



FCC SAR TEST REPORT

FCC ID : A4RG013A
Equipment : Phone
Model Name : G013A
Applicant : Google LLC
1600 Amphitheatre Parkway
Mountain View, CA 94043, USA
Standard : FCC 47 CFR Part 2 (2.1093)
ANSI/IEEE C95.1-1992
IEEE 1528-2013

The product was received on May 10, 2018 and testing was started from May 18, 2018 and completed on Jun. 16, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Jones Tsai / Manager

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History of this test report

Report No.	Version	Description	Issued Date
FA820225-02	01	Initial issue of report	Jun. 21, 2018
FA820225-02	02	1. Update appendix A 2. Update section3.2 tune-up limit	Jun. 28, 2018

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Google LLC, Phone, G013A, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary			Highest Simultaneous Transmission 1g SAR (W/kg)
		Head (Separation 0mm)	Body-worn (Separation 10mm)	Hotspot (Separation 10mm)	
		1g SAR (W/kg)			
Licensed	GSM850	0.59	0.27	0.27	1.59
	GSM1900	1.34	0.64	1.21	
	WCDMA II	1.32	1.16	1.31	
	WCDMA VI	1.34	1.27	1.34	
	WCDMA V	1.07	0.50	0.50	
	CDMA BC0	1.18	0.55	0.56	
	CDMA BC1	1.33	1.31	1.30	
	CDMA BC10	1.10	0.50	0.54	
	LTE Band 7	1.28	0.92	0.92	
	LTE Band 12 / 17	1.15	0.28	0.28	
	LTE Band 13	1.16	0.41	0.41	
	LTE Band 2 / 25	1.27	1.34	1.33	
	LTE Band 5 / 26	1.19	0.44	0.48	
	LTE Band 30	1.34	0.82	1.22	
	LTE Band 38 / 41	1.31	0.56	0.56	
	LTE Band 4 / 66	1.22	1.32	1.32	
LTE Band 71	1.00	0.58	0.58		
DTS	2.4GHz WLAN	1.31	0.46	0.68	1.59
NII	5GHz WLAN	1.34	0.56	0.46	1.59
DSS	Bluetooth	0.77	0.11	0.22	1.59
Date of Testing:		2018/5/18 ~ 2018/6/16			

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications

Reviewed by: Eric Huang
Report Producer: Wan Liu



2. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01

3. Equipment Under Test (EUT) Information

3.1 General Information

Product Feature & Specification	
Equipment Name	Phone
Model Name	G013A
FCC ID	A4RG013A
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA 2000 BC1: 1851.25 MHz ~ 1908.75 MHz CDMA 2000 BC10: 817.9 MHz ~ 823.1 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 30: 2307.5 MHz ~ 2312.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2472 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA CDMA2000: 1xRTT/1xEv-Do(Rev.0)/1xEv-Do(Rev.A) LTE: QPSK, 16QAM, 64QAM WLAN 2.4GHz : 802.11b/g/n/ac HT20/VHT20 WLAN 5GHz : 802.11a/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth: BR/EDR/LE NFC: ASK
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
Remark:	
1. This device implements antenna tuning techniques for several WWAN (cellular) operating modes and frequencies for the purpose of improving antenna efficiency over a broad range of frequencies. Specifically, this technique is employed in the GSM, WCDMA, CDMA and LTE modes but not supports LTE B7/B30/B38/B41. In this report SAR was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching. The detail descriptions of the antenna tuner are included in the operational description and supplemental data for additional information on section15	
2. This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.	

3.2 Maximum Tune-up Limit

General Note:

- For each cellular band, the device has 2 antennas (LAT antenna located in the bottom, UAT antenna located in the top edge), the antenna selection is based on the connection quality condition, and only one antenna will transmit at a time.
- The device has several power modes which are determined by the exposure conditions for head/hotspot/body-worn and also the simultaneous transmission conditions, the detailed implementation of the detection of the use cases and the power table control is illustrated in the operational description exhibit

<WWAN Power table (WLAN off)>

RF Exposure Conditions								
Power Condition		Default Maximum Tune up Power (dBm)	Head Power Level (dBm)		Body Worn Power Level (dBm)		Hotspot Power Level (dBm)	
			UAT Antenna	LAT Antenna	UAT Antenna	LAT Antenna	UAT Antenna	LAT Antenna
Band								
GSM850	GSM 1 Tx slot	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	GPRS 1 Tx slot	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	GPRS 2 Tx slots	31	31	31	31	31	31	31
	GPRS 3 Tx slots	29	29	29	29	29	29	29
	GPRS 4 Tx slots	28	28	28	28	28	28	28
	EDGE 1 Tx slot	27.5	27.5	27.5	27.5	27.5	27.5	27.5
	EDGE 2 Tx slots	26.5	26.5	26.5	26.5	26.5	26.5	26.5
	EDGE 3 Tx slots	24	24	24	24	24	24	24
	EDGE 4 Tx slots	22	22	22	22	22	22	22
GSM1900	GSM 1 Tx slot	31	27	31	31	31	31	31
	GPRS 1 Tx slot	31	27	31	31	31	31	31
	GPRS 2 Tx slots	28.5	25.5	28.5	28.5	28.5	28.5	28.5
	GPRS 3 Tx slots	26.5	23.5	26.5	26.5	26.5	26.5	26.5
	GPRS 4 Tx slots	25.5	23	25.5	25.5	25.5	25.5	25.5
	EDGE 1 Tx slot	27.5	25.5	27.5	27.5	27.5	27.5	27.5
	EDGE 2 Tx slots	26.5	24	26.5	26.5	26.5	26.5	26.5
	EDGE 3 Tx slots	24.5	23	24.5	24.5	24.5	24.5	24.5
	EDGE 4 Tx slots	23	22	23	23	23	23	23
WCDMA II		24	18	24	24	24	22	23.5
WCDMA IV		24	17.5	24	24	24	22	23.5
WCDMA V		24.5	24.5	24.5	24.5	24.5	24.5	24.5
CDMA BC0		24.5	24.5	24.5	24.5	24.5	24.5	24.5
CDMA BC1		24.5	18	24.5	24	24.5	21	23.5
CDMA BC10		24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 2		24.5	17.5	24.5	24	24.5	20.5	23.5
LTE 4		24	17	24	24	24	21.5	23.5
LTE 5		24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 7		24	19	24	24	24	24	24
LTE 12		24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 13		24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 17		24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 25		24.5	17.5	24.5	24	24.5	20.5	23.5
LTE 26		24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 30		24	20	24	24	24	21.5	24
LTE 38		24	21.5	24	24	24	24	24
LTE 41		25.2	21.5	25.2	25.2	25.2	25.2	25.2
LTE41 (HPUE)		27	22.5	27	27	27	27	27
LTE 66		24	17	24	24	24	21.5	23.5
LTE 71		24.5	24.5	24.5	24.5	24.5	24.5	24.5

<WWAN Power table (WLAN on)>

RF Exposure Conditions								
Power Condition		Default Maximum Tune up Power (dBm)	Head Power Level (dBm)		Body Worn Power Level (dBm)		Hotspot Power Level (dBm)	
			UAT Antenna	LAT Antenna	UAT Antenna	LAT Antenna	UAT Antenna	LAT Antenna
Band								
GSM850	GSM 1 Tx slot	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	GPRS 1 Tx slot	33.5	33.5	33.5	33.5	33.5	33.5	33.5
	GPRS 2 Tx slots	31	31	31	31	31	31	31
	GPRS 3 Tx slots	29	29	29	29	29	29	29
	GPRS 4 Tx slots	28	28	28	28	28	28	28
	EDGE 1 Tx slot	27.5	27.5	27.5	27.5	27.5	27.5	27.5
	EDGE 2 Tx slots	26.5	26.5	26.5	26.5	26.5	26.5	26.5
	EDGE 3 Tx slots	24	24	24	24	24	24	24
	EDGE 4 Tx slots	22	22	22	22	22	22	22
GSM1900	GSM 1 Tx slot	31	27	31	31	31	30.5	31
	GPRS 1 Tx slot	31	27	31	31	31	30.5	31
	GPRS 2 Tx slots	28.5	25.5	28.5	28.5	28.5	28	28.5
	GPRS 3 Tx slots	26.5	23.5	26.5	26.5	26.5	26	26.5
	GPRS 4 Tx slots	25.5	23	25.5	25.5	25.5	25	25.5
	EDGE 1 Tx slot	27.5	25.5	27.5	27.5	27.5	27	27.5
	EDGE 2 Tx slots	26.5	24	26.5	26.5	26.5	26	26.5
	EDGE 3 Tx slots	24.5	23	24.5	24.5	24.5	24	24.5
	EDGE 4 Tx slots	23	22	23	23	23	22.5	23
WCDMA II		24	17.5	24	24	24	21.5	23
WCDMA IV		24	17	24	24	23.5	21.5	23
WCDMA V		24.5	24.5	24.5	24.5	24.5	24.5	24.5
CDMA BC0		24.5	24.5	24.5	24.5	24.5	24.5	24.5
CDMA BC1		24.5	17.5	24	24	24	20.5	23
CDMA BC10		24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 2		24.5	17	24	24	24	20	23
LTE 4		24	16.5	24	24	24	20.5	23
LTE 5		24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 7		24	18.5	24	24	24	24	24
LTE 12		24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 13		24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 17		24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 25		24.5	17	24	23.5	24	20	23
LTE 26		24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 30		24	19	24	24	24	21	24
LTE 38		24	21	24	24	24	24	24
LTE 41		25.2	21	25.2	25.2	25.2	25.2	25.2
LTE41 (HPUE)		27	22	27	27	27	27	27
LTE 66		24	16.5	24	24	24	20.5	23
LTE 71		24.5	24.5	24.5	24.5	24.5	24.5	24.5

<WLAN Tune up Power table>
WLAN SISO Power table

Frequency Band	Modulation	WWAN Off				WWAN On			
		Head		Body Worn/Hotspot		Head		Body Worn/Hotspot	
		Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5
WLAN 2.4GHz	802.11b	14	18	20	20	8.5	13.5	14.5	20
	802.11g	14	18	20	20	8.5	13.5	14.5	20
	802.11n HT20	14	18	20	20	8.5	13.5	14.5	20
	802.11ac VHT20	14	18	20	20	8.5	13.5	14.5	20

Frequency Band	Modulation	WWAN Off				WWAN On			
		Head		Body Worn/Hotspot		Head		Body Worn/Hotspot	
		Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5
WLAN5GHz UNII 1	802.11a	17	15.5	18.5	18.5	11	9	18.5	17
	802.11n HT20	17	15.5	18.5	18.5	11	9	18.5	17
	802.11n HT40	17	15.5	18.5	18.5	11	9	18.5	17
	802.11ac VHT20	17	15.5	18.5	18.5	11	9	18.5	17
	802.11ac VHT40	17	15.5	18.5	18.5	11	9	18.5	17
	802.11ac VHT80	14.5	14.5	14.5	14.5	11	9	14.5	14.5
WLAN5GHz UNII 2A	802.11a	17	14.5	18.5	18.5	11	9	18	17
	802.11n HT20	17	14.5	18.5	18.5	11	9	18	17
	802.11n HT40	17	14.5	18.5	18.5	11	9	18	17
	802.11ac VHT20	17	14.5	18.5	18.5	11	9	18	17
	802.11ac VHT40	17	14.5	18.5	18.5	11	9	18	17
	802.11ac VHT80	14.5	14.5	14.5	14.5	11	9	14.5	14.5
WLAN5GHz UNII 2C	802.11a	15	14.5	18.5	18.5	10	9	17.5	17.5
	802.11n HT20	15	14.5	18	18	10	9	17.5	17.5
	802.11n HT40	15	14.5	18.5	18.5	10	9	17.5	17.5
	802.11ac VHT20	15	14.5	18	18	10	9	17.5	17.5
	802.11ac VHT40	15	14.5	18.5	18.5	10	9	17.5	17.5
	802.11ac VHT80	15	14.5	18.5	18.5	10	9	17.5	17.5
WLAN5GHz UNII 3	802.11a	16.5	15.5	18.5	18.5	11	9	18	18
	802.11n HT20	16.5	15.5	18.5	18.5	11	9	18	18
	802.11n HT40	16.5	15.5	18.5	18.5	11	9	18	18
	802.11ac VHT20	16.5	15.5	18.5	18.5	11	9	18	18
	802.11ac VHT40	16.5	15.5	18.5	18.5	11	9	18	18
	802.11ac VHT80	16.5	15.5	18	18	11	9	18	18

<WLAN MIMO Power table>

Frequency Band	Modulation	WWAN off						WWAN On					
		Head			Body Worn/Hotspot			Head			Body Worn/Hotspot		
		Ant4	Ant5	Ant 4+5	Ant4	Ant5	Ant 4+5	Ant4	Ant5	Ant 4+5	Ant4	Ant5	Ant 4+5
WLAN 2.4GHz	802.11b	16	18	20	20	20	23	11	11	14	18.5	20	22
	802.11g	16	18	20	20	20	23	10.8	11	14	20	20	23
	802.11n HT20	16	17	20	20	20	23	10.8	11	14	20	20	23
	802.11ac VHT20	16	17	20	20	20	23	10.8	11	14	20	20	23

Frequency Band	Modulation	WWAN Off						WWAN On					
		Head			Body Worn/Hotspot			Head			Body Worn/Hotspot		
		Ant6	Ant5	Ant 6+5	Ant6	Ant5	Ant 6+5	Ant6	Ant5	Ant 6+5	Ant6	Ant5	Ant 6+5
WLAN5GHz UNII 1	802.11a	16	16	19	18.5	18.5	21.5	11	11	14	17.5	18	21
	802.11n HT20	16	16	19	18.5	18.5	21.5	11	11	14	17.5	18	21
	802.11n HT40	16	16	19	18.5	18.5	21.5	11	11	14	17.5	18	21
	802.11ac VHT20	16	16	19	18.5	18.5	21.5	11	11	14	17.5	18	21
	802.11ac VHT40	16	16	19	18.5	18.5	21.5	11	11	14	17.5	18	21
	802.11ac VHT80	14.5	14.5	17.5	14.5	14.5	17.5	11	11	14	14.5	14.5	17.5
WLAN5GHz UNII 2A	802.11a	16	16	19	18.5	18.5	21.5	11	11	14	18.5	18.5	21.5
	802.11n HT20	16	16	19	18.5	18.5	21.5	11	11	14	18.5	18.5	21.5
	802.11n HT40	16	16	19	18.5	18.5	21.5	11	11	14	18.5	18.5	21.5
	802.11ac VHT20	16	16	19	18.5	18.5	21.5	11	11	14	18.5	18.5	21.5
	802.11ac VHT40	16	16	19	18.5	18.5	21.5	11	11	14	18.5	18.5	21.5
	802.11ac VHT80	14.5	14.5	17.5	14.5	14.5	17.5	11	11	14	14.5	14.5	17.5
WLAN5GHz UNII 2C	802.11a	15	16.5	19	18.5	18.5	21.5	10	11	13.5	17	17.5	20.5
	802.11n HT20	15	16.5	19	18.5	18.5	21.5	10	11	13.5	17	17.5	20.5
	802.11n HT40	15	16.5	19	18.5	18.5	21.5	10	11	13.5	17	17.5	20.5
	802.11ac VHT20	15	16.5	19	18.5	18.5	21.5	10	11	13.5	17	17.5	20.5
	802.11ac VHT40	15	16.5	19	18.5	18.5	21.5	10	11	13.5	17	17.5	20.5
	802.11ac VHT80	15	16.5	19	18.5	18.5	21.5	10	11	13.5	17	17.5	20.5
WLAN5GHz UNII 3	802.11a	16	16	19	18.5	18.5	21.5	11	11.5	14.5	15.5	16	19
	802.11n HT20	16	16	19	18.5	18.5	21.5	11	11.5	14.5	15.5	16	19
	802.11n HT40	16	16	19	18.5	18.5	21.5	11	11.5	14.5	15.5	16	19
	802.11ac VHT20	16	16	19	18.5	18.5	21.5	11	11.5	14.5	15.5	16	19
	802.11ac VHT40	16	16	19	18.5	18.5	21.5	11	11.5	14.5	15.5	16	19
	802.11ac VHT80	16	16	19	18	18	21	11	11.5	14.5	15.5	16	19

<Bluetooth Power table>
<WWAN off and WIFI off>

Frequency Band	Mode		Tune up Power (dBm)
			Ant 4
Bluetooth	BR/EDR	1Mbps	15.5
		2Mbps	15.5
		3Mbps	15.5
	LE	1Mbps	10
		2Mbps	10

<WWAN on or WIFI on, WWAN and WIFI on>

Frequency Band	Mode		Tune up Power (dBm)
			Ant 4
Bluetooth	BR/EDR	1Mbps	10
		2Mbps	10
		3Mbps	10
	LE	1Mbps	10
		2Mbps	10



3.3 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05												
FCC ID			A4RG013A									
Equipment Name			PHONE									
Operating Frequency Range of each LTE transmission band			LTE Band 2: 1850.7 MHz ~ 1909.3 MHz									
			LTE Band 4: 1710.7 MHz ~ 1754.3 MHz									
			LTE Band 5: 824.7 MHz ~ 848.3 MHz									
			LTE Band 7: 2502.5 MHz ~ 2567.5 MHz									
			LTE Band 12: 699.7 MHz ~ 715.3 MHz									
			LTE Band 13: 779.5 MHz ~ 784.5 MHz									
			LTE Band 17: 706.5 MHz ~ 713.5 MHz									
			LTE Band 25: 1850.7 MHz ~ 1914.3 MHz									
			LTE Band 26: 814.7 MHz ~ 848.3 MHz									
			LTE Band 30: 2307.5 MHz ~ 2312.5 MHz									
			LTE Band 38: 2572.5 MHz ~ 2617.5 MHz									
			LTE Band 41: 2498.5 MHz ~ 2687.5 MHz									
			LTE Band 66: 1710.7 MHz ~ 1779.3 MHz									
			LTE Band 71: 665.5 MHz ~ 695.5 MHz									
Channel Bandwidth			LTE Band 02:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 04:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 05:1.4MHz, 3MHz, 5MHz, 10MHz									
			LTE Band 07: 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz									
			LTE Band 13: 5MHz, 10MHz									
			LTE Band 17: 5MHz, 10MHz									
			LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz									
			LTE Band 30: 5MHz, 10MHz									
			LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz									
uplink modulations used			QPSK / 16QAM / 64QAM									
LTE Voice / Data requirements			Voice and Data									
LTE MPR permanently built-in by design			Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3									
			Modulation		Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	
					1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz		
			QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1		
			16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1		
			16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2		
			64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2		
			64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3		
			256 QAM	≥ 1						≤ 5		
			LTE A-MPR			In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)						
Spectrum plots for RB configuration			A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.									
Power reduction applied to satisfy SAR compliance			The device has several different power modes for head / hotspot / body-worn conditions SAR compliance; power selection is determined by the device's positioning and usage scenarios, the power selection is defined in the section3.2.									
LTE Carrier Aggregation Combinations			Inter-Band and Intra-Band possible combinations and the detail power measurement please referred to section 10									
LTE Carrier Aggregation Additional Information			This device supports maximum of 5 carriers in the downlink. Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA.									
Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844
LTE Band 7												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz		Bandwidth 20 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711
LTE Band 13												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23205		779.5		23230		782		23255		784.5	
M	23230		782		23255		784.5		23280		787	
H	23255		784.5		23280		787		23305		789.5	
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23755		706.5		23780		709		23805		711.5	
M	23790		710		23790		710		23790		710	
H	23825		713.5		23800		711		23780		709	
LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5	26790	824
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5	26940	838

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 30												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #			Freq.(MHz)				
L	27685		2307.5		27710			2310				
M	27710		2310									
H	27735		2312.5									
LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580				
M	38000	2595	38000	2595	38000	2595	38000	2595				
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610				
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
L M	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
M	40620	2593	40620	2593	40620	2593	40620	2593				
H M	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 71												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	133147	665.5	133172	668	133197	670.5	133222	673				
M	133247	675.5	133272	678	133297	680.5	133322	683				
H	133447	695.5	133422	693	133397	690.5	133372	688				



4. RF Exposure Limits

4.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

4.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

5. Specific Absorption Rate (SAR)

5.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

5.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

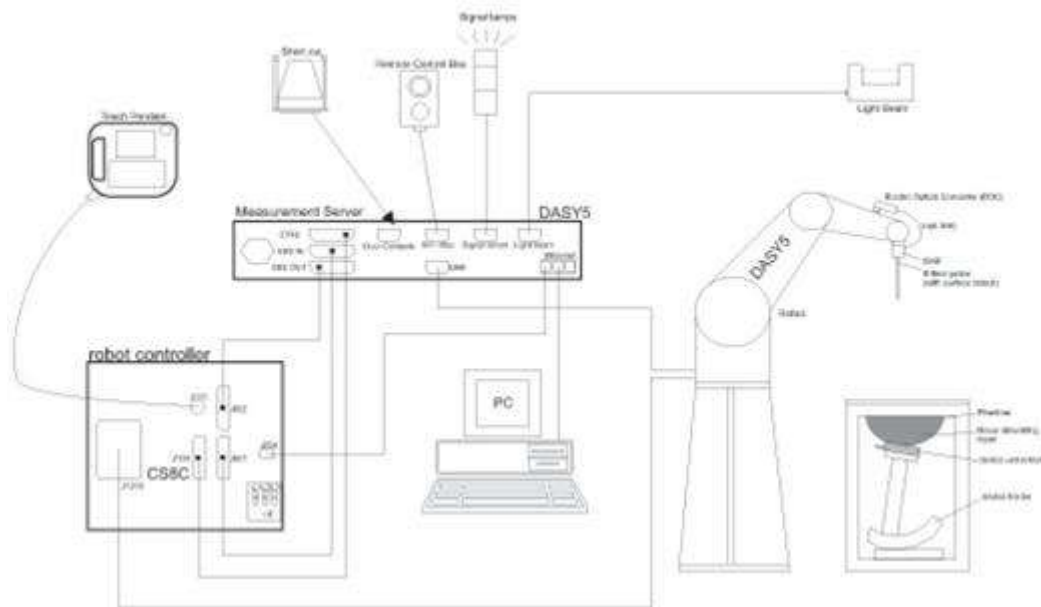
SAR is expressed in units of Watts per kilogram (W/kg)

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

6. System Description and Setup

The DASY system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- 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 from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- 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.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

6.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – 4 GHz; Linearity: ± 0.2 dB (30 MHz – 4 GHz)	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g – >100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – >6 GHz Linearity: ± 0.2 dB (30 MHz – 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 μ W/g – >100 mW/g Linearity: ± 0.2 dB (noise: typically <1 μ W/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

6.2 Data Acquisition Electronics (DAE)

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

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Fig 5.1 Photo of DAE

6.3 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

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

6.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

7. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

7.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

7.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

7.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
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 $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

7.4 Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 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: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

7.5 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

7.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASy measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

8. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1107	Feb. 27, 2018	Feb. 26, 2019
SPEAG	835MHz System Validation Kit	D835V2	4d167	Feb. 27, 2018	Feb. 26, 2019
SPEAG	1750MHz System Validation Kit	D1750V2	1068	Nov. 15, 2017	Nov. 14, 2018
SPEAG	1900MHz System Validation Kit	D1900V2	5d041	Sep. 28, 2017	Sep. 27, 2018
SPEAG	2300MHz System Validation Kit	D2300V2	1006	Jan. 17, 2018	Jan. 16, 2019
SPEAG	2450MHz System Validation Kit	D2450V2	736	Sep. 18, 2017	Sep. 17, 2018
SPEAG	2600MHz System Validation Kit	D2600V2	1008	Sep. 18, 2017	Sep. 17, 2018
SPEAG	2600MHz System Validation Kit	D2600V2	1078	Mar. 01, 2018	Feb. 28, 2019
SPEAG	5GHz System Validation Kit	D5GHzV2	1006	Sep. 26, 2017	Sep. 25, 2018
SPEAG	Data Acquisition Electronics	DAE4	1424	Jan. 18, 2018	Jan. 17, 2019
SPEAG	Data Acquisition Electronics	DAE3	360	Nov. 02, 2017	Nov. 01, 2018
SPEAG	Data Acquisition Electronics	DAE4	853	Jul. 19, 2017	Jul. 18, 2018
SPEAG	Data Acquisition Electronics	DAE4	1338	Dec. 04, 2017	Dec. 03, 2018
SPEAG	Data Acquisition Electronics	DAE4	1399	Nov. 16, 2017	Nov. 15, 2018
SPEAG	Data Acquisition Electronics	DAE4	778	May. 25, 2018	May. 24, 2019
SPEAG	Dosimetric E-Field Probe	EX3DV4	3976	Jan. 23, 2018	Jan. 22, 2019
SPEAG	Dosimetric E-Field Probe	ES3DV3	3270	Sep. 25, 2017	Sep. 24, 2018
SPEAG	Dosimetric E-Field Probe	EX3DV4	3931	Sep. 29, 2017	Sep. 28, 2018
SPEAG	Dosimetric E-Field Probe	ES3DV3	3169	May. 28, 2018	May. 27, 2019
SPEAG	Dosimetric E-Field Probe	ES3DV3	3071	Dec. 18, 2017	Dec. 17, 2018
SPEAG	Dosimetric E-Field Probe	EX3DV4	3554	Sep. 29, 2017	Sep. 28, 2019
SPEAG	Dosimetric E-Field Probe	EX3DV4	7346	Feb. 28, 2018	Feb. 27, 2019
RCPTWN	Thermometer	HTC-1	TM685-1	Mar. 16, 2018	Mar. 15, 2019
RCPTWN	Thermometer	HTC-1	TM281-1	Mar. 16, 2018	Mar. 15, 2019
RCPTWN	Thermometer	HTC-1	TM560-1	Mar. 16, 2018	Mar. 15, 2019
Gencom	Thermometer	TE1	TM225-1	Mar. 16, 2018	Mar. 15, 2019
WonDer	Thermometer	WD-5016	TM642-1	Mar. 16, 2018	Mar. 15, 2019
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Apr. 17, 2018	Apr. 16, 2019
Agilent	Wireless Communication Test Set	E5515C	MY48360820	Jan. 15, 2018	Jan. 14, 2019
R&S	BT Base Station	CBT	100815	Feb. 05, 2018	Feb. 04, 2019
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Dec. 07, 2017	Dec. 06, 2018
Agilent	ENA Network Analyzer	E5071C	MY46316648	Jan. 17, 2018	Jan. 16, 2019
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 26, 2017	Sep. 25, 2018
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3169	Sep. 06, 2017	Sep. 05, 2018
Anritsu	Power Meter	ML2495A	1218006	Oct. 06, 2017	Oct. 05, 2018
Anritsu	Power Sensor	MA2411B	1207363	Oct. 06, 2017	Oct. 05, 2018
Agilent	Spectrum Analyzer	E4408B	MY44211028	Aug. 23, 2017	Aug. 22, 2018
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jun. 26, 2017	Jun. 25, 2018
Mini-Circuits	Power Amplifier	ZVE-8G+	D120604	Mar. 12, 2018	Mar. 11, 2019
Mini-Circuits	Power Amplifier	ZHL-42W+	QA1344002	Mar. 12, 2018	Mar. 11, 2019
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	
PE	Attenuator 2	PE7005-10	N/A	Note 1	
PE	Attenuator 3	PE7005-3	N/A	Note 1	

General Note:

- Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.

9. System Verification

9.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.2.



Fig 10.1Photo of Liquid Height for Head SAR



Fig 10.2 Photo of Liquid Height for Body SAR

9.2 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (ϵ_r)
For Head								
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0
For Body								
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0	0	31.4	1.95	52.7
2600	68.1	0	0	0.1	0	31.8	2.16	52.5

Simulating Liquid for 5GHz, Manufactured by SPEAG

Ingredients	(% by weight)
Water	64~78%
Mineral oil	11~18%
Emulsifiers	9~15%
Additives and Salt	2~3%

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
750	HSL	22.6	0.926	43.313	0.89	41.90	4.04	3.37	±5	2018/5/21
750	HSL	22.6	0.892	43.158	0.89	41.90	0.22	3.00	±5	2018/5/21
750	HSL	22.3	0.892	42.239	0.89	41.90	0.22	0.81	±5	2018/6/4
750	HSL	22.5	0.925	43.261	0.89	41.90	3.93	3.25	±5	2018/6/6
750	MSL	22.4	0.966	53.617	0.96	55.50	0.63	-3.39	±5	2018/5/25
750	MSL	22.3	0.990	56.454	0.96	55.50	3.13	1.72	±5	2018/5/28
750	MSL	22.3	0.990	56.454	0.96	55.50	3.13	1.72	±5	2018/5/28
750	MSL	22.7	0.974	54.229	0.96	55.50	1.46	-2.29	±5	2018/5/29
750	MSL	22.7	0.996	56.284	0.96	55.50	3.75	1.41	±5	2018/5/30
835	HSL	22.6	0.873	40.547	0.90	41.50	-3.00	-2.30	±5	2018/5/18
835	HSL	22.5	0.873	43.230	0.90	41.50	-3.00	4.17	±5	2018/6/3
835	HSL	22.5	0.882	41.865	0.90	41.50	-2.00	0.88	±5	2018/6/6
835	HSL	22.4	0.873	42.426	0.90	41.50	-3.00	2.23	±5	2018/6/13
835	MSL	22.4	0.943	55.836	0.97	55.20	-2.78	1.15	±5	2018/5/25
835	MSL	22.3	0.963	54.954	0.97	55.20	-0.72	-0.45	±5	2018/5/28
835	MSL	22.7	0.962	54.903	0.97	55.20	-0.82	-0.54	±5	2018/5/29
835	MSL	22.4	0.965	56.263	0.97	55.20	-0.52	1.93	±5	2018/6/12

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
1750	HSL	22.2	1.378	41.202	1.37	40.10	0.58	2.75	±5	2018/5/22
1750	HSL	22.5	1.355	39.543	1.37	40.10	-1.09	-1.39	±5	2018/6/5
1750	MSL	22.5	1.468	53.970	1.49	53.40	-1.48	1.07	±5	2018/6/9
1750	MSL	22.5	1.469	54.063	1.49	53.40	-1.41	1.24	±5	2018/6/10
1750	MSL	22.2	1.467	54.012	1.49	53.40	-1.54	1.15	±5	2018/6/11
1900	HSL	22.6	1.416	38.486	1.40	40.00	1.14	-3.79	±5	2018/5/22
1900	HSL	22.5	1.417	40.819	1.40	40.00	1.21	2.05	±5	2018/6/5
1900	HSL	22.5	1.412	40.672	1.40	40.00	0.86	1.68	±5	2018/6/6
1900	HSL	22.4	1.438	39.464	1.40	40.00	2.71	-1.34	±5	2018/6/13
1900	HSL	22.5	1.431	39.273	1.40	40.00	2.21	-1.82	±5	2018/6/16
1900	MSL	22.5	1.580	52.213	1.52	53.30	3.95	-2.04	±5	2018/6/8
1900	MSL	22.5	1.512	53.963	1.52	53.30	-0.53	1.24	±5	2018/6/10
1900	MSL	22.2	1.510	53.912	1.52	53.30	-0.66	1.15	±5	2018/6/11
1900	MSL	22.4	1.565	53.538	1.52	53.30	2.96	0.45	±5	2018/6/11
1900	MSL	22.5	1.564	52.080	1.52	53.30	2.89	-2.29	±5	2018/6/16
2300	HSL	22.2	1.618	39.179	1.67	39.50	-3.11	-0.81	±5	2018/5/24
2300	HSL	22.4	1.639	41.004	1.67	39.50	-1.86	3.81	±5	2018/6/11
2300	HSL	22.4	1.634	39.662	1.67	39.50	-2.16	0.41	±5	2018/6/13
2300	MSL	22.3	1.794	52.912	1.81	52.90	-0.88	0.02	±5	2018/6/11
2300	MSL	22.4	1.791	52.802	1.81	52.90	-1.05	-0.19	±5	2018/6/14
2450	HSL	22.4	1.796	38.714	1.80	39.20	-0.22	-1.24	±5	2018/6/4
2450	HSL	22.3	1.815	38.002	1.80	39.20	0.83	-3.06	±5	2018/6/13
2450	HSL	22.3	1.782	40.502	1.80	39.20	-1.00	3.32	±5	2018/6/14
2450	HSL	22.6	1.789	38.708	1.80	39.20	-0.61	-1.26	±5	2018/6/16
2450	MSL	22.3	1.932	52.775	1.95	52.70	-0.92	0.14	±5	2018/6/6
2450	MSL	22.6	1.984	51.638	1.95	52.70	1.74	-2.02	±5	2018/6/15
2600	HSL	22.2	1.946	38.121	1.96	39.00	-0.71	-2.25	±5	2018/5/24
2600	HSL	22.5	1.971	38.539	1.96	39.00	0.56	-1.18	±5	2018/6/7
2600	HSL	22.6	1.963	38.173	1.96	39.00	0.15	-2.12	±5	2018/6/16
2600	MSL	22.4	2.203	54.089	2.16	52.50	1.99	3.03	±5	2018/5/28
2600	MSL	22.7	2.200	54.038	2.16	52.50	1.85	2.93	±5	2018/5/30
2600	MSL	22.3	2.189	51.912	2.16	52.50	1.34	-1.12	±5	2018/6/11
2600	MSL	22.4	2.185	51.802	2.16	52.50	1.16	-1.33	±5	2018/6/14
2600	MSL	22.6	2.180	51.038	2.16	52.50	0.93	-2.78	±5	2018/6/16

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
5250	HSL	22.5	4.601	35.923	4.71	35.95	-2.31	-0.08	±5	2018/6/2
5250	HSL	22.6	4.717	37.312	4.71	35.95	0.15	3.79	±5	2018/6/6
5250	HSL	22.5	4.550	36.802	4.71	35.95	-3.40	2.37	±5	2018/6/10
5250	MSL	22.5	5.535	47.005	5.36	48.95	3.26	-3.97	±5	2018/5/30
5250	MSL	22.3	5.397	47.923	5.36	48.95	0.69	-2.10	±5	2018/6/12
5250	MSL	22.4	5.444	49.023	5.36	48.95	1.57	0.15	±5	2018/6/16
5600	HSL	22.5	4.934	35.463	5.07	35.50	-2.68	-0.10	±5	2018/6/2
5600	HSL	22.6	5.074	36.786	5.07	35.50	0.08	3.62	±5	2018/6/6
5600	HSL	22.3	4.916	36.309	5.07	35.50	-3.04	2.28	±5	2018/6/11
5600	MSL	22.5	5.988	46.372	5.77	48.50	3.78	-4.39	±5	2018/5/30
5600	MSL	22.3	5.852	47.334	5.77	48.50	1.42	-2.40	±5	2018/6/12
5600	MSL	22.4	5.929	48.394	5.77	48.50	2.76	-0.22	±5	2018/6/16
5750	HSL	22.5	5.095	35.231	5.22	35.35	-2.39	-0.34	±5	2018/6/2
5750	HSL	22.6	5.236	36.587	5.22	35.35	0.31	3.50	±5	2018/6/6
5750	HSL	22.3	5.106	36.194	5.22	35.35	-2.18	2.39	±5	2018/6/11
5750	MSL	22.5	5.981	47.046	5.94	48.28	0.69	-2.56	±5	2018/5/31
5750	MSL	22.3	6.059	47.097	5.94	48.28	2.00	-2.45	±5	2018/6/12
5750	MSL	22.4	6.148	48.127	5.94	48.28	3.50	-0.32	±5	2018/6/16

9.3 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2018/5/21	750	HSL	250	D750V3-1107	EX3DV4 - SN3931	DAE3 Sn360	2.21	8.18	8.84	8.07
2018/5/21	750	HSL	250	D750V3-1107	EX3DV4 - SN3931	DAE3 Sn360	2.19	8.18	8.76	7.09
2018/6/4	750	HSL	250	D750V3-1107	ES3DV3 - SN3270	DAE4 Sn853	2.05	8.18	8.2	0.24
2018/6/6	750	HSL	250	D750V3-1107	ES3DV3 - SN3270	DAE4 Sn853	2.09	8.18	8.36	2.20
2018/5/25	750	MSL	250	D750V3-1107	EX3DV4 - SN3931	DAE3 Sn360	2.27	8.52	9.08	6.57
2018/5/28	750	MSL	250	D750V3-1107	EX3DV4 - SN3931	DAE3 Sn360	2.29	8.52	9.16	7.51
2018/5/28	750	MSL	250	D750V3-1107	EX3DV4 - SN3976	DAE4 Sn1338	2.16	8.52	8.64	1.41
2018/5/29	750	MSL	250	D750V3-1107	EX3DV4 - SN3976	DAE4 Sn1338	2.26	8.52	9.04	6.10
2018/5/30	750	MSL	250	D750V3-1107	ES3DV3 - SN3071	DAE4 Sn1424	2.14	8.52	8.56	0.47
2018/5/18	835	HSL	250	D835V2-4d167	EX3DV4 - SN3554	DAE4 Sn1424	2.42	9.26	9.68	4.54
2018/6/3	835	HSL	250	D835V2-4d167	EX3DV4 - SN3976	DAE4 Sn1338	2.42	9.26	9.68	4.54
2018/6/6	835	HSL	250	D835V2-4d167	ES3DV3 - SN3270	DAE4 Sn853	2.27	9.26	9.08	-1.94
2018/6/13	835	HSL	250	D835V2-4d167	ES3DV3 - SN3169	DAE4 Sn1424	2.32	9.26	9.28	0.22
2018/5/25	835	MSL	250	D835V2-4d167	EX3DV4 - SN3931	DAE3 Sn360	2.46	9.62	9.84	2.29
2018/5/28	835	MSL	250	D835V2-4d167	EX3DV4 - SN3931	DAE3 Sn360	2.38	9.62	9.52	-1.04
2018/5/29	835	MSL	250	D835V2-4d167	EX3DV4 - SN3976	DAE4 Sn1338	2.49	9.62	9.96	3.53
2018/6/12	835	MSL	250	D835V2-4d167	ES3DV3 - SN3169	DAE4 Sn1424	2.48	9.62	9.92	3.12
2018/5/22	1750	HSL	250	D1750V2-1068	EX3DV4 - SN3931	DAE3 Sn360	9.35	36.70	37.4	1.91
2018/6/5	1750	HSL	250	D1750V2-1068	ES3DV3 - SN3270	DAE4 Sn853	8.76	36.70	35.04	-4.52
2018/6/9	1750	MSL	250	D1750V2-1068	ES3DV3 - SN3270	DAE4 Sn853	9.40	37.20	37.6	1.08
2018/6/10	1750	MSL	250	D1750V2-1068	ES3DV3 - SN3270	DAE4 Sn853	9.22	37.20	36.88	-0.86
2018/6/11	1750	MSL	250	D1750V2-1068	ES3DV3 - SN3270	DAE4 Sn853	9.21	37.20	36.84	-0.97
2018/5/22	1900	HSL	250	D1900V2-5d041	EX3DV4 - SN3931	DAE3 Sn360	10.10	40.50	40.4	-0.25
2018/6/5	1900	HSL	250	D1900V2-5d041	ES3DV3 - SN3270	DAE4 Sn853	9.73	40.50	38.92	-3.90
2018/6/6	1900	HSL	250	D1900V2-5d041	ES3DV3 - SN3270	DAE4 Sn853	9.56	40.50	38.24	-5.58
2018/6/13	1900	HSL	250	D1900V2-5d041	ES3DV3 - SN3169	DAE4 Sn1424	9.99	40.50	39.96	-1.33
2018/6/16	1900	HSL	250	D1900V2-5d041	ES3DV3 - SN3270	DAE4 Sn853	9.91	40.50	39.64	-2.12
2018/6/8	1900	MSL	250	D1900V2-5d041	ES3DV3 - SN3270	DAE4 Sn853	9.78	40.70	39.12	-3.88
2018/6/10	1900	MSL	250	D1900V2-5d041	ES3DV3 - SN3270	DAE4 Sn853	9.72	40.70	38.88	-4.47
2018/6/11	1900	MSL	250	D1900V2-5d041	ES3DV3 - SN3270	DAE4 Sn853	9.70	40.70	38.8	-4.67
2018/6/11	1900	MSL	250	D1900V2-5d041	ES3DV3 - SN3169	DAE4 Sn1424	9.82	40.70	39.28	-3.49
2018/6/16	1900	MSL	250	D1900V2-5d041	ES3DV3 - SN3270	DAE4 Sn853	9.25	40.70	37	-9.09
2018/5/24	2300	HSL	250	D2300V2-1006	EX3DV4 - SN3931	DAE3 Sn360	12.20	48.70	48.8	0.21
2018/6/11	2300	HSL	250	D2300V2-1006	ES3DV3 - SN3169	DAE4 Sn1424	11.30	48.70	45.2	-7.19
2018/6/13	2300	HSL	250	D2300V2-1006	ES3DV3 - SN3169	DAE4 Sn1424	11.30	48.70	45.2	-7.19
2018/6/11	2300	MSL	250	D2300V2-1006	ES3DV3 - SN3169	DAE4 Sn1424	12.40	47.30	49.6	4.86
2018/6/14	2300	MSL	250	D2300V2-1006	ES3DV3 - SN3169	DAE4 Sn1424	12.40	47.30	49.6	4.86
2018/6/4	2450	HSL	250	D2450V2-736	EX3DV4 - SN7346	DAE4 Sn1399	13.40	52.40	53.6	2.29
2018/6/13	2450	HSL	250	D2450V2-736	EX3DV4 - SN3976	DAE4 Sn778	12.20	52.40	48.8	-6.87
2018/6/14	2450	HSL	250	D2450V2-736	EX3DV4 - SN3976	DAE4 Sn778	12.10	52.40	48.4	-7.63
2018/6/16	2450	HSL	250	D2450V2-736	EX3DV4 - SN3976	DAE4 Sn778	11.90	52.40	47.6	-9.16
2018/6/6	2450	MSL	250	D2450V2-736	EX3DV4 - SN7346	DAE4 Sn1399	11.90	50.80	47.6	-6.30
2018/6/15	2450	MSL	250	D2450V2-736	EX3DV4 - SN3976	DAE4 Sn778	12.90	50.80	51.6	1.57

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2018/5/24	2600	HSL	250	D2600V2-1078	EX3DV4 - SN3931	DAE3 Sn360	14.00	56.50	56.0	-0.88
2018/6/7	2600	HSL	250	D2600V2-1078	ES3DV3 - SN3270	DAE4 Sn853	14.20	56.50	56.8	0.53
2018/6/16	2600	HSL	250	D2600V2-1008	ES3DV3 - SN3270	DAE4 Sn853	13.40	56.80	53.6	-5.63
2018/5/28	2600	MSL	250	D2600V2-1078	EX3DV4 - SN3931	DAE3 Sn360	14.10	54.10	56.4	4.25
2018/5/30	2600	MSL	250	D2600V2-1078	ES3DV3 - SN3071	DAE4 Sn1424	13.80	54.10	55.2	2.03
2018/6/11	2600	MSL	250	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn1424	14.60	55.00	58.4	6.18
2018/6/14	2600	MSL	250	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn1424	14.20	55.00	56.8	3.27
2018/6/16	2600	MSL	250	D2600V2-1008	ES3DV3 - SN3270	DAE4 Sn853	13.90	55.00	55.6	1.09
2018/6/2	5250	HSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn1338	7.61	78.30	76.1	-2.81
2018/6/6	5250	HSL	100	D5GHzV2-1006	EX3DV4 - SN7346	DAE4 Sn1399	8.03	78.30	80.3	2.55
2018/6/10	5250	HSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn778	7.55	78.30	75.5	-3.58
2018/5/30	5250	MSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn1338	7.57	77.00	75.7	-1.69
2018/6/12	5250	MSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn778	7.45	77.00	74.5	-3.25
2018/6/16	5250	MSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn778	7.52	77.00	75.2	-2.34
2018/6/2	5600	HSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn1338	8.63	85.00	86.3	1.53
2018/6/6	5600	HSL	100	D5GHzV2-1006	EX3DV4 - SN7346	DAE4 Sn1399	8.47	85.00	84.7	-0.35
2018/6/11	5600	HSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn778	8.73	85.00	87.3	2.71
2018/5/30	5600	MSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn1338	8.47	80.10	84.7	5.74
2018/6/12	5600	MSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn778	7.79	80.10	77.9	-2.75
2018/6/16	5600	MSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn778	7.89	80.10	78.9	-1.50
2018/6/2	5750	HSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn1338	7.59	78.50	75.9	-3.31
2018/6/6	5750	HSL	100	D5GHzV2-1006	EX3DV4 - SN7346	DAE4 Sn1399	8.27	78.50	82.7	5.35
2018/6/11	5750	HSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn778	8.01	78.50	80.1	2.04
2018/5/31	5750	MSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn1338	7.05	75.10	70.5	-6.13
2018/6/12	5750	MSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn778	7.71	75.10	77.1	2.66
2018/6/16	5750	MSL	100	D5GHzV2-1006	EX3DV4 - SN3976	DAE4 Sn778	7.49	75.10	74.9	-0.27

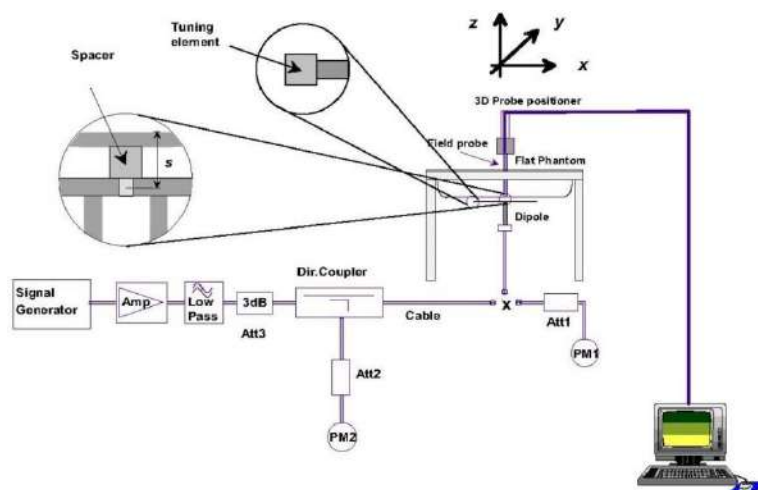


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

10. RF Exposure Positions

10.1 Ear and handset reference point

Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled “M,” the left ear reference point (ERP) is marked “LE,” and the right ERP is marked “RE.” Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

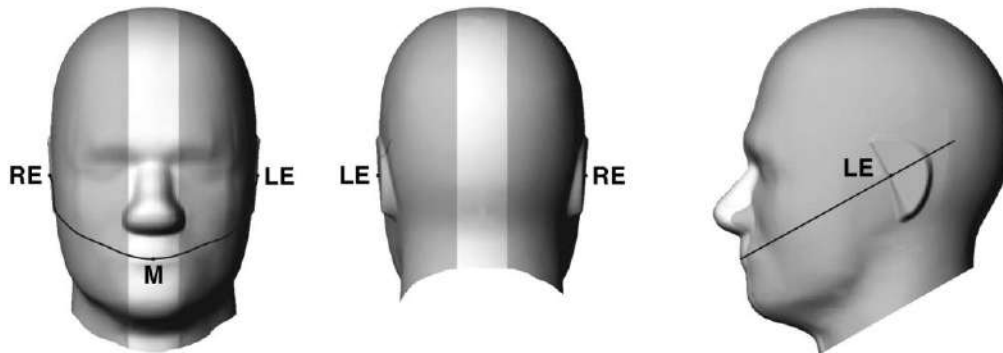


Fig 9.1.1 Front, back, and side views of SAM twin phantom

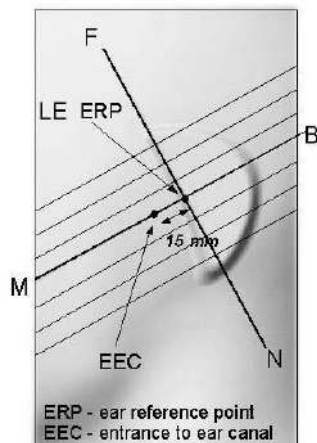


Fig 9.1.2 Close-up side view of phantom showing the ear region.

