaneously.

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2) Simultaneous Transmission SAR Summation Scenario

Test position		Main Antenna SARmax (W/kg)														WiFi Antenna SARmax (W/kg)							Summed 1g SARmax (W/kg)
		GSM 850	GSM1 900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 17	LTE Band 26	LTE Band 38	LTE Band 41	WLAN 2.4G Ant1	WLAN 2.4G Ant2	WLAN 5G Ant1	WLAN 5G Ant2	WLAN 2.4G MIMO	WLAN 5G MIMO	BT	
Head	Left Touch	0.156	0.075	0.155	0.096	0.266	0.138	0.146	0.148	0.075	0.124	0.133	0.166	0.019	0.021	0.504	0.012	0.402	0.245	0.516	0.647	0.097	1.015
	Left Tilt	0.099	0.024	0.049	0.034	0.138	0.035	0.029	0.097	0.050	0.082	0.079	0.099	0.009	0.012	0.756	0.006	0.516	0.316	0.762	0.832	0.039	1.210
	Right Touch	0.284	0.064	0.118	0.132	0.311	0.096	0.107	0.221	0.115	0.174	0.161	0.256	0.073	0.078	0.293	0.154	0.239	0.473	0.447	0.712	0.041	1.077
	Right Tilt	0.096	0.082	0.094	0.041	0.141	0.084	0.045	0.116	0.079	0.074	0.074	0.105	0.017	0.025	0.389	0.037	0.284	0.453	0.426	0.737	0.055	0.983
Body worn	Front	0.505	0.403	0.622	0.461	0.414	0.586	0.517	0.348	0.393	0.262	0.260	0.222	0.233	0.208	0.125	0.007	0.133	0.081	0.132	0.214	0.011	0.847
	Back	0.609	0.365	0.486	0.496	0.495	0.618	0.513	0.418	0.397	0.281	0.278	0.363	0.144	0.179	0.182	0.104	0.244	0.065	0.286	0.309	0.015	**0.970**
Hotspot	Front	0.778	0.292	0.309	0.358	0.603	0.344	0.289	0.517	0.299	0.335	0.343	0.381	0.285	0.216	0.219	0.009	0.231	0.106	0.228	0.337	0.016	1.131
	Back	0.906	0.318	0.316	0.314	0.729	0.339	0.314	0.593	0.314	0.375	0.386	0.550	0.214	0.186	0.293	0.248	0.347	0.088	0.541	0.435	0.019	1.447
	Left	0.165	0.090	0.117	0.045	0.123	0.113	0.042	0.104	0.102	0.107	0.110	0.128	0.079	0.094	/	0.033	/	0.031	0.033	0.031	/	0.198
	Right	0.596	0.030	0.025	0.024	0.448	0.064	0.033	0.376	0.072	0.290	0.276	0.383	0.055	0.065	0.178	/	0.129	/	0.178	0.129	0.008	0.774
	Top	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.701	0.003	0.700	0.051	0.704	0.751	0.054	0.805
	Bottom	0.577	0.729	0.863	0.599	0.385	0.901	0.586	0.358	0.539	0.222	0.225	0.373	0.704	0.478	/	/	/	/	/	/	/	0.901

Test position		Main Antenna SARmax (W/kg)														WiFi Antenna SARmax (W/kg)							Summed 10g SARmax (W/kg)
		GSM 850	GSM1 900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 17	LTE Band 26	LTE Band 38	LTE Band 41	WLAN 2.4G Ant1	WLAN 2.4G Ant2	WLAN 5G Ant1	WLAN 5G Ant2	WLAN 2.4G MIMO	WLAN 5G MIMO	BT	
Limb	Front	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.396	0.393	/	1.789	/	1.789
	Back	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.892	0.248	/	1.140	/	1.140
	Left	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.091	/	0.091	/	0.091
	Right	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	0.185	/	/	0.185	/	0.185
	Top	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1.426	0.213	/	1.639	/	1.639
	Bottom	/	2.252	2.333	2.493	/	2.173	2.660	/	1.186	/	/	/	/	/	/	/	/	/	/	/	/	**2.660**