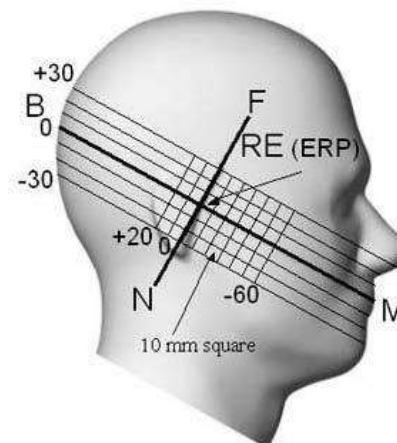


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

10.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

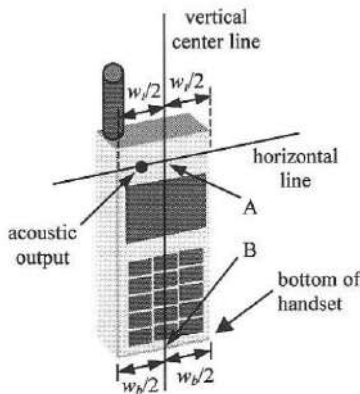


Fig 9.2.1 Handset vertical and horizontal reference lines—“fixed case”

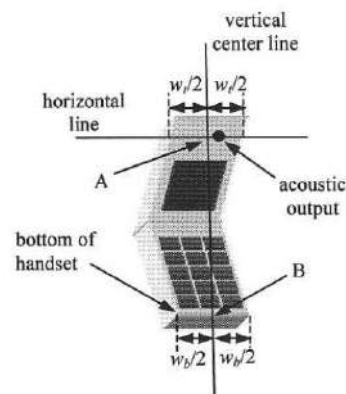


Fig 9.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

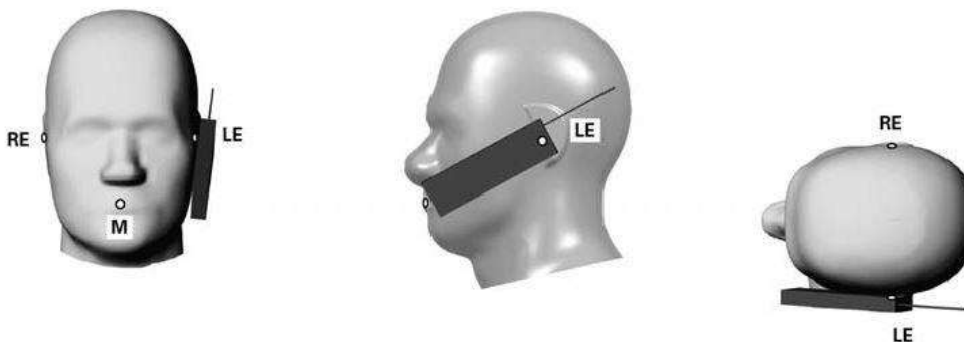


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

10.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
3. Rotate the handset around the horizontal line by 15°.
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

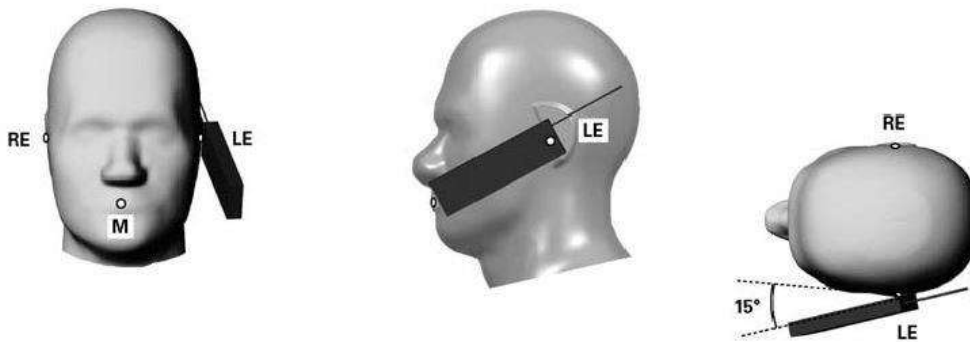


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

10.4 Body Worn Accessory

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 (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 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 body-worn accessory, measured without a headset connected to the handset is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

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 test 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.

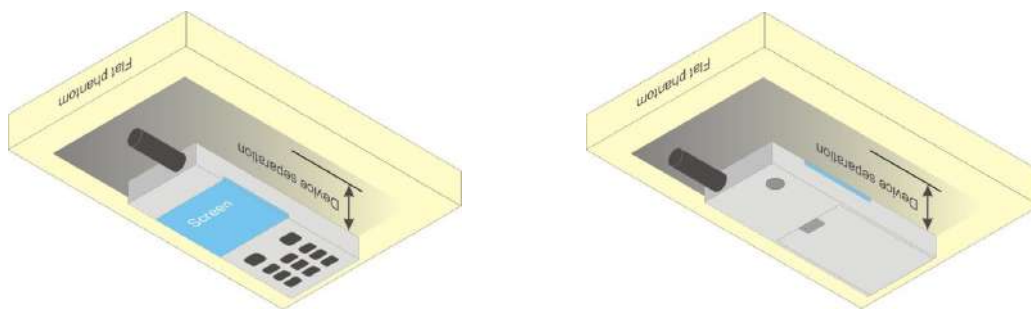


Fig 9.4 Body Worn Position

10.5 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

11. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

General Note:

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The 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. Therefore, the GPRS (4Tx slots) for GSM850/GSM1900 is considered as the primary mode.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode

<WiFi off / Wifi on>

Power Selection	Transmit Antenna	GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	128	189	251		128	189	251	
		Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
Head / Hotspot / Body-worn	UAT / LAT	GSM 1 Tx slot	32.38	32.30	32.44	33.50	23.38	23.30	23.44	24.50
		GPRS 1 Tx slot	32.38	32.30	32.44	33.50	23.38	23.30	23.44	24.50
		GPRS 2 Tx slots	30.94	30.58	30.34	31.00	24.94	24.58	24.34	25.00
		GPRS 3 Tx slots	28.44	28.21	28.13	29.00	24.18	23.95	23.87	24.74
		GPRS 4 Tx slots	27.03	27.05	27.00	28.00	24.03	24.05	24.00	25.00
		EDGE 1 Tx slot	25.79	25.85	25.72	27.50	16.79	16.85	16.72	18.50
		EDGE 2 Tx slots	24.96	25.00	24.88	26.50	18.96	19.00	18.88	20.50
		EDGE 3 Tx slots	22.51	22.39	22.44	24.00	18.25	18.13	18.18	19.74
		EDGE 4 Tx slots	21.00	20.92	20.73	22.00	18.00	17.92	17.73	19.00

<WiFi off>

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Head	UAT	GSM 1 Tx slot	26.95	26.52	26.34	27.00	17.95	17.52	17.34	18.00
		GPRS 1 Tx slot	26.93	26.51	26.33	27.00	17.93	17.51	17.33	18.00
		GPRS 2 Tx slots	24.77	24.80	25.04	25.50	18.77	18.80	19.04	19.50
		GPRS 3 Tx slots	23.02	23.36	23.48	23.50	18.76	19.10	19.22	19.24
		GPRS 4 Tx slots	21.77	21.55	21.16	23.00	18.77	18.55	18.16	20.00
		EDGE 1 Tx slot	25.45	25.21	24.91	25.50	16.45	16.21	15.91	16.50
		EDGE 2 Tx slots	23.66	23.44	23.07	24.00	17.66	17.44	17.07	18.00
		EDGE 3 Tx slots	22.56	22.44	22.11	23.00	18.30	18.18	17.85	18.74
		EDGE 4 Tx slots	21.53	21.29	20.86	22.00	18.53	18.29	17.86	19.00

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Head	LAT	GSM 1 Tx slot	29.28	29.19	29.00	31.00	20.28	20.19	20.00	22.00
		GPRS 1 Tx slot	29.30	29.19	29.00	31.00	20.30	20.19	20.00	22.00
		GPRS 2 Tx slots	28.00	27.46	27.25	28.50	22.00	21.46	21.25	22.50
		GPRS 3 Tx slots	26.00	25.76	25.52	26.50	21.74	21.50	21.26	22.24
		GPRS 4 Tx slots	24.83	24.53	24.50	25.50	21.83	21.53	21.50	22.50
		EDGE 1 Tx slot	26.33	26.04	25.70	27.50	17.33	17.04	16.70	18.50
		EDGE 2 Tx slots	25.20	24.63	24.50	26.50	19.20	18.63	18.50	20.50
		EDGE 3 Tx slots	23.03	22.50	22.57	24.50	18.77	18.24	18.31	20.24
		EDGE 4 Tx slots	21.70	21.51	21.34	23.00	18.70	18.51	18.34	20.00

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Hotspot / Body-worn	UAT / LAT	GSM 1 Tx slot	29.28	29.19	29.00	31.00	20.28	20.19	20.00	22.00
		GPRS 1 Tx slot	29.30	29.19	29.00	31.00	20.30	20.19	20.00	22.00
		GPRS 2 Tx slots	28.00	27.46	27.25	28.50	22.00	21.46	21.25	22.50
		GPRS 3 Tx slots	26.00	25.76	25.52	26.50	21.74	21.50	21.26	22.24
		GPRS 4 Tx slots	24.83	24.53	24.50	25.50	21.83	21.53	21.50	22.50
		EDGE 1 Tx slot	26.33	26.04	25.70	27.50	17.33	17.04	16.70	18.50
		EDGE 2 Tx slots	25.20	24.63	24.50	26.50	19.20	18.63	18.50	20.50
		EDGE 3 Tx slots	23.03	22.50	22.57	24.50	18.77	18.24	18.31	20.24
		EDGE 4 Tx slots	21.70	21.51	21.34	23.00	18.70	18.51	18.34	20.00

<Wifi on>

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Head	UAT	GSM 1 Tx slot	26.95	26.52	26.34	27.00	17.95	17.52	17.34	18.00
		GPRS 1 Tx slot	26.93	26.51	26.33	27.00	17.93	17.51	17.33	18.00
		GPRS 2 Tx slots	24.77	24.80	25.04	25.50	18.77	18.80	19.04	19.50
		GPRS 3 Tx slots	23.02	23.36	23.48	23.50	18.76	19.10	19.22	19.24
		GPRS 4 Tx slots	21.77	21.55	21.16	22.50	18.77	18.55	18.16	19.50
		EDGE 1 Tx slot	25.45	25.21	24.91	25.50	16.45	16.21	15.91	16.50
		EDGE 2 Tx slots	23.66	23.44	23.07	24.00	17.66	17.44	17.07	18.00
		EDGE 3 Tx slots	22.56	22.44	22.11	23.00	18.30	18.18	17.85	18.74
		EDGE 4 Tx slots	21.53	21.29	20.86	22.00	18.53	18.29	17.86	19.00

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Head	LAT	GSM 1 Tx slot	29.28	29.19	29.00	31.00	20.28	20.19	20.00	22.00
		GPRS 1 Tx slot	29.30	29.19	29.00	31.00	20.30	20.19	20.00	22.00
		GPRS 2 Tx slots	28.00	27.46	27.25	28.50	22.00	21.46	21.25	22.50
		GPRS 3 Tx slots	26.00	25.76	25.52	26.50	21.74	21.50	21.26	22.24
		GPRS 4 Tx slots	24.83	24.53	24.50	25.50	21.83	21.53	21.50	22.50
		EDGE 1 Tx slot	26.33	26.04	25.70	27.50	17.33	17.04	16.70	18.50
		EDGE 2 Tx slots	25.20	24.63	24.50	26.50	19.20	18.63	18.50	20.50
		EDGE 3 Tx slots	23.03	22.50	22.57	24.50	18.77	18.24	18.31	20.24
		EDGE 4 Tx slots	21.70	21.51	21.34	23.00	18.70	18.51	18.34	20.00

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Hotspot	UAT	GSM 1 Tx slot	29.28	29.19	29.00	30.50	20.28	20.19	20.00	21.50
		GPRS 1 Tx slot	29.30	29.19	29.00	30.50	20.30	20.19	20.00	21.50
		GPRS 2 Tx slots	28.00	27.46	27.25	28.00	22.00	21.46	21.25	22.00
		GPRS 3 Tx slots	26.00	25.76	25.52	26.00	21.74	21.50	21.26	21.74
		GPRS 4 Tx slots	24.83	24.53	24.50	25.00	21.83	21.53	21.50	22.00
		EDGE 1 Tx slot	26.33	26.04	25.70	27.00	17.33	17.04	16.70	18.00
		EDGE 2 Tx slots	25.20	24.63	24.50	26.00	19.20	18.63	18.50	20.00
		EDGE 3 Tx slots	23.03	22.50	22.57	24.00	18.77	18.24	18.31	19.74
		EDGE 4 Tx slots	21.70	21.51	21.34	22.50	18.70	18.51	18.34	19.50

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Hotspot	LAT	GSM 1 Tx slot	29.28	29.19	29.00	31.00	20.28	20.19	20.00	22.00
		GPRS 1 Tx slot	29.30	29.19	29.00	31.00	20.30	20.19	20.00	22.00
		GPRS 2 Tx slots	28.00	27.46	27.25	28.50	22.00	21.46	21.25	22.50
		GPRS 3 Tx slots	26.00	25.76	25.52	26.50	21.74	21.50	21.26	22.24
		GPRS 4 Tx slots	24.83	24.53	24.50	25.50	21.83	21.53	21.50	22.50
		EDGE 1 Tx slot	26.33	26.04	25.70	27.50	17.33	17.04	16.70	18.50
		EDGE 2 Tx slots	25.20	24.63	24.50	26.50	19.20	18.63	18.50	20.50
		EDGE 3 Tx slots	23.03	22.50	22.57	24.50	18.77	18.24	18.31	20.24
		EDGE 4 Tx slots	21.70	21.51	21.34	23.00	18.70	18.51	18.34	20.00

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Body-worn	UAT / LAT	GSM 1 Tx slot	29.28	29.19	29.00	31.00	20.28	20.19	20.00	22.00
		GPRS 1 Tx slot	29.30	29.19	29.00	31.00	20.30	20.19	20.00	22.00
		GPRS 2 Tx slots	28.00	27.46	27.25	28.50	22.00	21.46	21.25	22.50
		GPRS 3 Tx slots	26.00	25.76	25.52	26.50	21.74	21.50	21.26	22.24
		GPRS 4 Tx slots	24.83	24.53	24.50	25.50	21.83	21.53	21.50	22.50
		EDGE 1 Tx slot	26.33	26.04	25.70	27.50	17.33	17.04	16.70	18.50
		EDGE 2 Tx slots	25.20	24.63	24.50	26.50	19.20	18.63	18.50	20.50
		EDGE 3 Tx slots	23.03	22.50	22.57	24.50	18.77	18.24	18.31	20.24
		EDGE 4 Tx slots	21.70	21.51	21.34	23.00	18.70	18.51	18.34	20.00

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	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 $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. Note 2: 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 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$. Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPCCH, DPDCCH 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 4: 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 $\beta_d = 15/15$.							

Setup Configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	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	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{hs} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_d/\beta_c = 12/15$, $\beta_{hs}/\beta_c = 24/15$. 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_d/β_c 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: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

Setup Configuration

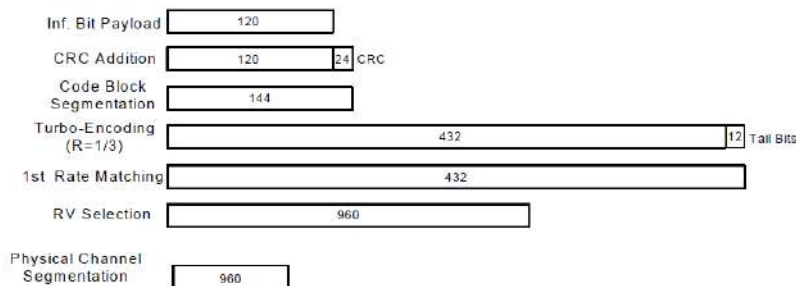
DC-HSDPA 3GPP release 8 Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration below
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set RMC 12.2Kbps + HSDPA mode.
 - ii. Set Cell Power = -25 dBm
 - iii. Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
 - iv. Select HSDPA Uplink Parameters
 - v. Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - a). Subtest 1: $\beta_c/\beta_d=2/15$
 - b). Subtest 2: $\beta_c/\beta_d=12/15$
 - c). Subtest 3: $\beta_c/\beta_d=15/8$
 - d). Subtest 4: $\beta_c/\beta_d=15/4$
 - vi. Set Delta ACK, Delta NACK and Delta CQI = 8
 - vii. Set Ack-Nack Repetition Factor to 3
 - viii. Set CQI Feedback Cycle (k) to 4 ms
 - ix. Set CQI Repetition Cycle to 2
 - x. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

C.8.1.12 Fixed Reference Channel Definition H-Set 12
Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{inf})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
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.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		


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

<WCDMA Conducted Power>
General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ 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, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

<WiFi off>

Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
		Max. Power		18.0			17.5			24.5		
Head	UAT	3GPP Rel 99	AMR 12.2Kbps	16.82	16.98	16.91	16.40	16.55	16.51	23.85	23.95	23.97
		3GPP Rel 99	RMC 12.2Kbps	16.98	17.00	16.97	16.43	16.58	16.52	23.90	24.00	23.98
		Max. Power		18.0			17.5			23.5		
		3GPP Rel 6	HSDPA Subtest-1	16.86	16.98	16.79	16.38	16.53	16.45	22.90	22.84	23.08
		3GPP Rel 6	HSDPA Subtest-2	16.89	16.95	16.89	16.38	16.51	16.46	22.96	22.87	23.08
		3GPP Rel 6	HSDPA Subtest-3	16.89	16.94	16.90	16.39	16.50	16.44	22.45	22.37	22.66
		3GPP Rel 6	HSDPA Subtest-4	16.86	16.98	16.89	16.40	16.49	16.45	22.46	22.39	22.64
		Max. Power		18.0			17.5			17.5		
		3GPP Rel 8	DC-HSDPA Subtest-1	16.69	16.95	16.78	16.42	16.45	16.41	22.74	22.79	23.06
		3GPP Rel 8	DC-HSDPA Subtest-2	16.87	16.75	16.76	16.27	16.37	16.34	22.84	22.84	22.97
		3GPP Rel 8	DC-HSDPA Subtest-3	16.86	16.88	16.81	16.18	16.48	16.43	22.32	22.23	22.65
		3GPP Rel 8	DC-HSDPA Subtest-4	16.84	16.97	16.72	16.35	16.48	16.36	22.28	22.20	22.60
		Max. Power		18.0			17.5			23.5		
		3GPP Rel 6	HSUPA Subtest-1	16.69	16.87	16.60	16.21	16.48	16.45	23.36	23.21	23.50
		3GPP Rel 6	HSUPA Subtest-2	16.85	16.83	16.83	16.23	16.44	16.49	21.31	21.43	21.48
		3GPP Rel 6	HSUPA Subtest-3	16.89	16.75	16.86	16.35	16.36	16.44	22.32	22.24	22.43
		3GPP Rel 6	HSUPA Subtest-4	16.73	16.84	16.89	16.26	16.35	16.32	21.25	21.27	21.47
		3GPP Rel 6	HSUPA Subtest-5	16.67	16.79	16.71	16.34	16.46	16.28	23.40	23.30	23.40



Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
		Max. Power		24.0			24.0			24.5		
		3GPP Rel 99	AMR 12.2Kbps	23.25	23.51	23.01	23.43	23.49	23.47	23.85	23.95	23.97
		3GPP Rel 99	RMC 12.2Kbps	23.29	23.54	23.02	23.47	23.50	23.49	23.90	24.00	23.98
		Max. Power		23.0			23.0			23.5		
		3GPP Rel 6	HSDPA Subtest-1	22.33	22.62	21.96	22.29	22.50	22.49	22.90	22.84	23.08
		3GPP Rel 6	HSDPA Subtest-2	22.27	22.55	22.00	22.33	22.50	22.48	22.96	22.87	23.08
		3GPP Rel 6	HSDPA Subtest-3	21.78	22.05	21.47	21.76	22.00	22.00	22.45	22.37	22.66
		3GPP Rel 6	HSDPA Subtest-4	21.72	22.10	21.51	21.74	21.89	21.98	22.46	22.39	22.64
		Max. Power		23.0			23.0			23.5		
		3GPP Rel 8	DC-HSDPA Subtest-1	22.17	22.44	21.88	22.26	22.45	22.40	22.74	22.79	23.06
		3GPP Rel 8	DC-HSDPA Subtest-2	22.18	22.49	21.94	22.22	22.48	22.33	22.84	22.84	22.97
		3GPP Rel 8	DC-HSDPA Subtest-3	21.64	22.00	21.36	21.56	21.97	21.85	22.32	22.23	22.65
		3GPP Rel 8	DC-HSDPA Subtest-4	21.56	22.04	21.33	21.60	21.96	21.79	22.28	22.20	22.60
		Max. Power		23.0			23.0			23.5		
		3GPP Rel 6	HSUPA Subtest-1	22.65	22.80	22.02	22.53	22.55	22.43	23.36	23.21	23.50
		3GPP Rel 6	HSUPA Subtest-2	20.75	20.85	20.06	20.61	20.83	20.67	21.31	21.43	21.48
		3GPP Rel 6	HSUPA Subtest-3	21.74	21.79	21.08	21.59	21.84	21.73	22.32	22.24	22.43
		3GPP Rel 6	HSUPA Subtest-4	20.74	20.83	20.09	20.60	20.83	20.64	21.25	21.27	21.47
		3GPP Rel 6	HSUPA Subtest-5	22.70	22.80	21.90	22.60	23.00	22.30	23.40	23.30	23.40

Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
		Max. Power		22.0			22.0			24.5		
		3GPP Rel 99	AMR 12.2Kbps	21.24	21.35	21.33	21.39	21.41	21.31	23.85	23.95	23.97
		3GPP Rel 99	RMC 12.2Kbps	21.24	21.36	21.33	21.39	21.43	21.31	23.90	24.00	23.98
		Max. Power		21.5			21.5			23.5		
		3GPP Rel 6	HSDPA Subtest-1	20.79	20.62	20.39	20.69	20.59	20.38	22.90	22.84	23.08
		3GPP Rel 6	HSDPA Subtest-2	20.71	20.53	20.41	20.62	20.47	20.39	22.96	22.87	23.08
		3GPP Rel 6	HSDPA Subtest-3	20.25	19.99	19.96	20.25	19.96	19.95	22.45	22.37	22.66
		3GPP Rel 6	HSDPA Subtest-4	20.20	20.05	19.96	20.20	20.01	19.86	22.46	22.39	22.64
		Max. Power		21.5			21.5			23.5		
		3GPP Rel 8	DC-HSDPA Subtest-1	20.60	20.36	20.29	20.56	20.29	20.20	22.74	22.79	23.06
		3GPP Rel 8	DC-HSDPA Subtest-2	20.66	20.49	20.44	20.59	20.43	20.44	22.84	22.84	22.97
		3GPP Rel 8	DC-HSDPA Subtest-3	20.14	19.93	19.79	20.08	19.87	19.70	22.32	22.23	22.65
		3GPP Rel 8	DC-HSDPA Subtest-4	19.96	19.99	19.74	19.93	19.91	19.73	22.28	22.20	22.60
		Max. Power		21.5			21.5			23.5		
		3GPP Rel 6	HSUPA Subtest-1	20.85	20.77	20.49	20.82	20.75	20.44	23.36	23.21	23.50
		3GPP Rel 6	HSUPA Subtest-2	18.89	18.75	18.56	18.80	18.70	18.50	21.31	21.43	21.48
		3GPP Rel 6	HSUPA Subtest-3	19.93	19.72	19.48	19.83	19.63	19.45	22.32	22.24	22.43
		3GPP Rel 6	HSUPA Subtest-4	18.86	18.82	18.55	18.83	18.75	18.46	21.25	21.27	21.47
		3GPP Rel 6	HSUPA Subtest-5	20.86	20.75	20.33	20.79	20.71	20.23	23.40	23.30	23.40

Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Hotspot	LAT	Max. Power		23.5			23.5			24.5		
		3GPP Rel 99	AMR 12.2Kbps	22.79	22.85	22.60	22.51	22.57	22.53	23.85	23.95	23.97
		3GPP Rel 99	RMC 12.2Kbps	22.79	22.86	22.61	22.51	22.58	22.54	23.90	24.00	23.98
		Max. Power		23.0			23.0			23.5		
		3GPP Rel 6	HSDPA Subtest-1	21.78	21.77	21.57	21.69	21.61	21.45	22.90	22.84	23.08
		3GPP Rel 6	HSDPA Subtest-2	21.63	21.67	21.60	21.66	21.51	21.43	22.96	22.87	23.08
		3GPP Rel 6	HSDPA Subtest-3	21.24	21.14	21.07	21.31	21.06	21.05	22.45	22.37	22.66
		3GPP Rel 6	HSDPA Subtest-4	21.12	21.15	21.09	21.22	21.06	20.90	22.46	22.39	22.64
		Max. Power		23.0			23.0			23.5		
		3GPP Rel 8	DC-HSDPA Subtest-1	21.57	21.54	21.45	21.63	21.32	21.24	22.74	22.79	23.06
		3GPP Rel 8	DC-HSDPA Subtest-2	21.63	21.68	21.56	21.61	21.48	21.54	22.84	22.84	22.97
		3GPP Rel 8	DC-HSDPA Subtest-3	21.11	21.13	20.89	21.16	20.93	20.77	22.32	22.23	22.65
		3GPP Rel 8	DC-HSDPA Subtest-4	20.92	21.16	20.92	21.02	20.92	20.79	22.28	22.20	22.60
		Max. Power		23.0			23.0			23.5		
		3GPP Rel 6	HSUPA Subtest-1	21.79	21.89	21.66	21.87	21.79	21.53	23.36	23.21	23.50
		3GPP Rel 6	HSUPA Subtest-2	19.88	19.89	19.71	19.90	19.76	19.60	21.31	21.43	21.48
		3GPP Rel 6	HSUPA Subtest-3	20.89	20.90	20.60	20.90	20.73	20.48	22.32	22.24	22.43
		3GPP Rel 6	HSUPA Subtest-4	19.83	19.95	19.73	19.89	19.84	19.56	21.25	21.27	21.47
		3GPP Rel 6	HSUPA Subtest-5	21.79	21.88	21.53	21.82	21.76	21.28	23.40	23.30	23.40

Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Body-worn	UAT / LAT	Max. Power		24.0			24.0			24.5		
		3GPP Rel 99	AMR 12.2Kbps	23.25	23.51	23.01	23.43	23.49	23.47	23.85	23.95	23.97
		3GPP Rel 99	RMC 12.2Kbps	23.29	23.54	23.02	23.47	23.50	23.49	23.90	24.00	23.98
		Max. Power		23.0			23.0			23.5		
		3GPP Rel 6	HSDPA Subtest-1	22.33	22.62	21.96	22.29	22.50	22.49	22.90	22.84	23.08
		3GPP Rel 6	HSDPA Subtest-2	22.27	22.55	22.00	22.33	22.50	22.48	22.96	22.87	23.08
		3GPP Rel 6	HSDPA Subtest-3	21.78	22.05	21.47	21.76	22.00	22.00	22.45	22.37	22.66
		3GPP Rel 6	HSDPA Subtest-4	21.72	22.10	21.51	21.74	21.89	21.98	22.46	22.39	22.64
		Max. Power		23.0			23.0			23.5		
		3GPP Rel 8	DC-HSDPA Subtest-1	22.17	22.44	21.88	22.26	22.45	22.40	22.74	22.79	23.06
		3GPP Rel 8	DC-HSDPA Subtest-2	22.18	22.49	21.94	22.22	22.48	22.33	22.84	22.84	22.97
		3GPP Rel 8	DC-HSDPA Subtest-3	21.64	22.00	21.36	21.56	21.97	21.85	22.32	22.23	22.65
		3GPP Rel 8	DC-HSDPA Subtest-4	21.56	22.04	21.33	21.60	21.96	21.79	22.28	22.20	22.60
		Max. Power		23.0			23.0			23.5		
		3GPP Rel 6	HSUPA Subtest-1	22.65	22.80	22.02	22.53	22.55	22.43	23.36	23.21	23.50
		3GPP Rel 6	HSUPA Subtest-2	20.75	20.85	20.06	20.61	20.83	20.67	21.31	21.43	21.48
		3GPP Rel 6	HSUPA Subtest-3	21.74	21.79	21.08	21.59	21.84	21.73	22.32	22.24	22.43
		3GPP Rel 6	HSUPA Subtest-4	20.74	20.83	20.09	20.60	20.83	20.64	21.25	21.27	21.47
		3GPP Rel 6	HSUPA Subtest-5	22.70	22.80	21.90	22.60	23.00	22.30	23.40	23.30	23.40



<Wifi on>

Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Head	UAT	Max. Power		17.5			17.0			24.5		
		3GPP Rel 99	AMR 12.2Kbps	16.82	16.98	16.91	16.40	16.55	16.51	23.85	23.95	23.97
		3GPP Rel 99	RMC 12.2Kbps	16.98	17.00	16.97	16.43	16.58	16.52	23.90	24.00	23.98
		Max. Power		17.5			17.0			23.5		
		3GPP Rel 6	HSDPA Subtest-1	16.86	16.98	16.79	16.38	16.53	16.45	22.90	22.84	23.08
		3GPP Rel 6	HSDPA Subtest-2	16.89	16.95	16.89	16.38	16.51	16.46	22.96	22.87	23.08
		3GPP Rel 6	HSDPA Subtest-3	16.89	16.94	16.90	16.39	16.50	16.44	22.45	22.37	22.66
		3GPP Rel 6	HSDPA Subtest-4	16.86	16.98	16.89	16.40	16.49	16.45	22.46	22.39	22.64
		Max. Power		17.5			17.0			23.5		
		3GPP Rel 8	DC-HSDPA Subtest-1	16.69	16.95	16.78	16.42	16.45	16.41	22.74	22.79	23.06
		3GPP Rel 8	DC-HSDPA Subtest-2	16.87	16.75	16.76	16.27	16.37	16.34	22.84	22.84	22.97
		3GPP Rel 8	DC-HSDPA Subtest-3	16.86	16.88	16.81	16.18	16.48	16.43	22.32	22.23	22.65
		3GPP Rel 8	DC-HSDPA Subtest-4	16.84	16.97	16.72	16.35	16.48	16.36	22.28	22.20	22.60
		Max. Power		17.5			17.0			23.5		
		3GPP Rel 6	HSUPA Subtest-1	16.69	16.87	16.60	16.21	16.48	16.45	23.36	23.21	23.50
		3GPP Rel 6	HSUPA Subtest-2	16.85	16.83	16.83	16.23	16.44	16.49	21.31	21.43	21.48
		3GPP Rel 6	HSUPA Subtest-3	16.89	16.75	16.86	16.35	16.36	16.44	22.32	22.24	22.43
		3GPP Rel 6	HSUPA Subtest-4	16.73	16.84	16.89	16.26	16.35	16.32	21.25	21.27	21.47
		3GPP Rel 6	HSUPA Subtest-5	16.67	16.79	16.71	16.34	16.46	16.28	23.40	23.30	23.40



Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Head	LAT	Max. Power		24.0			24.0			24.5		
		3GPP Rel 99	AMR 12.2Kbps	23.25	23.51	23.01	23.43	23.49	23.47	23.85	23.95	23.97
		3GPP Rel 99	RMC 12.2Kbps	23.29	23.54	23.02	23.47	23.50	23.49	23.90	24.00	23.98
		Max. Power		23.0			23.5			23.5		
		3GPP Rel 6	HSDPA Subtest-1	22.33	22.62	21.96	22.29	22.50	22.49	22.90	22.84	23.08
		3GPP Rel 6	HSDPA Subtest-2	22.27	22.55	22.00	22.33	22.50	22.48	22.96	22.87	23.08
		3GPP Rel 6	HSDPA Subtest-3	21.78	22.05	21.47	21.76	22.00	22.00	22.45	22.37	22.66
		3GPP Rel 6	HSDPA Subtest-4	21.72	22.10	21.51	21.74	21.89	21.98	22.46	22.39	22.64
		Max. Power		23.0			23.5			23.5		
		3GPP Rel 8	DC-HSDPA Subtest-1	22.17	22.44	21.88	22.26	22.45	22.40	22.74	22.79	23.06
		3GPP Rel 8	DC-HSDPA Subtest-2	22.18	22.49	21.94	22.22	22.48	22.33	22.84	22.84	22.97
		3GPP Rel 8	DC-HSDPA Subtest-3	21.64	22.00	21.36	21.56	21.97	21.85	22.32	22.23	22.65
		3GPP Rel 8	DC-HSDPA Subtest-4	21.56	22.04	21.33	21.60	21.96	21.79	22.28	22.20	22.60
		Max. Power		23.0			23.5			23.5		
		3GPP Rel 6	HSUPA Subtest-1	22.65	22.80	22.02	22.53	22.55	22.43	23.36	23.21	23.50
		3GPP Rel 6	HSUPA Subtest-2	20.75	20.85	20.06	20.61	20.83	20.67	21.31	21.43	21.48
		3GPP Rel 6	HSUPA Subtest-3	21.74	21.79	21.08	21.59	21.84	21.73	22.32	22.24	22.43
		3GPP Rel 6	HSUPA Subtest-4	20.74	20.83	20.09	20.60	20.83	20.64	21.25	21.27	21.47
		3GPP Rel 6	HSUPA Subtest-5	22.70	22.80	21.90	22.60	23.00	22.30	23.40	23.30	23.40

Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Hotspot	UAT	Max. Power		21.5			21.5			24.5		
		3GPP Rel 99	AMR 12.2Kbps	21.24	21.35	21.33	21.39	21.41	21.31	23.85	23.95	23.97
		3GPP Rel 99	RMC 12.2Kbps	21.24	21.36	21.33	21.39	21.43	21.42	23.90	24.00	23.98
		Max. Power		21.0			21.0			23.5		
		3GPP Rel 6	HSDPA Subtest-1	20.79	20.62	20.39	20.69	20.59	20.38	22.90	22.84	23.08
		3GPP Rel 6	HSDPA Subtest-2	20.71	20.53	20.41	20.62	20.47	20.39	22.96	22.87	23.08
		3GPP Rel 6	HSDPA Subtest-3	20.25	19.99	19.96	20.25	19.96	19.95	22.45	22.37	22.66
		3GPP Rel 6	HSDPA Subtest-4	20.20	20.05	19.96	20.20	20.01	19.86	22.46	22.39	22.64
		Max. Power		22.0			21.0			23.5		
		3GPP Rel 8	DC-HSDPA Subtest-1	20.60	20.36	20.29	20.56	20.29	20.20	22.74	22.79	23.06
		3GPP Rel 8	DC-HSDPA Subtest-2	20.66	20.49	20.44	20.59	20.43	20.44	22.84	22.84	22.97
		3GPP Rel 8	DC-HSDPA Subtest-3	20.14	19.93	19.79	20.08	19.87	19.70	22.32	22.23	22.65
		3GPP Rel 8	DC-HSDPA Subtest-4	19.96	19.99	19.74	19.93	19.91	19.73	22.28	22.20	22.60
		Max. Power		21.0			21.0			23.5		
		3GPP Rel 6	HSUPA Subtest-1	20.85	20.77	20.49	20.82	20.75	20.44	23.36	23.21	23.50
		3GPP Rel 6	HSUPA Subtest-2	18.89	18.75	18.56	18.80	18.70	18.50	21.31	21.43	21.48
		3GPP Rel 6	HSUPA Subtest-3	19.93	19.72	19.48	19.83	19.63	19.45	22.32	22.24	22.43
		3GPP Rel 6	HSUPA Subtest-4	18.86	18.82	18.55	18.83	18.75	18.46	21.25	21.27	21.47
		3GPP Rel 6	HSUPA Subtest-5	20.86	20.75	20.33	20.79	20.71	20.23	23.40	23.30	23.40

Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Hotspot	LAT	Max. Power		23.0			23.0			24.5		
		3GPP Rel 99	AMR 12.2Kbps	22.79	22.85	22.60	22.51	22.57	22.53	23.85	23.95	23.97
		3GPP Rel 99	RMC 12.2Kbps	22.79	22.86	22.61	22.51	22.58	22.54	23.90	24.00	23.98
		Max. Power		22.5			22.5			23.5		
		3GPP Rel 6	HSDPA Subtest-1	21.78	21.77	21.57	21.69	21.61	21.45	22.90	22.84	23.08
		3GPP Rel 6	HSDPA Subtest-2	21.63	21.67	21.60	21.66	21.51	21.43	22.96	22.87	23.08
		3GPP Rel 6	HSDPA Subtest-3	21.24	21.14	21.07	21.31	21.06	21.05	22.45	22.37	22.66
		3GPP Rel 6	HSDPA Subtest-4	21.12	21.15	21.09	21.22	21.06	20.90	22.46	22.39	22.64
		Max. Power		22.5			22.5			23.5		
		3GPP Rel 8	DC-HSDPA Subtest-1	21.57	21.54	21.45	21.63	21.32	21.24	22.74	22.79	23.06
		3GPP Rel 8	DC-HSDPA Subtest-2	21.63	21.68	21.56	21.61	21.48	21.54	22.84	22.84	22.97
		3GPP Rel 8	DC-HSDPA Subtest-3	21.11	21.13	20.89	21.16	20.93	20.77	22.32	22.23	22.65
		3GPP Rel 8	DC-HSDPA Subtest-4	20.92	21.16	20.92	21.02	20.92	20.79	22.28	22.20	22.60
		Max. Power		22.5			22.5			23.5		
		3GPP Rel 6	HSUPA Subtest-1	21.79	21.89	21.66	21.87	21.79	21.53	23.36	23.21	23.50
		3GPP Rel 6	HSUPA Subtest-2	19.88	19.89	19.71	19.90	19.76	19.60	21.31	21.43	21.48
		3GPP Rel 6	HSUPA Subtest-3	20.89	20.90	20.60	20.90	20.73	20.48	22.32	22.24	22.43
		3GPP Rel 6	HSUPA Subtest-4	19.83	19.95	19.73	19.89	19.84	19.56	21.25	21.27	21.47
		3GPP Rel 6	HSUPA Subtest-5	21.79	21.88	21.53	21.82	21.76	21.28	23.40	23.30	23.40

Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Body-worn	UAT / LAT	Max. Power		24.0			23.5			24.5		
		3GPP Rel 99	AMR 12.2Kbps	23.25	23.51	23.01	23.43	23.49	23.47	23.85	23.95	23.97
		3GPP Rel 99	RMC 12.2Kbps	23.29	23.54	23.02	23.47	23.50	23.49	23.90	24.00	23.98
		Max. Power		23.0			23.0			23.5		
		3GPP Rel 6	HSDPA Subtest-1	22.33	22.62	21.96	22.29	22.50	22.49	22.90	22.84	23.08
		3GPP Rel 6	HSDPA Subtest-2	22.27	22.55	22.00	22.33	22.50	22.48	22.96	22.87	23.08
		3GPP Rel 6	HSDPA Subtest-3	21.78	22.05	21.47	21.76	22.00	22.00	22.45	22.37	22.66
		3GPP Rel 6	HSDPA Subtest-4	21.72	22.10	21.51	21.74	21.89	21.98	22.46	22.39	22.64
		Max. Power		23.0			23.5			23.5		
		3GPP Rel 8	DC-HSDPA Subtest-1	22.17	22.44	21.88	22.26	22.45	22.40	22.74	22.79	23.06
		3GPP Rel 8	DC-HSDPA Subtest-2	22.18	22.49	21.94	22.22	22.48	22.33	22.84	22.84	22.97
		3GPP Rel 8	DC-HSDPA Subtest-3	21.64	22.00	21.36	21.56	21.97	21.85	22.32	22.23	22.65
		3GPP Rel 8	DC-HSDPA Subtest-4	21.56	22.04	21.33	21.60	21.96	21.79	22.28	22.20	22.60
		Max. Power		23.0			23.5			23.5		
		3GPP Rel 6	HSUPA Subtest-1	22.65	22.80	22.02	22.53	22.55	22.43	23.36	23.21	23.50
		3GPP Rel 6	HSUPA Subtest-2	20.75	20.85	20.06	20.61	20.83	20.67	21.31	21.43	21.48
		3GPP Rel 6	HSUPA Subtest-3	21.74	21.79	21.08	21.59	21.84	21.73	22.32	22.24	22.43
		3GPP Rel 6	HSUPA Subtest-4	20.74	20.83	20.09	20.60	20.83	20.64	21.25	21.27	21.47
		3GPP Rel 6	HSUPA Subtest-5	22.70	22.80	21.90	22.60	23.00	22.30	23.40	23.30	23.40

<CDMA2000 Conducted Power>
General Note:

1. Per KDB 941225 D01v03r01, SAR for head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
3. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

<WiFi off>

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.5			18.0			24.5		
Head	UAT	RC1 SO55	24.10	24.06	24.12	17.19	17.41	17.19	24.12	24.16	24.10
		RC3 SO55	24.11	24.07	24.26	17.38	17.42	17.21	24.09	24.18	24.03
		RC3 SO32 (F+SCH)	24.10	24.05	24.22	17.23	17.36	17.15	24.09	24.17	24.00
		RC3 SO32 (+SCH)	24.06	24.02	24.21	17.25	17.34	17.17	24.06	24.11	24.02
		RTAP 153.6Kbps	24.11	24.09	24.19	17.28	17.40	17.20	24.10	24.16	24.12
		RETAP 4096Bits	24.08	24.05	24.06	17.25	17.33	17.14	24.08	24.12	24.11

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.5			24.5			24.5		
Head	LAT	RC1 SO55	24.10	24.06	24.12	23.49	23.49	23.30	24.12	24.16	24.10
		RC3 SO55	24.11	24.07	24.26	23.49	23.50	23.22	24.09	24.18	24.03
		RC3 SO32 (F+SCH)	24.10	24.05	24.22	23.50	23.50	23.16	24.09	24.17	24.00
		RC3 SO32 (+SCH)	24.06	24.02	24.21	23.48	23.46	23.12	24.06	24.11	24.02
		RTAP 153.6Kbps	24.11	24.09	24.19	23.48	23.50	23.24	24.10	24.16	24.12
		RETAP 4096Bits	24.08	24.05	24.06	23.49	23.38	23.21	24.08	24.12	24.11

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.5			21.0			24.5		
Hotspot	UAT	RC1 SO55	24.10	24.06	24.12	19.66	19.78	19.55	24.12	24.16	24.10
		RC3 SO55	24.11	24.07	24.26	19.71	19.84	19.53	24.09	24.18	24.03
		RC3 SO32 (F+SCH)	24.10	24.05	24.22	19.74	19.78	19.54	24.09	24.17	24.00
		RC3 SO32 (+SCH)	24.06	24.02	24.21	19.73	19.80	19.56	24.06	24.11	24.02
		RTAP 153.6Kbps	24.11	24.09	24.19	19.76	19.87	19.63	24.10	24.16	24.12
		RETAP 4096Bits	24.08	24.05	24.06	19.71	19.86	19.63	24.08	24.12	24.11



Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.5			23.5			24.5		
Hotspot	LAT	RC1 SO55	24.10	24.06	24.12	22.21	22.31	22.10	24.12	24.16	24.10
		RC3 SO55	24.11	24.07	24.26	22.22	22.31	22.17	24.09	24.18	24.03
		RC3 SO32 (F+SCH)	24.10	24.05	24.22	22.23	22.34	22.08	24.09	24.17	24.00
		RC3 SO32 (+SCH)	24.06	24.02	24.21	22.23	22.36	22.08	24.06	24.11	24.02
		RTAP 153.6Kbps	24.11	24.09	24.19	22.25	22.39	22.18	24.10	24.16	24.12
		RETAP 4096Bits	24.08	24.05	24.06	22.15	22.34	22.08	24.08	24.12	24.11

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.5			24.0			24.5		
Body-worn	UAT	RC1 SO55	24.10	24.06	24.12	23.49	23.49	23.30	24.12	24.16	24.10
		RC3 SO55	24.11	24.07	24.26	23.49	23.50	23.22	24.09	24.18	24.03
		RC3 SO32 (F+SCH)	24.10	24.05	24.22	23.50	23.50	23.16	24.09	24.17	24.00
		RC3 SO32 (+SCH)	24.06	24.02	24.21	23.48	23.46	23.12	24.06	24.11	24.02
		RTAP 153.6Kbps	24.11	24.09	24.19	23.48	23.50	23.24	24.10	24.16	24.12
		RETAP 4096Bits	24.08	24.05	24.06	23.49	23.38	23.21	24.08	24.12	24.11

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.5			24.5			24.5		
Body-worn	LAT	RC1 SO55	24.10	24.06	24.12	23.49	23.49	23.30	24.12	24.16	24.10
		RC3 SO55	24.11	24.07	24.26	23.49	23.50	23.22	24.09	24.18	24.03
		RC3 SO32 (F+SCH)	24.10	24.05	24.22	23.50	23.50	23.16	24.09	24.17	24.00
		RC3 SO32 (+SCH)	24.06	24.02	24.21	23.48	23.46	23.12	24.06	24.11	24.02
		RTAP 153.6Kbps	24.11	24.09	24.19	23.48	23.50	23.24	24.10	24.16	24.12
		RETAP 4096Bits	24.08	24.05	24.06	23.49	23.38	23.21	24.08	24.12	24.11

<Wifi on>

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.5			17.5			24.5		
Head	UAT	RC1 SO55	24.10	24.06	24.12	17.19	17.41	17.19	24.12	24.16	24.10
		RC3 SO55	24.11	24.07	24.26	17.38	17.42	17.21	24.09	24.18	24.03
		RC3 SO32 (F+SCH)	24.10	24.05	24.22	17.23	17.36	17.15	24.09	24.17	24.00
		RC3 SO32 (+SCH)	24.06	24.02	24.21	17.25	17.34	17.17	24.06	24.11	24.02
		RTAP 153.6Kbps	24.11	24.09	24.19	17.28	17.40	17.20	24.10	24.16	24.12
		RETAP 4096Bits	24.08	24.05	24.06	17.25	17.33	17.14	24.08	24.12	24.11

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.5			24.0			24.5		
Head	LAT	RC1 SO55	24.10	24.06	24.12	23.49	23.49	23.30	24.12	24.16	24.10
		RC3 SO55	24.11	24.07	24.26	23.49	23.50	23.22	24.09	24.18	24.03
		RC3 SO32 (F+SCH)	24.10	24.05	24.22	23.50	23.50	23.16	24.09	24.17	24.00
		RC3 SO32 (+SCH)	24.06	24.02	24.21	23.48	23.46	23.12	24.06	24.11	24.02
		RTAP 153.6Kbps	24.11	24.09	24.19	23.48	23.50	23.24	24.10	24.16	24.12
		RETAP 4096Bits	24.08	24.05	24.06	23.49	23.38	23.21	24.08	24.12	24.11

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.5			20.5			24.5		
Hotspot	UAT	RC1 SO55	24.10	24.06	24.12	19.66	19.78	19.55	24.12	24.16	24.10
		RC3 SO55	24.11	24.07	24.26	19.71	19.84	19.53	24.09	24.18	24.03
		RC3 SO32 (F+SCH)	24.10	24.05	24.22	19.74	19.78	19.54	24.09	24.17	24.00
		RC3 SO32 (+SCH)	24.06	24.02	24.21	19.73	19.80	19.56	24.06	24.11	24.02
		RTAP 153.6Kbps	24.11	24.09	24.19	19.76	19.87	19.63	24.10	24.16	24.12
		RETAP 4096Bits	24.08	24.05	24.06	19.71	19.86	19.63	24.08	24.12	24.11



Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.5			23.0			24.5		
Hotspot	LAT	RC1 SO55	24.10	24.06	24.12	22.21	22.31	22.10	24.12	24.16	24.10
		RC3 SO55	24.11	24.07	24.26	22.22	22.31	22.17	24.09	24.18	24.03
		RC3 SO32 (F+SCH)	24.10	24.05	24.22	22.23	22.34	22.08	24.09	24.17	24.00
		RC3 SO32 (+SCH)	24.06	24.02	24.21	22.23	22.36	22.08	24.06	24.11	24.02
		RTAP 153.6Kbps	24.11	24.09	24.19	22.25	22.39	22.18	24.10	24.16	24.12
		RETAP 4096Bits	24.08	24.05	24.06	22.15	22.34	22.08	24.08	24.12	24.11

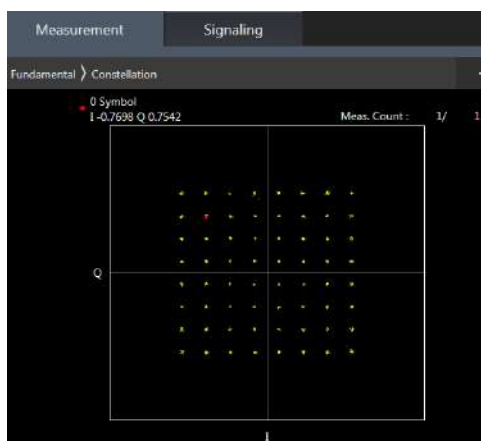
Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.5			24.0			24.5		
Body-worn	UAT	RC1 SO55	24.10	24.06	24.12	23.49	23.49	23.30	24.12	24.16	24.10
		RC3 SO55	24.11	24.07	24.26	23.49	23.50	23.22	24.09	24.18	24.03
		RC3 SO32 (F+SCH)	24.10	24.05	24.22	23.50	23.50	23.16	24.09	24.17	24.00
		RC3 SO32 (+SCH)	24.06	24.02	24.21	23.48	23.46	23.12	24.06	24.11	24.02
		RTAP 153.6Kbps	24.11	24.09	24.19	23.48	23.50	23.24	24.10	24.16	24.12
		RETAP 4096Bits	24.08	24.05	24.06	23.49	23.38	23.21	24.08	24.12	24.11

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.5			24.0			24.5		
Body-worn	LAT	RC1 SO55	24.10	24.06	24.12	23.49	23.49	23.30	24.12	24.16	24.10
		RC3 SO55	24.11	24.07	24.26	23.49	23.50	23.22	24.09	24.18	24.03
		RC3 SO32 (F+SCH)	24.10	24.05	24.22	23.50	23.50	23.16	24.09	24.17	24.00
		RC3 SO32 (+SCH)	24.06	24.02	24.21	23.48	23.46	23.12	24.06	24.11	24.02
		RTAP 153.6Kbps	24.11	24.09	24.19	23.48	23.50	23.24	24.10	24.16	24.12
		RETAP 4096Bits	24.08	24.05	24.06	23.49	23.38	23.21	24.08	24.12	24.11

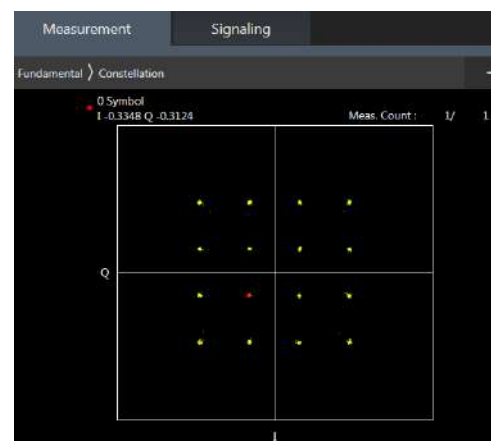
<LTE Conducted Power>

General Note:

1. Anritsu MT88201 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, 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.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, 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 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.
6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B12 / B26 / B26 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE band 2 / 4 / 5 / 17 / 38 SAR test and the conducted measurement was covered by Band 12 / 25 / 26 / 41 / 66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. The maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion.
 - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.
10. According to 2017 TCB workshop, for 64 QAM and 16 QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.



64QAM



16QAM



<LTE Band 2>

SAR for LTE B2 is covered by LTE B25 due to overlapping frequency range, less or same maximum tune-up limit and the same channel bandwidth

<LTE Band 4>

SAR for LTE B4 is covered by LTE B66 due to overlapping frequency range, less or same maximum tune-up limit and the same channel bandwidth

<LTE Band 5>

SAR for LTE B5 is covered by LTE B26 due to overlapping frequency range, less or same maximum tune-up limit and the same channel bandwidth

<LTE Band 7>

<WiFi off>

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				19.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350	20850	21100	21350
Frequency (MHz)				2510	2535	2560	2510	2535	2560
20	QPSK	1	0	18.18	18.26	18.15	23.55	23.63	23.51
20	QPSK	1	49	18.11	18.25	18.17	23.39	23.37	23.19
20	QPSK	1	99	18.07	18.08	18.01	23.36	23.23	23.04
20	QPSK	50	0	18.31	18.34	18.30	22.60	22.61	22.38
20	QPSK	50	24	18.27	18.29	18.29	22.51	22.48	22.31
20	QPSK	50	50	18.27	18.27	18.22	22.47	22.38	22.19
20	QPSK	100	0	18.22	18.33	18.26	22.46	22.48	22.32
20	16QAM	1	0	18.32	18.42	18.39	22.88	22.90	22.83
20	16QAM	1	49	18.34	18.33	18.35	22.70	22.71	22.55
20	16QAM	1	99	18.32	18.35	18.26	22.72	22.57	22.39
20	16QAM	50	0	18.38	18.34	18.28	21.67	21.67	21.51
20	16QAM	50	24	18.33	18.37	18.35	21.61	21.57	21.39
20	16QAM	50	50	18.32	18.26	18.21	21.58	21.47	21.29
20	16QAM	100	0	18.28	18.29	18.21	21.56	21.56	21.39
20	64QAM	1	0	18.39	18.32	18.39	21.84	21.86	21.76
20	64QAM	1	49	18.31	18.36	18.40	21.73	21.66	21.47
20	64QAM	1	99	18.36	18.36	18.27	21.68	21.45	21.32
20	64QAM	50	0	18.40	18.34	18.31	20.67	20.67	20.52
20	64QAM	50	24	18.33	18.39	18.30	20.62	20.60	20.43
20	64QAM	50	50	18.35	18.36	18.31	20.60	20.44	20.31
20	64QAM	100	0	18.32	18.39	18.31	20.58	20.56	20.40
Channel				20825	21100	21375	20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5	2507.5	2535	2562.5
15	QPSK	1	0	18.08	18.26	18.06	23.52	23.62	23.40
15	QPSK	1	37	18.06	18.23	18.12	23.42	23.43	23.17
15	QPSK	1	74	18.00	18.01	17.96	23.35	23.35	23.05
15	QPSK	36	0	18.21	18.28	18.26	22.56	22.65	22.28
15	QPSK	36	20	18.22	18.22	18.19	22.48	22.57	22.27
15	QPSK	36	39	18.24	18.27	18.21	22.46	22.43	22.09
15	QPSK	75	0	18.12	18.32	18.26	22.50	22.57	22.23
15	16QAM	1	0	18.29	18.35	18.33	22.80	22.99	22.73
15	16QAM	1	37	18.32	18.32	18.35	22.84	22.81	22.44
15	16QAM	1	74	18.23	18.26	18.17	22.73	22.70	22.37
15	16QAM	36	0	18.29	18.32	18.28	21.63	21.70	21.39
15	16QAM	36	20	18.32	18.30	18.31	21.73	21.63	21.33
15	16QAM	36	39	18.29	18.20	18.17	21.59	21.52	21.24
15	16QAM	75	0	18.24	18.26	18.17	21.71	21.66	21.31
15	64QAM	1	0	18.38	18.29	18.33	21.87	21.84	21.70
15	64QAM	1	37	18.22	18.32	18.36	21.80	21.69	21.46
15	64QAM	1	74	18.27	18.31	18.22	21.71	21.63	21.32
15	64QAM	36	0	18.35	18.27	18.23	20.76	20.71	20.47
15	64QAM	36	20	18.31	18.32	18.28	20.77	20.63	20.34
15	64QAM	36	39	18.25	18.32	18.29	20.64	20.55	20.29
15	64QAM	75	0	18.30	18.31	18.31	20.65	20.59	20.34



Channel				20800	21100	21400	20800	21100	21400
Frequency (MHz)				2505	2535	2565	2505	2535	2565
10	QPSK	1	0	18.14	18.25	18.14	23.54	23.61	23.27
10	QPSK	1	25	18.01	18.20	18.14	23.44	23.49	23.15
10	QPSK	1	49	18.07	18.06	17.97	23.46	23.37	23.05
10	QPSK	25	0	18.24	18.26	18.20	22.53	22.60	22.29
10	QPSK	25	12	18.20	18.29	18.25	22.59	22.54	22.25
10	QPSK	25	25	18.18	18.22	18.22	22.57	22.43	22.14
10	QPSK	50	0	18.18	18.27	18.17	22.63	22.51	22.24
10	16QAM	1	0	18.29	18.38	18.35	22.82	22.84	22.74
10	16QAM	1	25	18.26	18.30	18.25	22.76	22.78	22.44
10	16QAM	1	49	18.23	18.25	18.16	22.84	22.76	22.40
10	16QAM	25	0	18.28	18.32	18.28	21.62	21.67	21.37
10	16QAM	25	12	18.26	18.36	18.35	21.78	21.62	21.30
10	16QAM	25	25	18.24	18.24	18.14	21.66	21.54	21.22
10	16QAM	50	0	18.27	18.29	18.16	21.72	21.60	21.32
10	64QAM	1	0	18.32	18.28	18.38	21.75	21.93	21.63
10	64QAM	1	25	18.23	18.26	18.32	21.69	21.61	21.44
10	64QAM	1	49	18.33	18.33	18.19	21.83	21.64	21.25
10	64QAM	25	0	18.33	18.29	18.26	20.66	20.71	20.35
10	64QAM	25	12	18.33	18.31	18.22	20.71	20.67	20.29
10	64QAM	25	25	18.35	18.33	18.27	20.64	20.53	20.29
10	64QAM	50	0	18.31	18.33	18.23	20.69	20.61	20.34
Channel				20775	21100	21425	20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5	2502.5	2535	2567.5
5	QPSK	1	0	18.09	18.17	18.12	23.52	23.53	23.21
5	QPSK	1	12	18.10	18.25	18.16	23.49	23.51	23.11
5	QPSK	1	24	18.06	18.02	17.99	23.45	23.38	23.07
5	QPSK	12	0	18.27	18.24	18.29	22.52	22.51	22.19
5	QPSK	12	7	18.27	18.28	18.21	22.55	22.54	22.24
5	QPSK	12	13	18.24	18.20	18.14	22.47	22.45	22.19
5	QPSK	25	0	18.18	18.29	18.20	22.50	22.51	22.18
5	16QAM	1	0	18.28	18.32	18.33	22.82	22.80	22.43
5	16QAM	1	12	18.27	18.33	18.29	22.72	22.83	22.51
5	16QAM	1	24	18.28	18.32	18.20	22.73	22.67	22.40
5	16QAM	12	0	18.35	18.26	18.21	21.63	21.61	21.24
5	16QAM	12	7	18.28	18.36	18.35	21.65	21.60	21.27
5	16QAM	12	13	18.28	18.16	18.16	21.58	21.53	21.18
5	16QAM	25	0	18.27	18.21	18.17	21.58	21.61	21.26
5	64QAM	1	0	18.32	18.29	18.37	21.77	21.81	21.41
5	64QAM	1	12	18.21	18.30	18.37	21.72	21.75	21.29
5	64QAM	1	24	18.33	18.29	18.20	21.71	21.62	21.35
5	64QAM	12	0	18.36	18.24	18.28	20.68	20.71	20.36
5	64QAM	12	7	18.24	18.31	18.27	20.74	20.65	20.36
5	64QAM	12	13	18.26	18.34	18.25	20.63	20.61	20.30
5	64QAM	25	0	18.24	18.38	18.31	20.62	20.63	20.26



Power Selection				Hotspot / Body-worn					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350	20850	21100	21350
Frequency (MHz)				2510	2535	2560	2510	2535	2560
20	QPSK	1	0	23.55	23.63	23.51	23.55	23.63	23.51
20	QPSK	1	49	23.39	23.37	23.19	23.39	23.37	23.19
20	QPSK	1	99	23.36	23.23	23.04	23.36	23.23	23.04
20	QPSK	50	0	22.60	22.61	22.38	22.60	22.61	22.38
20	QPSK	50	24	22.51	22.48	22.31	22.51	22.48	22.31
20	QPSK	50	50	22.47	22.38	22.19	22.47	22.38	22.19
20	QPSK	100	0	22.46	22.48	22.32	22.46	22.48	22.32
20	16QAM	1	0	22.88	22.90	22.83	22.88	22.90	22.83
20	16QAM	1	49	22.70	22.71	22.55	22.70	22.71	22.55
20	16QAM	1	99	22.72	22.57	22.39	22.72	22.57	22.39
20	16QAM	50	0	21.67	21.67	21.51	21.67	21.67	21.51
20	16QAM	50	24	21.61	21.57	21.39	21.61	21.57	21.39
20	16QAM	50	50	21.58	21.47	21.29	21.58	21.47	21.29
20	16QAM	100	0	21.56	21.56	21.39	21.56	21.56	21.39
20	64QAM	1	0	21.84	21.86	21.76	21.84	21.86	21.76
20	64QAM	1	49	21.73	21.66	21.47	21.73	21.66	21.47
20	64QAM	1	99	21.68	21.45	21.32	21.68	21.45	21.32
20	64QAM	50	0	20.67	20.67	20.52	20.67	20.67	20.52
20	64QAM	50	24	20.62	20.60	20.43	20.62	20.60	20.43
20	64QAM	50	50	20.60	20.44	20.31	20.60	20.44	20.31
20	64QAM	100	0	20.58	20.56	20.40	20.58	20.56	20.40
Channel				20825	21100	21375	20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5	2507.5	2535	2562.5
15	QPSK	1	0	23.52	23.62	23.40	23.52	23.62	23.40
15	QPSK	1	37	23.42	23.43	23.17	23.42	23.43	23.17
15	QPSK	1	74	23.35	23.35	23.05	23.35	23.35	23.05
15	QPSK	36	0	22.56	22.65	22.28	22.56	22.65	22.28
15	QPSK	36	20	22.48	22.57	22.27	22.48	22.57	22.27
15	QPSK	36	39	22.46	22.43	22.09	22.46	22.43	22.09
15	QPSK	75	0	22.50	22.57	22.23	22.50	22.57	22.23
15	16QAM	1	0	22.80	22.99	22.73	22.80	22.99	22.73
15	16QAM	1	37	22.84	22.81	22.44	22.84	22.81	22.44
15	16QAM	1	74	22.73	22.70	22.37	22.73	22.70	22.37
15	16QAM	36	0	21.63	21.70	21.39	21.63	21.70	21.39
15	16QAM	36	20	21.73	21.63	21.33	21.73	21.63	21.33
15	16QAM	36	39	21.59	21.52	21.24	21.59	21.52	21.24
15	16QAM	75	0	21.71	21.66	21.31	21.71	21.66	21.31
15	64QAM	1	0	21.87	21.84	21.70	21.87	21.84	21.70
15	64QAM	1	37	21.80	21.69	21.46	21.80	21.69	21.46
15	64QAM	1	74	21.71	21.63	21.32	21.71	21.63	21.32
15	64QAM	36	0	20.76	20.71	20.47	20.76	20.71	20.47
15	64QAM	36	20	20.77	20.63	20.34	20.77	20.63	20.34
15	64QAM	36	39	20.64	20.55	20.29	20.64	20.55	20.29
15	64QAM	75	0	20.65	20.59	20.34	20.65	20.59	20.34
Channel				20800	21100	21400	20800	21100	21400
Frequency (MHz)				2505	2535	2565	2505	2535	2565
10	QPSK	1	0	23.54	23.61	23.27	23.54	23.61	23.27
10	QPSK	1	25	23.44	23.49	23.15	23.44	23.49	23.15
10	QPSK	1	49	23.46	23.37	23.05	23.46	23.37	23.05
10	QPSK	25	0	22.53	22.60	22.29	22.53	22.60	22.29
10	QPSK	25	12	22.59	22.54	22.25	22.59	22.54	22.25
10	QPSK	25	25	22.57	22.43	22.14	22.57	22.43	22.14
10	QPSK	50	0	22.63	22.51	22.24	22.63	22.51	22.24
10	16QAM	1	0	22.82	22.84	22.74	22.82	22.84	22.74
10	16QAM	1	25	22.76	22.78	22.44	22.76	22.78	22.44
10	16QAM	1	49	22.84	22.76	22.40	22.84	22.76	22.40
10	16QAM	25	0	21.62	21.67	21.37	21.62	21.67	21.37
10	16QAM	25	12	21.78	21.62	21.30	21.78	21.62	21.30
10	16QAM	25	25	21.66	21.54	21.22	21.66	21.54	21.22
10	16QAM	50	0	21.72	21.60	21.32	21.72	21.60	21.32
10	64QAM	1	0	21.75	21.93	21.63	21.75	21.93	21.63



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10	64QAM	1	25	21.69	21.61	21.44	21.69	21.61	21.44
10	64QAM	1	49	21.83	21.64	21.25	21.83	21.64	21.25
10	64QAM	25	0	20.66	20.71	20.35	20.66	20.71	20.35
10	64QAM	25	12	20.71	20.67	20.29	20.71	20.67	20.29
10	64QAM	25	25	20.64	20.53	20.29	20.64	20.53	20.29
10	64QAM	50	0	20.69	20.61	20.34	20.69	20.61	20.34
Channel				20775	21100	21425	20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5	2502.5	2535	2567.5
5	QPSK	1	0	23.52	23.53	23.21	23.52	23.53	23.21
5	QPSK	1	12	23.49	23.51	23.11	23.49	23.51	23.11
5	QPSK	1	24	23.45	23.38	23.07	23.45	23.38	23.07
5	QPSK	12	0	22.52	22.51	22.19	22.52	22.51	22.19
5	QPSK	12	7	22.55	22.54	22.24	22.55	22.54	22.24
5	QPSK	12	13	22.47	22.45	22.19	22.47	22.45	22.19
5	QPSK	25	0	22.50	22.51	22.18	22.50	22.51	22.18
5	16QAM	1	0	22.82	22.80	22.43	22.82	22.80	22.43
5	16QAM	1	12	22.72	22.83	22.51	22.72	22.83	22.51
5	16QAM	1	24	22.73	22.67	22.40	22.73	22.67	22.40
5	16QAM	12	0	21.63	21.61	21.24	21.63	21.61	21.24
5	16QAM	12	7	21.65	21.60	21.27	21.65	21.60	21.27
5	16QAM	12	13	21.58	21.53	21.18	21.58	21.53	21.18
5	16QAM	25	0	21.58	21.61	21.26	21.58	21.61	21.26
5	64QAM	1	0	21.77	21.81	21.41	21.77	21.81	21.41
5	64QAM	1	12	21.72	21.75	21.29	21.72	21.75	21.29
5	64QAM	1	24	21.71	21.62	21.35	21.71	21.62	21.35
5	64QAM	12	0	20.68	20.71	20.36	20.68	20.71	20.36
5	64QAM	12	7	20.74	20.65	20.36	20.74	20.65	20.36
5	64QAM	12	13	20.63	20.61	20.30	20.63	20.61	20.30
5	64QAM	25	0	20.62	20.63	20.26	20.62	20.63	20.26

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Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				18.5			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350	20850	21100	21350
Frequency (MHz)				2510	2535	2560	2510	2535	2560
20	QPSK	1	0	18.18	18.26	18.15	23.55	23.63	23.51
20	QPSK	1	49	18.11	18.25	18.17	23.39	23.37	23.19
20	QPSK	1	99	18.07	18.08	18.01	23.36	23.23	23.04
20	QPSK	50	0	18.31	18.34	18.30	22.60	22.61	22.38
20	QPSK	50	24	18.27	18.29	18.29	22.51	22.48	22.31
20	QPSK	50	50	18.27	18.27	18.22	22.47	22.38	22.19
20	QPSK	100	0	18.22	18.33	18.26	22.46	22.48	22.32
20	16QAM	1	0	18.32	18.42	18.39	22.88	22.90	22.83
20	16QAM	1	49	18.34	18.33	18.35	22.70	22.71	22.55
20	16QAM	1	99	18.32	18.35	18.26	22.72	22.57	22.39
20	16QAM	50	0	18.38	18.34	18.28	21.67	21.67	21.51
20	16QAM	50	24	18.33	18.37	18.35	21.61	21.57	21.39
20	16QAM	50	50	18.32	18.26	18.21	21.58	21.47	21.29
20	16QAM	100	0	18.28	18.29	18.21	21.56	21.56	21.39
20	64QAM	1	0	18.39	18.32	18.39	21.84	21.86	21.76
20	64QAM	1	49	18.31	18.36	18.40	21.73	21.66	21.47
20	64QAM	1	99	18.36	18.36	18.27	21.68	21.45	21.32
20	64QAM	50	0	18.40	18.34	18.31	20.67	20.67	20.52
20	64QAM	50	24	18.33	18.39	18.30	20.62	20.60	20.43
20	64QAM	50	50	18.35	18.36	18.31	20.60	20.44	20.31
20	64QAM	100	0	18.32	18.39	18.31	20.58	20.56	20.40
Channel				20825	21100	21375	20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5	2507.5	2535	2562.5
15	QPSK	1	0	18.08	18.26	18.06	23.52	23.62	23.40
15	QPSK	1	37	18.06	18.23	18.12	23.42	23.43	23.17
15	QPSK	1	74	18.00	18.01	17.96	23.35	23.35	23.05
15	QPSK	36	0	18.21	18.28	18.26	22.56	22.65	22.28
15	QPSK	36	20	18.22	18.22	18.19	22.48	22.57	22.27
15	QPSK	36	39	18.24	18.27	18.21	22.46	22.43	22.09
15	QPSK	75	0	18.12	18.32	18.26	22.50	22.57	22.23



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15	16QAM	1	0	18.29	18.35	18.33	22.80	22.99	22.73
15	16QAM	1	37	18.32	18.32	18.35	22.84	22.81	22.44
15	16QAM	1	74	18.23	18.26	18.17	22.73	22.70	22.37
15	16QAM	36	0	18.29	18.32	18.28	21.63	21.70	21.39
15	16QAM	36	20	18.32	18.30	18.31	21.73	21.63	21.33
15	16QAM	36	39	18.29	18.20	18.17	21.59	21.52	21.24
15	16QAM	75	0	18.24	18.26	18.17	21.71	21.66	21.31
15	64QAM	1	0	18.38	18.29	18.33	21.87	21.84	21.70
15	64QAM	1	37	18.22	18.32	18.36	21.80	21.69	21.46
15	64QAM	1	74	18.27	18.31	18.22	21.71	21.63	21.32
15	64QAM	36	0	18.35	18.27	18.23	20.76	20.71	20.47
15	64QAM	36	20	18.31	18.32	18.28	20.77	20.63	20.34
15	64QAM	36	39	18.25	18.32	18.29	20.64	20.55	20.29
15	64QAM	75	0	18.30	18.31	18.31	20.65	20.59	20.34
Channel				20800	21100	21400	20800	21100	21400
Frequency (MHz)				2505	2535	2565	2505	2535	2565
10	QPSK	1	0	18.14	18.25	18.14	23.54	23.61	23.27
10	QPSK	1	25	18.01	18.20	18.14	23.44	23.49	23.15
10	QPSK	1	49	18.07	18.06	17.97	23.46	23.37	23.05
10	QPSK	25	0	18.24	18.26	18.20	22.53	22.60	22.29
10	QPSK	25	12	18.20	18.29	18.25	22.59	22.54	22.25
10	QPSK	25	25	18.18	18.22	18.22	22.57	22.43	22.14
10	QPSK	50	0	18.18	18.27	18.17	22.63	22.51	22.24
10	16QAM	1	0	18.29	18.38	18.35	22.82	22.84	22.74
10	16QAM	1	25	18.26	18.30	18.25	22.76	22.78	22.44
10	16QAM	1	49	18.23	18.25	18.16	22.84	22.76	22.40
10	16QAM	25	0	18.28	18.32	18.28	21.62	21.67	21.37
10	16QAM	25	12	18.26	18.36	18.35	21.78	21.62	21.30
10	16QAM	25	25	18.24	18.24	18.14	21.66	21.54	21.22
10	16QAM	50	0	18.27	18.29	18.16	21.72	21.60	21.32
10	64QAM	1	0	18.32	18.28	18.38	21.75	21.93	21.63
10	64QAM	1	25	18.23	18.26	18.32	21.69	21.61	21.44
10	64QAM	1	49	18.33	18.33	18.19	21.83	21.64	21.25
10	64QAM	25	0	18.33	18.29	18.26	20.66	20.71	20.35
10	64QAM	25	12	18.33	18.31	18.22	20.71	20.67	20.29
10	64QAM	25	25	18.35	18.33	18.27	20.64	20.53	20.29
10	64QAM	50	0	18.31	18.33	18.23	20.69	20.61	20.34
Channel				20775	21100	21425	20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5	2502.5	2535	2567.5
5	QPSK	1	0	18.09	18.17	18.12	23.52	23.53	23.21
5	QPSK	1	12	18.10	18.25	18.16	23.49	23.51	23.11
5	QPSK	1	24	18.06	18.02	17.99	23.45	23.38	23.07
5	QPSK	12	0	18.27	18.24	18.29	22.52	22.51	22.19
5	QPSK	12	7	18.27	18.28	18.21	22.55	22.54	22.24
5	QPSK	12	13	18.24	18.20	18.14	22.47	22.45	22.19
5	QPSK	25	0	18.18	18.29	18.20	22.50	22.51	22.18
5	16QAM	1	0	18.28	18.32	18.33	22.82	22.80	22.43
5	16QAM	1	12	18.27	18.33	18.29	22.72	22.83	22.51
5	16QAM	1	24	18.28	18.32	18.20	22.73	22.67	22.40
5	16QAM	12	0	18.35	18.26	18.21	21.63	21.61	21.24
5	16QAM	12	7	18.28	18.36	18.35	21.65	21.60	21.27
5	16QAM	12	13	18.28	18.16	18.16	21.58	21.53	21.18
5	16QAM	25	0	18.27	18.21	18.17	21.58	21.61	21.26
5	64QAM	1	0	18.32	18.29	18.37	21.77	21.81	21.41
5	64QAM	1	12	18.21	18.30	18.37	21.72	21.75	21.29
5	64QAM	1	24	18.33	18.29	18.20	21.71	21.62	21.35
5	64QAM	12	0	18.36	18.24	18.28	20.68	20.71	20.36
5	64QAM	12	7	18.24	18.31	18.27	20.74	20.65	20.36
5	64QAM	12	13	18.26	18.34	18.25	20.63	20.61	20.30
5	64QAM	25	0	18.24	18.38	18.31	20.62	20.63	20.26

Power Selection				Hotspot / Body-worn					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350	20850	21100	21350
Frequency (MHz)				2510	2535	2560	2510	2535	2560
20	QPSK	1	0	23.55	23.63	23.51	23.55	23.63	23.51



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20	QPSK	1	49	23.39	23.37	23.19	23.39	23.37	23.19
20	QPSK	1	99	23.36	23.23	23.04	23.36	23.23	23.04
20	QPSK	50	0	22.60	22.61	22.38	22.60	22.61	22.38
20	QPSK	50	24	22.51	22.48	22.31	22.51	22.48	22.31
20	QPSK	50	50	22.47	22.38	22.19	22.47	22.38	22.19
20	QPSK	100	0	22.46	22.48	22.32	22.46	22.48	22.32
20	16QAM	1	0	22.88	22.90	22.83	22.88	22.90	22.83
20	16QAM	1	49	22.70	22.71	22.55	22.70	22.71	22.55
20	16QAM	1	99	22.72	22.57	22.39	22.72	22.57	22.39
20	16QAM	50	0	21.67	21.67	21.51	21.67	21.67	21.51
20	16QAM	50	24	21.61	21.57	21.39	21.61	21.57	21.39
20	16QAM	50	50	21.58	21.47	21.29	21.58	21.47	21.29
20	16QAM	100	0	21.56	21.56	21.39	21.56	21.56	21.39
20	64QAM	1	0	21.84	21.86	21.76	21.84	21.86	21.76
20	64QAM	1	49	21.73	21.66	21.47	21.73	21.66	21.47
20	64QAM	1	99	21.68	21.45	21.32	21.68	21.45	21.32
20	64QAM	50	0	20.67	20.67	20.52	20.67	20.67	20.52
20	64QAM	50	24	20.62	20.60	20.43	20.62	20.60	20.43
20	64QAM	50	50	20.60	20.44	20.31	20.60	20.44	20.31
20	64QAM	100	0	20.58	20.56	20.40	20.58	20.56	20.40
Channel				20825	21100	21375	20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5	2507.5	2535	2562.5
15	QPSK	1	0	23.52	23.62	23.40	23.52	23.62	23.40
15	QPSK	1	37	23.42	23.43	23.17	23.42	23.43	23.17
15	QPSK	1	74	23.35	23.35	23.05	23.35	23.35	23.05
15	QPSK	36	0	22.56	22.65	22.28	22.56	22.65	22.28
15	QPSK	36	20	22.48	22.57	22.27	22.48	22.57	22.27
15	QPSK	36	39	22.46	22.43	22.09	22.46	22.43	22.09
15	QPSK	75	0	22.50	22.57	22.23	22.50	22.57	22.23
15	16QAM	1	0	22.80	22.99	22.73	22.80	22.99	22.73
15	16QAM	1	37	22.84	22.81	22.44	22.84	22.81	22.44
15	16QAM	1	74	22.73	22.70	22.37	22.73	22.70	22.37
15	16QAM	36	0	21.63	21.70	21.39	21.63	21.70	21.39
15	16QAM	36	20	21.73	21.63	21.33	21.73	21.63	21.33
15	16QAM	36	39	21.59	21.52	21.24	21.59	21.52	21.24
15	16QAM	75	0	21.71	21.66	21.31	21.71	21.66	21.31
15	64QAM	1	0	21.87	21.84	21.70	21.87	21.84	21.70
15	64QAM	1	37	21.80	21.69	21.46	21.80	21.69	21.46
15	64QAM	1	74	21.71	21.63	21.32	21.71	21.63	21.32
15	64QAM	36	0	20.76	20.71	20.47	20.76	20.71	20.47
15	64QAM	36	20	20.77	20.63	20.34	20.77	20.63	20.34
15	64QAM	36	39	20.64	20.55	20.29	20.64	20.55	20.29
15	64QAM	75	0	20.65	20.59	20.34	20.65	20.59	20.34
Channel				20800	21100	21400	20800	21100	21400
Frequency (MHz)				2505	2535	2565	2505	2535	2565
10	QPSK	1	0	23.54	23.61	23.27	23.54	23.61	23.27
10	QPSK	1	25	23.44	23.49	23.15	23.44	23.49	23.15
10	QPSK	1	49	23.46	23.37	23.05	23.46	23.37	23.05
10	QPSK	25	0	22.53	22.60	22.29	22.53	22.60	22.29
10	QPSK	25	12	22.59	22.54	22.25	22.59	22.54	22.25
10	QPSK	25	25	22.57	22.43	22.14	22.57	22.43	22.14
10	QPSK	50	0	22.63	22.51	22.24	22.63	22.51	22.24
10	16QAM	1	0	22.82	22.84	22.74	22.82	22.84	22.74
10	16QAM	1	25	22.76	22.78	22.44	22.76	22.78	22.44
10	16QAM	1	49	22.84	22.76	22.40	22.84	22.76	22.40
10	16QAM	25	0	21.62	21.67	21.37	21.62	21.67	21.37
10	16QAM	25	12	21.78	21.62	21.30	21.78	21.62	21.30
10	16QAM	25	25	21.66	21.54	21.22	21.66	21.54	21.22
10	16QAM	50	0	21.72	21.60	21.32	21.72	21.60	21.32
10	64QAM	1	0	21.75	21.93	21.63	21.75	21.93	21.63
10	64QAM	1	25	21.69	21.61	21.44	21.69	21.61	21.44
10	64QAM	1	49	21.83	21.64	21.25	21.83	21.64	21.25
10	64QAM	25	0	20.66	20.71	20.35	20.66	20.71	20.35
10	64QAM	25	12	20.71	20.67	20.29	20.71	20.67	20.29
10	64QAM	25	25	20.64	20.53	20.29	20.64	20.53	20.29
10	64QAM	50	0	20.69	20.61	20.34	20.69	20.61	20.34
Channel				20775	21100	21425	20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5	2502.5	2535	2567.5
5	QPSK	1	0	23.52	23.53	23.21	23.52	23.53	23.21
5	QPSK	1	12	23.49	23.51	23.11	23.49	23.51	23.11



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5	QPSK	1	24	23.45	23.38	23.07	23.45	23.38	23.07
5	QPSK	12	0	22.52	22.51	22.19	22.52	22.51	22.19
5	QPSK	12	7	22.55	22.54	22.24	22.55	22.54	22.24
5	QPSK	12	13	22.47	22.45	22.19	22.47	22.45	22.19
5	QPSK	25	0	22.50	22.51	22.18	22.50	22.51	22.18
5	16QAM	1	0	22.82	22.80	22.43	22.82	22.80	22.43
5	16QAM	1	12	22.72	22.83	22.51	22.72	22.83	22.51
5	16QAM	1	24	22.73	22.67	22.40	22.73	22.67	22.40
5	16QAM	12	0	21.63	21.61	21.24	21.63	21.61	21.24
5	16QAM	12	7	21.65	21.60	21.27	21.65	21.60	21.27
5	16QAM	12	13	21.58	21.53	21.18	21.58	21.53	21.18
5	16QAM	25	0	21.58	21.61	21.26	21.58	21.61	21.26
5	64QAM	1	0	21.77	21.81	21.41	21.77	21.81	21.41
5	64QAM	1	12	21.72	21.75	21.29	21.72	21.75	21.29
5	64QAM	1	24	21.71	21.62	21.35	21.71	21.62	21.35
5	64QAM	12	0	20.68	20.71	20.36	20.68	20.71	20.36
5	64QAM	12	7	20.74	20.65	20.36	20.74	20.65	20.36
5	64QAM	12	13	20.63	20.61	20.30	20.63	20.61	20.30
5	64QAM	25	0	20.62	20.63	20.26	20.62	20.63	20.26

**<LTE Band 12>****<WiFi off / Wifi on>**

Power Selection				Head / Hotspot / Body-worn					
Transmit Antenna				UAT			LAT		
Max. Power				24.5			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23060	23095	23130	23060	23095	23130
Frequency (MHz)				704	707.5	711	704	707.5	711
10	QPSK	1	0	24.28	24.41	24.43	24.28	24.41	24.43
10	QPSK	1	25	24.23	24.29	24.42	24.23	24.29	24.42
10	QPSK	1	49	24.27	24.40	24.36	24.27	24.40	24.36
10	QPSK	25	0	23.33	23.39	23.42	23.33	23.39	23.42
10	QPSK	25	12	23.32	23.33	23.35	23.32	23.33	23.35
10	QPSK	25	25	23.30	23.28	23.41	23.30	23.28	23.41
10	QPSK	50	0	23.30	23.34	23.37	23.30	23.34	23.37
10	16QAM	1	0	23.23	23.35	23.45	23.23	23.35	23.45
10	16QAM	1	25	23.29	23.37	23.42	23.29	23.37	23.42
10	16QAM	1	49	23.34	23.43	23.41	23.34	23.43	23.41
10	16QAM	25	0	22.02	22.23	22.18	22.02	22.23	22.18
10	16QAM	25	12	22.11	22.14	22.17	22.11	22.14	22.17
10	16QAM	25	25	22.10	22.05	22.20	22.10	22.05	22.20
10	16QAM	50	0	22.09	22.12	22.20	22.09	22.12	22.20
10	64QAM	1	0	22.16	22.20	22.34	22.16	22.20	22.34
10	64QAM	1	25	22.20	22.29	22.35	22.20	22.29	22.35
10	64QAM	1	49	22.28	22.37	22.43	22.28	22.37	22.43
10	64QAM	25	0	21.05	21.21	21.17	21.05	21.21	21.17
10	64QAM	25	12	21.11	21.14	21.19	21.11	21.14	21.19
10	64QAM	25	25	21.14	21.07	21.19	21.14	21.07	21.19
10	64QAM	50	0	21.09	21.15	21.19	21.09	21.15	21.19
Channel				23035	23095	23155	23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5	701.5	707.5	713.5
5	QPSK	1	0	23.95	24.10	24.25	23.95	24.10	24.25
5	QPSK	1	12	23.97	24.12	24.29	23.97	24.12	24.29
5	QPSK	1	24	24.01	24.15	24.37	24.01	24.15	24.37
5	QPSK	12	0	23.05	23.16	23.23	23.05	23.16	23.23
5	QPSK	12	7	23.05	23.22	23.28	23.05	23.22	23.28
5	QPSK	12	13	23.11	23.14	23.30	23.11	23.14	23.30
5	QPSK	25	0	23.06	23.13	23.23	23.06	23.13	23.23
5	16QAM	1	0	23.30	23.45	23.46	23.30	23.45	23.46
5	16QAM	1	12	23.37	23.38	23.42	23.37	23.38	23.42
5	16QAM	1	24	23.38	23.46	23.44	23.38	23.46	23.44
5	16QAM	12	0	22.19	22.33	22.41	22.19	22.33	22.41
5	16QAM	12	7	22.14	22.27	22.37	22.14	22.27	22.37
5	16QAM	12	13	22.23	22.20	22.40	22.23	22.20	22.40
5	16QAM	25	0	22.15	22.25	22.35	22.15	22.25	22.35
5	64QAM	1	0	22.21	22.35	22.44	22.21	22.35	22.44
5	64QAM	1	12	22.23	22.48	22.44	22.23	22.48	22.44
5	64QAM	1	24	22.40	22.43	22.43	22.40	22.43	22.43
5	64QAM	12	0	21.20	21.33	21.39	21.20	21.33	21.39
5	64QAM	12	7	21.22	21.34	21.41	21.22	21.34	21.41
5	64QAM	12	13	21.27	21.28	21.47	21.27	21.28	21.47
5	64QAM	25	0	21.15	21.22	21.33	21.15	21.22	21.33
Channel				23025	23095	23165	23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5	700.5	707.5	714.5
3	QPSK	1	0	23.91	24.03	24.30	23.91	24.03	24.30
3	QPSK	1	8	23.97	24.06	24.24	23.97	24.06	24.24
3	QPSK	1	14	23.96	24.07	24.36	23.96	24.07	24.36
3	QPSK	8	0	23.01	23.12	23.34	23.01	23.12	23.34
3	QPSK	8	4	23.03	23.16	23.32	23.03	23.16	23.32
3	QPSK	8	7	23.02	23.10	23.29	23.02	23.10	23.29
3	QPSK	15	0	23.06	23.11	23.28	23.06	23.11	23.28
3	16QAM	1	0	23.29	23.29	23.48	23.29	23.29	23.48
3	16QAM	1	8	23.28	23.42	23.47	23.28	23.42	23.47
3	16QAM	1	14	23.25	23.30	23.43	23.25	23.30	23.43
3	16QAM	8	0	22.22	22.34	22.44	22.22	22.34	22.44
3	16QAM	8	4	22.19	22.28	22.50	22.19	22.28	22.50
3	16QAM	8	7	22.17	22.26	22.44	22.17	22.26	22.44



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3	16QAM	15	0	22.14	22.22	22.43	22.14	22.22	22.43
3	64QAM	1	0	22.18	22.42	22.45	22.18	22.42	22.45
3	64QAM	1	8	22.31	22.45	22.49	22.31	22.45	22.49
3	64QAM	1	14	22.24	22.29	22.44	22.24	22.29	22.44
3	64QAM	8	0	21.17	21.34	21.45	21.17	21.34	21.45
3	64QAM	8	4	21.22	21.26	21.45	21.22	21.26	21.45
3	64QAM	8	7	21.18	21.28	21.43	21.18	21.28	21.43
3	64QAM	15	0	21.28	21.26	21.42	21.28	21.26	21.42
Channel				23017	23095	23173	23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3	699.7	707.5	715.3
1.4	QPSK	1	0	23.84	24.02	24.14	23.84	24.02	24.14
1.4	QPSK	1	3	23.89	24.05	24.42	23.89	24.05	24.42
1.4	QPSK	1	5	23.84	23.99	24.34	23.84	23.99	24.34
1.4	QPSK	3	0	23.87	24.07	24.20	23.87	24.07	24.20
1.4	QPSK	3	1	23.93	24.09	24.40	23.93	24.09	24.40
1.4	QPSK	3	3	23.86	24.07	24.36	23.86	24.07	24.36
1.4	QPSK	6	0	22.89	23.07	23.26	22.89	23.07	23.26
1.4	16QAM	1	0	23.14	23.35	23.44	23.14	23.35	23.44
1.4	16QAM	1	3	23.24	23.41	23.46	23.24	23.41	23.46
1.4	16QAM	1	5	23.12	23.39	23.41	23.12	23.39	23.41
1.4	16QAM	3	0	22.92	23.10	23.26	22.92	23.10	23.26
1.4	16QAM	3	1	22.85	23.16	23.38	22.85	23.16	23.38
1.4	16QAM	3	3	22.96	23.17	23.50	22.96	23.17	23.50
1.4	16QAM	6	0	21.97	22.24	22.43	21.97	22.24	22.43
1.4	64QAM	1	0	22.13	22.27	22.41	22.13	22.27	22.41
1.4	64QAM	1	3	22.16	22.40	22.41	22.16	22.40	22.41
1.4	64QAM	1	5	22.06	22.29	22.46	22.06	22.29	22.46
1.4	64QAM	3	0	22.06	22.26	22.47	22.06	22.26	22.47
1.4	64QAM	3	1	22.22	22.28	22.45	22.22	22.28	22.45
1.4	64QAM	3	3	22.11	22.32	22.48	22.11	22.32	22.48
1.4	64QAM	6	0	20.99	21.18	21.33	20.99	21.18	21.33



<LTE Band 13>

<WiFi off / Wifi on>

Power Selection				Head / Hotspot / Body-worn					
Transmit Antenna				UAT			LAT		
Max. Power				24.5			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					23230			23230	
Frequency (MHz)					782			782	
10	QPSK	1	0		24.45			24.45	
10	QPSK	1	25		24.41			24.41	
10	QPSK	1	49		24.32			24.32	
10	QPSK	25	0		23.45			23.45	
10	QPSK	25	12		23.44			23.44	
10	QPSK	25	25		23.35			23.35	
10	QPSK	50	0		23.43			23.43	
10	16QAM	1	0		23.42			23.42	
10	16QAM	1	25		23.44			23.44	
10	16QAM	1	49		23.47			23.47	
10	16QAM	25	0		22.32			22.32	
10	16QAM	25	12		22.46			22.46	
10	16QAM	25	25		22.47			22.47	
10	16QAM	50	0		22.44			22.44	
10	64QAM	1	0		22.46			22.46	
10	64QAM	1	25		22.50			22.50	
10	64QAM	1	49		22.48			22.48	
10	64QAM	25	0		21.45			21.45	
10	64QAM	25	12		21.49			21.49	
10	64QAM	25	25		21.47			21.47	
10	64QAM	50	0		21.46			21.46	
Channel				23205	23230	23255	23205	23230	23255
Frequency (MHz)				779.5	782	784.5	779.5	782	784.5
5	QPSK	1	0	24.24	24.29	24.39	24.24	24.29	24.39
5	QPSK	1	12	24.27	24.34	24.32	24.27	24.34	24.32
5	QPSK	1	24	24.33	24.27	24.23	24.33	24.27	24.23
5	QPSK	12	0	23.25	23.41	23.36	23.25	23.41	23.36
5	QPSK	12	7	23.29	23.36	23.33	23.29	23.36	23.33
5	QPSK	12	13	23.34	23.34	23.27	23.34	23.34	23.27
5	QPSK	25	0	23.30	23.35	23.33	23.30	23.35	23.33
5	16QAM	1	0	23.41	23.41	23.43	23.41	23.41	23.43
5	16QAM	1	12	23.41	23.41	23.48	23.41	23.41	23.48
5	16QAM	1	24	23.44	23.47	23.40	23.44	23.47	23.40
5	16QAM	12	0	22.25	22.50	22.47	22.25	22.50	22.47
5	16QAM	12	7	22.43	22.48	22.44	22.43	22.48	22.44
5	16QAM	12	13	22.42	22.46	22.37	22.42	22.46	22.37
5	16QAM	25	0	22.39	22.47	22.38	22.39	22.47	22.38
5	64QAM	1	0	22.31	22.48	22.45	22.31	22.48	22.45
5	64QAM	1	12	22.46	22.46	22.22	22.46	22.46	22.22
5	64QAM	1	24	22.45	22.45	22.46	22.45	22.45	22.46
5	64QAM	12	0	21.34	21.46	21.50	21.34	21.46	21.50
5	64QAM	12	7	21.49	21.49	21.41	21.49	21.49	21.41
5	64QAM	12	13	21.50	21.49	21.42	21.50	21.49	21.42
5	64QAM	25	0	21.40	21.46	21.43	21.40	21.46	21.43

<LTE Band 17>

SAR for LTE B17 is covered by LTE B12 due to overlapping frequency range, the same maximum tune-up limit and the same channel bandwidth