Test position		Second Antenna SARmax (W/kg)														WiFi Antenna SARmax (W/kg)							Summed 1g SARmax (W/kg)
		GSM 850	GSM 1900	WCDMA Band II	WCDMA Band IV	WCDMA Band V	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 17	LTE Band 26	LTE Band 38	LTE Band 41	WLAN 2.4G Ant1	WLAN 2.4G Ant2	WLAN 5G Ant1	WLAN 5G Ant2	WLAN 2.4G MIMO	WLAN 5G MIMO	BT	
Head	Left Touch	0.792	0.414	0.449	0.496	0.571	0.436	0.558	0.798	0.424	0.489	0.500	0.699	0.289	0.568	0.504	0.012	0.402	0.245	0.516	0.647	0.097	1.547
	Left Tilt	0.395	0.308	0.377	0.325	0.456	0.369	0.406	0.308	0.446	0.415	0.418	0.419	0.280	0.482	0.756	0.006	0.516	0.316	0.762	0.832	0.039	1.554
	Right Touch	0.698	0.504	0.488	0.656	0.493	0.376	0.753	0.648	0.507	0.437	0.715	0.444	0.378	0.389	0.293	0.154	0.239	0.473	0.447	0.712	0.041	1.519
	Right Tilt	0.728	0.569	0.542	0.691	0.432	0.430	0.364	0.624	0.444	0.439	0.401	0.345	0.528	0.343	0.389	0.037	0.284	0.453	0.426	0.737	0.055	**1.570**
Body worn	Front	0.294	0.235	0.189	0.249	0.232	0.138	0.298	0.226	0.131	0.250	0.239	0.206	0.134	0.070	0.125	0.007	0.133	0.081	0.132	0.214	0.011	0.523
	Back	0.269	0.318	0.474	0.343	0.262	0.405	0.409	0.176	0.243	0.219	0.197	0.165	0.163	0.111	0.182	0.104	0.244	0.065	0.286	0.309	0.015	**0.798**
Hotspot	Front	0.299	0.188	0.144	0.212	0.237	0.104	0.259	0.185	0.272	0.260	0.296	0.185	0.159	0.087	0.219	0.009	0.231	0.106	0.228	0.337	0.016	0.652
	Back	0.253	0.251	0.205	0.282	0.212	0.177	0.360	0.217	0.334	0.180	0.218	0.262	0.172	0.116	0.293	0.248	0.347	0.088	0.541	0.435	0.019	0.901
	Left	0.104	0.179	0.123	0.212	0.073	0.125	0.321	0.066	0.180	0.091	0.080	0.064	0.078	0.104	/	0.033	/	0.031	0.033	0.031	/	0.354
	Right	0.241	0.032	0.033	0.025	0.015	0.028	0.032	0.013	0.027	0.050	0.015	0.012	0.024	0.027	0.178	/	0.129	/	0.178	0.129	0.008	0.419
	Top	0.184	0.389	0.557	0.383	0.162	0.420	0.483	0.149	0.469	0.131	0.161	0.141	0.279	0.215	0.701	0.003	0.700	0.051	0.704	0.751	0.054	**1.362**
	Bottom	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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9 Equipment list

Test Platform	SPEAG DASY5 Professional
Description	SAR Test System (Frequency range 300MHz-6GHz)
Software Reference	DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Hardware Reference

	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
☒	Twin Phantom	SPEAG	SAM 1	1283	NCR	NCR
☒	Twin Phantom	SPEAG	SAM 2	1913	NCR	NCR
☒	Twin Phantom	SPEAG	SAM 3	1912	NCR	NCR
☒	Twin Phantom	SPEAG	SAM 4	1640	NCR	NCR
☒	DAE	SPEAG	DAE4	1428	2018-01-17	2019-01-16
☒	DAE	SPEAG	DAE4	896	2018-11-08	2019-11-07
☒	E-Field Probe	SPEAG	EX3DV4	3962	2018-01-11	2019-01-10
☒	E-Field Probe	SPEAG	EX3DV4	3789	2018-02-08	2019-02-07
☒	Validation Kits	SPEAG	D750V3	1160	2016-06-22	2019-06-21
☒	Validation Kits	SPEAG	D835V2	4d105	2016-12-08	2019-12-07
☒	Validation Kits	SPEAG	D1750V2	1149	2016-06-23	2019-06-22
☒	Validation Kits	SPEAG	D1900V2	5d028	2016-12-07	2019-12-06
☒	Validation Kits	SPEAG	D2300V2	1072	2016-06-21	2019-06-20
☒	Validation Kits	SPEAG	D2450V2	733	2016-12-07	2019-12-06
☒	Validation Kits	SPEAG	D2600V2	1125	2016-06-22	2019-06-21
☒	Validation Kits	SPEAG	D5GHzV2	1165	2016-12-13	2019-12-12
☒	Agilent Network Analyzer	Agilent	E5071C	MY46523590	2018-03-13	2019-03-12
☒	Dielectric Probe Kit	Agilent	85070E	US01440210	NCR	NCR
☒	Radio Communication Analyzer	Anritsu Corporation	MT8821C	6201502984	2018-05-02	2019-05-01
☒	Universal Radio Communication Tester	R&S	CMW500	103990	2018-03-13	2019-03-12
☒	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
☒	Signal Generator	Agilent	N5171B	MY53050736	2018-03-13	2019-03-12
☒	Preamplifier	Mini-Circuits	ZHL-42W	15542	NCR	NCR
☒	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	073501433	NCR	NCR
☒	Power Meter	Agilent	E4416A	GB41292095	2018-03-13	2019-03-12
☒	Power Sensor	Agilent	8481H	MY41091234	2018-03-13	2019-03-12
☒	Power Sensor	R&S	NRP-Z92	100025	2018-03-13	2019-03-12
☒	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
☒	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR

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☒	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
☒	50 Ω coaxial load	Mini-Circuits	KARN-50+	00850	NCR	NCR
☒	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
☒	Speed reading thermometer	MingGao	T809	NA	2018-03-19	2019-03-18
☒	Humidity and Temperature Indicator	KIMTOKA	KIMTOKA	NA	2018-03-19	2019-03-18

10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

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Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Antenna Locations

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