<LTE Band 25>

<WiFi off>

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				17.5			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	16.32	16.51	16.41	23.45	23.50	23.49
20	QPSK	1	49	16.29	16.44	16.38	23.15	23.28	23.37
20	QPSK	1	99	16.10	16.15	16.37	23.17	23.19	23.35
20	QPSK	50	0	16.47	16.50	16.42	22.33	22.49	22.44
20	QPSK	50	24	16.46	16.45	16.46	22.32	22.35	22.45
20	QPSK	50	50	16.36	16.43	16.48	22.24	22.31	22.35
20	QPSK	100	0	16.45	16.50	16.38	22.32	22.49	22.34
20	16QAM	1	0	16.80	16.83	16.83	22.48	22.48	22.44
20	16QAM	1	49	16.67	16.86	16.78	22.48	22.48	22.45
20	16QAM	1	99	16.56	16.59	16.71	22.46	22.48	22.48
20	16QAM	50	0	16.65	16.72	16.85	21.41	21.48	21.48
20	16QAM	50	24	16.67	16.67	16.73	21.46	21.44	21.48
20	16QAM	50	50	16.58	16.60	16.64	21.36	21.38	21.50
20	16QAM	100	0	16.60	16.65	16.77	21.41	21.44	21.50
20	64QAM	1	0	16.68	16.75	16.79	21.50	21.50	21.49
20	64QAM	1	49	16.64	16.73	16.80	21.35	21.48	21.50
20	64QAM	1	99	16.46	16.54	16.59	21.38	21.44	21.49
20	64QAM	50	0	16.64	16.76	16.85	20.37	20.49	20.45
20	64QAM	50	24	16.69	16.69	16.72	20.43	20.43	20.44
20	64QAM	50	50	16.61	16.60	16.68	20.39	20.41	20.44
20	64QAM	100	0	16.67	16.68	16.79	20.42	20.46	20.48
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	16.28	16.43	16.35	23.36	23.36	23.49
15	QPSK	1	37	16.26	16.40	16.30	23.16	23.34	23.04
15	QPSK	1	74	16.02	16.08	16.35	23.23	23.29	23.17
15	QPSK	36	0	16.44	16.48	16.36	22.10	22.22	22.31
15	QPSK	36	20	16.42	16.44	16.42	22.06	22.20	22.08
15	QPSK	36	39	16.28	16.34	16.41	22.08	22.13	22.17
15	QPSK	75	0	16.45	16.41	16.29	22.11	22.15	22.25
15	16QAM	1	0	16.72	16.80	16.81	22.39	22.49	22.48
15	16QAM	1	37	16.66	16.77	16.69	22.29	22.40	22.09
15	16QAM	1	74	16.48	16.54	16.55	22.40	22.42	22.26
15	16QAM	36	0	16.65	16.63	16.79	21.13	21.28	21.40
15	16QAM	36	20	16.57	16.65	16.68	21.12	21.23	21.21
15	16QAM	36	39	16.49	16.59	16.60	21.18	21.20	21.25
15	16QAM	75	0	16.50	16.59	16.58	21.20	21.24	21.37
15	64QAM	1	0	16.59	16.69	16.79	21.45	21.44	21.40
15	64QAM	1	37	16.58	16.68	16.72	21.09	21.36	21.19
15	64QAM	1	74	16.45	16.53	16.49	21.33	21.31	21.29
15	64QAM	36	0	16.58	16.69	16.80	20.19	20.31	20.46
15	64QAM	36	20	16.62	16.66	16.72	20.15	20.33	20.22
15	64QAM	36	39	16.61	16.54	16.58	20.22	20.25	20.33
15	64QAM	75	0	16.61	16.59	16.54	20.25	20.24	20.33
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	16.25	16.47	16.38	23.27	23.32	23.27
10	QPSK	1	25	16.20	16.38	16.32	23.18	23.29	22.96
10	QPSK	1	49	16.09	16.12	16.37	23.12	23.29	22.98
10	QPSK	25	0	16.46	16.46	16.37	22.25	22.35	22.05
10	QPSK	25	12	16.45	16.40	16.38	22.24	22.39	22.13
10	QPSK	25	25	16.31	16.38	16.40	22.21	22.31	22.16
10	QPSK	50	0	16.44	16.40	16.31	22.22	22.37	22.09
10	16QAM	1	0	16.75	16.82	16.73	22.47	22.42	22.36
10	16QAM	1	25	16.61	16.82	16.78	22.31	22.37	22.25
10	16QAM	1	49	16.53	16.52	16.64	22.17	22.32	22.23
10	16QAM	25	0	16.55	16.70	16.83	21.15	21.27	21.12
10	16QAM	25	12	16.58	16.64	16.66	21.15	21.31	21.30
10	16QAM	25	25	16.53	16.54	16.55	21.07	21.22	21.27



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10	16QAM	50	0	16.57	16.61	16.65	21.12	21.23	21.21
10	64QAM	1	0	16.64	16.73	16.75	21.29	21.34	21.46
10	64QAM	1	25	16.60	16.71	16.74	21.18	21.26	21.40
10	64QAM	1	49	16.37	16.48	16.52	21.21	21.24	21.33
10	64QAM	25	0	16.56	16.67	16.83	20.16	20.27	20.25
10	64QAM	25	12	16.62	16.69	16.69	20.11	20.25	20.21
10	64QAM	25	25	16.52	16.59	16.63	20.05	20.22	20.34
10	64QAM	50	0	16.63	16.65	16.61	20.12	20.33	20.22
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	16.30	16.43	16.35	23.24	23.32	23.27
5	QPSK	1	12	16.26	16.36	16.33	23.24	23.32	23.40
5	QPSK	1	24	16.05	16.07	16.32	23.19	23.29	23.23
5	QPSK	12	0	16.38	16.50	16.42	22.22	22.37	22.41
5	QPSK	12	7	16.46	16.42	16.38	22.24	22.33	22.41
5	QPSK	12	13	16.32	16.41	16.44	22.21	22.35	22.38
5	QPSK	25	0	16.37	16.46	16.37	22.16	22.36	22.35
5	16QAM	1	0	16.78	16.73	16.83	22.53	22.69	22.71
5	16QAM	1	12	16.67	16.83	16.75	22.55	22.64	22.56
5	16QAM	1	24	16.54	16.50	16.66	22.43	22.59	22.51
5	16QAM	12	0	16.63	16.72	16.84	21.31	21.46	21.50
5	16QAM	12	7	16.62	16.65	16.72	21.29	21.48	21.48
5	16QAM	12	13	16.50	16.57	16.62	21.29	21.37	21.45
5	16QAM	25	0	16.58	16.57	16.50	21.28	21.41	21.45
5	64QAM	1	0	16.66	16.65	16.76	21.47	21.55	21.65
5	64QAM	1	12	16.59	16.72	16.78	21.42	21.59	21.60
5	64QAM	1	24	16.44	16.51	16.50	21.31	21.53	21.57
5	64QAM	12	0	16.63	16.66	16.83	20.36	20.48	20.55
5	64QAM	12	7	16.61	16.68	16.65	20.33	20.48	20.55
5	64QAM	12	13	16.55	16.56	16.67	20.36	20.45	20.51
5	64QAM	25	0	16.65	16.59	16.53	20.30	20.41	20.48
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	16.24	16.41	16.31	23.24	23.31	23.38
3	QPSK	1	8	16.23	16.37	16.33	23.17	23.30	23.36
3	QPSK	1	14	16.06	16.11	16.37	23.12	23.25	23.14
3	QPSK	8	0	16.47	16.44	16.42	22.24	22.30	22.38
3	QPSK	8	4	16.36	16.45	16.41	22.23	22.35	22.41
3	QPSK	8	7	16.32	16.37	16.39	22.18	22.27	22.26
3	QPSK	15	0	16.44	16.44	16.29	22.18	22.36	22.32
3	16QAM	1	0	16.70	16.76	16.77	22.32	22.46	22.45
3	16QAM	1	8	16.65	16.79	16.74	22.36	22.39	22.41
3	16QAM	1	14	16.56	16.51	16.68	22.38	22.34	22.38
3	16QAM	8	0	16.56	16.72	16.81	21.18	21.29	21.33
3	16QAM	8	4	16.59	16.65	16.68	21.18	21.33	21.36
3	16QAM	8	7	16.48	16.57	16.60	21.11	21.27	21.24
3	16QAM	15	0	16.54	16.62	16.49	21.11	21.21	21.28
3	64QAM	1	0	16.59	16.67	16.74	21.18	21.40	21.37
3	64QAM	1	8	16.58	16.64	16.77	21.27	21.46	21.44
3	64QAM	1	14	16.36	16.50	16.56	21.12	21.36	21.32
3	64QAM	8	0	16.62	16.67	16.81	20.13	20.27	20.31
3	64QAM	8	4	16.61	16.65	16.70	20.18	20.28	20.31
3	64QAM	8	7	16.60	16.60	16.68	20.32	20.43	20.44
3	64QAM	15	0	16.58	16.60	16.58	20.27	20.41	20.48
Channel				131979	132322	132665	26047	26340	26683
Frequency (MHz)				1710.7	1745	1779.3	1850.7	1880	1914.3
1.4	QPSK	1	0	16.25	16.42	16.36	23.13	23.21	23.31
1.4	QPSK	1	3	16.28	16.43	16.28	23.16	23.28	23.35
1.4	QPSK	1	5	16.09	16.09	16.32	23.10	23.22	23.12
1.4	QPSK	3	0	16.47	16.42	16.33	23.20	23.26	23.27
1.4	QPSK	3	1	16.44	16.45	16.46	23.16	23.29	23.12
1.4	QPSK	3	3	16.29	16.36	16.43	23.11	23.24	22.95
1.4	QPSK	6	0	16.40	16.49	16.33	22.14	22.26	22.19
1.4	16QAM	1	0	16.79	16.77	16.75	22.16	22.41	22.33
1.4	16QAM	1	3	16.59	16.83	16.78	22.32	22.46	22.38
1.4	16QAM	1	5	16.54	16.58	16.68	22.22	22.38	22.13
1.4	16QAM	3	0	16.55	16.69	16.80	22.03	22.15	22.18
1.4	16QAM	3	1	16.63	16.61	16.66	22.04	22.16	22.09
1.4	16QAM	3	3	16.53	16.51	16.63	21.97	22.07	22.06
1.4	16QAM	6	0	16.50	16.59	16.52	21.08	21.16	21.22



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1.4	64QAM	1	0	16.68	16.67	16.70	21.21	21.30	21.29
1.4	64QAM	1	3	16.57	16.64	16.80	21.28	21.40	21.43
1.4	64QAM	1	5	16.41	16.48	16.57	21.20	21.34	21.19
1.4	64QAM	3	0	16.59	16.76	16.84	21.10	21.28	21.32
1.4	64QAM	3	1	16.59	16.62	16.72	21.39	21.45	21.45
1.4	64QAM	3	3	16.59	16.60	16.64	21.30	21.42	21.46
1.4	64QAM	6	0	16.62	16.59	16.50	20.25	20.35	20.40

Power Selection				Hotspot					
Transmit Antenna				UAT			LAT		
Max. Power				20.5			23.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	19.40	19.55	19.54	22.49	22.63	22.62
20	QPSK	1	49	19.38	19.41	19.46	22.41	22.53	22.49
20	QPSK	1	99	19.25	19.23	19.38	22.26	22.26	22.42
20	QPSK	50	0	19.53	19.63	19.56	22.27	22.44	22.43
20	QPSK	50	24	19.59	19.60	19.57	22.27	22.31	22.35
20	QPSK	50	50	19.47	19.47	19.58	22.14	22.27	22.35
20	QPSK	100	0	19.55	19.58	19.56	22.29	22.49	22.34
20	16QAM	1	0	19.37	19.45	19.47	22.54	22.61	22.55
20	16QAM	1	49	19.33	19.32	19.40	22.43	22.57	22.60
20	16QAM	1	99	19.21	19.21	19.32	22.46	22.53	22.52
20	16QAM	50	0	19.44	19.61	19.48	21.35	21.47	21.54
20	16QAM	50	24	19.54	19.58	19.49	21.41	21.42	21.47
20	16QAM	50	50	19.46	19.38	19.48	21.26	21.31	21.42
20	16QAM	100	0	19.52	19.48	19.53	21.32	21.36	21.50
20	64QAM	1	0	19.37	19.46	19.47	21.50	21.47	21.71
20	64QAM	1	49	19.36	19.40	19.39	21.31	21.40	21.44
20	64QAM	1	99	19.16	19.18	19.33	21.36	21.42	21.45
20	64QAM	50	0	19.52	19.59	19.49	20.37	20.43	20.57
20	64QAM	50	24	19.57	19.57	19.53	20.38	20.38	20.43
20	64QAM	50	50	19.42	19.43	19.54	20.36	20.32	20.44
20	64QAM	100	0	19.51	19.51	19.56	20.38	20.45	20.56
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	19.40	19.49	19.50	22.49	22.58	22.61
15	QPSK	1	37	19.34	19.36	19.40	22.39	22.52	22.47
15	QPSK	1	74	19.22	19.22	19.31	22.22	22.17	22.41
15	QPSK	36	0	19.47	19.55	19.53	22.20	22.42	22.43
15	QPSK	36	20	19.54	19.56	19.57	22.24	22.23	22.28
15	QPSK	36	39	19.45	19.39	19.54	22.11	22.18	22.35
15	QPSK	75	0	19.52	19.50	19.47	22.24	22.40	22.31
15	16QAM	1	0	19.37	19.43	19.44	22.48	22.60	22.54
15	16QAM	1	37	19.28	19.29	19.30	22.41	22.47	22.52
15	16QAM	1	74	19.17	19.18	19.23	22.45	22.51	22.46
15	16QAM	36	0	19.44	19.54	19.40	21.34	21.40	21.45
15	16QAM	36	20	19.49	19.48	19.41	21.37	21.39	21.43
15	16QAM	36	39	19.42	19.28	19.45	21.20	21.25	21.41
15	16QAM	75	0	19.52	19.43	19.48	21.23	21.34	21.43
15	64QAM	1	0	19.28	19.44	19.41	21.44	21.45	21.69
15	64QAM	1	37	19.31	19.35	19.37	21.28	21.32	21.42
15	64QAM	1	74	19.12	19.17	19.32	21.33	21.35	21.38
15	64QAM	36	0	19.43	19.53	19.48	20.30	20.33	20.51
15	64QAM	36	20	19.47	19.49	19.45	20.34	20.29	20.36
15	64QAM	36	39	19.35	19.33	19.47	20.27	20.26	20.39
15	64QAM	75	0	19.46	19.50	19.50	20.33	20.37	20.56
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	19.39	19.54	19.53	22.42	22.58	22.61
10	QPSK	1	25	19.32	19.31	19.46	22.39	22.43	22.40
10	QPSK	1	49	19.19	19.18	19.34	22.16	22.21	22.40
10	QPSK	25	0	19.49	19.59	19.51	22.25	22.41	22.41
10	QPSK	25	12	19.53	19.59	19.51	22.24	22.23	22.25
10	QPSK	25	25	19.43	19.38	19.57	22.06	22.21	22.30
10	QPSK	50	0	19.50	19.58	19.56	22.20	22.45	22.29
10	16QAM	1	0	19.37	19.35	19.42	22.44	22.61	22.54



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10	16QAM	1	25	19.24	19.26	19.39	22.40	22.55	22.56
10	16QAM	1	49	19.19	19.17	19.24	22.38	22.44	22.49
10	16QAM	25	0	19.39	19.60	19.42	21.34	21.45	21.49
10	16QAM	25	12	19.47	19.58	19.49	21.37	21.36	21.42
10	16QAM	25	25	19.46	19.36	19.44	21.21	21.25	21.36
10	16QAM	50	0	19.52	19.39	19.52	21.26	21.30	21.42
10	64QAM	1	0	19.34	19.38	19.43	21.45	21.42	21.70
10	64QAM	1	25	19.34	19.31	19.37	21.22	21.38	21.35
10	64QAM	1	49	19.15	19.15	19.32	21.32	21.35	21.39
10	64QAM	25	0	19.46	19.58	19.39	20.36	20.37	20.48
10	64QAM	25	12	19.48	19.48	19.53	20.38	20.28	20.36
10	64QAM	25	25	19.36	19.37	19.46	20.27	20.26	20.40
10	64QAM	50	0	19.43	19.50	19.52	20.33	20.40	20.49
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	19.37	19.54	19.50	22.45	22.54	22.58
5	QPSK	1	12	19.28	19.32	19.45	22.31	22.52	22.42
5	QPSK	1	24	19.23	19.23	19.38	22.24	22.21	22.40
5	QPSK	12	0	19.50	19.58	19.54	22.21	22.44	22.42
5	QPSK	12	7	19.54	19.53	19.54	22.17	22.31	22.33
5	QPSK	12	13	19.38	19.45	19.49	22.08	22.21	22.35
5	QPSK	25	0	19.45	19.56	19.50	22.27	22.48	22.29
5	16QAM	1	0	19.36	19.38	19.37	22.46	22.59	22.46
5	16QAM	1	12	19.31	19.27	19.35	22.33	22.47	22.55
5	16QAM	1	24	19.13	19.17	19.29	22.45	22.47	22.52
5	16QAM	12	0	19.37	19.59	19.47	21.29	21.39	21.54
5	16QAM	12	7	19.45	19.51	19.42	21.34	21.35	21.41
5	16QAM	12	13	19.41	19.33	19.44	21.24	21.28	21.41
5	16QAM	25	0	19.46	19.46	19.43	21.30	21.29	21.40
5	64QAM	1	0	19.31	19.42	19.40	21.45	21.44	21.69
5	64QAM	1	12	19.35	19.38	19.32	21.23	21.39	21.44
5	64QAM	1	24	19.16	19.09	19.30	21.30	21.35	21.41
5	64QAM	12	0	19.47	19.49	19.41	20.28	20.43	20.57
5	64QAM	12	7	19.52	19.50	19.45	20.38	20.36	20.40
5	64QAM	12	13	19.37	19.39	19.50	20.33	20.23	20.41
5	64QAM	25	0	19.47	19.48	19.50	20.28	20.41	20.53
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	19.35	19.46	19.46	22.44	22.53	22.55
3	QPSK	1	8	19.34	19.39	19.41	22.35	22.49	22.41
3	QPSK	1	14	19.23	19.22	19.37	22.16	22.16	22.41
3	QPSK	8	0	19.52	19.58	19.51	22.18	22.37	22.42
3	QPSK	8	4	19.56	19.58	19.57	22.21	22.26	22.33
3	QPSK	8	7	19.39	19.42	19.52	22.06	22.22	22.32
3	QPSK	15	0	19.47	19.55	19.48	22.19	22.46	22.27
3	16QAM	1	0	19.29	19.42	19.38	22.53	22.57	22.53
3	16QAM	1	8	19.28	19.29	19.36	22.41	22.49	22.60
3	16QAM	1	14	19.20	19.18	19.31	22.46	22.51	22.44
3	16QAM	8	0	19.42	19.51	19.42	21.25	21.45	21.53
3	16QAM	8	4	19.49	19.55	19.49	21.36	21.33	21.46
3	16QAM	8	7	19.38	19.29	19.46	21.17	21.24	21.38
3	16QAM	15	0	19.44	19.42	19.49	21.22	21.27	21.44
3	64QAM	1	0	19.30	19.42	19.45	21.47	21.46	21.69
3	64QAM	1	8	19.31	19.38	19.34	21.23	21.36	21.41
3	64QAM	1	14	19.08	19.08	19.33	21.28	21.35	21.40
3	64QAM	8	0	19.46	19.57	19.43	20.30	20.34	20.49
3	64QAM	8	4	19.50	19.53	19.46	20.38	20.28	20.35
3	64QAM	8	7	19.38	19.41	19.44	20.28	20.32	20.36
3	64QAM	15	0	19.49	19.43	19.53	20.38	20.39	20.48
Channel				131979	132322	132665	26047	26340	26683
Frequency (MHz)				1710.7	1745	1779.3	1850.7	1880	1914.3
1.4	QPSK	1	0	19.30	19.52	19.54	22.42	22.54	22.52
1.4	QPSK	1	3	19.38	19.34	19.42	22.41	22.43	22.49
1.4	QPSK	1	5	19.22	19.13	19.35	22.19	22.23	22.33
1.4	QPSK	3	0	19.43	19.59	19.46	22.36	22.48	22.32
1.4	QPSK	3	1	19.50	19.54	19.50	22.33	22.49	22.46
1.4	QPSK	3	3	19.41	19.40	19.52	22.17	22.17	22.36
1.4	QPSK	6	0	19.50	19.48	19.46	22.07	22.18	22.11
1.4	16QAM	1	0	19.27	19.41	19.42	22.32	22.58	22.43
1.4	16QAM	1	3	19.28	19.30	19.36	22.48	22.56	22.50



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1.4	16QAM	1	5	19.20	19.19	19.27	22.32	22.51	22.31
1.4	16QAM	3	0	19.39	19.53	19.45	22.17	22.32	22.33
1.4	16QAM	3	1	19.50	19.48	19.41	22.19	22.32	22.26
1.4	16QAM	3	3	19.39	19.33	19.39	22.11	22.25	22.22
1.4	16QAM	6	0	19.44	19.46	19.52	21.22	21.26	21.35
1.4	64QAM	1	0	19.32	19.42	19.42	21.33	21.49	21.49
1.4	64QAM	1	3	19.30	19.39	19.35	21.47	21.59	21.60
1.4	64QAM	1	5	19.07	19.11	19.28	21.38	21.46	21.36
1.4	64QAM	3	0	19.49	19.55	19.45	21.28	21.43	21.45
1.4	64QAM	3	1	19.55	19.50	19.47	21.32	21.37	21.41
1.4	64QAM	3	3	19.33	19.43	19.54	21.27	21.39	21.38
1.4	64QAM	6	0	19.41	19.42	19.50	20.15	20.28	20.30

Power Selection				Body-worn					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	23.45	23.50	23.49	23.45	23.50	23.49
20	QPSK	1	49	23.15	23.28	23.37	23.15	23.28	23.37
20	QPSK	1	99	23.17	23.19	23.35	23.17	23.19	23.35
20	QPSK	50	0	22.33	22.49	22.44	22.33	22.49	22.44
20	QPSK	50	24	22.32	22.35	22.45	22.32	22.35	22.45
20	QPSK	50	50	22.24	22.31	22.35	22.24	22.31	22.35
20	QPSK	100	0	22.32	22.49	22.34	22.32	22.49	22.34
20	16QAM	1	0	22.48	22.48	22.44	22.48	22.48	22.44
20	16QAM	1	49	22.48	22.48	22.45	22.48	22.48	22.45
20	16QAM	1	99	22.46	22.48	22.48	22.46	22.48	22.48
20	16QAM	50	0	21.41	21.48	21.48	21.41	21.48	21.48
20	16QAM	50	24	21.46	21.44	21.48	21.46	21.44	21.48
20	16QAM	50	50	21.36	21.38	21.50	21.36	21.38	21.50
20	16QAM	100	0	21.41	21.44	21.50	21.41	21.44	21.50
20	64QAM	1	0	21.50	21.50	21.49	21.50	21.50	21.49
20	64QAM	1	49	21.35	21.48	21.50	21.35	21.48	21.50
20	64QAM	1	99	21.38	21.44	21.49	21.38	21.44	21.49
20	64QAM	50	0	20.37	20.49	20.45	20.37	20.49	20.45
20	64QAM	50	24	20.43	20.43	20.44	20.43	20.43	20.44
20	64QAM	50	50	20.39	20.41	20.44	20.39	20.41	20.44
20	64QAM	100	0	20.42	20.46	20.48	20.42	20.46	20.48
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	23.36	23.36	23.49	23.36	23.36	23.49
15	QPSK	1	37	23.16	23.34	23.04	23.16	23.34	23.04
15	QPSK	1	74	23.23	23.29	23.17	23.23	23.29	23.17
15	QPSK	36	0	22.10	22.22	22.31	22.10	22.22	22.31
15	QPSK	36	20	22.06	22.20	22.08	22.06	22.20	22.08
15	QPSK	36	39	22.08	22.13	22.17	22.08	22.13	22.17
15	QPSK	75	0	22.11	22.15	22.25	22.11	22.15	22.25
15	16QAM	1	0	22.39	22.49	22.48	22.39	22.49	22.48
15	16QAM	1	37	22.29	22.40	22.09	22.29	22.40	22.09
15	16QAM	1	74	22.40	22.42	22.26	22.40	22.42	22.26
15	16QAM	36	0	21.13	21.28	21.40	21.13	21.28	21.40
15	16QAM	36	20	21.12	21.23	21.21	21.12	21.23	21.21
15	16QAM	36	39	21.18	21.20	21.25	21.18	21.20	21.25
15	16QAM	75	0	21.20	21.24	21.37	21.20	21.24	21.37
15	64QAM	1	0	21.45	21.44	21.40	21.45	21.44	21.40
15	64QAM	1	37	21.09	21.36	21.19	21.09	21.36	21.19
15	64QAM	1	74	21.33	21.31	21.29	21.33	21.31	21.29
15	64QAM	36	0	20.19	20.31	20.46	20.19	20.31	20.46
15	64QAM	36	20	20.15	20.33	20.22	20.15	20.33	20.22
15	64QAM	36	39	20.22	20.25	20.33	20.22	20.25	20.33
15	64QAM	75	0	20.25	20.24	20.33	20.25	20.24	20.33
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	23.27	23.32	23.27	23.27	23.32	23.27
10	QPSK	1	25	23.18	23.29	22.96	23.18	23.29	22.96
10	QPSK	1	49	23.12	23.29	22.98	23.12	23.29	22.98



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10	QPSK	25	0	22.25	22.35	22.05	22.25	22.35	22.05
10	QPSK	25	12	22.24	22.39	22.13	22.24	22.39	22.13
10	QPSK	25	25	22.21	22.31	22.16	22.21	22.31	22.16
10	QPSK	50	0	22.22	22.37	22.09	22.22	22.37	22.09
10	16QAM	1	0	22.47	22.42	22.36	22.47	22.42	22.36
10	16QAM	1	25	22.31	22.37	22.25	22.31	22.37	22.25
10	16QAM	1	49	22.17	22.32	22.23	22.17	22.32	22.23
10	16QAM	25	0	21.15	21.27	21.12	21.15	21.27	21.12
10	16QAM	25	12	21.15	21.31	21.30	21.15	21.31	21.30
10	16QAM	25	25	21.07	21.22	21.27	21.07	21.22	21.27
10	16QAM	50	0	21.12	21.23	21.21	21.12	21.23	21.21
10	64QAM	1	0	21.29	21.34	21.46	21.29	21.34	21.46
10	64QAM	1	25	21.18	21.26	21.40	21.18	21.26	21.40
10	64QAM	1	49	21.21	21.24	21.33	21.21	21.24	21.33
10	64QAM	25	0	20.16	20.27	20.25	20.16	20.27	20.25
10	64QAM	25	12	20.11	20.25	20.21	20.11	20.25	20.21
10	64QAM	25	25	20.05	20.22	20.34	20.05	20.22	20.34
10	64QAM	50	0	20.12	20.33	20.22	20.12	20.33	20.22
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	23.24	23.32	23.27	23.24	23.32	23.27
5	QPSK	1	12	23.24	23.32	23.40	23.24	23.32	23.40
5	QPSK	1	24	23.19	23.29	23.23	23.19	23.29	23.23
5	QPSK	12	0	22.22	22.37	22.41	22.22	22.37	22.41
5	QPSK	12	7	22.24	22.33	22.41	22.24	22.33	22.41
5	QPSK	12	13	22.21	22.35	22.38	22.21	22.35	22.38
5	QPSK	25	0	22.16	22.36	22.35	22.16	22.36	22.35
5	16QAM	1	0	22.33	22.49	22.48	22.53	22.69	22.71
5	16QAM	1	12	22.35	22.44	22.36	22.55	22.64	22.56
5	16QAM	1	24	22.23	22.39	22.31	22.43	22.59	22.51
5	16QAM	12	0	21.11	21.26	21.30	21.31	21.46	21.50
5	16QAM	12	7	21.09	21.28	21.28	21.29	21.48	21.48
5	16QAM	12	13	21.09	21.17	21.25	21.29	21.37	21.45
5	16QAM	25	0	21.08	21.21	21.25	21.28	21.41	21.45
5	64QAM	1	0	21.27	21.35	21.45	21.47	21.55	21.65
5	64QAM	1	12	21.22	21.39	21.40	21.42	21.59	21.60
5	64QAM	1	24	21.11	21.33	21.37	21.31	21.53	21.57
5	64QAM	12	0	20.16	20.28	20.35	20.36	20.48	20.55
5	64QAM	12	7	20.13	20.28	20.35	20.33	20.48	20.55
5	64QAM	12	13	20.16	20.25	20.31	20.36	20.45	20.51
5	64QAM	25	0	20.10	20.21	20.28	20.30	20.41	20.48
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	23.24	23.31	23.38	23.24	23.31	23.38
3	QPSK	1	8	23.17	23.30	23.36	23.17	23.30	23.36
3	QPSK	1	14	23.12	23.25	23.14	23.12	23.25	23.14
3	QPSK	8	0	22.24	22.30	22.38	22.24	22.30	22.38
3	QPSK	8	4	22.23	22.35	22.41	22.23	22.35	22.41
3	QPSK	8	7	22.18	22.27	22.26	22.18	22.27	22.26
3	QPSK	15	0	22.18	22.36	22.32	22.18	22.36	22.32
3	16QAM	1	0	22.32	22.46	22.45	22.32	22.46	22.45
3	16QAM	1	8	22.36	22.39	22.41	22.36	22.39	22.41
3	16QAM	1	14	22.38	22.34	22.38	22.38	22.34	22.38
3	16QAM	8	0	21.18	21.29	21.33	21.18	21.29	21.33
3	16QAM	8	4	21.18	21.33	21.36	21.18	21.33	21.36
3	16QAM	8	7	21.11	21.27	21.24	21.11	21.27	21.24
3	16QAM	15	0	21.11	21.21	21.28	21.11	21.21	21.28
3	64QAM	1	0	21.18	21.40	21.37	21.18	21.40	21.37
3	64QAM	1	8	21.27	21.46	21.44	21.27	21.46	21.44
3	64QAM	1	14	21.12	21.36	21.32	21.12	21.36	21.32
3	64QAM	8	0	20.13	20.27	20.31	20.13	20.27	20.31
3	64QAM	8	4	20.18	20.28	20.31	20.18	20.28	20.31
3	64QAM	8	7	20.32	20.43	20.44	20.32	20.43	20.44
3	64QAM	15	0	20.27	20.41	20.48	20.27	20.41	20.48
Channel				131979	132322	132665	26047	26340	26683
Frequency (MHz)				1710.7	1745	1779.3	1850.7	1880	1914.3
1.4	QPSK	1	0	23.13	23.21	23.31	23.13	23.21	23.31
1.4	QPSK	1	3	23.16	23.28	23.35	23.16	23.28	23.35
1.4	QPSK	1	5	23.10	23.22	23.12	23.10	23.22	23.12
1.4	QPSK	3	0	23.20	23.26	23.27	23.20	23.26	23.27

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1.4	QPSK	3	1	23.16	23.29	23.12	23.16	23.29	23.12
1.4	QPSK	3	3	23.11	23.24	22.95	23.11	23.24	22.95
1.4	QPSK	6	0	22.14	22.26	22.19	22.14	22.26	22.19
1.4	16QAM	1	0	22.16	22.41	22.33	22.16	22.41	22.33
1.4	16QAM	1	3	22.32	22.46	22.38	22.32	22.46	22.38
1.4	16QAM	1	5	22.22	22.38	22.13	22.22	22.38	22.13
1.4	16QAM	3	0	22.03	22.15	22.18	22.03	22.15	22.18
1.4	16QAM	3	1	22.04	22.16	22.09	22.04	22.16	22.09
1.4	16QAM	3	3	21.97	22.07	22.06	21.97	22.07	22.06
1.4	16QAM	6	0	21.08	21.16	21.22	21.08	21.16	21.22
1.4	64QAM	1	0	21.21	21.30	21.29	21.21	21.30	21.29
1.4	64QAM	1	3	21.28	21.40	21.43	21.28	21.40	21.43
1.4	64QAM	1	5	21.20	21.34	21.19	21.20	21.34	21.19
1.4	64QAM	3	0	21.10	21.28	21.32	21.10	21.28	21.32
1.4	64QAM	3	1	21.39	21.45	21.45	21.39	21.45	21.45
1.4	64QAM	3	3	21.30	21.42	21.46	21.30	21.42	21.46
1.4	64QAM	6	0	20.25	20.35	20.40	20.25	20.35	20.40

**<Wifi on>**

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				17.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	16.32	16.51	16.41	23.45	23.50	23.49
20	QPSK	1	49	16.29	16.44	16.38	23.15	23.28	23.37
20	QPSK	1	99	16.10	16.15	16.37	23.17	23.19	23.35
20	QPSK	50	0	16.47	16.50	16.42	22.33	22.49	22.44
20	QPSK	50	24	16.46	16.45	16.46	22.32	22.35	22.45
20	QPSK	50	50	16.36	16.43	16.48	22.24	22.31	22.35
20	QPSK	100	0	16.45	16.50	16.38	22.32	22.49	22.34
20	16QAM	1	0	16.80	16.83	16.83	22.48	22.48	22.44
20	16QAM	1	49	16.67	16.86	16.78	22.48	22.48	22.45
20	16QAM	1	99	16.56	16.59	16.71	22.46	22.48	22.48
20	16QAM	50	0	16.65	16.72	16.85	21.41	21.48	21.48
20	16QAM	50	24	16.67	16.67	16.73	21.46	21.44	21.48
20	16QAM	50	50	16.58	16.60	16.64	21.36	21.38	21.50
20	16QAM	100	0	16.60	16.65	16.77	21.41	21.44	21.50
20	64QAM	1	0	16.68	16.75	16.79	21.50	21.50	21.49
20	64QAM	1	49	16.64	16.73	16.80	21.35	21.48	21.50
20	64QAM	1	99	16.46	16.54	16.59	21.38	21.44	21.49
20	64QAM	50	0	16.64	16.76	16.85	20.37	20.49	20.45
20	64QAM	50	24	16.69	16.69	16.72	20.43	20.43	20.44
20	64QAM	50	50	16.61	16.60	16.68	20.39	20.41	20.44
20	64QAM	100	0	16.67	16.68	16.79	20.42	20.46	20.48
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	16.28	16.43	16.35	23.36	23.36	23.49
15	QPSK	1	37	16.26	16.40	16.30	23.16	23.34	23.04
15	QPSK	1	74	16.02	16.08	16.35	23.23	23.29	23.17
15	QPSK	36	0	16.44	16.48	16.36	22.10	22.22	22.31
15	QPSK	36	20	16.42	16.44	16.42	22.06	22.20	22.08
15	QPSK	36	39	16.28	16.34	16.41	22.08	22.13	22.17
15	QPSK	75	0	16.45	16.41	16.29	22.11	22.15	22.25
15	16QAM	1	0	16.72	16.80	16.81	22.39	22.49	22.48
15	16QAM	1	37	16.66	16.77	16.69	22.29	22.40	22.09
15	16QAM	1	74	16.48	16.54	16.55	22.40	22.42	22.26
15	16QAM	36	0	16.65	16.63	16.79	21.13	21.28	21.40
15	16QAM	36	20	16.57	16.65	16.68	21.12	21.23	21.21
15	16QAM	36	39	16.49	16.59	16.60	21.18	21.20	21.25
15	16QAM	75	0	16.50	16.59	16.58	21.20	21.24	21.37
15	64QAM	1	0	16.59	16.69	16.79	21.45	21.44	21.40
15	64QAM	1	37	16.58	16.68	16.72	21.09	21.36	21.19
15	64QAM	1	74	16.45	16.53	16.49	21.33	21.31	21.29
15	64QAM	36	0	16.58	16.69	16.80	20.19	20.31	20.46
15	64QAM	36	20	16.62	16.66	16.72	20.15	20.33	20.22
15	64QAM	36	39	16.61	16.54	16.58	20.22	20.25	20.33
15	64QAM	75	0	16.61	16.59	16.54	20.25	20.24	20.33
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	16.25	16.47	16.38	23.27	23.32	23.27
10	QPSK	1	25	16.20	16.38	16.32	23.18	23.29	22.96
10	QPSK	1	49	16.09	16.12	16.37	23.12	23.29	22.98
10	QPSK	25	0	16.46	16.46	16.37	22.25	22.35	22.05
10	QPSK	25	12	16.45	16.40	16.38	22.24	22.39	22.13
10	QPSK	25	25	16.31	16.38	16.40	22.21	22.31	22.16
10	QPSK	50	0	16.44	16.40	16.31	22.22	22.37	22.09
10	16QAM	1	0	16.75	16.82	16.73	22.47	22.42	22.36
10	16QAM	1	25	16.61	16.82	16.78	22.31	22.37	22.25
10	16QAM	1	49	16.53	16.52	16.64	22.17	22.32	22.23
10	16QAM	25	0	16.55	16.70	16.83	21.15	21.27	21.12
10	16QAM	25	12	16.58	16.64	16.66	21.15	21.31	21.30
10	16QAM	25	25	16.53	16.54	16.55	21.07	21.22	21.27
10	16QAM	50	0	16.57	16.61	16.65	21.12	21.23	21.21
10	64QAM	1	0	16.64	16.73	16.75	21.29	21.34	21.46



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10	64QAM	1	25	16.60	16.71	16.74	21.18	21.26	21.40
10	64QAM	1	49	16.37	16.48	16.52	21.21	21.24	21.33
10	64QAM	25	0	16.56	16.67	16.83	20.16	20.27	20.25
10	64QAM	25	12	16.62	16.69	16.69	20.11	20.25	20.21
10	64QAM	25	25	16.52	16.59	16.63	20.05	20.22	20.34
10	64QAM	50	0	16.63	16.65	16.61	20.12	20.33	20.22
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	16.30	16.43	16.35	23.24	23.32	23.27
5	QPSK	1	12	16.26	16.36	16.33	23.24	23.32	23.40
5	QPSK	1	24	16.05	16.07	16.32	23.19	23.29	23.23
5	QPSK	12	0	16.38	16.50	16.42	22.22	22.37	22.41
5	QPSK	12	7	16.46	16.42	16.38	22.24	22.33	22.41
5	QPSK	12	13	16.32	16.41	16.44	22.21	22.35	22.38
5	QPSK	25	0	16.37	16.46	16.37	22.16	22.36	22.35
5	16QAM	1	0	16.78	16.73	16.83	22.53	22.69	22.71
5	16QAM	1	12	16.67	16.83	16.75	22.55	22.64	22.56
5	16QAM	1	24	16.54	16.50	16.66	22.43	22.59	22.51
5	16QAM	12	0	16.63	16.72	16.84	21.31	21.46	21.50
5	16QAM	12	7	16.62	16.65	16.72	21.29	21.48	21.48
5	16QAM	12	13	16.50	16.57	16.62	21.29	21.37	21.45
5	16QAM	25	0	16.58	16.57	16.50	21.28	21.41	21.45
5	64QAM	1	0	16.66	16.65	16.76	21.47	21.55	21.65
5	64QAM	1	12	16.59	16.72	16.78	21.42	21.59	21.60
5	64QAM	1	24	16.44	16.51	16.50	21.31	21.53	21.57
5	64QAM	12	0	16.63	16.66	16.83	20.36	20.48	20.55
5	64QAM	12	7	16.61	16.68	16.65	20.33	20.48	20.55
5	64QAM	12	13	16.55	16.56	16.67	20.36	20.45	20.51
5	64QAM	25	0	16.65	16.59	16.53	20.30	20.41	20.48
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	16.24	16.41	16.31	23.24	23.31	23.38
3	QPSK	1	8	16.23	16.37	16.33	23.17	23.30	23.36
3	QPSK	1	14	16.06	16.11	16.37	23.12	23.25	23.14
3	QPSK	8	0	16.47	16.44	16.42	22.24	22.30	22.38
3	QPSK	8	4	16.36	16.45	16.41	22.23	22.35	22.41
3	QPSK	8	7	16.32	16.37	16.39	22.18	22.27	22.26
3	QPSK	15	0	16.44	16.44	16.29	22.18	22.36	22.32
3	16QAM	1	0	16.70	16.76	16.77	22.32	22.46	22.45
3	16QAM	1	8	16.65	16.79	16.74	22.36	22.39	22.41
3	16QAM	1	14	16.56	16.51	16.68	22.38	22.34	22.38
3	16QAM	8	0	16.56	16.72	16.81	21.18	21.29	21.33
3	16QAM	8	4	16.59	16.65	16.68	21.18	21.33	21.36
3	16QAM	8	7	16.48	16.57	16.60	21.11	21.27	21.24
3	16QAM	15	0	16.54	16.62	16.49	21.11	21.21	21.28
3	64QAM	1	0	16.59	16.67	16.74	21.18	21.40	21.37
3	64QAM	1	8	16.58	16.64	16.77	21.27	21.46	21.44
3	64QAM	1	14	16.36	16.50	16.56	21.12	21.36	21.32
3	64QAM	8	0	16.62	16.67	16.81	20.13	20.27	20.31
3	64QAM	8	4	16.61	16.65	16.70	20.18	20.28	20.31
3	64QAM	8	7	16.60	16.60	16.68	20.32	20.43	20.44
3	64QAM	15	0	16.58	16.60	16.58	20.27	20.41	20.48
Channel				131979	132322	132665	26047	26340	26683
Frequency (MHz)				1710.7	1745	1779.3	1850.7	1880	1914.3
1.4	QPSK	1	0	16.25	16.42	16.36	23.13	23.21	23.31
1.4	QPSK	1	3	16.28	16.43	16.28	23.16	23.28	23.35
1.4	QPSK	1	5	16.09	16.09	16.32	23.10	23.22	23.12
1.4	QPSK	3	0	16.47	16.42	16.33	23.20	23.26	23.27
1.4	QPSK	3	1	16.44	16.45	16.46	23.16	23.29	23.12
1.4	QPSK	3	3	16.29	16.36	16.43	23.11	23.24	22.95
1.4	QPSK	6	0	16.40	16.49	16.33	22.14	22.26	22.19
1.4	16QAM	1	0	16.79	16.77	16.75	22.16	22.41	22.33
1.4	16QAM	1	3	16.59	16.83	16.78	22.32	22.46	22.38
1.4	16QAM	1	5	16.54	16.58	16.68	22.22	22.38	22.13
1.4	16QAM	3	0	16.55	16.69	16.80	22.03	22.15	22.18
1.4	16QAM	3	1	16.63	16.61	16.66	22.04	22.16	22.09
1.4	16QAM	3	3	16.53	16.51	16.63	21.97	22.07	22.06
1.4	16QAM	6	0	16.50	16.59	16.52	21.08	21.16	21.22
1.4	64QAM	1	0	16.68	16.67	16.70	21.21	21.30	21.29
1.4	64QAM	1	3	16.57	16.64	16.80	21.28	21.40	21.43



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1.4	64QAM	1	5	16.41	16.48	16.57	21.20	21.34	21.19
1.4	64QAM	3	0	16.59	16.76	16.84	21.10	21.28	21.32
1.4	64QAM	3	1	16.59	16.62	16.72	21.39	21.45	21.45
1.4	64QAM	3	3	16.59	16.60	16.64	21.30	21.42	21.46
1.4	64QAM	6	0	16.62	16.59	16.50	20.25	20.35	20.40

Power Selection				Hotspot					
Transmit Antenna				UAT			LAT		
Max. Power				20.0			23.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	19.40	19.55	19.54	22.49	22.63	22.62
20	QPSK	1	49	19.38	19.41	19.46	22.41	22.53	22.49
20	QPSK	1	99	19.25	19.23	19.38	22.26	22.26	22.42
20	QPSK	50	0	19.53	19.63	19.56	22.27	22.44	22.43
20	QPSK	50	24	19.59	19.60	19.57	22.27	22.31	22.35
20	QPSK	50	50	19.47	19.47	19.58	22.14	22.27	22.35
20	QPSK	100	0	19.55	19.58	19.56	22.29	22.49	22.34
20	16QAM	1	0	19.37	19.45	19.47	22.54	22.61	22.55
20	16QAM	1	49	19.33	19.32	19.40	22.43	22.57	22.60
20	16QAM	1	99	19.21	19.21	19.32	22.46	22.53	22.52
20	16QAM	50	0	19.44	19.61	19.48	21.35	21.47	21.54
20	16QAM	50	24	19.54	19.58	19.49	21.41	21.42	21.47
20	16QAM	50	50	19.46	19.38	19.48	21.26	21.31	21.42
20	16QAM	100	0	19.52	19.48	19.53	21.32	21.36	21.50
20	64QAM	1	0	19.37	19.46	19.47	21.50	21.47	21.71
20	64QAM	1	49	19.36	19.40	19.39	21.31	21.40	21.44
20	64QAM	1	99	19.16	19.18	19.33	21.36	21.42	21.45
20	64QAM	50	0	19.52	19.59	19.49	20.37	20.43	20.57
20	64QAM	50	24	19.57	19.57	19.53	20.38	20.38	20.43
20	64QAM	50	50	19.42	19.43	19.54	20.36	20.32	20.44
20	64QAM	100	0	19.51	19.51	19.56	20.38	20.45	20.56
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	19.40	19.49	19.50	22.49	22.58	22.61
15	QPSK	1	37	19.34	19.36	19.40	22.39	22.52	22.47
15	QPSK	1	74	19.22	19.22	19.31	22.22	22.17	22.41
15	QPSK	36	0	19.47	19.55	19.53	22.20	22.42	22.43
15	QPSK	36	20	19.54	19.56	19.57	22.24	22.23	22.28
15	QPSK	36	39	19.45	19.39	19.54	22.11	22.18	22.35
15	QPSK	75	0	19.52	19.50	19.47	22.24	22.40	22.31
15	16QAM	1	0	19.37	19.43	19.44	22.48	22.60	22.54
15	16QAM	1	37	19.28	19.29	19.30	22.41	22.47	22.52
15	16QAM	1	74	19.17	19.18	19.23	22.45	22.51	22.46
15	16QAM	36	0	19.44	19.54	19.40	21.34	21.40	21.45
15	16QAM	36	20	19.49	19.48	19.41	21.37	21.39	21.43
15	16QAM	36	39	19.42	19.28	19.45	21.20	21.25	21.41
15	16QAM	75	0	19.52	19.43	19.48	21.23	21.34	21.43
15	64QAM	1	0	19.28	19.44	19.41	21.44	21.45	21.69
15	64QAM	1	37	19.31	19.35	19.37	21.28	21.32	21.42
15	64QAM	1	74	19.12	19.17	19.32	21.33	21.35	21.38
15	64QAM	36	0	19.43	19.53	19.48	20.30	20.33	20.51
15	64QAM	36	20	19.47	19.49	19.45	20.34	20.29	20.36
15	64QAM	36	39	19.35	19.33	19.47	20.27	20.26	20.39
15	64QAM	75	0	19.46	19.50	19.50	20.33	20.37	20.56
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	19.39	19.54	19.53	22.42	22.58	22.61
10	QPSK	1	25	19.32	19.31	19.46	22.39	22.43	22.40
10	QPSK	1	49	19.19	19.18	19.34	22.16	22.21	22.40
10	QPSK	25	0	19.49	19.59	19.51	22.25	22.41	22.41
10	QPSK	25	12	19.53	19.59	19.51	22.24	22.23	22.25
10	QPSK	25	25	19.43	19.38	19.57	22.06	22.21	22.30
10	QPSK	50	0	19.50	19.58	19.56	22.20	22.45	22.29
10	16QAM	1	0	19.37	19.35	19.42	22.44	22.61	22.54
10	16QAM	1	25	19.24	19.26	19.39	22.40	22.55	22.56
10	16QAM	1	49	19.19	19.17	19.24	22.38	22.44	22.49



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10	16QAM	25	0	19.39	19.60	19.42	21.34	21.45	21.49
10	16QAM	25	12	19.47	19.58	19.49	21.37	21.36	21.42
10	16QAM	25	25	19.46	19.36	19.44	21.21	21.25	21.36
10	16QAM	50	0	19.52	19.39	19.52	21.26	21.30	21.42
10	64QAM	1	0	19.34	19.38	19.43	21.45	21.42	21.70
10	64QAM	1	25	19.34	19.31	19.37	21.22	21.38	21.35
10	64QAM	1	49	19.15	19.15	19.32	21.32	21.35	21.39
10	64QAM	25	0	19.46	19.58	19.39	20.36	20.37	20.48
10	64QAM	25	12	19.48	19.48	19.53	20.38	20.28	20.36
10	64QAM	25	25	19.36	19.37	19.46	20.27	20.26	20.40
10	64QAM	50	0	19.43	19.50	19.52	20.33	20.40	20.49
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	19.37	19.54	19.50	22.45	22.54	22.58
5	QPSK	1	12	19.28	19.32	19.45	22.31	22.52	22.42
5	QPSK	1	24	19.23	19.23	19.38	22.24	22.21	22.40
5	QPSK	12	0	19.50	19.58	19.54	22.21	22.44	22.42
5	QPSK	12	7	19.54	19.53	19.54	22.17	22.31	22.33
5	QPSK	12	13	19.38	19.45	19.49	22.08	22.21	22.35
5	QPSK	25	0	19.45	19.56	19.50	22.27	22.48	22.29
5	16QAM	1	0	19.36	19.38	19.37	22.46	22.59	22.46
5	16QAM	1	12	19.31	19.27	19.35	22.33	22.47	22.55
5	16QAM	1	24	19.13	19.17	19.29	22.45	22.47	22.52
5	16QAM	12	0	19.37	19.59	19.47	21.29	21.39	21.54
5	16QAM	12	7	19.45	19.51	19.42	21.34	21.35	21.41
5	16QAM	12	13	19.41	19.33	19.44	21.24	21.28	21.41
5	16QAM	25	0	19.46	19.46	19.43	21.30	21.29	21.40
5	64QAM	1	0	19.31	19.42	19.40	21.45	21.44	21.69
5	64QAM	1	12	19.35	19.38	19.32	21.23	21.39	21.44
5	64QAM	1	24	19.16	19.09	19.30	21.30	21.35	21.41
5	64QAM	12	0	19.47	19.49	19.41	20.28	20.43	20.57
5	64QAM	12	7	19.52	19.50	19.45	20.38	20.36	20.40
5	64QAM	12	13	19.37	19.39	19.50	20.33	20.23	20.41
5	64QAM	25	0	19.47	19.48	19.50	20.28	20.41	20.53
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	19.35	19.46	19.46	22.44	22.53	22.55
3	QPSK	1	8	19.34	19.39	19.41	22.35	22.49	22.41
3	QPSK	1	14	19.23	19.22	19.37	22.16	22.16	22.41
3	QPSK	8	0	19.52	19.58	19.51	22.18	22.37	22.42
3	QPSK	8	4	19.56	19.58	19.57	22.21	22.26	22.33
3	QPSK	8	7	19.39	19.42	19.52	22.06	22.22	22.32
3	QPSK	15	0	19.47	19.55	19.48	22.19	22.46	22.27
3	16QAM	1	0	19.29	19.42	19.38	22.53	22.57	22.53
3	16QAM	1	8	19.28	19.29	19.36	22.41	22.49	22.60
3	16QAM	1	14	19.20	19.18	19.31	22.46	22.51	22.44
3	16QAM	8	0	19.42	19.51	19.42	21.25	21.45	21.53
3	16QAM	8	4	19.49	19.55	19.49	21.36	21.33	21.46
3	16QAM	8	7	19.38	19.29	19.46	21.17	21.24	21.38
3	16QAM	15	0	19.44	19.42	19.49	21.22	21.27	21.44
3	64QAM	1	0	19.30	19.42	19.45	21.47	21.46	21.69
3	64QAM	1	8	19.31	19.38	19.34	21.23	21.36	21.41
3	64QAM	1	14	19.08	19.08	19.33	21.28	21.35	21.40
3	64QAM	8	0	19.46	19.57	19.43	20.30	20.34	20.49
3	64QAM	8	4	19.50	19.53	19.46	20.38	20.28	20.35
3	64QAM	8	7	19.38	19.41	19.44	20.28	20.32	20.36
3	64QAM	15	0	19.49	19.43	19.53	20.38	20.39	20.48
Channel				131979	132322	132665	26047	26340	26683
Frequency (MHz)				1710.7	1745	1779.3	1850.7	1880	1914.3
1.4	QPSK	1	0	19.30	19.52	19.54	22.42	22.54	22.52
1.4	QPSK	1	3	19.38	19.34	19.42	22.41	22.43	22.49
1.4	QPSK	1	5	19.22	19.13	19.35	22.19	22.23	22.33
1.4	QPSK	3	0	19.43	19.59	19.46	22.36	22.48	22.32
1.4	QPSK	3	1	19.50	19.54	19.50	22.33	22.49	22.46
1.4	QPSK	3	3	19.41	19.40	19.52	22.17	22.17	22.36
1.4	QPSK	6	0	19.50	19.48	19.46	22.07	22.18	22.11
1.4	16QAM	1	0	19.27	19.41	19.42	22.32	22.58	22.43
1.4	16QAM	1	3	19.28	19.30	19.36	22.48	22.56	22.50
1.4	16QAM	1	5	19.20	19.19	19.27	22.32	22.51	22.31
1.4	16QAM	3	0	19.39	19.53	19.45	22.17	22.32	22.33



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1.4	16QAM	3	1	19.50	19.48	19.41	22.19	22.32	22.26
1.4	16QAM	3	3	19.39	19.33	19.39	22.11	22.25	22.22
1.4	16QAM	6	0	19.44	19.46	19.52	21.22	21.26	21.35
1.4	64QAM	1	0	19.32	19.42	19.42	21.33	21.49	21.49
1.4	64QAM	1	3	19.30	19.39	19.35	21.47	21.59	21.60
1.4	64QAM	1	5	19.07	19.11	19.28	21.38	21.46	21.36
1.4	64QAM	3	0	19.49	19.55	19.45	21.28	21.43	21.45
1.4	64QAM	3	1	19.55	19.50	19.47	21.32	21.37	21.41
1.4	64QAM	3	3	19.33	19.43	19.54	21.27	21.39	21.38
1.4	64QAM	6	0	19.41	19.42	19.50	20.15	20.28	20.30

Power Selection				Body-worn					
Transmit Antenna				UAT			LAT		
Max. Power				23.5			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	23.50	23.50	23.49	23.50	23.50	23.49
20	QPSK	1	49	23.15	23.28	23.37	23.15	23.28	23.37
20	QPSK	1	99	23.17	23.19	23.35	23.17	23.19	23.35
20	QPSK	50	0	22.33	22.49	22.44	22.33	22.49	22.44
20	QPSK	50	24	22.32	22.35	22.45	22.32	22.35	22.45
20	QPSK	50	50	22.24	22.31	22.35	22.24	22.31	22.35
20	QPSK	100	0	22.32	22.49	22.34	22.32	22.49	22.34
20	16QAM	1	0	22.48	22.48	22.44	22.48	22.48	22.44
20	16QAM	1	49	22.48	22.48	22.45	22.48	22.48	22.45
20	16QAM	1	99	22.46	22.48	22.48	22.46	22.48	22.48
20	16QAM	50	0	21.41	21.48	21.48	21.41	21.48	21.48
20	16QAM	50	24	21.46	21.44	21.48	21.46	21.44	21.48
20	16QAM	50	50	21.36	21.38	21.50	21.36	21.38	21.50
20	16QAM	100	0	21.41	21.44	21.50	21.41	21.44	21.50
20	64QAM	1	0	21.50	21.50	21.49	21.50	21.50	21.49
20	64QAM	1	49	21.35	21.48	21.50	21.35	21.48	21.50
20	64QAM	1	99	21.38	21.44	21.49	21.38	21.44	21.49
20	64QAM	50	0	20.37	20.49	20.45	20.37	20.49	20.45
20	64QAM	50	24	20.43	20.43	20.44	20.43	20.43	20.44
20	64QAM	50	50	20.39	20.41	20.44	20.39	20.41	20.44
20	64QAM	100	0	20.42	20.46	20.48	20.42	20.46	20.48
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	23.36	23.36	23.49	23.36	23.36	23.49
15	QPSK	1	37	23.16	23.34	23.04	23.16	23.34	23.04
15	QPSK	1	74	23.23	23.29	23.17	23.23	23.29	23.17
15	QPSK	36	0	22.10	22.22	22.31	22.10	22.22	22.31
15	QPSK	36	20	22.06	22.20	22.08	22.06	22.20	22.08
15	QPSK	36	39	22.08	22.13	22.17	22.08	22.13	22.17
15	QPSK	75	0	22.11	22.15	22.25	22.11	22.15	22.25
15	16QAM	1	0	22.39	22.49	22.48	22.39	22.49	22.48
15	16QAM	1	37	22.29	22.40	22.09	22.29	22.40	22.09
15	16QAM	1	74	22.40	22.42	22.26	22.40	22.42	22.26
15	16QAM	36	0	21.13	21.28	21.40	21.13	21.28	21.40
15	16QAM	36	20	21.12	21.23	21.21	21.12	21.23	21.21
15	16QAM	36	39	21.18	21.20	21.25	21.18	21.20	21.25
15	16QAM	75	0	21.20	21.24	21.37	21.20	21.24	21.37
15	64QAM	1	0	21.45	21.44	21.40	21.45	21.44	21.40
15	64QAM	1	37	21.09	21.36	21.19	21.09	21.36	21.19
15	64QAM	1	74	21.33	21.31	21.29	21.33	21.31	21.29
15	64QAM	36	0	20.19	20.31	20.46	20.19	20.31	20.46
15	64QAM	36	20	20.15	20.33	20.22	20.15	20.33	20.22
15	64QAM	36	39	20.22	20.25	20.33	20.22	20.25	20.33
15	64QAM	75	0	20.25	20.24	20.33	20.25	20.24	20.33
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	23.27	23.32	23.27	23.27	23.32	23.27
10	QPSK	1	25	23.18	23.29	22.96	23.18	23.29	22.96
10	QPSK	1	49	23.12	23.29	22.98	23.12	23.29	22.98
10	QPSK	25	0	22.25	22.35	22.05	22.25	22.35	22.05
10	QPSK	25	12	22.24	22.39	22.13	22.24	22.39	22.13



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10	QPSK	25	25	22.21	22.31	22.16	22.21	22.31	22.16
10	QPSK	50	0	22.22	22.37	22.09	22.22	22.37	22.09
10	16QAM	1	0	22.47	22.42	22.36	22.47	22.42	22.36
10	16QAM	1	25	22.31	22.37	22.25	22.31	22.37	22.25
10	16QAM	1	49	22.17	22.32	22.23	22.17	22.32	22.23
10	16QAM	25	0	21.15	21.27	21.12	21.15	21.27	21.12
10	16QAM	25	12	21.15	21.31	21.30	21.15	21.31	21.30
10	16QAM	25	25	21.07	21.22	21.27	21.07	21.22	21.27
10	16QAM	50	0	21.12	21.23	21.21	21.12	21.23	21.21
10	64QAM	1	0	21.29	21.34	21.46	21.29	21.34	21.46
10	64QAM	1	25	21.18	21.26	21.40	21.18	21.26	21.40
10	64QAM	1	49	21.21	21.24	21.33	21.21	21.24	21.33
10	64QAM	25	0	20.16	20.27	20.25	20.16	20.27	20.25
10	64QAM	25	12	20.11	20.25	20.21	20.11	20.25	20.21
10	64QAM	25	25	20.05	20.22	20.34	20.05	20.22	20.34
10	64QAM	50	0	20.12	20.33	20.22	20.12	20.33	20.22
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	23.24	23.32	23.27	23.24	23.32	23.27
5	QPSK	1	12	23.24	23.32	23.40	23.24	23.32	23.40
5	QPSK	1	24	23.19	23.29	23.23	23.19	23.29	23.23
5	QPSK	12	0	22.22	22.37	22.41	22.22	22.37	22.41
5	QPSK	12	7	22.24	22.33	22.41	22.24	22.33	22.41
5	QPSK	12	13	22.21	22.35	22.38	22.21	22.35	22.38
5	QPSK	25	0	22.16	22.36	22.35	22.16	22.36	22.35
5	16QAM	1	0	22.33	22.49	22.48	22.53	22.69	22.71
5	16QAM	1	12	22.35	22.44	22.36	22.55	22.64	22.56
5	16QAM	1	24	22.23	22.39	22.31	22.43	22.59	22.51
5	16QAM	12	0	21.11	21.26	21.30	21.31	21.46	21.50
5	16QAM	12	7	21.09	21.28	21.28	21.29	21.48	21.48
5	16QAM	12	13	21.09	21.17	21.25	21.29	21.37	21.45
5	16QAM	25	0	21.08	21.21	21.25	21.28	21.41	21.45
5	64QAM	1	0	21.27	21.35	21.45	21.47	21.55	21.65
5	64QAM	1	12	21.22	21.39	21.40	21.42	21.59	21.60
5	64QAM	1	24	21.11	21.33	21.37	21.31	21.53	21.57
5	64QAM	12	0	20.16	20.28	20.35	20.36	20.48	20.55
5	64QAM	12	7	20.13	20.28	20.35	20.33	20.48	20.55
5	64QAM	12	13	20.16	20.25	20.31	20.36	20.45	20.51
5	64QAM	25	0	20.10	20.21	20.28	20.30	20.41	20.48
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	23.24	23.31	23.38	23.24	23.31	23.38
3	QPSK	1	8	23.17	23.30	23.36	23.17	23.30	23.36
3	QPSK	1	14	23.12	23.25	23.14	23.12	23.25	23.14
3	QPSK	8	0	22.24	22.30	22.38	22.24	22.30	22.38
3	QPSK	8	4	22.23	22.35	22.41	22.23	22.35	22.41
3	QPSK	8	7	22.18	22.27	22.26	22.18	22.27	22.26
3	QPSK	15	0	22.18	22.36	22.32	22.18	22.36	22.32
3	16QAM	1	0	22.32	22.46	22.45	22.32	22.46	22.45
3	16QAM	1	8	22.36	22.39	22.41	22.36	22.39	22.41
3	16QAM	1	14	22.38	22.34	22.38	22.38	22.34	22.38
3	16QAM	8	0	21.18	21.29	21.33	21.18	21.29	21.33
3	16QAM	8	4	21.18	21.33	21.36	21.18	21.33	21.36
3	16QAM	8	7	21.11	21.27	21.24	21.11	21.27	21.24
3	16QAM	15	0	21.11	21.21	21.28	21.11	21.21	21.28
3	64QAM	1	0	21.18	21.40	21.37	21.18	21.40	21.37
3	64QAM	1	8	21.27	21.46	21.44	21.27	21.46	21.44
3	64QAM	1	14	21.12	21.36	21.32	21.12	21.36	21.32
3	64QAM	8	0	20.13	20.27	20.31	20.13	20.27	20.31
3	64QAM	8	4	20.18	20.28	20.31	20.18	20.28	20.31
3	64QAM	8	7	20.32	20.43	20.44	20.32	20.43	20.44
3	64QAM	15	0	20.27	20.41	20.48	20.27	20.41	20.48
Channel				131979	132322	132665	26047	26340	26683
Frequency (MHz)				1710.7	1745	1779.3	1850.7	1880	1914.3
1.4	QPSK	1	0	23.13	23.21	23.31	23.13	23.21	23.31
1.4	QPSK	1	3	23.16	23.28	23.35	23.16	23.28	23.35
1.4	QPSK	1	5	23.10	23.22	23.12	23.10	23.22	23.12
1.4	QPSK	3	0	23.20	23.26	23.27	23.20	23.26	23.27
1.4	QPSK	3	1	23.16	23.29	23.12	23.16	23.29	23.12
1.4	QPSK	3	3	23.11	23.24	22.95	23.11	23.24	22.95



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1.4	QPSK	6	0	22.14	22.26	22.19	22.14	22.26	22.19
1.4	16QAM	1	0	22.16	22.41	22.33	22.16	22.41	22.33
1.4	16QAM	1	3	22.32	22.46	22.38	22.32	22.46	22.38
1.4	16QAM	1	5	22.22	22.38	22.13	22.22	22.38	22.13
1.4	16QAM	3	0	22.03	22.15	22.18	22.03	22.15	22.18
1.4	16QAM	3	1	22.04	22.16	22.09	22.04	22.16	22.09
1.4	16QAM	3	3	21.97	22.07	22.06	21.97	22.07	22.06
1.4	16QAM	6	0	21.08	21.16	21.22	21.08	21.16	21.22
1.4	64QAM	1	0	21.21	21.30	21.29	21.21	21.30	21.29
1.4	64QAM	1	3	21.28	21.40	21.43	21.28	21.40	21.43
1.4	64QAM	1	5	21.20	21.34	21.19	21.20	21.34	21.19
1.4	64QAM	3	0	21.10	21.28	21.32	21.10	21.28	21.32
1.4	64QAM	3	1	21.39	21.45	21.45	21.39	21.45	21.45
1.4	64QAM	3	3	21.30	21.42	21.46	21.30	21.42	21.46
1.4	64QAM	6	0	20.25	20.35	20.40	20.25	20.35	20.40



<LTE Band 26>

<WiFi off / Wifi on>

Power Selection				Head / Hotspot / Body-worn					
Transmit Antenna				UAT			LAT		
Max. Power				24.5			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26765	26865	26965	26765	26865	26965
Frequency (MHz)				821.5	831.5	841.5	821.5	831.5	841.5
15	QPSK	1	0	24.10	24.17	24.27	23.36	23.36	23.49
15	QPSK	1	37	23.56	23.65	23.72	23.16	23.34	23.04
15	QPSK	1	74	24.01	24.09	24.18	23.23	23.29	23.17
15	QPSK	36	0	22.80	22.88	22.91	22.10	22.22	22.31
15	QPSK	36	20	22.70	22.74	22.82	22.06	22.20	22.08
15	QPSK	36	39	22.79	22.74	22.83	22.08	22.13	22.17
15	QPSK	75	0	22.81	22.81	22.94	22.11	22.15	22.25
15	16QAM	1	0	23.46	23.43	23.46	22.39	22.49	22.48
15	16QAM	1	37	22.88	22.99	23.06	22.29	22.40	22.09
15	16QAM	1	74	23.34	23.42	23.41	22.40	22.42	22.26
15	16QAM	36	0	21.85	21.96	22.01	21.13	21.28	21.40
15	16QAM	36	20	21.78	21.79	21.89	21.12	21.23	21.21
15	16QAM	36	39	21.85	21.87	21.93	21.18	21.20	21.25
15	16QAM	75	0	21.91	21.89	21.98	21.20	21.24	21.37
15	64QAM	1	0	22.32	22.44	22.41	21.45	21.44	21.40
15	64QAM	1	37	21.78	21.86	21.96	21.09	21.36	21.19
15	64QAM	1	74	22.24	22.27	22.41	21.33	21.31	21.29
15	64QAM	36	0	20.89	20.98	21.00	20.19	20.31	20.46
15	64QAM	36	20	20.82	20.84	20.90	20.15	20.33	20.22
15	64QAM	36	39	20.86	20.89	20.93	20.22	20.25	20.33
15	64QAM	75	0	20.90	20.91	21.02	20.25	20.24	20.33
Channel				26740	26865	26990	26740	26865	26990
Frequency (MHz)				819	831.5	844	819	831.5	844
10	QPSK	1	0	23.66	23.71	23.91	23.27	23.32	23.27
10	QPSK	1	25	23.67	23.74	23.97	23.18	23.29	22.96
10	QPSK	1	49	23.70	23.80	23.86	23.12	23.29	22.98
10	QPSK	25	0	22.69	22.85	22.87	22.25	22.35	22.05
10	QPSK	25	12	22.67	22.75	22.84	22.24	22.39	22.13
10	QPSK	25	25	22.73	22.74	22.88	22.21	22.31	22.16
10	QPSK	50	0	22.71	22.78	22.83	22.22	22.37	22.09
10	16QAM	1	0	23.01	23.11	23.37	22.47	22.42	22.36
10	16QAM	1	25	23.06	23.17	23.23	22.31	22.37	22.25
10	16QAM	1	49	23.17	23.19	23.13	22.17	22.32	22.23
10	16QAM	25	0	21.87	21.94	21.98	21.15	21.27	21.12
10	16QAM	25	12	21.81	21.89	21.95	21.15	21.31	21.30
10	16QAM	25	25	21.81	21.84	21.96	21.07	21.22	21.27
10	16QAM	50	0	21.79	21.88	21.96	21.12	21.23	21.21
10	64QAM	1	0	21.98	22.00	22.18	21.29	21.34	21.46
10	64QAM	1	25	21.96	21.94	22.14	21.18	21.26	21.40
10	64QAM	1	49	21.88	22.02	22.13	21.21	21.24	21.33
10	64QAM	25	0	20.83	20.93	21.00	20.16	20.27	20.25
10	64QAM	25	12	20.79	20.87	20.96	20.11	20.25	20.21
10	64QAM	25	25	20.79	20.85	20.98	20.05	20.22	20.34
10	64QAM	50	0	20.74	20.87	20.93	20.12	20.33	20.22
Channel				26715	26865	27015	26715	26865	27015
Frequency (MHz)				816.5	831.5	846.5	816.5	831.5	846.5
5	QPSK	1	0	23.61	23.80	23.92	23.24	23.32	23.27
5	QPSK	1	12	23.60	23.73	23.88	23.24	23.32	23.40
5	QPSK	1	24	23.64	23.71	23.88	23.19	23.29	23.23
5	QPSK	12	0	22.59	22.75	22.92	22.22	22.37	22.41
5	QPSK	12	7	22.71	22.78	22.95	22.24	22.33	22.41
5	QPSK	12	13	22.67	22.70	22.91	22.21	22.35	22.38
5	QPSK	25	0	22.69	22.78	22.90	22.16	22.36	22.35
5	16QAM	1	0	23.00	23.17	23.25	22.53	22.69	22.71
5	16QAM	1	12	22.96	23.09	23.21	22.55	22.64	22.56
5	16QAM	1	24	23.04	23.01	23.23	22.43	22.59	22.51
5	16QAM	12	0	21.71	21.89	22.06	21.31	21.46	21.50
5	16QAM	12	7	21.82	21.85	22.04	21.29	21.48	21.48
5	16QAM	12	13	21.73	21.87	21.98	21.29	21.37	21.45



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5	16QAM	25	0	21.77	21.86	22.02	21.28	21.41	21.45
5	64QAM	1	0	21.92	22.00	22.30	21.47	21.55	21.65
5	64QAM	1	12	21.84	22.07	22.20	21.42	21.59	21.60
5	64QAM	1	24	21.88	21.95	22.11	21.31	21.53	21.57
5	64QAM	12	0	20.76	20.94	21.06	20.36	20.48	20.55
5	64QAM	12	7	20.77	20.92	21.05	20.33	20.48	20.55
5	64QAM	12	13	20.79	20.90	20.96	20.36	20.45	20.51
5	64QAM	25	0	20.79	20.83	20.98	20.30	20.41	20.48
Channel				26705	26865	27025	26705	26865	27025
Frequency (MHz)				815.5	831.5	847.5	815.5	831.5	847.5
3	QPSK	1	0	23.59	23.73	23.91	23.24	23.31	23.38
3	QPSK	1	8	23.54	23.73	23.83	23.17	23.30	23.36
3	QPSK	1	14	23.48	23.74	23.85	23.12	23.25	23.14
3	QPSK	8	0	22.59	22.77	22.84	22.24	22.30	22.38
3	QPSK	8	4	22.65	22.77	22.94	22.23	22.35	22.41
3	QPSK	8	7	22.57	22.76	22.88	22.18	22.27	22.26
3	QPSK	15	0	22.54	22.75	22.88	22.18	22.36	22.32
3	16QAM	1	0	22.89	23.06	23.23	22.32	22.46	22.45
3	16QAM	1	8	22.93	23.10	23.23	22.36	22.39	22.41
3	16QAM	1	14	22.91	23.10	23.20	22.38	22.34	22.38
3	16QAM	8	0	21.69	21.90	22.02	21.18	21.29	21.33
3	16QAM	8	4	21.80	21.95	22.01	21.18	21.33	21.36
3	16QAM	8	7	21.74	21.91	22.01	21.11	21.27	21.24
3	16QAM	15	0	21.68	21.84	21.94	21.11	21.21	21.28
3	64QAM	1	0	21.88	21.93	22.11	21.18	21.40	21.37
3	64QAM	1	8	21.83	22.01	22.07	21.27	21.46	21.44
3	64QAM	1	14	21.86	22.03	22.13	21.12	21.36	21.32
3	64QAM	8	0	20.73	20.86	21.01	20.13	20.27	20.31
3	64QAM	8	4	20.75	20.87	21.00	20.18	20.28	20.31
3	64QAM	8	7	20.68	20.88	21.04	20.32	20.43	20.44
3	64QAM	15	0	20.70	20.88	21.01	20.27	20.41	20.48
Channel				26697	26865	27033	26697	26865	27033
Frequency (MHz)				814.7	831.5	848.3	814.7	831.5	848.3
1.4	QPSK	1	0	23.49	23.67	23.76	23.13	23.21	23.31
1.4	QPSK	1	3	23.54	23.71	23.86	23.16	23.28	23.35
1.4	QPSK	1	5	23.47	23.65	23.73	23.10	23.22	23.12
1.4	QPSK	3	0	23.52	23.71	23.84	23.20	23.26	23.27
1.4	QPSK	3	1	23.59	23.70	23.85	23.16	23.29	23.12
1.4	QPSK	3	3	23.51	23.69	23.81	23.11	23.24	22.95
1.4	QPSK	6	0	22.52	22.66	22.77	22.14	22.26	22.19
1.4	16QAM	1	0	22.87	23.10	23.11	22.16	22.41	22.33
1.4	16QAM	1	3	22.95	23.06	23.15	22.32	22.46	22.38
1.4	16QAM	1	5	22.78	23.00	23.19	22.22	22.38	22.13
1.4	16QAM	3	0	22.68	22.82	22.93	22.03	22.15	22.18
1.4	16QAM	3	1	22.66	22.85	22.93	22.04	22.16	22.09
1.4	16QAM	3	3	22.62	22.76	22.82	21.97	22.07	22.06
1.4	16QAM	6	0	21.63	21.88	21.99	21.08	21.16	21.22
1.4	64QAM	1	0	21.85	21.84	22.02	21.21	21.30	21.29
1.4	64QAM	1	3	21.85	22.02	22.03	21.28	21.40	21.43
1.4	64QAM	1	5	21.71	21.86	22.09	21.20	21.34	21.19
1.4	64QAM	3	0	21.74	21.91	22.01	21.10	21.28	21.32
1.4	64QAM	3	1	21.79	21.92	22.03	21.39	21.45	21.45
1.4	64QAM	3	3	21.75	21.84	22.10	21.30	21.42	21.46
1.4	64QAM	6	0	20.66	20.78	20.90	20.25	20.35	20.40



<LTE Band 30>

<WiFi off>

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				20.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					27710			27710	
Frequency (MHz)					2310			2310	
10	QPSK	1	0		19.09			23.49	
10	QPSK	1	25		18.96			23.31	
10	QPSK	1	49		18.87			23.22	
10	QPSK	25	0		19.07			22.42	
10	QPSK	25	12		19.01			22.38	
10	QPSK	25	25		18.96			22.30	
10	QPSK	50	0		19.01			22.36	
10	16QAM	1	0		19.20			22.81	
10	16QAM	1	25		19.15			22.64	
10	16QAM	1	49		19.06			22.61	
10	16QAM	25	0		19.16			21.52	
10	16QAM	25	12		19.13			21.46	
10	16QAM	25	25		19.08			21.39	
10	16QAM	50	0		19.13			21.55	
10	64QAM	1	0		19.16			21.78	
10	64QAM	1	25		19.19			21.57	
10	64QAM	1	49		19.15			21.53	
10	64QAM	25	0		19.13			20.63	
10	64QAM	25	12		19.17			20.58	
10	64QAM	25	25		19.09			20.53	
10	64QAM	50	0		19.15			20.59	
Channel				27685	27710	27735	27685	27710	27735
Frequency (MHz)				2307.5	2310	2312.5	2307.5	2310	2312.5
5	QPSK	1	0	18.79	18.80	18.87	23.46	23.48	23.48
5	QPSK	1	12	18.70	18.68	18.67	23.45	23.45	23.42
5	QPSK	1	24	18.61	18.59	18.58	23.45	23.47	23.42
5	QPSK	12	0	18.82	18.80	18.80	22.57	22.59	22.51
5	QPSK	12	7	18.76	18.79	18.73	22.55	22.55	22.54
5	QPSK	12	13	18.71	18.71	18.74	22.48	22.53	22.46
5	QPSK	25	0	18.76	18.78	18.76	22.51	22.55	22.50
5	16QAM	1	0	18.96	18.94	18.94	22.92	22.89	22.85
5	16QAM	1	12	18.90	18.93	18.85	22.80	22.78	22.84
5	16QAM	1	24	18.79	18.77	18.82	22.65	22.69	22.79
5	16QAM	12	0	18.90	18.92	18.94	21.63	21.65	21.62
5	16QAM	12	7	18.84	18.88	18.90	21.68	21.67	21.63
5	16QAM	12	13	18.88	18.78	18.86	21.61	21.61	21.59
5	16QAM	25	0	18.91	18.91	18.89	21.66	21.64	21.61
5	64QAM	1	0	18.93	18.86	18.88	21.75	21.83	21.82
5	64QAM	1	12	18.97	18.93	18.93	21.74	21.73	21.63
5	64QAM	1	24	18.93	18.88	18.85	21.69	21.63	21.61
5	64QAM	12	0	18.87	18.90	18.93	20.69	20.70	20.69
5	64QAM	12	7	18.94	18.95	18.89	20.73	20.68	20.62
5	64QAM	12	13	18.81	18.83	18.88	20.65	20.67	20.62
5	64QAM	25	0	18.89	18.93	18.93	20.62	20.64	20.60

Power Selection				Hotspot					
Transmit Antenna				UAT			LAT		
Max. Power				21.5			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					27710			27710	
Frequency (MHz)					2310			2310	
10	QPSK	1	0		20.55			23.49	
10	QPSK	1	25		20.43			23.31	
10	QPSK	1	49		20.29			23.22	
10	QPSK	25	0		20.46			22.42	
10	QPSK	25	12		20.45			22.38	
10	QPSK	25	25		20.42			22.30	



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10	QPSK	50	0		20.28			22.36	
10	16QAM	1	0		20.45			22.81	
10	16QAM	1	25		20.37			22.64	
10	16QAM	1	49		20.24			22.61	
10	16QAM	25	0		20.26			21.52	
10	16QAM	25	12		20.47			21.46	
10	16QAM	25	25		20.45			21.39	
10	16QAM	50	0		20.23			21.55	
10	64QAM	1	0		20.13			21.78	
10	64QAM	1	25		20.35			21.57	
10	64QAM	1	49		20.42			21.53	
10	64QAM	25	0		20.31			20.63	
10	64QAM	25	12		20.19			20.58	
10	64QAM	25	25		20.53			20.53	
10	64QAM	50	0		20.31			20.59	
Channel				27685	27710	27735	27685	27710	27735
Frequency (MHz)				2307.5	2310	2312.5	2307.5	2310	2312.5
5	QPSK	1	0	20.30	20.33	20.36	23.46	23.48	23.48
5	QPSK	1	12	20.25	20.43	20.37	23.45	23.45	23.42
5	QPSK	1	24	20.27	20.28	20.15	23.45	23.47	23.42
5	QPSK	12	0	20.53	20.41	20.41	22.57	22.59	22.51
5	QPSK	12	7	20.32	20.25	20.30	22.55	22.55	22.54
5	QPSK	12	13	20.23	20.35	20.25	22.48	22.53	22.46
5	QPSK	25	0	20.11	20.17	20.20	22.51	22.55	22.50
5	16QAM	1	0	20.50	20.42	20.42	22.92	22.89	22.85
5	16QAM	1	12	20.36	20.44	20.30	22.80	22.78	22.84
5	16QAM	1	24	20.34	20.24	20.34	22.65	22.69	22.79
5	16QAM	12	0	20.14	20.21	20.13	21.63	21.65	21.62
5	16QAM	12	7	20.44	20.52	20.37	21.68	21.67	21.63
5	16QAM	12	13	20.35	20.34	20.45	21.61	21.61	21.59
5	16QAM	25	0	20.43	20.35	20.41	21.66	21.64	21.61
5	64QAM	1	0	20.18	20.13	20.22	21.75	21.83	21.82
5	64QAM	1	12	20.54	20.40	20.53	21.74	21.73	21.63
5	64QAM	1	24	20.45	20.30	20.29	21.69	21.63	21.61
5	64QAM	12	0	20.43	20.42	20.23	20.69	20.70	20.69
5	64QAM	12	7	20.29	20.24	20.18	20.73	20.68	20.62
5	64QAM	12	13	20.35	20.53	20.53	20.65	20.67	20.62
5	64QAM	25	0	20.39	20.39	20.37	20.62	20.64	20.60

Power Selection				Body-worn					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					27710			27710	
Frequency (MHz)					2310			2310	
10	QPSK	1	0		23.49			23.49	
10	QPSK	1	25		23.31			23.31	
10	QPSK	1	49		23.22			23.22	
10	QPSK	25	0		22.42			22.42	
10	QPSK	25	12		22.38			22.38	
10	QPSK	25	25		22.30			22.30	
10	QPSK	50	0		22.36			22.36	
10	16QAM	1	0		22.81			22.81	
10	16QAM	1	25		22.64			22.64	
10	16QAM	1	49		22.61			22.61	
10	16QAM	25	0		21.52			21.52	
10	16QAM	25	12		21.46			21.46	
10	16QAM	25	25		21.39			21.39	
10	16QAM	50	0		21.55			21.55	
10	64QAM	1	0		21.78			21.78	
10	64QAM	1	25		21.57			21.57	
10	64QAM	1	49		21.53			21.53	
10	64QAM	25	0		20.63			20.63	
10	64QAM	25	12		20.58			20.58	
10	64QAM	25	25		20.53			20.53	
10	64QAM	50	0		20.59			20.59	



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Channel				27685	27710	27735	27685	27710	27735
Frequency (MHz)				2307.5	2310	2312.5	2307.5	2310	2312.5
5	QPSK	1	0	23.46	23.48	23.48	23.46	23.48	23.48
5	QPSK	1	12	23.45	23.45	23.42	23.45	23.45	23.42
5	QPSK	1	24	23.45	23.47	23.42	23.45	23.47	23.42
5	QPSK	12	0	22.57	22.59	22.51	22.57	22.59	22.51
5	QPSK	12	7	22.55	22.55	22.54	22.55	22.55	22.54
5	QPSK	12	13	22.48	22.53	22.46	22.48	22.53	22.46
5	QPSK	25	0	22.51	22.55	22.50	22.51	22.55	22.50
5	16QAM	1	0	22.92	22.89	22.85	22.92	22.89	22.85
5	16QAM	1	12	22.80	22.78	22.84	22.80	22.78	22.84
5	16QAM	1	24	22.65	22.69	22.79	22.65	22.69	22.79
5	16QAM	12	0	21.63	21.65	21.62	21.63	21.65	21.62
5	16QAM	12	7	21.68	21.67	21.63	21.68	21.67	21.63
5	16QAM	12	13	21.61	21.61	21.59	21.61	21.61	21.59
5	16QAM	25	0	21.66	21.64	21.61	21.66	21.64	21.61
5	64QAM	1	0	21.75	21.83	21.82	21.75	21.83	21.82
5	64QAM	1	12	21.74	21.73	21.63	21.74	21.73	21.63
5	64QAM	1	24	21.69	21.63	21.61	21.69	21.63	21.61
5	64QAM	12	0	20.69	20.70	20.69	20.69	20.70	20.69
5	64QAM	12	7	20.73	20.68	20.62	20.73	20.68	20.62
5	64QAM	12	13	20.65	20.67	20.62	20.65	20.67	20.62
5	64QAM	25	0	20.62	20.64	20.60	20.62	20.64	20.60



<Wifi on>

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				19.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					27710			27710	
Frequency (MHz)					2310			2310	
10	QPSK	1	0		19.00			23.49	
10	QPSK	1	25		18.75			23.31	
10	QPSK	1	49		18.66			23.22	
10	QPSK	25	0		18.86			22.42	
10	QPSK	25	12		18.80			22.38	
10	QPSK	25	25		18.75			22.30	
10	QPSK	50	0		18.80			22.36	
10	16QAM	1	0		18.99			22.81	
10	16QAM	1	25		18.94			22.64	
10	16QAM	1	49		18.85			22.61	
10	16QAM	25	0		18.95			21.52	
10	16QAM	25	12		18.92			21.46	
10	16QAM	25	25		18.87			21.39	
10	16QAM	50	0		18.92			21.55	
10	64QAM	1	0		18.95			21.78	
10	64QAM	1	25		18.98			21.57	
10	64QAM	1	49		18.94			21.53	
10	64QAM	25	0		18.92			20.63	
10	64QAM	25	12		18.96			20.58	
10	64QAM	25	25		18.88			20.53	
10	64QAM	50	0		18.94			20.59	
Channel				27685	27710	27735	27685	27710	27735
Frequency (MHz)				2307.5	2310	2312.5	2307.5	2310	2312.5
5	QPSK	1	0	18.79	18.80	18.87	23.46	23.48	23.48
5	QPSK	1	12	18.70	18.68	18.67	23.45	23.45	23.42
5	QPSK	1	24	18.61	18.59	18.58	23.45	23.47	23.42
5	QPSK	12	0	18.82	18.80	18.80	22.57	22.59	22.51
5	QPSK	12	7	18.76	18.79	18.73	22.55	22.55	22.54
5	QPSK	12	13	18.71	18.71	18.74	22.48	22.53	22.46
5	QPSK	25	0	18.76	18.78	18.76	22.51	22.55	22.50
5	16QAM	1	0	18.96	18.94	18.94	22.92	22.89	22.85
5	16QAM	1	12	18.90	18.93	18.85	22.80	22.78	22.84
5	16QAM	1	24	18.79	18.77	18.82	22.65	22.69	22.79
5	16QAM	12	0	18.90	18.92	18.94	21.63	21.65	21.62
5	16QAM	12	7	18.84	18.88	18.90	21.68	21.67	21.63
5	16QAM	12	13	18.88	18.78	18.86	21.61	21.61	21.59
5	16QAM	25	0	18.91	18.91	18.89	21.66	21.64	21.61
5	64QAM	1	0	18.93	18.86	18.88	21.75	21.83	21.82
5	64QAM	1	12	18.97	18.93	18.93	21.74	21.73	21.63
5	64QAM	1	24	18.93	18.88	18.85	21.69	21.63	21.61
5	64QAM	12	0	18.87	18.90	18.93	20.69	20.70	20.69
5	64QAM	12	7	18.94	18.95	18.89	20.73	20.68	20.62
5	64QAM	12	13	18.81	18.83	18.88	20.65	20.67	20.62
5	64QAM	25	0	18.89	18.93	18.93	20.62	20.64	20.60

Power Selection				Hotspot					
Transmit Antenna				UAT			LAT		
Max. Power				21.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					27710			27710	
Frequency (MHz)					2310			2310	
10	QPSK	1	0		20.55			23.49	
10	QPSK	1	25		20.43			23.31	
10	QPSK	1	49		20.29			23.22	
10	QPSK	25	0		20.46			22.42	
10	QPSK	25	12		20.45			22.38	
10	QPSK	25	25		20.42			22.30	
10	QPSK	50	0		20.28			22.36	
10	16QAM	1	0		20.45			22.81	



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10	16QAM	1	25		20.37			22.64	
10	16QAM	1	49		20.24			22.61	
10	16QAM	25	0		20.26			21.52	
10	16QAM	25	12		20.47			21.46	
10	16QAM	25	25		20.45			21.39	
10	16QAM	50	0		20.23			21.55	
10	64QAM	1	0		20.13			21.78	
10	64QAM	1	25		20.35			21.57	
10	64QAM	1	49		20.42			21.53	
10	64QAM	25	0		20.31			20.63	
10	64QAM	25	12		20.19			20.58	
10	64QAM	25	25		20.53			20.53	
10	64QAM	50	0		20.31			20.59	
Channel				27685	27710	27735	27685	27710	27735
Frequency (MHz)				2307.5	2310	2312.5	2307.5	2310	2312.5
5	QPSK	1	0	20.30	20.33	20.36	23.46	23.48	23.48
5	QPSK	1	12	20.25	20.43	20.37	23.45	23.45	23.42
5	QPSK	1	24	20.27	20.28	20.15	23.45	23.47	23.42
5	QPSK	12	0	20.53	20.41	20.41	22.57	22.59	22.51
5	QPSK	12	7	20.32	20.25	20.30	22.55	22.55	22.54
5	QPSK	12	13	20.23	20.35	20.25	22.48	22.53	22.46
5	QPSK	25	0	20.11	20.17	20.20	22.51	22.55	22.50
5	16QAM	1	0	20.50	20.42	20.42	22.92	22.89	22.85
5	16QAM	1	12	20.36	20.44	20.30	22.80	22.78	22.84
5	16QAM	1	24	20.34	20.24	20.34	22.65	22.69	22.79
5	16QAM	12	0	20.14	20.21	20.13	21.63	21.65	21.62
5	16QAM	12	7	20.44	20.52	20.37	21.68	21.67	21.63
5	16QAM	12	13	20.35	20.34	20.45	21.61	21.61	21.59
5	16QAM	25	0	20.43	20.35	20.41	21.66	21.64	21.61
5	64QAM	1	0	20.18	20.13	20.22	21.75	21.83	21.82
5	64QAM	1	12	20.54	20.40	20.53	21.74	21.73	21.63
5	64QAM	1	24	20.45	20.30	20.29	21.69	21.63	21.61
5	64QAM	12	0	20.43	20.42	20.23	20.69	20.70	20.69
5	64QAM	12	7	20.29	20.24	20.18	20.73	20.68	20.62
5	64QAM	12	13	20.35	20.53	20.53	20.65	20.67	20.62
5	64QAM	25	0	20.39	20.39	20.37	20.62	20.64	20.60

Power Selection				Body-worn					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					27710			27710	
Frequency (MHz)					2310			2310	
10	QPSK	1	0		23.49			23.49	
10	QPSK	1	25		23.31			23.31	
10	QPSK	1	49		23.22			23.22	
10	QPSK	25	0		22.42			22.42	
10	QPSK	25	12		22.38			22.38	
10	QPSK	25	25		22.30			22.30	
10	QPSK	50	0		22.36			22.36	
10	16QAM	1	0		22.81			22.81	
10	16QAM	1	25		22.64			22.64	
10	16QAM	1	49		22.61			22.61	
10	16QAM	25	0		21.52			21.52	
10	16QAM	25	12		21.46			21.46	
10	16QAM	25	25		21.39			21.39	
10	16QAM	50	0		21.55			21.55	
10	64QAM	1	0		21.78			21.78	
10	64QAM	1	25		21.57			21.57	
10	64QAM	1	49		21.53			21.53	
10	64QAM	25	0		20.63			20.63	
10	64QAM	25	12		20.58			20.58	
10	64QAM	25	25		20.53			20.53	
10	64QAM	50	0		20.59			20.59	
Channel				27685	27710	27735	27685	27710	27735
Frequency (MHz)				2307.5	2310	2312.5	2307.5	2310	2312.5



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5	QPSK	1	0	23.46	23.48	23.48	23.46	23.48	23.48
5	QPSK	1	12	23.45	23.45	23.42	23.45	23.45	23.42
5	QPSK	1	24	23.45	23.47	23.42	23.45	23.47	23.42
5	QPSK	12	0	22.57	22.59	22.51	22.57	22.59	22.51
5	QPSK	12	7	22.55	22.55	22.54	22.55	22.55	22.54
5	QPSK	12	13	22.48	22.53	22.46	22.48	22.53	22.46
5	QPSK	25	0	22.51	22.55	22.50	22.51	22.55	22.50
5	16QAM	1	0	22.92	22.89	22.85	22.92	22.89	22.85
5	16QAM	1	12	22.80	22.78	22.84	22.80	22.78	22.84
5	16QAM	1	24	22.65	22.69	22.79	22.65	22.69	22.79
5	16QAM	12	0	21.63	21.65	21.62	21.63	21.65	21.62
5	16QAM	12	7	21.68	21.67	21.63	21.68	21.67	21.63
5	16QAM	12	13	21.61	21.61	21.59	21.61	21.61	21.59
5	16QAM	25	0	21.66	21.64	21.61	21.66	21.64	21.61
5	64QAM	1	0	21.75	21.83	21.82	21.75	21.83	21.82
5	64QAM	1	12	21.74	21.73	21.63	21.74	21.73	21.63
5	64QAM	1	24	21.69	21.63	21.61	21.69	21.63	21.61
5	64QAM	12	0	20.69	20.70	20.69	20.69	20.70	20.69
5	64QAM	12	7	20.73	20.68	20.62	20.73	20.68	20.62
5	64QAM	12	13	20.65	20.67	20.62	20.65	20.67	20.62
5	64QAM	25	0	20.62	20.64	20.60	20.62	20.64	20.60

**<LTE Band 66>****<WiFi off>**

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				17.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	16.30	16.32	16.22	23.48	23.50	23.49
20	QPSK	1	49	16.25	16.23	16.21	23.35	23.15	23.14
20	QPSK	1	99	16.21	16.13	16.17	23.22	23.11	23.16
20	QPSK	50	0	16.25	16.26	16.12	22.47	22.48	22.44
20	QPSK	50	24	16.24	16.19	16.05	22.43	22.25	22.24
20	QPSK	50	50	16.16	16.09	16.03	22.28	22.18	22.20
20	QPSK	100	0	16.10	16.13	16.01	22.31	22.35	22.15
20	16QAM	1	0	16.30	16.24	16.12	22.63	22.73	22.61
20	16QAM	1	49	16.23	16.13	16.21	22.70	22.49	22.47
20	16QAM	1	99	16.18	16.13	16.12	22.56	22.44	22.46
20	16QAM	50	0	16.21	16.17	16.05	21.58	21.44	21.36
20	16QAM	50	24	16.19	16.10	15.98	21.54	21.38	21.37
20	16QAM	50	50	16.08	16.08	16.03	21.40	21.27	21.28
20	16QAM	100	0	16.00	16.12	15.92	21.40	21.33	21.24
20	64QAM	1	0	16.24	16.30	16.13	21.62	21.61	21.48
20	64QAM	1	49	16.17	16.17	16.13	21.59	21.38	21.42
20	64QAM	1	99	16.11	16.08	16.11	21.39	21.30	21.40
20	64QAM	50	0	16.16	16.25	16.06	20.57	20.40	20.30
20	64QAM	50	24	16.25	16.15	16.00	20.53	20.32	20.34
20	64QAM	50	50	16.11	16.05	15.93	20.37	20.25	20.25
20	64QAM	100	0	16.03	16.03	15.97	20.43	20.34	20.26
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	16.23	16.23	16.18	23.44	23.40	23.37
15	QPSK	1	37	16.21	16.18	16.13	23.36	23.14	23.13
15	QPSK	1	74	16.19	16.07	16.16	23.39	23.17	23.16
15	QPSK	36	0	16.22	16.16	16.03	22.49	22.29	22.32
15	QPSK	36	20	16.21	16.11	15.97	22.46	22.22	22.25
15	QPSK	36	39	16.09	16.00	15.93	22.44	22.16	22.14
15	QPSK	75	0	16.00	16.04	15.93	22.47	22.22	22.22
15	16QAM	1	0	16.24	16.24	16.07	22.67	22.62	22.75
15	16QAM	1	37	16.20	16.09	16.15	22.74	22.38	22.38
15	16QAM	1	74	16.12	16.12	16.03	22.77	22.40	22.45
15	16QAM	36	0	16.11	16.17	16.01	21.58	21.37	21.37
15	16QAM	36	20	16.17	16.03	15.92	21.55	21.32	21.34
15	16QAM	36	39	15.99	16.02	16.01	21.51	21.31	21.24
15	16QAM	75	0	15.90	16.08	15.88	21.53	21.35	21.35
15	64QAM	1	0	16.21	16.28	16.07	21.62	21.69	21.66
15	64QAM	1	37	16.15	16.12	16.12	21.71	21.34	21.33
15	64QAM	1	74	16.02	15.99	16.10	21.77	21.38	21.42
15	64QAM	36	0	16.12	16.18	16.01	20.61	20.46	20.46
15	64QAM	36	20	16.19	16.06	15.93	20.58	20.34	20.39
15	64QAM	36	39	16.05	15.99	15.83	20.57	20.28	20.29
15	64QAM	75	0	16.01	15.94	15.97	20.56	20.36	20.37
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	16.23	16.31	16.17	23.36	23.29	23.23
10	QPSK	1	25	16.25	16.17	16.17	23.38	23.21	23.14
10	QPSK	1	49	16.19	16.12	16.14	23.37	23.15	23.13
10	QPSK	25	0	16.24	16.23	16.12	22.46	22.23	22.27
10	QPSK	25	12	16.17	16.14	15.97	22.47	22.20	22.21
10	QPSK	25	25	16.06	16.09	16.01	22.39	22.19	22.15
10	QPSK	50	0	16.10	16.10	16.01	22.41	22.21	22.18
10	16QAM	1	0	16.28	16.15	16.10	22.53	22.47	22.66
10	16QAM	1	25	16.20	16.09	16.18	22.76	22.46	22.56
10	16QAM	1	49	16.16	16.12	16.03	22.77	22.43	22.40
10	16QAM	25	0	16.12	16.17	15.95	21.56	21.33	21.34
10	16QAM	25	12	16.10	16.06	15.92	21.58	21.31	21.35
10	16QAM	25	25	16.02	15.99	15.96	21.53	21.27	21.28



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10	16QAM	50	0	15.94	16.06	15.87	21.52	21.30	21.31
10	64QAM	1	0	16.15	16.25	16.10	21.60	21.63	21.57
10	64QAM	1	25	16.15	16.11	16.03	21.61	21.44	21.37
10	64QAM	1	49	16.10	16.05	16.03	21.60	21.34	21.35
10	64QAM	25	0	16.15	16.22	16.06	20.54	20.33	20.37
10	64QAM	25	12	16.15	16.13	15.98	20.53	20.29	20.28
10	64QAM	25	25	16.03	16.02	15.90	20.54	20.28	20.28
10	64QAM	50	0	15.98	15.94	15.95	20.55	20.33	20.30
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	16.27	16.23	16.13	23.27	23.25	23.20
5	QPSK	1	12	16.16	16.23	16.19	23.37	23.16	23.17
5	QPSK	1	24	16.21	16.06	16.09	23.37	23.14	23.16
5	QPSK	12	0	16.18	16.24	16.04	22.40	22.22	22.18
5	QPSK	12	7	16.21	16.16	16.03	22.42	22.17	22.17
5	QPSK	12	13	16.15	16.09	15.96	22.40	22.18	22.16
5	QPSK	25	0	16.10	16.07	15.98	22.42	22.19	22.16
5	16QAM	1	0	16.28	16.16	16.08	22.44	22.48	22.57
5	16QAM	1	12	16.19	16.12	16.13	22.68	22.44	22.40
5	16QAM	1	24	16.09	16.05	16.04	22.65	22.42	22.51
5	16QAM	12	0	16.15	16.12	16.05	21.51	21.35	21.33
5	16QAM	12	7	16.15	16.05	15.88	21.57	21.29	21.29
5	16QAM	12	13	16.05	16.04	15.93	21.50	21.23	21.30
5	16QAM	25	0	16.00	16.04	15.87	21.48	21.31	21.29
5	64QAM	1	0	16.24	16.20	16.11	21.42	21.54	21.48
5	64QAM	1	12	16.13	16.12	16.11	21.65	21.44	21.44
5	64QAM	1	24	16.09	15.99	16.10	21.65	21.43	21.40
5	64QAM	12	0	16.06	16.25	16.06	20.55	20.39	20.30
5	64QAM	12	7	16.20	16.09	15.97	20.64	20.36	20.38
5	64QAM	12	13	16.08	15.98	15.83	20.57	20.30	20.27
5	64QAM	25	0	15.99	16.02	15.92	20.54	20.29	20.26
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	16.30	16.29	16.14	23.20	23.21	23.17
3	QPSK	1	8	16.18	16.23	16.14	23.39	23.17	23.16
3	QPSK	1	14	16.21	16.05	16.12	23.38	23.19	23.16
3	QPSK	8	0	16.16	16.22	16.10	22.43	22.17	22.15
3	QPSK	8	4	16.22	16.19	16.00	22.41	22.21	22.19
3	QPSK	8	7	16.12	16.09	15.93	22.39	22.19	22.12
3	QPSK	15	0	16.01	16.08	15.95	22.45	22.20	22.12
3	16QAM	1	0	16.27	16.17	16.10	22.40	22.45	22.57
3	16QAM	1	8	16.23	16.05	16.21	22.73	22.47	22.55
3	16QAM	1	14	16.09	16.04	16.03	22.65	22.38	22.41
3	16QAM	8	0	16.11	16.14	15.99	21.40	21.36	21.32
3	16QAM	8	4	16.15	16.02	15.94	21.54	21.29	21.33
3	16QAM	8	7	16.00	15.99	15.99	21.53	21.31	21.28
3	16QAM	15	0	15.99	16.04	15.84	21.48	21.29	21.27
3	64QAM	1	0	16.20	16.22	16.12	21.50	21.52	21.37
3	64QAM	1	8	16.16	16.17	16.07	21.57	21.42	21.38
3	64QAM	1	14	16.09	16.01	16.09	21.66	21.31	21.37
3	64QAM	8	0	16.14	16.17	15.97	20.51	20.28	20.28
3	64QAM	8	4	16.25	16.07	15.91	20.53	20.35	20.33
3	64QAM	8	7	16.09	15.97	15.91	20.54	20.32	20.29
3	64QAM	15	0	16.02	15.97	15.96	20.51	20.28	20.25
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	16.21	16.31	16.18	23.38	23.36	23.28
1.4	QPSK	1	3	16.23	16.20	16.21	23.44	23.40	23.37
1.4	QPSK	1	5	16.20	16.08	16.16	23.41	23.31	23.24
1.4	QPSK	3	0	16.25	16.26	16.03	23.40	23.38	23.31
1.4	QPSK	3	1	16.22	16.15	16.02	23.44	23.39	23.40
1.4	QPSK	3	3	16.09	16.06	16.02	23.40	23.38	23.29
1.4	QPSK	6	0	16.05	16.12	15.99	22.36	22.34	22.30
1.4	16QAM	1	0	16.21	16.21	16.09	22.59	22.53	22.61
1.4	16QAM	1	3	16.18	16.09	16.17	22.78	22.65	22.74
1.4	16QAM	1	5	16.11	16.03	16.05	22.73	22.72	22.58
1.4	16QAM	3	0	16.19	16.13	16.00	22.36	22.36	22.33
1.4	16QAM	3	1	16.14	16.08	15.96	22.46	22.46	22.49
1.4	16QAM	3	3	15.98	16.02	16.01	22.43	22.39	22.41
1.4	16QAM	6	0	15.98	16.03	15.86	21.52	21.50	21.50



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1.4	64QAM	1	0	16.19	16.24	16.13	21.51	21.64	21.55
1.4	64QAM	1	3	16.17	16.10	16.05	21.70	21.60	21.70
1.4	64QAM	1	5	16.02	16.00	16.10	21.78	21.49	21.55
1.4	64QAM	3	0	16.15	16.16	16.04	21.50	21.58	21.54
1.4	64QAM	3	1	16.19	16.14	15.96	21.55	21.56	21.60
1.4	64QAM	3	3	16.03	16.05	15.92	21.56	21.57	21.55
1.4	64QAM	6	0	15.93	15.96	15.89	20.41	20.49	20.41

Power Selection				Hotspot					
Transmit Antenna				UAT			LAT		
Max. Power				21.5			23.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	20.44	20.49	20.38	22.80	22.92	22.89
20	QPSK	1	49	20.43	20.44	20.34	22.69	22.71	22.81
20	QPSK	1	99	20.43	20.39	20.31	22.63	22.56	22.64
20	QPSK	50	0	20.38	20.44	20.43	22.60	22.61	22.40
20	QPSK	50	24	20.31	20.34	20.31	22.62	22.40	22.44
20	QPSK	50	50	20.35	20.37	20.29	22.41	22.37	22.33
20	QPSK	100	0	20.27	20.29	20.18	22.49	22.50	22.37
20	16QAM	1	0	20.39	20.41	20.18	22.81	22.90	22.81
20	16QAM	1	49	20.35	20.32	20.26	22.84	22.67	22.67
20	16QAM	1	99	20.36	20.22	20.26	22.72	22.60	22.65
20	16QAM	50	0	20.31	20.30	20.33	21.73	21.62	21.53
20	16QAM	50	24	20.20	20.25	20.25	21.73	21.56	21.59
20	16QAM	50	50	20.30	20.30	20.19	21.56	21.45	21.45
20	16QAM	100	0	20.19	20.15	20.10	21.63	21.52	21.45
20	64QAM	1	0	20.37	20.36	20.34	21.75	21.79	21.65
20	64QAM	1	49	20.33	20.35	20.17	21.73	21.54	21.62
20	64QAM	1	99	20.41	20.23	20.21	21.61	21.48	21.59
20	64QAM	50	0	20.32	20.35	20.27	20.70	20.59	20.47
20	64QAM	50	24	20.19	20.25	20.18	20.76	20.54	20.50
20	64QAM	50	50	20.28	20.31	20.14	20.55	20.48	20.43
20	64QAM	100	0	20.12	20.10	20.15	20.65	20.48	20.48
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	20.38	20.40	20.32	22.70	22.87	22.83
15	QPSK	1	37	20.35	20.43	20.24	22.63	22.61	22.78
15	QPSK	1	74	20.37	20.34	20.26	22.53	22.49	22.63
15	QPSK	36	0	20.29	20.35	20.43	22.52	22.57	22.36
15	QPSK	36	20	20.28	20.26	20.26	22.62	22.35	22.40
15	QPSK	36	39	20.29	20.27	20.20	22.32	22.36	22.31
15	QPSK	75	0	20.17	20.28	20.11	22.46	22.49	22.35
15	16QAM	1	0	20.40	20.41	20.22	22.80	22.91	22.72
15	16QAM	1	37	20.32	20.29	20.23	22.88	22.60	22.67
15	16QAM	1	74	20.32	20.21	20.20	22.67	22.55	22.63
15	16QAM	36	0	20.28	20.33	20.42	21.66	21.58	21.51
15	16QAM	36	20	20.18	20.18	20.22	21.68	21.47	21.58
15	16QAM	36	39	20.25	20.26	20.23	21.56	21.37	21.43
15	16QAM	75	0	20.20	20.19	20.14	21.60	21.49	21.36
15	64QAM	1	0	20.38	20.38	20.35	21.72	21.73	21.64
15	64QAM	1	37	20.39	20.42	20.24	21.66	21.45	21.54
15	64QAM	1	74	20.33	20.31	20.27	21.52	21.38	21.52
15	64QAM	36	0	20.30	20.39	20.26	20.64	20.56	20.43
15	64QAM	36	20	20.17	20.24	20.21	20.74	20.50	20.42
15	64QAM	36	39	20.33	20.35	20.14	20.54	20.42	20.34
15	64QAM	75	0	20.11	20.09	20.10	20.57	20.40	20.38
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	20.42	20.41	20.33	22.70	22.88	22.88
10	QPSK	1	25	20.36	20.39	20.31	22.66	22.68	22.81
10	QPSK	1	49	20.38	20.32	20.25	22.54	22.46	22.62
10	QPSK	25	0	20.29	20.44	20.43	22.57	22.53	22.33
10	QPSK	25	12	20.28	20.33	20.31	22.61	22.32	22.43
10	QPSK	25	25	20.31	20.29	20.19	22.35	22.36	22.23
10	QPSK	50	0	20.25	20.22	20.14	22.41	22.43	22.34
10	16QAM	1	0	20.33	20.45	20.18	22.75	22.87	22.73



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10	16QAM	1	25	20.34	20.34	20.30	22.83	22.60	22.58
10	16QAM	1	49	20.36	20.23	20.24	22.70	22.58	22.56
10	16QAM	25	0	20.32	20.35	20.37	21.67	21.54	21.53
10	16QAM	25	12	20.21	20.22	20.27	21.68	21.47	21.57
10	16QAM	25	25	20.34	20.26	20.25	21.49	21.38	21.39
10	16QAM	50	0	20.23	20.21	20.07	21.56	21.45	21.38
10	64QAM	1	0	20.39	20.36	20.29	21.67	21.74	21.57
10	64QAM	1	25	20.29	20.38	20.23	21.66	21.45	21.55
10	64QAM	1	49	20.31	20.27	20.21	21.54	21.39	21.59
10	64QAM	25	0	20.31	20.37	20.34	20.61	20.51	20.45
10	64QAM	25	12	20.20	20.23	20.24	20.68	20.54	20.41
10	64QAM	25	25	20.31	20.30	20.20	20.48	20.38	20.39
10	64QAM	50	0	20.18	20.14	20.16	20.59	20.41	20.39
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	20.42	20.44	20.37	22.72	22.82	22.87
5	QPSK	1	12	20.36	20.36	20.30	22.67	22.71	22.75
5	QPSK	1	24	20.35	20.39	20.23	22.56	22.54	22.64
5	QPSK	12	0	20.37	20.40	20.41	22.53	22.56	22.35
5	QPSK	12	7	20.25	20.32	20.25	22.54	22.40	22.44
5	QPSK	12	13	20.27	20.34	20.29	22.34	22.27	22.24
5	QPSK	25	0	20.20	20.29	20.13	22.47	22.43	22.31
5	16QAM	1	0	20.33	20.40	20.26	22.77	22.84	22.80
5	16QAM	1	12	20.35	20.27	20.26	22.84	22.60	22.65
5	16QAM	1	24	20.36	20.29	20.22	22.72	22.55	22.61
5	16QAM	12	0	20.30	20.30	20.36	21.68	21.54	21.51
5	16QAM	12	7	20.18	20.24	20.25	21.67	21.56	21.49
5	16QAM	12	13	20.34	20.29	20.27	21.48	21.40	21.45
5	16QAM	25	0	20.20	20.13	20.14	21.61	21.46	21.39
5	64QAM	1	0	20.34	20.40	20.32	21.67	21.75	21.62
5	64QAM	1	12	20.36	20.40	20.17	21.73	21.44	21.52
5	64QAM	1	24	20.37	20.29	20.26	21.55	21.43	21.54
5	64QAM	12	0	20.27	20.36	20.30	20.67	20.51	20.42
5	64QAM	12	7	20.12	20.30	20.21	20.68	20.47	20.46
5	64QAM	12	13	20.24	20.29	20.17	20.52	20.38	20.35
5	64QAM	25	0	20.11	20.16	20.17	20.59	20.46	20.41
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	20.38	20.41	20.28	22.78	22.82	22.83
3	QPSK	1	8	20.39	20.44	20.34	22.65	22.68	22.76
3	QPSK	1	14	20.38	20.36	20.29	22.62	22.56	22.55
3	QPSK	8	0	20.35	20.39	20.35	22.62	22.36	22.34
3	QPSK	8	4	20.30	20.27	20.30	22.55	22.30	22.36
3	QPSK	8	7	20.25	20.37	20.24	22.60	22.35	22.30
3	QPSK	15	0	20.23	20.26	20.08	22.63	22.42	22.29
3	16QAM	1	0	20.39	20.45	20.25	22.65	22.70	22.74
3	16QAM	1	8	20.29	20.28	20.25	22.88	22.59	22.58
3	16QAM	1	14	20.33	20.23	20.21	22.78	22.58	22.66
3	16QAM	8	0	20.23	20.39	20.42	21.74	21.56	21.47
3	16QAM	8	4	20.15	20.20	20.24	21.74	21.46	21.42
3	16QAM	8	7	20.35	20.22	20.18	21.67	21.41	21.48
3	16QAM	15	0	20.18	20.20	20.09	21.67	21.50	21.46
3	64QAM	1	0	20.32	20.41	20.30	21.61	21.75	21.67
3	64QAM	1	8	20.39	20.36	20.18	21.88	21.60	21.62
3	64QAM	1	14	20.39	20.25	20.28	21.80	21.63	21.55
3	64QAM	8	0	20.31	20.38	20.33	20.71	20.53	20.46
3	64QAM	8	4	20.13	20.26	20.25	20.84	20.52	20.57
3	64QAM	8	7	20.31	20.30	20.13	20.76	20.53	20.49
3	64QAM	15	0	20.17	20.18	20.15	20.69	20.43	20.48
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	20.38	20.43	20.30	22.72	22.88	22.89
1.4	QPSK	1	3	20.33	20.44	20.34	22.59	22.71	22.73
1.4	QPSK	1	5	20.40	20.37	20.26	22.59	22.54	22.57
1.4	QPSK	3	0	20.28	20.42	20.39	22.51	22.57	22.37
1.4	QPSK	3	1	20.30	20.25	20.26	22.59	22.31	22.34
1.4	QPSK	3	3	20.25	20.37	20.28	22.33	22.32	22.25
1.4	QPSK	6	0	20.24	20.23	20.10	22.28	22.26	22.24
1.4	16QAM	1	0	20.35	20.41	20.18	22.59	22.49	22.57
1.4	16QAM	1	3	20.36	20.29	20.23	22.78	22.57	22.70



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1.4	16QAM	1	5	20.36	20.24	20.21	22.68	22.67	22.51
1.4	16QAM	3	0	20.28	20.32	20.38	22.29	22.26	22.29
1.4	16QAM	3	1	20.21	20.22	20.27	22.40	22.42	22.44
1.4	16QAM	3	3	20.28	20.24	20.26	22.43	22.37	22.36
1.4	16QAM	6	0	20.19	20.17	20.05	21.45	21.49	21.43
1.4	64QAM	1	0	20.33	20.32	20.34	21.44	21.57	21.52
1.4	64QAM	1	3	20.32	20.41	20.17	21.68	21.58	21.63
1.4	64QAM	1	5	20.35	20.28	20.29	21.73	21.39	21.45
1.4	64QAM	3	0	20.32	20.33	20.32	21.42	21.57	21.47
1.4	64QAM	3	1	20.20	20.25	20.24	21.54	21.50	21.50
1.4	64QAM	3	3	20.29	20.30	20.12	21.52	21.50	21.46
1.4	64QAM	6	0	20.17	20.17	20.09	20.34	20.40	20.41

Power Selection				Body-worn					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	23.48	23.50	23.49	23.48	23.50	23.49
20	QPSK	1	49	23.35	23.15	23.14	23.35	23.15	23.14
20	QPSK	1	99	23.22	23.11	23.16	23.22	23.11	23.16
20	QPSK	50	0	22.47	22.48	22.44	22.47	22.48	22.44
20	QPSK	50	24	22.43	22.25	22.24	22.43	22.25	22.24
20	QPSK	50	50	22.28	22.18	22.20	22.28	22.18	22.20
20	QPSK	100	0	22.31	22.35	22.15	22.31	22.35	22.15
20	16QAM	1	0	22.63	22.73	22.61	22.63	22.73	22.61
20	16QAM	1	49	22.70	22.49	22.47	22.70	22.49	22.47
20	16QAM	1	99	22.56	22.44	22.46	22.56	22.44	22.46
20	16QAM	50	0	21.58	21.44	21.36	21.58	21.44	21.36
20	16QAM	50	24	21.54	21.38	21.37	21.54	21.38	21.37
20	16QAM	50	50	21.40	21.27	21.28	21.40	21.27	21.28
20	16QAM	100	0	21.40	21.33	21.24	21.40	21.33	21.24
20	64QAM	1	0	21.62	21.61	21.48	21.62	21.61	21.48
20	64QAM	1	49	21.59	21.38	21.42	21.59	21.38	21.42
20	64QAM	1	99	21.39	21.30	21.40	21.39	21.30	21.40
20	64QAM	50	0	20.57	20.40	20.30	20.57	20.40	20.30
20	64QAM	50	24	20.53	20.32	20.34	20.53	20.32	20.34
20	64QAM	50	50	20.37	20.25	20.25	20.37	20.25	20.25
20	64QAM	100	0	20.43	20.34	20.26	20.43	20.34	20.26
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	23.44	23.40	23.37	23.44	23.40	23.37
15	QPSK	1	37	23.36	23.14	23.13	23.36	23.14	23.13
15	QPSK	1	74	23.39	23.17	23.16	23.39	23.17	23.16
15	QPSK	36	0	22.49	22.29	22.32	22.49	22.29	22.32
15	QPSK	36	20	22.46	22.22	22.25	22.46	22.22	22.25
15	QPSK	36	39	22.44	22.16	22.14	22.44	22.16	22.14
15	QPSK	75	0	22.47	22.22	22.22	22.47	22.22	22.22
15	16QAM	1	0	22.67	22.62	22.75	22.67	22.62	22.75
15	16QAM	1	37	22.74	22.38	22.38	22.74	22.38	22.38
15	16QAM	1	74	22.77	22.40	22.45	22.77	22.40	22.45
15	16QAM	36	0	21.58	21.37	21.37	21.58	21.37	21.37
15	16QAM	36	20	21.55	21.32	21.34	21.55	21.32	21.34
15	16QAM	36	39	21.51	21.31	21.24	21.51	21.31	21.24
15	16QAM	75	0	21.53	21.35	21.35	21.53	21.35	21.35
15	64QAM	1	0	21.62	21.69	21.66	21.62	21.69	21.66
15	64QAM	1	37	21.71	21.34	21.33	21.71	21.34	21.33
15	64QAM	1	74	21.77	21.38	21.42	21.77	21.38	21.42
15	64QAM	36	0	20.61	20.46	20.46	20.61	20.46	20.46
15	64QAM	36	20	20.58	20.34	20.39	20.58	20.34	20.39
15	64QAM	36	39	20.57	20.28	20.29	20.57	20.28	20.29
15	64QAM	75	0	20.56	20.36	20.37	20.56	20.36	20.37
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	23.36	23.29	23.23	23.36	23.29	23.23
10	QPSK	1	25	23.38	23.21	23.14	23.38	23.21	23.14
10	QPSK	1	49	23.37	23.15	23.13	23.37	23.15	23.13



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10	QPSK	25	0	22.46	22.23	22.27	22.46	22.23	22.27
10	QPSK	25	12	22.47	22.20	22.21	22.47	22.20	22.21
10	QPSK	25	25	22.39	22.19	22.15	22.39	22.19	22.15
10	QPSK	50	0	22.41	22.21	22.18	22.41	22.21	22.18
10	16QAM	1	0	22.53	22.47	22.66	22.53	22.47	22.66
10	16QAM	1	25	22.76	22.46	22.56	22.76	22.46	22.56
10	16QAM	1	49	22.77	22.43	22.40	22.77	22.43	22.40
10	16QAM	25	0	21.56	21.33	21.34	21.56	21.33	21.34
10	16QAM	25	12	21.58	21.31	21.35	21.58	21.31	21.35
10	16QAM	25	25	21.53	21.27	21.28	21.53	21.27	21.28
10	16QAM	50	0	21.52	21.30	21.31	21.52	21.30	21.31
10	64QAM	1	0	21.60	21.63	21.57	21.60	21.63	21.57
10	64QAM	1	25	21.61	21.44	21.37	21.61	21.44	21.37
10	64QAM	1	49	21.60	21.34	21.35	21.60	21.34	21.35
10	64QAM	25	0	20.54	20.33	20.37	20.54	20.33	20.37
10	64QAM	25	12	20.53	20.29	20.28	20.53	20.29	20.28
10	64QAM	25	25	20.54	20.28	20.28	20.54	20.28	20.28
10	64QAM	50	0	20.55	20.33	20.30	20.55	20.33	20.30
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	23.27	23.25	23.20	23.27	23.25	23.20
5	QPSK	1	12	23.37	23.16	23.17	23.37	23.16	23.17
5	QPSK	1	24	23.37	23.14	23.16	23.37	23.14	23.16
5	QPSK	12	0	22.40	22.22	22.18	22.40	22.22	22.18
5	QPSK	12	7	22.42	22.17	22.17	22.42	22.17	22.17
5	QPSK	12	13	22.40	22.18	22.16	22.40	22.18	22.16
5	QPSK	25	0	22.42	22.19	22.16	22.42	22.19	22.16
5	16QAM	1	0	22.44	22.48	22.57	22.44	22.48	22.57
5	16QAM	1	12	22.68	22.44	22.40	22.68	22.44	22.40
5	16QAM	1	24	22.65	22.42	22.51	22.65	22.42	22.51
5	16QAM	12	0	21.51	21.35	21.33	21.51	21.35	21.33
5	16QAM	12	7	21.57	21.29	21.29	21.57	21.29	21.29
5	16QAM	12	13	21.50	21.23	21.30	21.50	21.23	21.30
5	16QAM	25	0	21.48	21.31	21.29	21.48	21.31	21.29
5	64QAM	1	0	21.42	21.54	21.48	21.42	21.54	21.48
5	64QAM	1	12	21.65	21.44	21.44	21.65	21.44	21.44
5	64QAM	1	24	21.65	21.43	21.40	21.65	21.43	21.40
5	64QAM	12	0	20.55	20.39	20.30	20.55	20.39	20.30
5	64QAM	12	7	20.64	20.36	20.38	20.64	20.36	20.38
5	64QAM	12	13	20.57	20.30	20.27	20.57	20.30	20.27
5	64QAM	25	0	20.54	20.29	20.26	20.54	20.29	20.26
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	23.20	23.21	23.17	23.20	23.21	23.17
3	QPSK	1	8	23.39	23.17	23.16	23.39	23.17	23.16
3	QPSK	1	14	23.38	23.19	23.16	23.38	23.19	23.16
3	QPSK	8	0	22.43	22.17	22.15	22.43	22.17	22.15
3	QPSK	8	4	22.41	22.21	22.19	22.41	22.21	22.19
3	QPSK	8	7	22.39	22.19	22.12	22.39	22.19	22.12
3	QPSK	15	0	22.45	22.20	22.12	22.45	22.20	22.12
3	16QAM	1	0	22.40	22.45	22.57	22.40	22.45	22.57
3	16QAM	1	8	22.73	22.47	22.55	22.73	22.47	22.55
3	16QAM	1	14	22.65	22.38	22.41	22.65	22.38	22.41
3	16QAM	8	0	21.40	21.36	21.32	21.40	21.36	21.32
3	16QAM	8	4	21.54	21.29	21.33	21.54	21.29	21.33
3	16QAM	8	7	21.53	21.31	21.28	21.53	21.31	21.28
3	16QAM	15	0	21.48	21.29	21.27	21.48	21.29	21.27
3	64QAM	1	0	21.50	21.52	21.37	21.50	21.52	21.37
3	64QAM	1	8	21.57	21.42	21.38	21.57	21.42	21.38
3	64QAM	1	14	21.66	21.31	21.37	21.66	21.31	21.37
3	64QAM	8	0	20.51	20.28	20.28	20.51	20.28	20.28
3	64QAM	8	4	20.53	20.35	20.33	20.53	20.35	20.33
3	64QAM	8	7	20.54	20.32	20.29	20.54	20.32	20.29
3	64QAM	15	0	20.51	20.28	20.25	20.51	20.28	20.25
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	23.38	23.36	23.28	23.38	23.36	23.28
1.4	QPSK	1	3	23.44	23.40	23.37	23.44	23.40	23.37
1.4	QPSK	1	5	23.41	23.31	23.24	23.41	23.31	23.24
1.4	QPSK	3	0	23.40	23.38	23.31	23.40	23.38	23.31



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1.4	QPSK	3	1	23.44	23.39	23.40	23.44	23.39	23.40
1.4	QPSK	3	3	23.40	23.38	23.29	23.40	23.38	23.29
1.4	QPSK	6	0	22.36	22.34	22.30	22.36	22.34	22.30
1.4	16QAM	1	0	22.59	22.53	22.61	22.59	22.53	22.61
1.4	16QAM	1	3	22.78	22.65	22.74	22.78	22.65	22.74
1.4	16QAM	1	5	22.73	22.72	22.58	22.73	22.72	22.58
1.4	16QAM	3	0	22.36	22.36	22.33	22.36	22.36	22.33
1.4	16QAM	3	1	22.46	22.46	22.49	22.46	22.46	22.49
1.4	16QAM	3	3	22.43	22.39	22.41	22.43	22.39	22.41
1.4	16QAM	6	0	21.52	21.50	21.50	21.52	21.50	21.50
1.4	64QAM	1	0	21.51	21.64	21.55	21.51	21.64	21.55
1.4	64QAM	1	3	21.70	21.60	21.70	21.70	21.60	21.70
1.4	64QAM	1	5	21.78	21.49	21.55	21.78	21.49	21.55
1.4	64QAM	3	0	21.50	21.58	21.54	21.50	21.58	21.54
1.4	64QAM	3	1	21.55	21.56	21.60	21.55	21.56	21.60
1.4	64QAM	3	3	21.56	21.57	21.55	21.56	21.57	21.55
1.4	64QAM	6	0	20.41	20.49	20.41	20.41	20.49	20.41



<WiFi on>

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				16.5			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	16.30	16.32	16.22	23.48	23.50	23.49
20	QPSK	1	49	16.25	16.23	16.21	23.35	23.15	23.14
20	QPSK	1	99	16.21	16.13	16.17	23.22	23.11	23.16
20	QPSK	50	0	16.25	16.26	16.12	22.47	22.48	22.44
20	QPSK	50	24	16.24	16.19	16.05	22.43	22.25	22.24
20	QPSK	50	50	16.16	16.09	16.03	22.28	22.18	22.20
20	QPSK	100	0	16.10	16.13	16.01	22.31	22.35	22.15
20	16QAM	1	0	16.30	16.24	16.12	22.63	22.73	22.61
20	16QAM	1	49	16.23	16.13	16.21	22.70	22.49	22.47
20	16QAM	1	99	16.18	16.13	16.12	22.56	22.44	22.46
20	16QAM	50	0	16.21	16.17	16.05	21.58	21.44	21.36
20	16QAM	50	24	16.19	16.10	15.98	21.54	21.38	21.37
20	16QAM	50	50	16.08	16.08	16.03	21.40	21.27	21.28
20	16QAM	100	0	16.00	16.12	15.92	21.40	21.33	21.24
20	64QAM	1	0	16.24	16.30	16.13	21.62	21.61	21.48
20	64QAM	1	49	16.17	16.17	16.13	21.59	21.38	21.42
20	64QAM	1	99	16.11	16.08	16.11	21.39	21.30	21.40
20	64QAM	50	0	16.16	16.25	16.06	20.57	20.40	20.30
20	64QAM	50	24	16.25	16.15	16.00	20.53	20.32	20.34
20	64QAM	50	50	16.11	16.05	15.93	20.37	20.25	20.25
20	64QAM	100	0	16.03	16.03	15.97	20.43	20.34	20.26
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	16.23	16.23	16.18	23.44	23.40	23.37
15	QPSK	1	37	16.21	16.18	16.13	23.36	23.14	23.13
15	QPSK	1	74	16.19	16.07	16.16	23.39	23.17	23.16
15	QPSK	36	0	16.22	16.16	16.03	22.49	22.29	22.32
15	QPSK	36	20	16.21	16.11	15.97	22.46	22.22	22.25
15	QPSK	36	39	16.09	16.00	15.93	22.44	22.16	22.14
15	QPSK	75	0	16.00	16.04	15.93	22.47	22.22	22.22
15	16QAM	1	0	16.24	16.24	16.07	22.67	22.62	22.75
15	16QAM	1	37	16.20	16.09	16.15	22.74	22.38	22.38
15	16QAM	1	74	16.12	16.12	16.03	22.77	22.40	22.45
15	16QAM	36	0	16.11	16.17	16.01	21.58	21.37	21.37
15	16QAM	36	20	16.17	16.03	15.92	21.55	21.32	21.34
15	16QAM	36	39	15.99	16.02	16.01	21.51	21.31	21.24
15	16QAM	75	0	15.90	16.08	15.88	21.53	21.35	21.35
15	64QAM	1	0	16.21	16.28	16.07	21.62	21.69	21.66
15	64QAM	1	37	16.15	16.12	16.12	21.71	21.34	21.33
15	64QAM	1	74	16.02	15.99	16.10	21.77	21.38	21.42
15	64QAM	36	0	16.12	16.18	16.01	20.61	20.46	20.46
15	64QAM	36	20	16.19	16.06	15.93	20.58	20.34	20.39
15	64QAM	36	39	16.05	15.99	15.83	20.57	20.28	20.29
15	64QAM	75	0	16.01	15.94	15.97	20.56	20.36	20.37
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	16.23	16.31	16.17	23.36	23.29	23.23
10	QPSK	1	25	16.25	16.17	16.17	23.38	23.21	23.14
10	QPSK	1	49	16.19	16.12	16.14	23.37	23.15	23.13
10	QPSK	25	0	16.24	16.23	16.12	22.46	22.23	22.27
10	QPSK	25	12	16.17	16.14	15.97	22.47	22.20	22.21
10	QPSK	25	25	16.06	16.09	16.01	22.39	22.19	22.15
10	QPSK	50	0	16.10	16.10	16.01	22.41	22.21	22.18
10	16QAM	1	0	16.28	16.15	16.10	22.53	22.47	22.66
10	16QAM	1	25	16.20	16.09	16.18	22.76	22.46	22.56
10	16QAM	1	49	16.16	16.12	16.03	22.77	22.43	22.40
10	16QAM	25	0	16.12	16.17	15.95	21.56	21.33	21.34
10	16QAM	25	12	16.10	16.06	15.92	21.58	21.31	21.35
10	16QAM	25	25	16.02	15.99	15.96	21.53	21.27	21.28
10	16QAM	50	0	15.94	16.06	15.87	21.52	21.30	21.31
10	64QAM	1	0	16.15	16.25	16.10	21.60	21.63	21.57



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10	64QAM	1	25	16.15	16.11	16.03	21.61	21.44	21.37
10	64QAM	1	49	16.10	16.05	16.03	21.60	21.34	21.35
10	64QAM	25	0	16.15	16.22	16.06	20.54	20.33	20.37
10	64QAM	25	12	16.15	16.13	15.98	20.53	20.29	20.28
10	64QAM	25	25	16.03	16.02	15.90	20.54	20.28	20.28
10	64QAM	50	0	15.98	15.94	15.95	20.55	20.33	20.30
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	16.27	16.23	16.13	23.27	23.25	23.20
5	QPSK	1	12	16.16	16.23	16.19	23.37	23.16	23.17
5	QPSK	1	24	16.21	16.06	16.09	23.37	23.14	23.16
5	QPSK	12	0	16.18	16.24	16.04	22.40	22.22	22.18
5	QPSK	12	7	16.21	16.16	16.03	22.42	22.17	22.17
5	QPSK	12	13	16.15	16.09	15.96	22.40	22.18	22.16
5	QPSK	25	0	16.10	16.07	15.98	22.42	22.19	22.16
5	16QAM	1	0	16.28	16.16	16.08	22.44	22.48	22.57
5	16QAM	1	12	16.19	16.12	16.13	22.68	22.44	22.40
5	16QAM	1	24	16.09	16.05	16.04	22.65	22.42	22.51
5	16QAM	12	0	16.15	16.12	16.05	21.51	21.35	21.33
5	16QAM	12	7	16.15	16.05	15.88	21.57	21.29	21.29
5	16QAM	12	13	16.05	16.04	15.93	21.50	21.23	21.30
5	16QAM	25	0	16.00	16.04	15.87	21.48	21.31	21.29
5	64QAM	1	0	16.24	16.20	16.11	21.42	21.54	21.48
5	64QAM	1	12	16.13	16.12	16.11	21.65	21.44	21.44
5	64QAM	1	24	16.09	15.99	16.10	21.65	21.43	21.40
5	64QAM	12	0	16.06	16.25	16.06	20.55	20.39	20.30
5	64QAM	12	7	16.20	16.09	15.97	20.64	20.36	20.38
5	64QAM	12	13	16.08	15.98	15.83	20.57	20.30	20.27
5	64QAM	25	0	15.99	16.02	15.92	20.54	20.29	20.26
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	16.30	16.29	16.14	23.20	23.21	23.17
3	QPSK	1	8	16.18	16.23	16.14	23.39	23.17	23.16
3	QPSK	1	14	16.21	16.05	16.12	23.38	23.19	23.16
3	QPSK	8	0	16.16	16.22	16.10	22.43	22.17	22.15
3	QPSK	8	4	16.22	16.19	16.00	22.41	22.21	22.19
3	QPSK	8	7	16.12	16.09	15.93	22.39	22.19	22.12
3	QPSK	15	0	16.01	16.08	15.95	22.45	22.20	22.12
3	16QAM	1	0	16.27	16.17	16.10	22.40	22.45	22.57
3	16QAM	1	8	16.23	16.05	16.21	22.73	22.47	22.55
3	16QAM	1	14	16.09	16.04	16.03	22.65	22.38	22.41
3	16QAM	8	0	16.11	16.14	15.99	21.40	21.36	21.32
3	16QAM	8	4	16.15	16.02	15.94	21.54	21.29	21.33
3	16QAM	8	7	16.00	15.99	15.99	21.53	21.31	21.28
3	16QAM	15	0	15.99	16.04	15.84	21.48	21.29	21.27
3	64QAM	1	0	16.20	16.22	16.12	21.50	21.52	21.37
3	64QAM	1	8	16.16	16.17	16.07	21.57	21.42	21.38
3	64QAM	1	14	16.09	16.01	16.09	21.66	21.31	21.37
3	64QAM	8	0	16.14	16.17	15.97	20.51	20.28	20.28
3	64QAM	8	4	16.25	16.07	15.91	20.53	20.35	20.33
3	64QAM	8	7	16.09	15.97	15.91	20.54	20.32	20.29
3	64QAM	15	0	16.02	15.97	15.96	20.51	20.28	20.25
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	16.21	16.31	16.18	23.38	23.36	23.28
1.4	QPSK	1	3	16.23	16.20	16.21	23.44	23.40	23.37
1.4	QPSK	1	5	16.20	16.08	16.16	23.41	23.31	23.24
1.4	QPSK	3	0	16.25	16.26	16.03	23.40	23.38	23.31
1.4	QPSK	3	1	16.22	16.15	16.02	23.44	23.39	23.40
1.4	QPSK	3	3	16.09	16.06	16.02	23.40	23.38	23.29
1.4	QPSK	6	0	16.05	16.12	15.99	22.36	22.34	22.30
1.4	16QAM	1	0	16.21	16.21	16.09	22.59	22.53	22.61
1.4	16QAM	1	3	16.18	16.09	16.17	22.78	22.65	22.74
1.4	16QAM	1	5	16.11	16.03	16.05	22.73	22.72	22.58
1.4	16QAM	3	0	16.19	16.13	16.00	22.36	22.36	22.33
1.4	16QAM	3	1	16.14	16.08	15.96	22.46	22.46	22.49
1.4	16QAM	3	3	15.98	16.02	16.01	22.43	22.39	22.41
1.4	16QAM	6	0	15.98	16.03	15.86	21.52	21.50	21.50
1.4	64QAM	1	0	16.19	16.24	16.13	21.51	21.64	21.55
1.4	64QAM	1	3	16.17	16.10	16.05	21.70	21.60	21.70



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1.4	64QAM	1	5	16.02	16.00	16.10	21.78	21.49	21.55
1.4	64QAM	3	0	16.15	16.16	16.04	21.50	21.58	21.54
1.4	64QAM	3	1	16.19	16.14	15.96	21.55	21.56	21.60
1.4	64QAM	3	3	16.03	16.05	15.92	21.56	21.57	21.55
1.4	64QAM	6	0	15.93	15.96	15.89	20.41	20.49	20.41

Power Selection				Hotspot					
Transmit Antenna				UAT			LAT		
Max. Power				20.5			23.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	20.44	20.49	20.38	22.80	22.92	22.89
20	QPSK	1	49	20.43	20.44	20.34	22.69	22.71	22.81
20	QPSK	1	99	20.43	20.39	20.31	22.63	22.56	22.64
20	QPSK	50	0	20.38	20.44	20.43	22.60	22.61	22.40
20	QPSK	50	24	20.31	20.34	20.31	22.62	22.40	22.44
20	QPSK	50	50	20.35	20.37	20.29	22.41	22.37	22.33
20	QPSK	100	0	20.27	20.29	20.18	22.49	22.50	22.37
20	16QAM	1	0	20.39	20.41	20.18	22.81	22.90	22.81
20	16QAM	1	49	20.35	20.32	20.26	22.84	22.67	22.67
20	16QAM	1	99	20.36	20.22	20.26	22.72	22.60	22.65
20	16QAM	50	0	20.31	20.30	20.33	21.73	21.62	21.53
20	16QAM	50	24	20.20	20.25	20.25	21.73	21.56	21.59
20	16QAM	50	50	20.30	20.30	20.19	21.56	21.45	21.45
20	16QAM	100	0	20.19	20.15	20.10	21.63	21.52	21.45
20	64QAM	1	0	20.37	20.36	20.34	21.75	21.79	21.65
20	64QAM	1	49	20.33	20.35	20.17	21.73	21.54	21.62
20	64QAM	1	99	20.41	20.23	20.21	21.61	21.48	21.59
20	64QAM	50	0	20.32	20.35	20.27	20.70	20.59	20.47
20	64QAM	50	24	20.19	20.25	20.18	20.76	20.54	20.50
20	64QAM	50	50	20.28	20.31	20.14	20.55	20.48	20.43
20	64QAM	100	0	20.12	20.10	20.15	20.65	20.48	20.48
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	20.38	20.40	20.32	22.70	22.87	22.83
15	QPSK	1	37	20.35	20.43	20.24	22.63	22.61	22.78
15	QPSK	1	74	20.37	20.34	20.26	22.53	22.49	22.63
15	QPSK	36	0	20.29	20.35	20.43	22.52	22.57	22.36
15	QPSK	36	20	20.28	20.26	20.26	22.62	22.35	22.40
15	QPSK	36	39	20.29	20.27	20.20	22.32	22.36	22.31
15	QPSK	75	0	20.17	20.28	20.11	22.46	22.49	22.35
15	16QAM	1	0	20.40	20.41	20.22	22.80	22.91	22.72
15	16QAM	1	37	20.32	20.29	20.23	22.88	22.60	22.67
15	16QAM	1	74	20.32	20.21	20.20	22.67	22.55	22.63
15	16QAM	36	0	20.28	20.33	20.42	21.66	21.58	21.51
15	16QAM	36	20	20.18	20.18	20.22	21.68	21.47	21.58
15	16QAM	36	39	20.25	20.26	20.23	21.56	21.37	21.43
15	16QAM	75	0	20.20	20.19	20.14	21.60	21.49	21.36
15	64QAM	1	0	20.38	20.38	20.35	21.72	21.73	21.64
15	64QAM	1	37	20.39	20.42	20.24	21.66	21.45	21.54
15	64QAM	1	74	20.33	20.31	20.27	21.52	21.38	21.52
15	64QAM	36	0	20.30	20.39	20.26	20.64	20.56	20.43
15	64QAM	36	20	20.17	20.24	20.21	20.74	20.50	20.42
15	64QAM	36	39	20.33	20.35	20.14	20.54	20.42	20.34
15	64QAM	75	0	20.11	20.09	20.10	20.57	20.40	20.38
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	20.42	20.41	20.33	22.70	22.88	22.88
10	QPSK	1	25	20.36	20.39	20.31	22.66	22.68	22.81
10	QPSK	1	49	20.38	20.32	20.25	22.54	22.46	22.62
10	QPSK	25	0	20.29	20.44	20.43	22.57	22.53	22.33
10	QPSK	25	12	20.28	20.33	20.31	22.61	22.32	22.43
10	QPSK	25	25	20.31	20.29	20.19	22.35	22.36	22.23
10	QPSK	50	0	20.25	20.22	20.14	22.41	22.43	22.34
10	16QAM	1	0	20.33	20.45	20.18	22.75	22.87	22.73
10	16QAM	1	25	20.34	20.34	20.30	22.83	22.60	22.58
10	16QAM	1	49	20.36	20.23	20.24	22.70	22.58	22.56



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10	16QAM	25	0	20.32	20.35	20.37	21.67	21.54	21.53
10	16QAM	25	12	20.21	20.22	20.27	21.68	21.47	21.57
10	16QAM	25	25	20.34	20.26	20.25	21.49	21.38	21.39
10	16QAM	50	0	20.23	20.21	20.07	21.56	21.45	21.38
10	64QAM	1	0	20.39	20.36	20.29	21.67	21.74	21.57
10	64QAM	1	25	20.29	20.38	20.23	21.66	21.45	21.55
10	64QAM	1	49	20.31	20.27	20.21	21.54	21.39	21.59
10	64QAM	25	0	20.31	20.37	20.34	20.61	20.51	20.45
10	64QAM	25	12	20.20	20.23	20.24	20.68	20.54	20.41
10	64QAM	25	25	20.31	20.30	20.20	20.48	20.38	20.39
10	64QAM	50	0	20.18	20.14	20.16	20.59	20.41	20.39
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	20.42	20.44	20.37	22.72	22.82	22.87
5	QPSK	1	12	20.36	20.36	20.30	22.67	22.71	22.75
5	QPSK	1	24	20.35	20.39	20.23	22.56	22.54	22.64
5	QPSK	12	0	20.37	20.40	20.41	22.53	22.56	22.35
5	QPSK	12	7	20.25	20.32	20.25	22.54	22.40	22.44
5	QPSK	12	13	20.27	20.34	20.29	22.34	22.27	22.24
5	QPSK	25	0	20.20	20.29	20.13	22.47	22.43	22.31
5	16QAM	1	0	20.33	20.40	20.26	22.77	22.84	22.80
5	16QAM	1	12	20.35	20.27	20.26	22.84	22.60	22.65
5	16QAM	1	24	20.36	20.29	20.22	22.72	22.55	22.61
5	16QAM	12	0	20.30	20.30	20.36	21.68	21.54	21.51
5	16QAM	12	7	20.18	20.24	20.25	21.67	21.56	21.49
5	16QAM	12	13	20.34	20.29	20.27	21.48	21.40	21.45
5	16QAM	25	0	20.20	20.13	20.14	21.61	21.46	21.39
5	64QAM	1	0	20.34	20.40	20.32	21.67	21.75	21.62
5	64QAM	1	12	20.36	20.40	20.17	21.73	21.44	21.52
5	64QAM	1	24	20.37	20.29	20.26	21.55	21.43	21.54
5	64QAM	12	0	20.27	20.36	20.30	20.67	20.51	20.42
5	64QAM	12	7	20.12	20.30	20.21	20.68	20.47	20.46
5	64QAM	12	13	20.24	20.29	20.17	20.52	20.38	20.35
5	64QAM	25	0	20.11	20.16	20.17	20.59	20.46	20.41
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	20.38	20.41	20.28	22.78	22.82	22.83
3	QPSK	1	8	20.39	20.44	20.34	22.65	22.68	22.76
3	QPSK	1	14	20.38	20.36	20.29	22.62	22.56	22.55
3	QPSK	8	0	20.35	20.39	20.35	22.62	22.36	22.34
3	QPSK	8	4	20.30	20.27	20.30	22.55	22.30	22.36
3	QPSK	8	7	20.25	20.37	20.24	22.60	22.35	22.30
3	QPSK	15	0	20.23	20.26	20.08	22.63	22.42	22.29
3	16QAM	1	0	20.39	20.45	20.25	22.65	22.70	22.74
3	16QAM	1	8	20.29	20.28	20.25	22.88	22.59	22.58
3	16QAM	1	14	20.33	20.23	20.21	22.78	22.58	22.66
3	16QAM	8	0	20.23	20.39	20.42	21.74	21.56	21.47
3	16QAM	8	4	20.15	20.20	20.24	21.74	21.46	21.42
3	16QAM	8	7	20.35	20.22	20.18	21.67	21.41	21.48
3	16QAM	15	0	20.18	20.20	20.09	21.67	21.50	21.46
3	64QAM	1	0	20.32	20.41	20.30	21.61	21.75	21.67
3	64QAM	1	8	20.39	20.36	20.18	21.88	21.60	21.62
3	64QAM	1	14	20.39	20.25	20.28	21.80	21.63	21.55
3	64QAM	8	0	20.31	20.38	20.33	20.71	20.53	20.46
3	64QAM	8	4	20.13	20.26	20.25	20.84	20.52	20.57
3	64QAM	8	7	20.31	20.30	20.13	20.76	20.53	20.49
3	64QAM	15	0	20.17	20.18	20.15	20.69	20.43	20.48
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	20.38	20.43	20.30	22.72	22.88	22.89
1.4	QPSK	1	3	20.33	20.44	20.34	22.59	22.71	22.73
1.4	QPSK	1	5	20.40	20.37	20.26	22.59	22.54	22.57
1.4	QPSK	3	0	20.28	20.42	20.39	22.51	22.57	22.37
1.4	QPSK	3	1	20.30	20.25	20.26	22.59	22.31	22.34
1.4	QPSK	3	3	20.25	20.37	20.28	22.33	22.32	22.25
1.4	QPSK	6	0	20.24	20.23	20.10	22.28	22.26	22.24
1.4	16QAM	1	0	20.35	20.41	20.18	22.59	22.49	22.57
1.4	16QAM	1	3	20.36	20.29	20.23	22.78	22.57	22.70
1.4	16QAM	1	5	20.36	20.24	20.21	22.68	22.67	22.51
1.4	16QAM	3	0	20.28	20.32	20.38	22.29	22.26	22.29



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1.4	16QAM	3	1	20.21	20.22	20.27	22.40	22.42	22.44
1.4	16QAM	3	3	20.28	20.24	20.26	22.43	22.37	22.36
1.4	16QAM	6	0	20.19	20.17	20.05	21.45	21.49	21.43
1.4	64QAM	1	0	20.33	20.32	20.34	21.44	21.57	21.52
1.4	64QAM	1	3	20.32	20.41	20.17	21.68	21.58	21.63
1.4	64QAM	1	5	20.35	20.28	20.29	21.73	21.39	21.45
1.4	64QAM	3	0	20.32	20.33	20.32	21.42	21.57	21.47
1.4	64QAM	3	1	20.20	20.25	20.24	21.54	21.50	21.50
1.4	64QAM	3	3	20.29	20.30	20.12	21.52	21.50	21.46
1.4	64QAM	6	0	20.17	20.17	20.09	20.34	20.40	20.41

Power Selection				Body-worn					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	23.48	23.50	23.49	23.48	23.50	23.49
20	QPSK	1	49	23.35	23.15	23.14	23.35	23.15	23.14
20	QPSK	1	99	23.22	23.11	23.16	23.22	23.11	23.16
20	QPSK	50	0	22.47	22.48	22.44	22.47	22.48	22.44
20	QPSK	50	24	22.43	22.25	22.24	22.43	22.25	22.24
20	QPSK	50	50	22.28	22.18	22.20	22.28	22.18	22.20
20	QPSK	100	0	22.31	22.35	22.15	22.31	22.35	22.15
20	16QAM	1	0	22.63	22.73	22.61	22.63	22.73	22.61
20	16QAM	1	49	22.70	22.49	22.47	22.70	22.49	22.47
20	16QAM	1	99	22.56	22.44	22.46	22.56	22.44	22.46
20	16QAM	50	0	21.58	21.44	21.36	21.58	21.44	21.36
20	16QAM	50	24	21.54	21.38	21.37	21.54	21.38	21.37
20	16QAM	50	50	21.40	21.27	21.28	21.40	21.27	21.28
20	16QAM	100	0	21.40	21.33	21.24	21.40	21.33	21.24
20	64QAM	1	0	21.62	21.61	21.48	21.62	21.61	21.48
20	64QAM	1	49	21.59	21.38	21.42	21.59	21.38	21.42
20	64QAM	1	99	21.39	21.30	21.40	21.39	21.30	21.40
20	64QAM	50	0	20.57	20.40	20.30	20.57	20.40	20.30
20	64QAM	50	24	20.53	20.32	20.34	20.53	20.32	20.34
20	64QAM	50	50	20.37	20.25	20.25	20.37	20.25	20.25
20	64QAM	100	0	20.43	20.34	20.26	20.43	20.34	20.26
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	23.44	23.40	23.37	23.44	23.40	23.37
15	QPSK	1	37	23.36	23.14	23.13	23.36	23.14	23.13
15	QPSK	1	74	23.39	23.17	23.16	23.39	23.17	23.16
15	QPSK	36	0	22.49	22.29	22.32	22.49	22.29	22.32
15	QPSK	36	20	22.46	22.22	22.25	22.46	22.22	22.25
15	QPSK	36	39	22.44	22.16	22.14	22.44	22.16	22.14
15	QPSK	75	0	22.47	22.22	22.22	22.47	22.22	22.22
15	16QAM	1	0	22.67	22.62	22.75	22.67	22.62	22.75
15	16QAM	1	37	22.74	22.38	22.38	22.74	22.38	22.38
15	16QAM	1	74	22.77	22.40	22.45	22.77	22.40	22.45
15	16QAM	36	0	21.58	21.37	21.37	21.58	21.37	21.37
15	16QAM	36	20	21.55	21.32	21.34	21.55	21.32	21.34
15	16QAM	36	39	21.51	21.31	21.24	21.51	21.31	21.24
15	16QAM	75	0	21.53	21.35	21.35	21.53	21.35	21.35
15	64QAM	1	0	21.62	21.69	21.66	21.62	21.69	21.66
15	64QAM	1	37	21.71	21.34	21.33	21.71	21.34	21.33
15	64QAM	1	74	21.77	21.38	21.42	21.77	21.38	21.42
15	64QAM	36	0	20.61	20.46	20.46	20.61	20.46	20.46
15	64QAM	36	20	20.58	20.34	20.39	20.58	20.34	20.39
15	64QAM	36	39	20.57	20.28	20.29	20.57	20.28	20.29
15	64QAM	75	0	20.56	20.36	20.37	20.56	20.36	20.37
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	23.36	23.29	23.23	23.36	23.29	23.23
10	QPSK	1	25	23.38	23.21	23.14	23.38	23.21	23.14
10	QPSK	1	49	23.37	23.15	23.13	23.37	23.15	23.13
10	QPSK	25	0	22.46	22.23	22.27	22.46	22.23	22.27
10	QPSK	25	12	22.47	22.20	22.21	22.47	22.20	22.21



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10	QPSK	25	25	22.39	22.19	22.15	22.39	22.19	22.15
10	QPSK	50	0	22.41	22.21	22.18	22.41	22.21	22.18
10	16QAM	1	0	22.53	22.47	22.66	22.53	22.47	22.66
10	16QAM	1	25	22.76	22.46	22.56	22.76	22.46	22.56
10	16QAM	1	49	22.77	22.43	22.40	22.77	22.43	22.40
10	16QAM	25	0	21.56	21.33	21.34	21.56	21.33	21.34
10	16QAM	25	12	21.58	21.31	21.35	21.58	21.31	21.35
10	16QAM	25	25	21.53	21.27	21.28	21.53	21.27	21.28
10	16QAM	50	0	21.52	21.30	21.31	21.52	21.30	21.31
10	64QAM	1	0	21.60	21.63	21.57	21.60	21.63	21.57
10	64QAM	1	25	21.61	21.44	21.37	21.61	21.44	21.37
10	64QAM	1	49	21.60	21.34	21.35	21.60	21.34	21.35
10	64QAM	25	0	20.54	20.33	20.37	20.54	20.33	20.37
10	64QAM	25	12	20.53	20.29	20.28	20.53	20.29	20.28
10	64QAM	25	25	20.54	20.28	20.28	20.54	20.28	20.28
10	64QAM	50	0	20.55	20.33	20.30	20.55	20.33	20.30
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	23.27	23.25	23.20	23.27	23.25	23.20
5	QPSK	1	12	23.37	23.16	23.17	23.37	23.16	23.17
5	QPSK	1	24	23.37	23.14	23.16	23.37	23.14	23.16
5	QPSK	12	0	22.40	22.22	22.18	22.40	22.22	22.18
5	QPSK	12	7	22.42	22.17	22.17	22.42	22.17	22.17
5	QPSK	12	13	22.40	22.18	22.16	22.40	22.18	22.16
5	QPSK	25	0	22.42	22.19	22.16	22.42	22.19	22.16
5	16QAM	1	0	22.44	22.48	22.57	22.44	22.48	22.57
5	16QAM	1	12	22.68	22.44	22.40	22.68	22.44	22.40
5	16QAM	1	24	22.65	22.42	22.51	22.65	22.42	22.51
5	16QAM	12	0	21.51	21.35	21.33	21.51	21.35	21.33
5	16QAM	12	7	21.57	21.29	21.29	21.57	21.29	21.29
5	16QAM	12	13	21.50	21.23	21.30	21.50	21.23	21.30
5	16QAM	25	0	21.48	21.31	21.29	21.48	21.31	21.29
5	64QAM	1	0	21.42	21.54	21.48	21.42	21.54	21.48
5	64QAM	1	12	21.65	21.44	21.44	21.65	21.44	21.44
5	64QAM	1	24	21.65	21.43	21.40	21.65	21.43	21.40
5	64QAM	12	0	20.55	20.39	20.30	20.55	20.39	20.30
5	64QAM	12	7	20.64	20.36	20.38	20.64	20.36	20.38
5	64QAM	12	13	20.57	20.30	20.27	20.57	20.30	20.27
5	64QAM	25	0	20.54	20.29	20.26	20.54	20.29	20.26
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	23.20	23.21	23.17	23.20	23.21	23.17
3	QPSK	1	8	23.39	23.17	23.16	23.39	23.17	23.16
3	QPSK	1	14	23.38	23.19	23.16	23.38	23.19	23.16
3	QPSK	8	0	22.43	22.17	22.15	22.43	22.17	22.15
3	QPSK	8	4	22.41	22.21	22.19	22.41	22.21	22.19
3	QPSK	8	7	22.39	22.19	22.12	22.39	22.19	22.12
3	QPSK	15	0	22.45	22.20	22.12	22.45	22.20	22.12
3	16QAM	1	0	22.40	22.45	22.57	22.40	22.45	22.57
3	16QAM	1	8	22.73	22.47	22.55	22.73	22.47	22.55
3	16QAM	1	14	22.65	22.38	22.41	22.65	22.38	22.41
3	16QAM	8	0	21.40	21.36	21.32	21.40	21.36	21.32
3	16QAM	8	4	21.54	21.29	21.33	21.54	21.29	21.33
3	16QAM	8	7	21.53	21.31	21.28	21.53	21.31	21.28
3	16QAM	15	0	21.48	21.29	21.27	21.48	21.29	21.27
3	64QAM	1	0	21.50	21.52	21.37	21.50	21.52	21.37
3	64QAM	1	8	21.57	21.42	21.38	21.57	21.42	21.38
3	64QAM	1	14	21.66	21.31	21.37	21.66	21.31	21.37
3	64QAM	8	0	20.51	20.28	20.28	20.51	20.28	20.28
3	64QAM	8	4	20.53	20.35	20.33	20.53	20.35	20.33
3	64QAM	8	7	20.54	20.32	20.29	20.54	20.32	20.29
3	64QAM	15	0	20.51	20.28	20.25	20.51	20.28	20.25
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	23.38	23.36	23.28	23.38	23.36	23.28
1.4	QPSK	1	3	23.44	23.40	23.37	23.44	23.40	23.37
1.4	QPSK	1	5	23.41	23.31	23.24	23.41	23.31	23.24
1.4	QPSK	3	0	23.40	23.38	23.31	23.40	23.38	23.31
1.4	QPSK	3	1	23.44	23.39	23.40	23.44	23.39	23.40
1.4	QPSK	3	3	23.40	23.38	23.29	23.40	23.38	23.29

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1.4	QPSK	6	0	22.36	22.34	22.30	22.36	22.34	22.30
1.4	16QAM	1	0	22.59	22.53	22.61	22.59	22.53	22.61
1.4	16QAM	1	3	22.78	22.65	22.74	22.78	22.65	22.74
1.4	16QAM	1	5	22.73	22.72	22.58	22.73	22.72	22.58
1.4	16QAM	3	0	22.36	22.36	22.33	22.36	22.36	22.33
1.4	16QAM	3	1	22.46	22.46	22.49	22.46	22.46	22.49
1.4	16QAM	3	3	22.43	22.39	22.41	22.43	22.39	22.41
1.4	16QAM	6	0	21.52	21.50	21.50	21.52	21.50	21.50
1.4	64QAM	1	0	21.51	21.64	21.55	21.51	21.64	21.55
1.4	64QAM	1	3	21.70	21.60	21.70	21.70	21.60	21.70
1.4	64QAM	1	5	21.78	21.49	21.55	21.78	21.49	21.55
1.4	64QAM	3	0	21.50	21.58	21.54	21.50	21.58	21.54
1.4	64QAM	3	1	21.55	21.56	21.60	21.55	21.56	21.60
1.4	64QAM	3	3	21.56	21.57	21.55	21.56	21.57	21.55
1.4	64QAM	6	0	20.41	20.49	20.41	20.41	20.49	20.41



<LTE Band 71>

<WiFi off / Wifi on>

Power Selection				Head / Hotspot / Body-worn					
Transmit Antenna				UAT			LAT		
Max. Power				24.5			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				133222	133322	133372	133222	133322	133372
Frequency (MHz)				673	683	688	673	683	688
20	QPSK	1	0	24.45	24.05	23.86	24.45	24.05	23.86
20	QPSK	1	49	23.54	23.51	23.50	23.54	23.51	23.50
20	QPSK	1	99	23.45	23.45	23.47	23.45	23.45	23.47
20	QPSK	50	0	22.41	22.57	22.09	22.41	22.57	22.09
20	QPSK	50	24	22.00	21.85	21.76	22.00	21.85	21.76
20	QPSK	50	50	21.96	21.90	21.95	21.96	21.90	21.95
20	QPSK	100	0	22.20	22.04	21.98	22.20	22.04	21.98
20	16QAM	1	0	23.65	23.38	23.26	23.65	23.38	23.26
20	16QAM	1	49	22.36	22.00	22.15	22.36	22.00	22.15
20	16QAM	1	99	22.83	22.85	22.85	22.83	22.85	22.85
20	16QAM	50	0	21.52	21.30	21.22	21.52	21.30	21.22
20	16QAM	50	24	21.14	20.99	20.88	21.14	20.99	20.88
20	16QAM	50	50	21.07	21.01	21.05	21.07	21.01	21.05
20	16QAM	100	0	21.30	21.17	21.07	21.30	21.17	21.07
20	64QAM	1	0	22.46	22.37	22.17	22.46	22.37	22.17
20	64QAM	1	49	21.27	21.04	21.03	21.27	21.04	21.03
20	64QAM	1	99	21.75	21.74	21.81	21.75	21.74	21.81
20	64QAM	50	0	20.56	20.29	20.22	20.56	20.29	20.22
20	64QAM	50	24	20.13	20.00	19.91	20.13	20.00	19.91
20	64QAM	50	50	20.10	20.02	20.06	20.10	20.02	20.06
20	64QAM	100	0	20.31	20.19	20.09	20.31	20.19	20.09
Channel				133197	133297	133397	133197	133297	133397
Frequency (MHz)				670.5	680.5	690.5	670.5	680.5	690.5
15	QPSK	1	0	24.29	23.93	23.52	24.29	23.93	23.52
15	QPSK	1	37	23.35	22.95	22.85	23.35	22.95	22.85
15	QPSK	1	74	23.54	23.38	23.28	23.54	23.38	23.28
15	QPSK	36	0	22.76	22.33	22.15	22.76	22.33	22.15
15	QPSK	36	20	22.46	22.08	21.98	22.46	22.08	21.98
15	QPSK	36	39	22.35	22.11	21.95	22.35	22.11	21.95
15	QPSK	75	0	22.54	22.16	22.06	22.54	22.16	22.06
15	16QAM	1	0	23.50	23.31	22.99	23.50	23.31	22.99
15	16QAM	1	37	22.68	22.23	22.21	22.68	22.23	22.21
15	16QAM	1	74	22.93	22.76	22.54	22.93	22.76	22.54
15	16QAM	36	0	21.85	21.41	21.22	21.85	21.41	21.22
15	16QAM	36	20	21.56	21.22	21.02	21.56	21.22	21.02
15	16QAM	36	39	21.47	21.14	21.06	21.47	21.14	21.06
15	16QAM	75	0	21.66	21.30	21.19	21.66	21.30	21.19
15	64QAM	1	0	22.50	22.18	21.86	22.50	22.18	21.86
15	64QAM	1	37	21.56	21.21	21.17	21.56	21.21	21.17
15	64QAM	1	74	21.87	21.80	21.48	21.87	21.80	21.48
15	64QAM	36	0	20.86	20.43	20.27	20.86	20.43	20.27
15	64QAM	36	20	20.58	20.23	20.12	20.58	20.23	20.12
15	64QAM	36	39	20.49	20.25	20.09	20.49	20.25	20.09
15	64QAM	75	0	20.66	20.28	20.20	20.66	20.28	20.20
Channel				133172	133272	133422	133172	133272	133422
Frequency (MHz)				668	678	693	668	678	693
10	QPSK	1	0	24.09	23.67	23.38	24.09	23.67	23.38
10	QPSK	1	25	23.74	23.42	23.19	23.74	23.42	23.19
10	QPSK	1	49	23.59	23.25	23.16	23.59	23.25	23.16
10	QPSK	25	0	22.93	22.55	22.24	22.93	22.55	22.24
10	QPSK	25	12	22.73	22.34	22.18	22.73	22.34	22.18
10	QPSK	25	25	22.66	22.26	22.10	22.66	22.26	22.10
10	QPSK	50	0	22.71	22.31	22.14	22.71	22.31	22.14
10	16QAM	1	0	23.42	23.11	22.67	23.42	23.11	22.67
10	16QAM	1	25	23.11	22.74	22.45	23.11	22.74	22.45
10	16QAM	1	49	22.98	22.69	22.36	22.98	22.69	22.36
10	16QAM	25	0	21.98	21.67	21.34	21.98	21.67	21.34
10	16QAM	25	12	21.88	21.48	21.27	21.88	21.48	21.27
10	16QAM	25	25	21.73	21.38	21.18	21.73	21.38	21.18



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10	16QAM	50	0	21.81	21.49	21.27	21.81	21.49	21.27
10	64QAM	1	0	22.31	22.02	21.58	22.31	22.02	21.58
10	64QAM	1	25	22.03	21.73	21.32	22.03	21.73	21.32
10	64QAM	1	49	21.89	21.64	21.35	21.89	21.64	21.35
10	64QAM	25	0	21.05	20.64	20.33	21.05	20.64	20.33
10	64QAM	25	12	20.87	20.46	20.35	20.87	20.46	20.35
10	64QAM	25	25	20.78	20.41	20.22	20.78	20.41	20.22
10	64QAM	50	0	20.85	20.52	20.28	20.85	20.52	20.28
Channel				133147	133247	133447	133147	133247	133447
Frequency (MHz)				665.5	675.5	695.5	665.5	675.5	695.5
5	QPSK	1	0	24.04	23.68	23.14	24.04	23.68	23.14
5	QPSK	1	12	23.85	23.51	23.19	23.85	23.51	23.19
5	QPSK	1	24	23.76	23.42	23.13	23.76	23.42	23.13
5	QPSK	12	0	22.91	22.54	22.17	22.91	22.54	22.17
5	QPSK	12	7	22.90	22.52	22.23	22.90	22.52	22.23
5	QPSK	12	13	22.85	22.46	22.17	22.85	22.46	22.17
5	QPSK	25	0	22.89	22.54	22.05	22.89	22.54	22.05
5	16QAM	1	0	23.41	23.02	22.39	23.41	23.02	22.39
5	16QAM	1	12	23.18	22.92	22.53	23.18	22.92	22.53
5	16QAM	1	24	23.13	22.88	22.56	23.13	22.88	22.56
5	16QAM	12	0	22.03	21.64	21.31	22.03	21.64	21.31
5	16QAM	12	7	21.99	21.64	21.36	21.99	21.64	21.36
5	16QAM	12	13	22.01	21.56	21.28	22.01	21.56	21.28
5	16QAM	25	0	21.99	21.62	21.16	21.99	21.62	21.16
5	64QAM	1	0	22.34	22.01	21.36	22.34	22.01	21.36
5	64QAM	1	12	22.10	21.80	21.38	22.10	21.80	21.38
5	64QAM	1	24	22.09	21.78	21.41	22.09	21.78	21.41
5	64QAM	12	0	21.08	20.70	20.28	21.08	20.70	20.28
5	64QAM	12	7	21.05	20.71	20.39	21.05	20.71	20.39
5	64QAM	12	13	21.05	20.62	20.27	21.05	20.62	20.27
5	64QAM	25	0	20.99	20.62	20.19	20.99	20.62	20.19

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

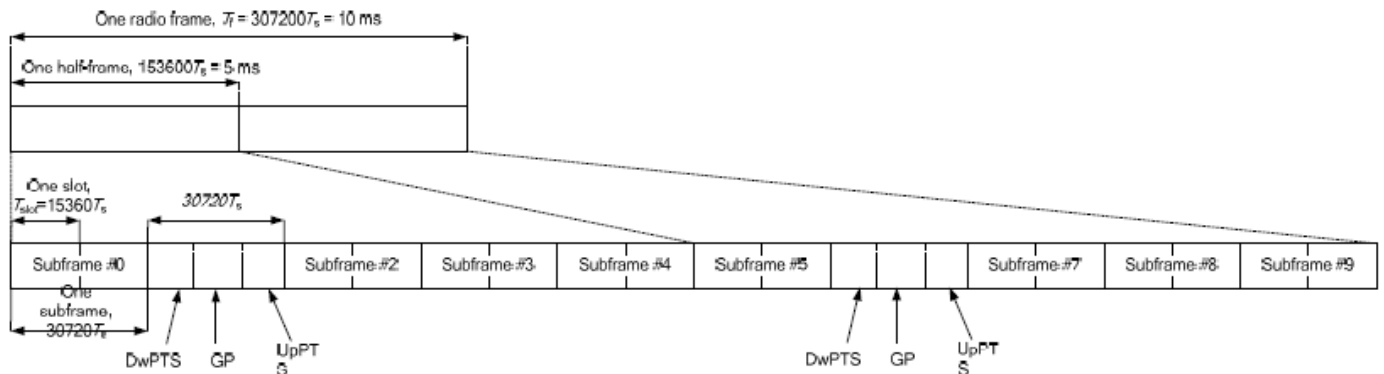


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

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

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

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

Special subframe (30720·T _s): Normal cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~4	7.13%	8.33%
	5~9	14.3%	16.7%

Special subframe(30720·T _s): Extended cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~3	7.13%	8.33%
	4~7	14.3%	16.7%

The highest duty factor is resulted from:

- Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
- The device supports Power Class 3 uplink-downlink configurations 0 and 6, and Power Class 2 uplink-downlink configurations 1 to 5 operations for LTE Band 41.
- The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1, for Power Class 3 operation is 63.3% using UL-DL configuration 0. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR among all exposure condition.



<LTE Band 38>

SAR for LTE B38 is covered by LTE B41 due to overlapping frequency range, less or same maximum tune-up limit and the same channel bandwidth

<LTE Band 41 Power Class 3>

<WiFi off>

Power Selection				Head									
Transmit Antenna				UAT					LAT				
Max. Power				21.5					25.2				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	20.46	20.57	20.45	20.16	19.83	24.70	24.65	24.60	24.59	24.52
20	QPSK	1	49	20.38	20.42	20.44	20.10	19.70	24.42	24.43	24.57	24.35	24.40
20	QPSK	1	99	20.31	20.39	20.35	19.98	19.63	24.42	24.38	24.45	24.23	24.37
20	QPSK	50	0	20.45	20.54	20.49	20.18	20.50	23.69	23.64	23.68	23.47	23.68
20	QPSK	50	24	20.43	20.51	20.48	20.15	20.48	23.48	23.51	23.67	23.44	23.66
20	QPSK	50	50	20.46	20.50	20.47	20.05	20.46	23.50	23.50	23.60	23.28	23.61
20	QPSK	100	0	20.51	20.52	20.46	20.14	20.47	23.68	23.52	23.67	23.43	23.32
20	16QAM	1	0	20.75	20.55	20.77	20.38	19.68	23.81	23.77	23.95	23.78	23.25
20	16QAM	1	49	20.62	20.57	20.74	20.31	19.73	23.57	23.57	23.68	23.43	23.40
20	16QAM	1	99	20.54	20.53	20.57	20.24	19.55	23.47	23.49	23.60	23.37	23.44
20	16QAM	50	0	20.78	20.80	20.76	20.38	20.70	22.65	22.74	22.88	22.61	22.99
20	16QAM	50	24	20.68	20.74	20.70	20.37	20.76	22.58	22.62	22.79	22.57	22.88
20	16QAM	50	50	20.67	20.69	20.72	20.31	20.66	22.61	22.57	22.69	22.40	22.74
20	16QAM	100	0	20.77	20.69	20.68	20.39	20.65	22.67	22.61	22.77	22.54	22.52
20	64QAM	1	0	20.45	20.30	20.59	20.10	19.95	22.40	22.36	22.58	22.36	22.20
20	64QAM	1	49	20.36	20.34	20.49	20.07	19.80	22.17	22.16	22.33	22.09	22.87
20	64QAM	1	99	20.20	20.24	20.28	19.97	19.63	22.11	22.12	22.19	21.98	22.03
20	64QAM	50	0	20.74	20.67	20.77	20.36	20.70	21.66	21.74	21.90	21.59	21.95
20	64QAM	50	24	20.69	20.67	20.72	20.36	20.71	21.57	21.62	21.78	21.55	21.91
20	64QAM	50	50	20.70	20.66	20.71	20.28	20.68	21.59	21.55	21.68	21.38	21.73
20	64QAM	100	0	20.75	20.70	20.77	20.33	20.76	21.65	21.58	21.77	21.54	21.59
Channel				39725	40173	40620	41068	41515	39725	40173	40620	39725	40173
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	2503.5	2548.3	2593	2503.5	2548.3
15	QPSK	1	0	20.45	20.42	20.37	20.08	19.83	24.60	24.50	24.61	24.41	24.59
15	QPSK	1	37	20.30	20.40	20.42	20.06	19.69	24.53	24.36	24.47	24.13	24.60
15	QPSK	1	74	20.23	20.39	20.26	19.98	19.59	24.48	24.26	24.39	24.09	24.65
15	QPSK	36	0	20.47	20.51	20.49	20.12	20.44	23.61	23.47	23.62	23.27	23.66
15	QPSK	36	20	20.39	20.50	20.42	20.11	20.45	23.59	23.38	23.55	23.19	23.66
15	QPSK	36	39	20.37	20.49	20.43	20.02	20.41	23.51	23.29	23.45	23.08	23.63
15	QPSK	75	0	20.43	20.48	20.38	20.10	20.39	23.54	23.40	23.56	23.18	23.40
15	16QAM	1	0	20.68	20.47	20.74	20.33	19.68	23.85	23.62	23.81	23.56	23.80
15	16QAM	1	37	20.59	20.50	20.64	20.25	19.63	23.66	23.46	23.59	23.19	23.70
15	16QAM	1	74	20.45	20.50	20.57	20.15	19.56	23.57	23.35	23.51	23.21	23.70
15	16QAM	36	0	20.73	20.73	20.68	20.28	20.67	22.67	22.50	22.68	22.37	22.72
15	16QAM	36	20	20.63	20.70	20.60	20.31	20.67	22.63	22.45	22.62	22.26	22.70
15	16QAM	36	39	20.58	20.63	20.62	20.29	20.59	22.56	22.33	22.51	22.14	22.67
15	16QAM	75	0	20.71	20.69	20.66	20.32	20.60	22.64	22.49	22.64	22.27	22.60
15	64QAM	1	0	20.41	20.28	20.52	20.09	19.95	22.44	22.24	22.42	22.12	22.42
15	64QAM	1	37	20.32	20.26	20.40	20.05	19.76	22.28	22.07	22.20	21.84	22.31
15	64QAM	1	74	20.11	20.17	20.21	19.92	19.62	22.21	21.98	22.14	21.80	22.37
15	64QAM	36	0	20.66	20.65	20.68	20.36	20.67	21.71	21.44	21.70	21.40	21.76
15	64QAM	36	20	20.66	20.65	20.63	20.31	20.65	21.66	21.48	21.65	21.27	21.73
15	64QAM	36	39	20.65	20.65	20.64	20.20	20.64	21.59	21.26	21.54	21.15	21.70
15	64QAM	75	0	20.71	20.60	20.75	20.24	20.66	21.67	21.48	21.68	21.30	21.64
Channel				39700	40160	40620	41080	41540	39700	40160	40620	41080	41540
Frequency (MHz)				2501	2547	2593	2639	2685	2501	2547	2593	2639	2685
10	QPSK	1	0	20.44	20.34	20.44	20.13	19.73	24.53	24.31	24.50	24.18	24.60
10	QPSK	1	25	20.34	20.42	20.36	20.04	19.65	24.48	24.30	24.42	24.13	24.61
10	QPSK	1	49	20.31	20.35	20.27	19.94	19.61	24.45	24.23	24.34	24.01	24.69
10	QPSK	25	0	20.55	20.49	20.48	20.15	20.44	23.49	23.28	23.47	23.15	23.59
10	QPSK	25	12	20.40	20.50	20.39	20.05	20.39	23.53	23.36	23.44	23.08	23.54
10	QPSK	25	25	20.42	20.46	20.38	19.97	20.45	23.46	23.23	23.37	23.10	23.61



FCC SAR TEST REPORT

Report No. : FA820225-02

10	QPSK	50	0	20.46	20.49	20.36	20.06	20.43	23.49	23.32	23.45	23.08	23.46
10	16QAM	1	0	20.66	20.50	20.76	20.34	19.61	23.70	23.49	23.64	23.34	23.82
10	16QAM	1	25	20.53	20.53	20.64	20.31	19.65	23.61	23.45	23.55	23.26	23.72
10	16QAM	1	49	20.45	20.52	20.57	20.21	19.59	23.51	23.32	23.43	23.11	23.71
10	16QAM	25	0	20.76	20.71	20.72	20.30	20.69	22.61	22.34	22.56	22.23	22.71
10	16QAM	25	12	20.66	20.64	20.66	20.30	20.70	22.59	22.41	22.54	22.19	22.63
10	16QAM	25	25	20.66	20.60	20.62	20.25	20.60	22.51	22.32	22.44	22.20	22.71
10	16QAM	50	0	20.71	20.64	20.60	20.31	20.55	22.61	22.42	22.56	22.21	22.65
10	64QAM	1	0	20.45	20.21	20.50	20.08	19.88	22.33	22.10	22.27	21.94	22.47
10	64QAM	1	25	20.36	20.31	20.47	19.98	19.80	22.23	22.05	22.16	21.86	22.32
10	64QAM	1	49	20.18	20.18	20.18	19.88	19.57	22.16	21.97	22.10	21.77	22.40
10	64QAM	25	0	20.70	20.66	20.77	20.32	20.64	21.63	21.43	21.64	21.28	21.76
10	64QAM	25	12	20.65	20.61	20.70	20.34	20.65	21.63	21.46	21.59	21.25	21.69
10	64QAM	25	25	20.68	20.62	20.62	20.26	20.61	21.59	21.40	21.54	21.24	21.78
10	64QAM	50	0	20.68	20.70	20.70	20.26	20.72	21.59	21.44	21.53	21.18	21.65
Channel				39675	40148	40620	41093	41565	39675	40148	40620	41093	41565
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8	2593	2640.30	2687.5
5	QPSK	1	0	20.46	20.33	20.43	20.13	19.74	24.51	24.28	24.43	24.04	24.65
5	QPSK	1	12	20.35	20.32	20.36	20.01	19.62	24.48	24.19	24.38	24.12	24.59
5	QPSK	1	24	20.29	20.30	20.35	19.91	19.61	24.38	24.22	24.29	24.00	24.53
5	QPSK	12	0	20.51	20.46	20.47	20.11	20.44	23.52	23.26	23.44	23.09	23.67
5	QPSK	12	7	20.37	20.42	20.41	20.11	20.46	23.52	23.22	23.42	23.17	23.65
5	QPSK	12	13	20.38	20.45	20.39	19.96	20.36	23.45	23.31	23.37	23.13	23.59
5	QPSK	25	0	20.46	20.44	20.42	20.14	20.42	23.48	23.32	23.39	23.05	23.60
5	16QAM	1	0	20.66	20.52	20.77	20.29	19.65	23.60	23.39	23.55	23.17	23.74
5	16QAM	1	12	20.61	20.55	20.72	20.30	19.65	23.56	23.35	23.54	23.27	23.72
5	16QAM	1	24	20.52	20.53	20.47	20.15	19.56	23.55	23.37	23.48	23.18	23.65
5	16QAM	12	0	20.70	20.75	20.76	20.36	20.65	22.52	22.27	22.50	22.15	22.71
5	16QAM	12	7	20.64	20.73	20.61	20.30	20.73	22.53	22.29	22.47	22.20	22.64
5	16QAM	12	13	20.60	20.69	20.72	20.25	20.56	22.52	22.30	22.57	22.17	22.61
5	16QAM	25	0	20.76	20.64	20.66	20.30	20.59	22.58	22.40	22.63	22.15	22.70
5	64QAM	1	0	20.39	20.25	20.57	20.10	19.90	22.24	22.02	22.19	21.80	22.35
5	64QAM	1	12	20.35	20.31	20.42	20.06	19.71	22.20	21.97	22.13	21.82	22.33
5	64QAM	1	24	20.12	20.16	20.25	19.96	19.62	22.20	22.00	22.10	21.82	22.31
5	64QAM	12	0	20.65	20.64	20.74	20.36	20.68	21.63	21.37	21.54	21.22	21.75
5	64QAM	12	7	20.68	20.61	20.68	20.36	20.61	21.62	21.37	21.54	21.29	21.75
5	64QAM	12	13	20.65	20.66	20.71	20.28	20.67	21.55	21.41	21.50	21.23	21.71
5	64QAM	25	0	20.68	20.69	20.76	20.33	20.66	21.63	21.45	21.54	21.20	21.77

Power Selection				Hotspot / Body-worn									
Transmit Antenna				UAT					LAT				
Max. Power				25.2					25.2				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	24.70	24.65	24.60	24.59	24.52	24.70	24.65	24.60	24.59	24.52
20	QPSK	1	49	24.42	24.43	24.57	24.35	24.40	24.42	24.43	24.57	24.35	24.40
20	QPSK	1	99	24.42	24.38	24.45	24.23	24.37	24.42	24.38	24.45	24.23	24.37
20	QPSK	50	0	23.69	23.64	23.68	23.47	23.68	23.69	23.64	23.68	23.47	23.68
20	QPSK	50	24	23.48	23.51	23.67	23.44	23.66	23.48	23.51	23.67	23.44	23.66
20	QPSK	50	50	23.50	23.50	23.60	23.28	23.61	23.50	23.50	23.60	23.28	23.61
20	QPSK	100	0	23.68	23.52	23.67	23.43	23.32	23.68	23.52	23.67	23.43	23.32
20	16QAM	1	0	23.81	23.77	23.95	23.78	23.25	23.81	23.77	23.95	23.78	23.25
20	16QAM	1	49	23.57	23.57	23.68	23.43	23.40	23.57	23.57	23.68	23.43	23.40
20	16QAM	1	99	23.47	23.49	23.60	23.37	23.44	23.47	23.49	23.60	23.37	23.44
20	16QAM	50	0	22.65	22.74	22.88	22.61	22.99	22.65	22.74	22.88	22.61	22.99
20	16QAM	50	24	22.58	22.62	22.79	22.57	22.88	22.58	22.62	22.79	22.57	22.88
20	16QAM	50	50	22.61	22.57	22.69	22.40	22.74	22.61	22.57	22.69	22.40	22.74
20	16QAM	100	0	22.67	22.61	22.77	22.54	22.52	22.67	22.61	22.77	22.54	22.52
20	64QAM	1	0	22.40	22.36	22.58	22.36	22.20	22.40	22.36	22.58	22.36	22.20
20	64QAM	1	49	22.17	22.16	22.33	22.09	22.87	22.17	22.16	22.33	22.09	22.87
20	64QAM	1	99	22.11	22.12	22.19	21.98	22.03	22.11	22.12	22.19	21.98	22.03
20	64QAM	50	0	21.66	21.74	21.90	21.59	21.95	21.66	21.74	21.90	21.59	21.95
20	64QAM	50	24	21.57	21.62	21.78	21.55	21.91	21.57	21.62	21.78	21.55	21.91
20	64QAM	50	50	21.59	21.55	21.68	21.38	21.73	21.59	21.55	21.68	21.38	21.73



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20	64QAM	100	0	21.65	21.58	21.77	21.54	21.59	21.65	21.58	21.77	21.54	21.59
Channel				39725	40173	40620	39725	40173	40620	39725	40173	39725	40173
Frequency (MHz)				2503.5	2548.3	2593	2503.5	2548.3	2593	2503.5	2548.3	2503.5	2548.3
15	QPSK	1	0	24.60	24.50	24.61	24.41	24.59	24.60	24.50	24.61	24.41	24.59
15	QPSK	1	37	24.53	24.36	24.47	24.13	24.60	24.53	24.36	24.47	24.13	24.60
15	QPSK	1	74	24.48	24.26	24.39	24.09	24.65	24.48	24.26	24.39	24.09	24.65
15	QPSK	36	0	23.61	23.47	23.62	23.27	23.66	23.61	23.47	23.62	23.27	23.66
15	QPSK	36	20	23.59	23.38	23.55	23.19	23.66	23.59	23.38	23.55	23.19	23.66
15	QPSK	36	39	23.51	23.29	23.45	23.08	23.63	23.51	23.29	23.45	23.08	23.63
15	QPSK	75	0	23.54	23.40	23.56	23.18	23.40	23.54	23.40	23.56	23.18	23.40
15	16QAM	1	0	23.85	23.62	23.81	23.56	23.80	23.85	23.62	23.81	23.56	23.80
15	16QAM	1	37	23.66	23.46	23.59	23.19	23.70	23.66	23.46	23.59	23.19	23.70
15	16QAM	1	74	23.57	23.35	23.51	23.21	23.70	23.57	23.35	23.51	23.21	23.70
15	16QAM	36	0	22.67	22.50	22.68	22.37	22.72	22.67	22.50	22.68	22.37	22.72
15	16QAM	36	20	22.63	22.45	22.62	22.26	22.70	22.63	22.45	22.62	22.26	22.70
15	16QAM	36	39	22.56	22.33	22.51	22.14	22.67	22.56	22.33	22.51	22.14	22.67
15	16QAM	75	0	22.64	22.49	22.64	22.27	22.60	22.64	22.49	22.64	22.27	22.60
15	64QAM	1	0	22.44	22.24	22.42	22.12	22.42	22.44	22.24	22.42	22.12	22.42
15	64QAM	1	37	22.28	22.07	22.20	21.84	22.31	22.28	22.07	22.20	21.84	22.31
15	64QAM	1	74	22.21	21.98	22.14	21.80	22.37	22.21	21.98	22.14	21.80	22.37
15	64QAM	36	0	21.71	21.44	21.70	21.40	21.76	21.71	21.44	21.70	21.40	21.76
15	64QAM	36	20	21.66	21.48	21.65	21.27	21.73	21.66	21.48	21.65	21.27	21.73
15	64QAM	36	39	21.59	21.26	21.54	21.15	21.70	21.59	21.26	21.54	21.15	21.70
15	64QAM	75	0	21.67	21.48	21.68	21.30	21.64	21.67	21.48	21.68	21.30	21.64
Channel				39700	40160	40620	39700	40160	40620	41080	41540	39700	40160
Frequency (MHz)				2501	2547	2593	2501	2547	2593	2639	2685	2501	2547
10	QPSK	1	0	24.53	24.31	24.50	24.18	24.60	24.53	24.31	24.50	24.18	24.60
10	QPSK	1	25	24.48	24.30	24.42	24.13	24.61	24.48	24.30	24.42	24.13	24.61
10	QPSK	1	49	24.45	24.23	24.34	24.01	24.69	24.45	24.23	24.34	24.01	24.69
10	QPSK	25	0	23.49	23.28	23.47	23.15	23.59	23.49	23.28	23.47	23.15	23.59
10	QPSK	25	12	23.53	23.36	23.44	23.08	23.54	23.53	23.36	23.44	23.08	23.54
10	QPSK	25	25	23.46	23.23	23.37	23.10	23.61	23.46	23.23	23.37	23.10	23.61
10	QPSK	50	0	23.49	23.32	23.45	23.08	23.46	23.49	23.32	23.45	23.08	23.46
10	16QAM	1	0	23.70	23.49	23.64	23.34	23.82	23.70	23.49	23.64	23.34	23.82
10	16QAM	1	25	23.61	23.45	23.55	23.26	23.72	23.61	23.45	23.55	23.26	23.72
10	16QAM	1	49	23.51	23.32	23.43	23.11	23.71	23.51	23.32	23.43	23.11	23.71
10	16QAM	25	0	22.61	22.34	22.56	22.23	22.71	22.61	22.34	22.56	22.23	22.71
10	16QAM	25	12	22.59	22.41	22.54	22.19	22.63	22.59	22.41	22.54	22.19	22.63
10	16QAM	25	25	22.51	22.32	22.44	22.20	22.71	22.51	22.32	22.44	22.20	22.71
10	16QAM	50	0	22.61	22.42	22.56	22.21	22.65	22.61	22.42	22.56	22.21	22.65
10	64QAM	1	0	22.33	22.10	22.27	21.94	22.47	22.33	22.10	22.27	21.94	22.47
10	64QAM	1	25	22.23	22.05	22.16	21.86	22.32	22.23	22.05	22.16	21.86	22.32
10	64QAM	1	49	22.16	21.97	22.10	21.77	22.40	22.16	21.97	22.10	21.77	22.40
10	64QAM	25	0	21.63	21.43	21.64	21.28	21.76	21.63	21.43	21.64	21.28	21.76
10	64QAM	25	12	21.63	21.46	21.59	21.25	21.69	21.63	21.46	21.59	21.25	21.69
10	64QAM	25	25	21.59	21.40	21.54	21.24	21.78	21.59	21.40	21.54	21.24	21.78
10	64QAM	50	0	21.59	21.44	21.53	21.18	21.65	21.59	21.44	21.53	21.18	21.65
Channel				39675	40148	40620	39675	40148	40620	41093	41565	39675	40148
Frequency (MHz)				2498.5	2545.8	2593	2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8
5	QPSK	1	0	24.51	24.28	24.43	24.04	24.65	24.51	24.28	24.43	24.04	24.65
5	QPSK	1	12	24.48	24.19	24.38	24.12	24.59	24.48	24.19	24.38	24.12	24.59
5	QPSK	1	24	24.38	24.22	24.29	24.00	24.53	24.38	24.22	24.29	24.00	24.53
5	QPSK	12	0	23.52	23.26	23.44	23.09	23.67	23.52	23.26	23.44	23.09	23.67
5	QPSK	12	7	23.52	23.22	23.42	23.17	23.65	23.52	23.22	23.42	23.17	23.65
5	QPSK	12	13	23.45	23.31	23.37	23.13	23.59	23.45	23.31	23.37	23.13	23.59
5	QPSK	25	0	23.48	23.32	23.39	23.05	23.60	23.48	23.32	23.39	23.05	23.60
5	16QAM	1	0	23.60	23.39	23.55	23.17	23.74	23.60	23.39	23.55	23.17	23.74
5	16QAM	1	12	23.56	23.35	23.54	23.27	23.72	23.56	23.35	23.54	23.27	23.72
5	16QAM	1	24	23.55	23.37	23.48	23.18	23.65	23.55	23.37	23.48	23.18	23.65
5	16QAM	12	0	22.52	22.27	22.50	22.15	22.71	22.52	22.27	22.50	22.15	22.71
5	16QAM	12	7	22.53	22.29	22.47	22.20	22.64	22.53	22.29	22.47	22.20	22.64
5	16QAM	12	13	22.52	22.30	22.57	22.17	22.61	22.52	22.30	22.57	22.17	22.61
5	16QAM	25	0	22.58	22.40	22.63	22.15	22.70	22.58	22.40	22.63	22.15	22.70
5	64QAM	1	0	22.24	22.02	22.19	21.80	22.35	22.24	22.02	22.19	21.80	22.35
5	64QAM	1	12	22.20	21.97	22.13	21.82	22.33	22.20	21.97	22.13	21.82	22.33
5	64QAM	1	24	22.20	22.00	22.10	21.82	22.31	22.20	22.00	22.10	21.82	22.31
5	64QAM	12	0	21.63	21.37	21.54	21.22	21.75	21.63	21.37	21.54	21.22	21.75
5	64QAM	12	7	21.62	21.37	21.54	21.29	21.75	21.62	21.37	21.54	21.29	21.75
5	64QAM	12	13	21.55	21.41	21.50	21.23	21.71	21.55	21.41	21.50	21.23	21.71
5	64QAM	25	0	21.63	21.45	21.54	21.20	21.77	21.63	21.45	21.54	21.20	21.77



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<Wifi on>

Power Selection				Head									
Transmit Antenna				UAT					LAT				
Max. Power				21.0					25.2				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	20.46	20.57	20.45	20.16	19.83	24.70	24.65	24.60	24.59	24.52
20	QPSK	1	49	20.38	20.42	20.44	20.10	19.70	24.42	24.43	24.57	24.35	24.40
20	QPSK	1	99	20.31	20.39	20.35	19.98	19.63	24.42	24.38	24.45	24.23	24.37
20	QPSK	50	0	20.45	20.54	20.49	20.18	20.50	23.69	23.64	23.68	23.47	23.68
20	QPSK	50	24	20.43	20.51	20.48	20.15	20.48	23.48	23.51	23.67	23.44	23.66
20	QPSK	50	50	20.46	20.50	20.47	20.05	20.46	23.50	23.50	23.60	23.28	23.61
20	QPSK	100	0	20.51	20.52	20.46	20.14	20.47	23.68	23.52	23.67	23.43	23.32
20	16QAM	1	0	20.75	20.55	20.77	20.38	19.68	23.81	23.77	23.95	23.78	23.25
20	16QAM	1	49	20.62	20.57	20.74	20.31	19.73	23.57	23.57	23.68	23.43	23.40
20	16QAM	1	99	20.54	20.53	20.57	20.24	19.55	23.47	23.49	23.60	23.37	23.44
20	16QAM	50	0	20.78	20.80	20.76	20.38	20.70	22.65	22.74	22.88	22.61	22.99
20	16QAM	50	24	20.68	20.74	20.70	20.37	20.76	22.58	22.62	22.79	22.57	22.88
20	16QAM	50	50	20.67	20.69	20.72	20.31	20.66	22.61	22.57	22.69	22.40	22.74
20	16QAM	100	0	20.77	20.69	20.68	20.39	20.65	22.67	22.61	22.77	22.54	22.52
20	64QAM	1	0	20.45	20.30	20.59	20.10	19.95	22.40	22.36	22.58	22.36	22.20
20	64QAM	1	49	20.36	20.34	20.49	20.07	19.80	22.17	22.16	22.33	22.09	22.87
20	64QAM	1	99	20.20	20.24	20.28	19.97	19.63	22.11	22.12	22.19	21.98	22.03
20	64QAM	50	0	20.74	20.67	20.77	20.36	20.70	21.66	21.74	21.90	21.59	21.95
20	64QAM	50	24	20.69	20.67	20.72	20.36	20.71	21.57	21.62	21.78	21.55	21.91
20	64QAM	50	50	20.70	20.66	20.71	20.28	20.68	21.59	21.55	21.68	21.38	21.73
20	64QAM	100	0	20.75	20.70	20.77	20.33	20.76	21.65	21.58	21.77	21.54	21.59
Channel				39725	40173	40620	41068	41515	39725	40173	40620	40620	39725
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	2503.5	2548.3	2593	2593	2503.5
15	QPSK	1	0	20.45	20.42	20.37	20.08	19.83	24.60	24.50	24.61	24.41	24.59
15	QPSK	1	37	20.30	20.40	20.42	20.06	19.69	24.53	24.36	24.47	24.13	24.60
15	QPSK	1	74	20.23	20.39	20.26	19.98	19.59	24.48	24.26	24.39	24.09	24.65
15	QPSK	36	0	20.47	20.51	20.49	20.12	20.44	23.61	23.47	23.62	23.27	23.66
15	QPSK	36	20	20.39	20.50	20.42	20.11	20.45	23.59	23.38	23.55	23.19	23.66
15	QPSK	36	39	20.37	20.49	20.43	20.02	20.41	23.51	23.29	23.45	23.08	23.63
15	QPSK	75	0	20.43	20.48	20.38	20.10	20.39	23.54	23.40	23.56	23.18	23.40
15	16QAM	1	0	20.68	20.47	20.74	20.33	19.68	23.85	23.62	23.81	23.56	23.80
15	16QAM	1	37	20.59	20.50	20.64	20.25	19.63	23.66	23.46	23.59	23.19	23.70
15	16QAM	1	74	20.45	20.50	20.57	20.15	19.56	23.57	23.35	23.51	23.21	23.70
15	16QAM	36	0	20.73	20.73	20.68	20.28	20.67	22.67	22.50	22.68	22.37	22.72
15	16QAM	36	20	20.63	20.70	20.60	20.31	20.67	22.63	22.45	22.62	22.26	22.70
15	16QAM	36	39	20.58	20.63	20.62	20.29	20.59	22.56	22.33	22.51	22.14	22.67
15	16QAM	75	0	20.71	20.69	20.66	20.32	20.60	22.64	22.49	22.64	22.27	22.60
15	64QAM	1	0	20.41	20.28	20.52	20.09	19.95	22.44	22.24	22.42	22.12	22.42
15	64QAM	1	37	20.32	20.26	20.40	20.05	19.76	22.28	22.07	22.20	21.84	22.31
15	64QAM	1	74	20.11	20.17	20.21	19.92	19.62	22.21	21.98	22.14	21.80	22.37
15	64QAM	36	0	20.66	20.65	20.68	20.36	20.67	21.71	21.44	21.70	21.40	21.76
15	64QAM	36	20	20.66	20.65	20.63	20.31	20.65	21.66	21.48	21.65	21.27	21.73
15	64QAM	36	39	20.65	20.65	20.64	20.20	20.64	21.59	21.26	21.54	21.15	21.70
15	64QAM	75	0	20.71	20.60	20.75	20.24	20.66	21.67	21.48	21.68	21.30	21.64
Channel				39700	40160	40620	41080	41540	39700	40160	40620	40620	41080
Frequency (MHz)				2501	2547	2593	2639	2685	2501	2547	2593	2593	2639
10	QPSK	1	0	20.44	20.34	20.44	20.13	19.73	24.53	24.31	24.50	24.18	24.60
10	QPSK	1	25	20.34	20.42	20.36	20.04	19.65	24.48	24.30	24.42	24.13	24.61
10	QPSK	1	49	20.31	20.35	20.27	19.94	19.61	24.45	24.23	24.34	24.01	24.69
10	QPSK	25	0	20.55	20.49	20.48	20.15	20.44	23.49	23.28	23.47	23.15	23.59
10	QPSK	25	12	20.40	20.50	20.39	20.05	20.39	23.53	23.36	23.44	23.08	23.54
10	QPSK	25	25	20.42	20.46	20.38	19.97	20.45	23.46	23.23	23.37	23.10	23.61
10	QPSK	50	0	20.46	20.49	20.36	20.06	20.43	23.49	23.32	23.45	23.08	23.46
10	16QAM	1	0	20.66	20.50	20.76	20.34	19.61	23.70	23.49	23.64	23.34	23.82
10	16QAM	1	25	20.53	20.53	20.64	20.31	19.65	23.61	23.45	23.55	23.26	23.72
10	16QAM	1	49	20.45	20.52	20.57	20.21	19.59	23.51	23.32	23.43	23.11	23.71
10	16QAM	25	0	20.76	20.71	20.72	20.30	20.69	22.61	22.34	22.56	22.23	22.71
10	16QAM	25	12	20.66	20.64	20.66	20.30	20.70	22.59	22.41	22.54	22.19	22.63
10	16QAM	25	25	20.66	20.60	20.62	20.25	20.60	22.51	22.32	22.44	22.20	22.71
10	16QAM	50	0	20.71	20.64	20.60	20.31	20.55	22.61	22.42	22.56	22.21	22.65



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10	64QAM	1	0	20.45	20.21	20.50	20.08	19.88	22.33	22.10	22.27	21.94	22.47
10	64QAM	1	25	20.36	20.31	20.47	19.98	19.80	22.23	22.05	22.16	21.86	22.32
10	64QAM	1	49	20.18	20.18	20.18	19.88	19.57	22.16	21.97	22.10	21.77	22.40
10	64QAM	25	0	20.70	20.66	20.77	20.32	20.64	21.63	21.43	21.64	21.28	21.76
10	64QAM	25	12	20.65	20.61	20.70	20.34	20.65	21.63	21.46	21.59	21.25	21.69
10	64QAM	25	25	20.68	20.62	20.62	20.26	20.61	21.59	21.40	21.54	21.24	21.78
10	64QAM	50	0	20.68	20.70	20.70	20.26	20.72	21.59	21.44	21.53	21.18	21.65
Channel				39675	40148	40620	41093	41565	39675	40148	40620	40620	41093
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8	2593	2593	2640.30
5	QPSK	1	0	20.46	20.33	20.43	20.13	19.74	24.51	24.28	24.43	24.04	24.65
5	QPSK	1	12	20.35	20.32	20.36	20.01	19.62	24.48	24.19	24.38	24.12	24.59
5	QPSK	1	24	20.29	20.30	20.35	19.91	19.61	24.38	24.22	24.29	24.00	24.53
5	QPSK	12	0	20.51	20.46	20.47	20.11	20.44	23.52	23.26	23.44	23.09	23.67
5	QPSK	12	7	20.37	20.42	20.41	20.11	20.46	23.52	23.22	23.42	23.17	23.65
5	QPSK	12	13	20.38	20.45	20.39	19.96	20.36	23.45	23.31	23.37	23.13	23.59
5	QPSK	25	0	20.46	20.44	20.42	20.14	20.42	23.48	23.32	23.39	23.05	23.60
5	16QAM	1	0	20.66	20.52	20.77	20.29	19.65	23.60	23.39	23.55	23.17	23.74
5	16QAM	1	12	20.61	20.55	20.72	20.30	19.65	23.56	23.35	23.54	23.27	23.72
5	16QAM	1	24	20.52	20.53	20.47	20.15	19.56	23.55	23.37	23.48	23.18	23.65
5	16QAM	12	0	20.70	20.75	20.76	20.36	20.65	22.52	22.27	22.50	22.15	22.71
5	16QAM	12	7	20.64	20.73	20.61	20.30	20.73	22.53	22.29	22.47	22.20	22.64
5	16QAM	12	13	20.60	20.69	20.72	20.25	20.56	22.52	22.30	22.57	22.17	22.61
5	16QAM	25	0	20.76	20.64	20.66	20.30	20.59	22.58	22.40	22.63	22.15	22.70
5	64QAM	1	0	20.39	20.25	20.57	20.10	19.90	22.24	22.02	22.19	21.80	22.35
5	64QAM	1	12	20.35	20.31	20.42	20.06	19.71	22.20	21.97	22.13	21.82	22.33
5	64QAM	1	24	20.12	20.16	20.25	19.96	19.62	22.20	22.00	22.10	21.82	22.31
5	64QAM	12	0	20.65	20.64	20.74	20.36	20.68	21.63	21.37	21.54	21.22	21.75
5	64QAM	12	7	20.68	20.61	20.68	20.36	20.61	21.62	21.37	21.54	21.29	21.75
5	64QAM	12	13	20.65	20.66	20.71	20.28	20.67	21.55	21.41	21.50	21.23	21.71
5	64QAM	25	0	20.68	20.69	20.76	20.33	20.66	21.63	21.45	21.54	21.20	21.77

Power Selection				Hotspot / Body-worn									
Transmit Antenna				UAT					LAT				
Max. Power				25.2					25.2				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	24.70	24.65	24.60	24.59	24.52	24.70	24.65	24.60	24.59	24.52
20	QPSK	1	49	24.42	24.43	24.57	24.35	24.40	24.42	24.43	24.57	24.35	24.40
20	QPSK	1	99	24.42	24.38	24.45	24.23	24.37	24.42	24.38	24.45	24.23	24.37
20	QPSK	50	0	23.69	23.64	23.68	23.47	23.68	23.69	23.64	23.68	23.47	23.68
20	QPSK	50	24	23.48	23.51	23.67	23.44	23.66	23.48	23.51	23.67	23.44	23.66
20	QPSK	50	50	23.50	23.50	23.60	23.28	23.61	23.50	23.50	23.60	23.28	23.61
20	QPSK	100	0	23.68	23.52	23.67	23.43	23.32	23.68	23.52	23.67	23.43	23.32
20	16QAM	1	0	23.81	23.77	23.95	23.78	23.25	23.81	23.77	23.95	23.78	23.25
20	16QAM	1	49	23.57	23.57	23.68	23.43	23.40	23.57	23.57	23.68	23.43	23.40
20	16QAM	1	99	23.47	23.49	23.60	23.37	23.44	23.47	23.49	23.60	23.37	23.44
20	16QAM	50	0	22.65	22.74	22.88	22.61	22.99	22.65	22.74	22.88	22.61	22.99
20	16QAM	50	24	22.58	22.62	22.79	22.57	22.88	22.58	22.62	22.79	22.57	22.88
20	16QAM	50	50	22.61	22.57	22.69	22.40	22.74	22.61	22.57	22.69	22.40	22.74
20	16QAM	100	0	22.67	22.61	22.77	22.54	22.52	22.67	22.61	22.77	22.54	22.52
20	64QAM	1	0	22.40	22.36	22.58	22.36	22.20	22.40	22.36	22.58	22.36	22.20
20	64QAM	1	49	22.17	22.16	22.33	22.09	22.87	22.17	22.16	22.33	22.09	22.87
20	64QAM	1	99	22.11	22.12	22.19	21.98	22.03	22.11	22.12	22.19	21.98	22.03
20	64QAM	50	0	21.66	21.74	21.90	21.59	21.95	21.66	21.74	21.90	21.59	21.95
20	64QAM	50	24	21.57	21.62	21.78	21.55	21.91	21.57	21.62	21.78	21.55	21.91
20	64QAM	50	50	21.59	21.55	21.68	21.38	21.73	21.59	21.55	21.68	21.38	21.73
20	64QAM	100	0	21.65	21.58	21.77	21.54	21.59	21.65	21.58	21.77	21.54	21.59
Channel				39725	40173	40620	40620	39725	40173	39725	40173	40620	39725
Frequency (MHz)				2503.5	2548.3	2593	2593	2503.5	2548.3	2503.5	2548.3	2593	2503.5
15	QPSK	1	0	24.60	24.50	24.61	24.41	24.59	24.60	24.50	24.61	24.41	24.59
15	QPSK	1	37	24.53	24.36	24.47	24.13	24.60	24.53	24.36	24.47	24.13	24.60
15	QPSK	1	74	24.48	24.26	24.39	24.09	24.65	24.48	24.26	24.39	24.09	24.65
15	QPSK	36	0	23.61	23.47	23.62	23.27	23.66	23.61	23.47	23.62	23.27	23.66
15	QPSK	36	20	23.59	23.38	23.55	23.19	23.66	23.59	23.38	23.55	23.19	23.66



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15	QPSK	36	39	23.51	23.29	23.45	23.08	23.63	23.51	23.29	23.45	23.08	23.63
15	QPSK	75	0	23.54	23.40	23.56	23.18	23.40	23.54	23.40	23.56	23.18	23.40
15	16QAM	1	0	23.85	23.62	23.81	23.56	23.80	23.85	23.62	23.81	23.56	23.80
15	16QAM	1	37	23.66	23.46	23.59	23.19	23.70	23.66	23.46	23.59	23.19	23.70
15	16QAM	1	74	23.57	23.35	23.51	23.21	23.70	23.57	23.35	23.51	23.21	23.70
15	16QAM	36	0	22.67	22.50	22.68	22.37	22.72	22.67	22.50	22.68	22.37	22.72
15	16QAM	36	20	22.63	22.45	22.62	22.26	22.70	22.63	22.45	22.62	22.26	22.70
15	16QAM	36	39	22.56	22.33	22.51	22.14	22.67	22.56	22.33	22.51	22.14	22.67
15	16QAM	75	0	22.64	22.49	22.64	22.27	22.60	22.64	22.49	22.64	22.27	22.60
15	64QAM	1	0	22.44	22.24	22.42	22.12	22.42	22.44	22.24	22.42	22.12	22.42
15	64QAM	1	37	22.28	22.07	22.20	21.84	22.31	22.28	22.07	22.20	21.84	22.31
15	64QAM	1	74	22.21	21.98	22.14	21.80	22.37	22.21	21.98	22.14	21.80	22.37
15	64QAM	36	0	21.71	21.44	21.70	21.40	21.76	21.71	21.44	21.70	21.40	21.76
15	64QAM	36	20	21.66	21.48	21.65	21.27	21.73	21.66	21.48	21.65	21.27	21.73
15	64QAM	36	39	21.59	21.26	21.54	21.15	21.70	21.59	21.26	21.54	21.15	21.70
15	64QAM	75	0	21.67	21.48	21.68	21.30	21.64	21.67	21.48	21.68	21.30	21.64
Channel				39700	40160	40620	40620	41080	41540	39700	40160	40620	41080
Frequency (MHz)				2501	2547	2593	2593	2639	2685	2501	2547	2593	2639
10	QPSK	1	0	24.53	24.31	24.50	24.18	24.60	24.53	24.31	24.50	24.18	24.60
10	QPSK	1	25	24.48	24.30	24.42	24.13	24.61	24.48	24.30	24.42	24.13	24.61
10	QPSK	1	49	24.45	24.23	24.34	24.01	24.69	24.45	24.23	24.34	24.01	24.69
10	QPSK	25	0	23.49	23.28	23.47	23.15	23.59	23.49	23.28	23.47	23.15	23.59
10	QPSK	25	12	23.53	23.36	23.44	23.08	23.54	23.53	23.36	23.44	23.08	23.54
10	QPSK	25	25	23.46	23.23	23.37	23.10	23.61	23.46	23.23	23.37	23.10	23.61
10	QPSK	50	0	23.49	23.32	23.45	23.08	23.46	23.49	23.32	23.45	23.08	23.46
10	16QAM	1	0	23.70	23.49	23.64	23.34	23.82	23.70	23.49	23.64	23.34	23.82
10	16QAM	1	25	23.61	23.45	23.55	23.26	23.72	23.61	23.45	23.55	23.26	23.72
10	16QAM	1	49	23.51	23.32	23.43	23.11	23.71	23.51	23.32	23.43	23.11	23.71
10	16QAM	25	0	22.61	22.34	22.56	22.23	22.71	22.61	22.34	22.56	22.23	22.71
10	16QAM	25	12	22.59	22.41	22.54	22.19	22.63	22.59	22.41	22.54	22.19	22.63
10	16QAM	25	25	22.51	22.32	22.44	22.20	22.71	22.51	22.32	22.44	22.20	22.71
10	16QAM	50	0	22.61	22.42	22.56	22.21	22.65	22.61	22.42	22.56	22.21	22.65
10	64QAM	1	0	22.33	22.10	22.27	21.94	22.47	22.33	22.10	22.27	21.94	22.47
10	64QAM	1	25	22.23	22.05	22.16	21.86	22.32	22.23	22.05	22.16	21.86	22.32
10	64QAM	1	49	22.16	21.97	22.10	21.77	22.40	22.16	21.97	22.10	21.77	22.40
10	64QAM	25	0	21.63	21.43	21.64	21.28	21.76	21.63	21.43	21.64	21.28	21.76
10	64QAM	25	12	21.63	21.46	21.59	21.25	21.69	21.63	21.46	21.59	21.25	21.69
10	64QAM	25	25	21.59	21.40	21.54	21.24	21.78	21.59	21.40	21.54	21.24	21.78
10	64QAM	50	0	21.59	21.44	21.53	21.18	21.65	21.59	21.44	21.53	21.18	21.65
Channel				39675	40148	40620	40620	41093	41565	39675	40148	40620	41093
Frequency (MHz)				2498.5	2545.8	2593	2593	2640.30	2687.5	2498.5	2545.8	2593	2640.30
5	QPSK	1	0	24.51	24.28	24.43	24.04	24.65	24.51	24.28	24.43	24.04	24.65
5	QPSK	1	12	24.48	24.19	24.38	24.12	24.59	24.48	24.19	24.38	24.12	24.59
5	QPSK	1	24	24.38	24.22	24.29	24.00	24.53	24.38	24.22	24.29	24.00	24.53
5	QPSK	12	0	23.52	23.26	23.44	23.09	23.67	23.52	23.26	23.44	23.09	23.67
5	QPSK	12	7	23.52	23.22	23.42	23.17	23.65	23.52	23.22	23.42	23.17	23.65
5	QPSK	12	13	23.45	23.31	23.37	23.13	23.59	23.45	23.31	23.37	23.13	23.59
5	QPSK	25	0	23.48	23.32	23.39	23.05	23.60	23.48	23.32	23.39	23.05	23.60
5	16QAM	1	0	23.60	23.39	23.55	23.17	23.74	23.60	23.39	23.55	23.17	23.74
5	16QAM	1	12	23.56	23.35	23.54	23.27	23.72	23.56	23.35	23.54	23.27	23.72
5	16QAM	1	24	23.55	23.37	23.48	23.18	23.65	23.55	23.37	23.48	23.18	23.65
5	16QAM	12	0	22.52	22.27	22.50	22.15	22.71	22.52	22.27	22.50	22.15	22.71
5	16QAM	12	7	22.53	22.29	22.47	22.20	22.64	22.53	22.29	22.47	22.20	22.64
5	16QAM	12	13	22.52	22.30	22.57	22.17	22.61	22.52	22.30	22.57	22.17	22.61
5	16QAM	25	0	22.58	22.40	22.63	22.15	22.70	22.58	22.40	22.63	22.15	22.70
5	64QAM	1	0	22.24	22.02	22.19	21.80	22.35	22.24	22.02	22.19	21.80	22.35
5	64QAM	1	12	22.20	21.97	22.13	21.82	22.33	22.20	21.97	22.13	21.82	22.33
5	64QAM	1	24	22.20	22.00	22.10	21.82	22.31	22.20	22.00	22.10	21.82	22.31
5	64QAM	12	0	21.63	21.37	21.54	21.22	21.75	21.63	21.37	21.54	21.22	21.75
5	64QAM	12	7	21.62	21.37	21.54	21.29	21.75	21.62	21.37	21.54	21.29	21.75
5	64QAM	12	13	21.55	21.41	21.50	21.23	21.71	21.55	21.41	21.50	21.23	21.71
5	64QAM	25	0	21.63	21.45	21.54	21.20	21.77	21.63	21.45	21.54	21.20	21.77



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Report No. : FA820225-02

<LTE Band 41 Power Class 2>

<WiFi off >

Power Selection				Head									
Transmit Antenna				UAT					LAT				
Max. Power				22.5					27.0				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	21.34	21.46	21.36	21.00	21.35	25.38	25.57	25.64	25.70	25.17
20	QPSK	1	49	21.24	21.28	21.35	20.94	21.29	25.22	25.39	25.44	25.50	25.74
20	QPSK	1	99	21.22	21.32	21.26	20.93	21.46	25.16	25.32	25.27	25.32	25.02
20	QPSK	50	0	21.30	21.49	21.42	21.09	21.33	24.33	24.57	24.57	24.55	24.46
20	QPSK	50	24	21.33	21.44	21.38	21.13	21.37	24.37	24.46	24.46	24.42	24.36
20	QPSK	50	50	21.38	21.47	21.38	20.91	21.41	24.27	24.42	24.37	24.35	24.23
20	QPSK	100	0	21.39	21.50	21.38	20.98	21.31	24.36	24.35	24.46	24.40	24.00
20	16QAM	1	0	21.50	21.52	21.72	21.35	21.00	24.35	24.55	24.59	24.68	24.01
20	16QAM	1	49	21.44	21.43	21.66	21.13	21.02	24.18	24.34	24.38	24.45	24.64
20	16QAM	1	99	21.53	21.37	21.51	21.19	21.02	24.23	24.30	24.34	24.39	24.00
20	16QAM	50	0	21.67	21.52	21.64	21.28	21.58	23.47	23.68	23.68	23.67	23.63
20	16QAM	50	24	21.54	21.61	21.58	21.26	21.59	23.50	23.58	23.60	23.54	23.55
20	16QAM	50	50	21.48	21.60	21.60	21.25	21.56	23.41	23.54	23.48	23.47	23.47
20	16QAM	100	0	21.68	21.58	21.52	21.34	21.49	23.48	23.56	23.58	23.50	23.19
20	64QAM	1	0	21.35	21.16	21.45	21.03	20.84	23.26	23.44	23.54	23.58	23.18
20	64QAM	1	49	21.27	21.15	21.32	21.00	20.68	23.10	23.26	23.33	23.39	23.84
20	64QAM	1	99	21.05	21.24	21.17	20.83	20.51	23.15	23.26	23.26	23.29	23.00
20	64QAM	50	0	21.68	21.56	21.66	21.32	21.60	22.45	22.66	22.68	22.65	22.58
20	64QAM	50	24	21.58	21.50	21.60	21.33	21.62	22.48	22.55	22.60	22.52	22.55
20	64QAM	50	50	21.50	21.55	21.71	21.22	21.51	22.38	22.51	22.47	22.45	22.43
20	64QAM	100	0	21.59	21.51	21.65	21.21	21.60	22.48	22.56	22.59	22.51	22.17
Channel				39725	40173	40620	41068	41515	39725	40173	40620	39725	40173
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	2503.5	2548.3	2593	2503.5	2548.3
15	QPSK	1	0	21.32	21.37	21.22	20.98	20.64	25.37	25.36	25.41	25.30	25.38
15	QPSK	1	37	21.28	21.32	21.32	20.95	20.64	25.21	25.19	25.20	25.13	25.18
15	QPSK	1	74	21.11	21.31	21.14	20.95	20.52	25.25	25.06	25.15	25.09	25.17
15	QPSK	36	0	21.32	21.44	21.43	20.97	21.38	24.32	24.35	24.31	24.17	24.35
15	QPSK	36	20	21.37	21.41	21.33	20.93	21.40	24.37	24.26	24.24	24.19	24.26
15	QPSK	36	39	21.32	21.38	21.33	20.92	21.28	24.30	24.15	24.18	24.05	24.22
15	QPSK	75	0	21.38	21.40	21.31	20.99	21.24	24.36	24.24	24.24	24.17	24.03
15	16QAM	1	0	21.51	21.43	21.67	21.32	20.90	24.33	24.27	24.34	24.27	24.31
15	16QAM	1	37	21.48	21.31	21.47	21.23	21.02	24.18	24.11	24.15	24.09	24.14
15	16QAM	1	74	21.36	21.34	21.51	21.03	21.05	24.21	24.01	24.10	24.05	24.09
15	16QAM	36	0	21.64	21.61	21.56	21.13	21.61	23.37	23.38	23.39	23.23	23.41
15	16QAM	36	20	21.59	21.62	21.58	21.19	21.59	23.44	23.31	23.33	23.24	23.29
15	16QAM	36	39	21.57	21.46	21.48	21.15	21.48	23.36	23.20	23.23	23.10	23.28
15	16QAM	75	0	21.64	21.59	21.55	21.25	21.57	23.48	23.34	23.35	23.26	23.29
15	64QAM	1	0	21.30	21.19	21.45	21.01	20.99	23.25	23.19	23.28	23.19	23.26
15	64QAM	1	37	21.23	21.08	21.33	20.96	21.00	23.08	23.05	23.10	23.01	23.03
15	64QAM	1	74	21.04	21.05	21.09	20.89	21.02	23.10	23.02	23.00	23.00	23.05
15	64QAM	36	0	21.49	21.62	21.58	21.31	21.51	22.44	22.41	22.41	22.28	22.46
15	64QAM	36	20	21.49	21.61	21.57	21.23	21.51	22.48	22.35	22.36	22.27	22.32
15	64QAM	36	39	21.49	21.54	21.59	21.15	21.47	22.38	22.22	22.26	22.15	22.32
15	64QAM	75	0	21.59	21.44	21.64	21.05	21.50	22.49	22.36	22.37	22.30	22.36
Channel				39700	40160	40620	41080	41540	39700	40160	40620	41080	41540
Frequency (MHz)				2501	2547	2593	2639	2685	2501	2547	2593	2639	2685
10	QPSK	1	0	21.33	21.28	21.36	21.04	21.11	25.29	25.27	25.34	25.26	25.42
10	QPSK	1	25	21.29	21.25	21.28	20.99	21.12	25.26	25.24	25.25	25.16	25.22
10	QPSK	1	49	21.29	21.27	21.26	20.78	21.20	25.17	25.11	25.16	25.11	25.27
10	QPSK	25	0	21.46	21.39	21.43	21.01	21.26	24.29	24.23	24.30	24.22	24.29
10	QPSK	25	12	21.33	21.41	21.28	20.91	21.34	24.31	24.28	24.29	24.19	24.23
10	QPSK	25	25	21.29	21.43	21.24	20.88	21.35	24.24	24.20	24.19	24.08	24.24
10	QPSK	50	0	21.36	21.35	21.21	20.93	21.38	24.28	24.29	24.27	24.16	24.12
10	16QAM	1	0	21.53	21.41	21.70	21.26	20.53	24.27	24.22	24.30	24.25	24.36
10	16QAM	1	25	21.49	21.46	21.46	21.25	20.59	24.21	24.21	24.18	24.12	24.16
10	16QAM	1	49	21.31	21.35	21.42	21.14	21.02	24.13	24.11	24.11	24.05	24.19
10	16QAM	25	0	21.68	21.51	21.68	21.19	21.51	23.42	23.33	23.41	23.33	23.38
10	16QAM	25	12	21.62	21.51	21.56	21.16	21.62	23.40	23.39	23.39	23.29	23.31



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10	16QAM	25	25	21.54	21.59	21.53	21.11	21.46	23.32	23.31	23.29	23.17	23.30
10	16QAM	50	0	21.67	21.58	21.53	21.15	21.42	23.39	23.40	23.40	23.27	23.36
10	64QAM	1	0	21.39	21.05	21.37	20.98	20.71	23.20	23.12	23.22	23.19	23.29
10	64QAM	1	25	21.30	21.29	21.39	20.88	20.63	23.15	23.14	23.17	23.06	23.09
10	64QAM	1	49	21.07	21.09	21.08	20.69	20.53	23.06	23.02	23.04	23.00	23.13
10	64QAM	25	0	21.53	21.52	21.67	21.19	21.57	22.46	22.38	22.43	22.36	22.41
10	64QAM	25	12	21.54	21.46	21.58	21.33	21.56	22.45	22.45	22.44	22.32	22.37
10	64QAM	25	25	21.62	21.57	21.51	21.12	21.52	22.40	22.38	22.36	22.22	22.35
10	64QAM	50	0	21.64	21.63	21.57	21.22	21.67	22.36	22.36	22.36	22.26	22.37
Channel				39675	40148	40620	41093	41565	39675	40148	40620	41093	41565
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8	2593	2640.30	2687.5
5	QPSK	1	0	21.29	21.21	21.35	21.08	20.68	25.28	25.21	25.31	25.20	25.27
5	QPSK	1	12	21.20	21.24	21.20	20.90	20.54	25.25	25.15	25.25	25.13	25.23
5	QPSK	1	24	21.17	21.17	21.31	20.80	20.58	25.17	25.15	25.17	25.11	25.16
5	QPSK	12	0	21.44	21.32	21.33	21.02	21.37	24.31	24.21	24.31	24.18	24.26
5	QPSK	12	7	21.26	21.32	21.26	20.96	21.36	24.34	24.21	24.31	24.20	24.25
5	QPSK	12	13	21.24	21.33	21.33	20.87	21.27	24.28	24.27	24.26	24.13	24.21
5	QPSK	25	0	21.34	21.34	21.31	21.02	21.26	24.30	24.30	24.27	24.14	24.22
5	16QAM	1	0	21.57	21.41	21.68	21.26	21.02	24.31	24.23	24.30	24.23	24.28
5	16QAM	1	12	21.52	21.37	21.64	21.18	21.22	24.31	24.20	24.32	24.19	24.30
5	16QAM	1	24	21.45	21.38	21.37	21.10	21.02	24.27	24.25	24.26	24.22	24.22
5	16QAM	12	0	21.65	21.61	21.45	21.27	21.51	23.38	23.27	23.38	23.26	23.30
5	16QAM	12	7	21.52	21.64	21.51	21.23	21.55	23.40	23.25	23.38	23.22	23.30
5	16QAM	12	13	21.45	21.67	21.68	21.19	21.47	23.34	23.33	23.31	23.16	23.27
5	16QAM	25	0	21.68	21.48	21.46	21.25	21.50	23.40	23.36	23.36	23.25	23.32
5	64QAM	1	0	21.31	21.12	21.51	21.06	20.83	23.17	23.06	23.17	23.07	23.12
5	64QAM	1	12	21.26	21.31	21.39	20.98	20.64	23.14	23.01	23.11	23.01	23.10
5	64QAM	1	24	21.04	20.99	21.14	20.82	20.56	23.12	23.06	23.08	23.03	23.03
5	64QAM	12	0	21.53	21.52	21.60	21.18	21.59	22.44	22.36	22.41	22.30	22.36
5	64QAM	12	7	21.57	21.56	21.58	21.28	21.59	22.45	22.31	22.42	22.31	22.39
5	64QAM	12	13	21.61	21.61	21.61	21.08	21.48	22.39	22.37	22.39	22.25	22.31
5	64QAM	25	0	21.52	21.65	21.63	21.24	21.59	22.46	22.42	22.41	22.32	22.34



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Power Selection				Hotspot / Body-worn									
Transmit Antenna				UAT					LAT				
Max. Power				27.0					27.0				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	25.38	25.57	25.64	25.70	25.17	25.38	25.57	25.64	25.70	25.17
20	QPSK	1	49	25.22	25.39	25.44	25.50	25.74	25.22	25.39	25.44	25.50	25.74
20	QPSK	1	99	25.16	25.32	25.27	25.32	25.02	25.16	25.32	25.27	25.32	25.02
20	QPSK	50	0	24.33	24.57	24.57	24.55	24.46	24.33	24.57	24.57	24.55	24.46
20	QPSK	50	24	24.37	24.46	24.46	24.42	24.36	24.37	24.46	24.46	24.42	24.36
20	QPSK	50	50	24.27	24.42	24.37	24.35	24.23	24.27	24.42	24.37	24.35	24.23
20	QPSK	100	0	24.36	24.35	24.46	24.40	24.00	24.36	24.35	24.46	24.40	24.00
20	16QAM	1	0	24.35	24.55	24.59	24.68	24.01	24.35	24.55	24.59	24.68	24.01
20	16QAM	1	49	24.18	24.34	24.38	24.45	24.64	24.18	24.34	24.38	24.45	24.64
20	16QAM	1	99	24.23	24.30	24.34	24.39	24.00	24.23	24.30	24.34	24.39	24.00
20	16QAM	50	0	23.47	23.68	23.68	23.67	23.63	23.47	23.68	23.68	23.67	23.63
20	16QAM	50	24	23.50	23.58	23.60	23.54	23.55	23.50	23.58	23.60	23.54	23.55
20	16QAM	50	50	23.41	23.54	23.48	23.47	23.47	23.41	23.54	23.48	23.47	23.47
20	16QAM	100	0	23.48	23.56	23.58	23.50	23.19	23.48	23.56	23.58	23.50	23.19
20	64QAM	1	0	23.26	23.44	23.54	23.58	23.18	23.26	23.44	23.54	23.58	23.18
20	64QAM	1	49	23.10	23.26	23.33	23.39	23.84	23.10	23.26	23.33	23.39	23.84
20	64QAM	1	99	23.15	23.26	23.26	23.29	23.00	23.15	23.26	23.26	23.29	23.00
20	64QAM	50	0	22.45	22.66	22.68	22.65	22.58	22.45	22.66	22.68	22.65	22.58
20	64QAM	50	24	22.48	22.55	22.60	22.52	22.55	22.48	22.55	22.60	22.52	22.55
20	64QAM	50	50	22.38	22.51	22.47	22.45	22.43	22.38	22.51	22.47	22.45	22.43
20	64QAM	100	0	22.48	22.56	22.59	22.51	22.17	22.48	22.56	22.59	22.51	22.17
Channel				39725	40173	40620	41068	41515	39725	40173	40620	39725	40173
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	2503.5	2548.3	2593	2503.5	2548.3
15	QPSK	1	0	25.37	25.36	25.41	25.30	25.38	25.37	25.36	25.41	25.30	25.38
15	QPSK	1	37	25.21	25.19	25.20	25.13	25.18	25.21	25.19	25.20	25.13	25.18
15	QPSK	1	74	25.25	25.06	25.15	25.09	25.17	25.25	25.06	25.15	25.09	25.17
15	QPSK	36	0	24.32	24.35	24.31	24.17	24.35	24.32	24.35	24.31	24.17	24.35
15	QPSK	36	20	24.37	24.26	24.24	24.19	24.26	24.37	24.26	24.24	24.19	24.26
15	QPSK	36	39	24.30	24.15	24.18	24.05	24.22	24.30	24.15	24.18	24.05	24.22
15	QPSK	75	0	24.36	24.24	24.24	24.17	24.03	24.36	24.24	24.24	24.17	24.03
15	16QAM	1	0	24.33	24.27	24.34	24.27	24.31	24.33	24.27	24.34	24.27	24.31
15	16QAM	1	37	24.18	24.11	24.15	24.09	24.14	24.18	24.11	24.15	24.09	24.14
15	16QAM	1	74	24.21	24.01	24.10	24.05	24.09	24.21	24.01	24.10	24.05	24.09
15	16QAM	36	0	23.37	23.38	23.39	23.23	23.41	23.37	23.38	23.39	23.23	23.41
15	16QAM	36	20	23.44	23.31	23.33	23.24	23.29	23.44	23.31	23.33	23.24	23.29
15	16QAM	36	39	23.36	23.20	23.23	23.10	23.28	23.36	23.20	23.23	23.10	23.28
15	16QAM	75	0	23.48	23.34	23.35	23.26	23.29	23.48	23.34	23.35	23.26	23.29
15	64QAM	1	0	23.25	23.19	23.28	23.19	23.26	23.25	23.19	23.28	23.19	23.26
15	64QAM	1	37	23.08	23.05	23.10	23.01	23.03	23.08	23.05	23.10	23.01	23.03
15	64QAM	1	74	23.10	23.02	23.00	23.00	23.05	23.10	23.02	23.00	23.00	23.05
15	64QAM	36	0	22.44	22.41	22.41	22.28	22.46	22.44	22.41	22.41	22.28	22.46
15	64QAM	36	20	22.48	22.35	22.36	22.27	22.32	22.48	22.35	22.36	22.27	22.32
15	64QAM	36	39	22.38	22.22	22.26	22.15	22.32	22.38	22.22	22.26	22.15	22.32
15	64QAM	75	0	22.49	22.36	22.37	22.30	22.36	22.49	22.36	22.37	22.30	22.36
Channel				39700	40160	40620	41080	41540	39700	40160	40620	41080	41540
Frequency (MHz)				2501	2547	2593	2639	2685	2501	2547	2593	2639	2685
10	QPSK	1	0	25.29	25.27	25.34	25.26	25.42	25.29	25.27	25.34	25.26	25.42
10	QPSK	1	25	25.26	25.24	25.25	25.16	25.22	25.26	25.24	25.25	25.16	25.22
10	QPSK	1	49	25.17	25.11	25.16	25.11	25.27	25.17	25.11	25.16	25.11	25.27
10	QPSK	25	0	24.29	24.23	24.30	24.22	24.29	24.29	24.23	24.30	24.22	24.29
10	QPSK	25	12	24.31	24.28	24.29	24.19	24.23	24.31	24.28	24.29	24.19	24.23
10	QPSK	25	25	24.24	24.20	24.19	24.08	24.24	24.24	24.20	24.19	24.08	24.24
10	QPSK	50	0	24.28	24.29	24.27	24.16	24.12	24.28	24.29	24.27	24.16	24.12
10	16QAM	1	0	24.27	24.22	24.30	24.25	24.36	24.27	24.22	24.30	24.25	24.36
10	16QAM	1	25	24.21	24.21	24.18	24.12	24.16	24.21	24.21	24.18	24.12	24.16
10	16QAM	1	49	24.13	24.11	24.11	24.05	24.19	24.13	24.11	24.11	24.05	24.19
10	16QAM	25	0	23.42	23.33	23.41	23.33	23.38	23.42	23.33	23.41	23.33	23.38
10	16QAM	25	12	23.40	23.39	23.39	23.29	23.31	23.40	23.39	23.39	23.29	23.31
10	16QAM	25	25	23.32	23.31	23.29	23.17	23.30	23.32	23.31	23.29	23.17	23.30
10	16QAM	50	0	23.39	23.40	23.40	23.27	23.36	23.39	23.40	23.40	23.27	23.36



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10	64QAM	1	0	23.20	23.12	23.22	23.19	23.29	23.20	23.12	23.22	23.19	23.29
10	64QAM	1	25	23.15	23.14	23.17	23.06	23.09	23.15	23.14	23.17	23.06	23.09
10	64QAM	1	49	23.06	23.02	23.04	23.00	23.13	23.06	23.02	23.04	23.00	23.13
10	64QAM	25	0	22.46	22.38	22.43	22.36	22.41	22.46	22.38	22.43	22.36	22.41
10	64QAM	25	12	22.45	22.45	22.44	22.32	22.37	22.45	22.45	22.44	22.32	22.37
10	64QAM	25	25	22.40	22.38	22.36	22.22	22.35	22.40	22.38	22.36	22.22	22.35
10	64QAM	50	0	22.36	22.36	22.36	22.26	22.37	22.36	22.36	22.36	22.26	22.37
Channel				39675	40148	40620	41093	41565	39675	40148	40620	41093	41565
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8	2593	2640.30	2687.5
5	QPSK	1	0	25.28	25.21	25.31	25.20	25.27	25.28	25.21	25.31	25.20	25.27
5	QPSK	1	12	25.25	25.15	25.25	25.13	25.23	25.25	25.15	25.25	25.13	25.23
5	QPSK	1	24	25.17	25.15	25.17	25.11	25.16	25.17	25.15	25.17	25.11	25.16
5	QPSK	12	0	24.31	24.21	24.31	24.18	24.26	24.31	24.21	24.31	24.18	24.26
5	QPSK	12	7	24.34	24.21	24.31	24.20	24.25	24.34	24.21	24.31	24.20	24.25
5	QPSK	12	13	24.28	24.27	24.26	24.13	24.21	24.28	24.27	24.26	24.13	24.21
5	QPSK	25	0	24.30	24.30	24.27	24.14	24.22	24.30	24.30	24.27	24.14	24.22
5	16QAM	1	0	24.31	24.23	24.30	24.23	24.28	24.31	24.23	24.30	24.23	24.28
5	16QAM	1	12	24.31	24.20	24.32	24.19	24.30	24.31	24.20	24.32	24.19	24.30
5	16QAM	1	24	24.27	24.25	24.26	24.22	24.22	24.27	24.25	24.26	24.22	24.22
5	16QAM	12	0	23.38	23.27	23.38	23.26	23.30	23.38	23.27	23.38	23.26	23.30
5	16QAM	12	7	23.40	23.25	23.38	23.22	23.30	23.40	23.25	23.38	23.22	23.30
5	16QAM	12	13	23.34	23.33	23.31	23.16	23.27	23.34	23.33	23.31	23.16	23.27
5	16QAM	25	0	23.40	23.36	23.36	23.25	23.32	23.40	23.36	23.36	23.25	23.32
5	64QAM	1	0	23.17	23.06	23.17	23.07	23.12	23.17	23.06	23.17	23.07	23.12
5	64QAM	1	12	23.14	23.01	23.11	23.01	23.10	23.14	23.01	23.11	23.01	23.10
5	64QAM	1	24	23.12	23.06	23.08	23.03	23.03	23.12	23.06	23.08	23.03	23.03
5	64QAM	12	0	22.44	22.36	22.41	22.30	22.36	22.44	22.36	22.41	22.30	22.36
5	64QAM	12	7	22.45	22.31	22.42	22.31	22.39	22.45	22.31	22.42	22.31	22.39
5	64QAM	12	13	22.39	22.37	22.39	22.25	22.31	22.39	22.37	22.39	22.25	22.31
5	64QAM	25	0	22.46	22.42	22.41	22.32	22.34	22.46	22.42	22.41	22.32	22.34



<Wifi on>

Power Selection				Head									
Transmit Antenna				UAT					LAT				
Max. Power				22.0					27.0				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	21.34	21.46	21.36	21.00	21.35	25.38	25.57	25.64	25.70	25.17
20	QPSK	1	49	21.24	21.28	21.35	20.94	21.29	25.22	25.39	25.44	25.50	25.74
20	QPSK	1	99	21.22	21.32	21.26	20.93	21.46	25.16	25.32	25.27	25.32	25.02
20	QPSK	50	0	21.30	21.49	21.42	21.09	21.33	24.33	24.57	24.57	24.55	24.46
20	QPSK	50	24	21.33	21.44	21.38	21.13	21.37	24.37	24.46	24.46	24.42	24.36
20	QPSK	50	50	21.38	21.47	21.38	20.91	21.41	24.27	24.42	24.37	24.35	24.23
20	QPSK	100	0	21.39	21.50	21.38	20.98	21.31	24.36	24.35	24.46	24.40	24.00
20	16QAM	1	0	21.50	21.52	21.72	21.35	21.00	24.35	24.55	24.59	24.68	24.01
20	16QAM	1	49	21.44	21.43	21.66	21.13	21.02	24.18	24.34	24.38	24.45	24.64
20	16QAM	1	99	21.53	21.37	21.51	21.19	21.02	24.23	24.30	24.34	24.39	24.00
20	16QAM	50	0	21.67	21.52	21.64	21.28	21.58	23.47	23.68	23.68	23.67	23.63
20	16QAM	50	24	21.54	21.61	21.58	21.26	21.59	23.50	23.58	23.60	23.54	23.55
20	16QAM	50	50	21.48	21.60	21.60	21.25	21.56	23.41	23.54	23.48	23.47	23.47
20	16QAM	100	0	21.68	21.58	21.52	21.34	21.49	23.48	23.56	23.58	23.50	23.19
20	64QAM	1	0	21.35	21.16	21.45	21.03	20.84	23.26	23.44	23.54	23.58	23.18
20	64QAM	1	49	21.27	21.15	21.32	21.00	20.68	23.10	23.26	23.33	23.39	23.84
20	64QAM	1	99	21.05	21.24	21.17	20.83	20.51	23.15	23.26	23.26	23.29	23.00
20	64QAM	50	0	21.68	21.56	21.66	21.32	21.60	22.45	22.66	22.68	22.65	22.58
20	64QAM	50	24	21.58	21.50	21.60	21.33	21.62	22.48	22.55	22.60	22.52	22.55
20	64QAM	50	50	21.50	21.55	21.71	21.22	21.51	22.38	22.51	22.47	22.45	22.43
20	64QAM	100	0	21.59	21.51	21.65	21.21	21.60	22.48	22.56	22.59	22.51	22.17
Channel				39725	40173	40620	41068	41515	39725	40173	40620	39725	40173
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	2503.5	2548.3	2593	2503.5	2548.3
15	QPSK	1	0	21.32	21.37	21.22	20.98	20.64	25.37	25.36	25.41	25.30	25.38
15	QPSK	1	37	21.28	21.32	21.32	20.95	20.64	25.21	25.19	25.20	25.13	25.18
15	QPSK	1	74	21.11	21.31	21.14	20.95	20.52	25.25	25.06	25.15	25.09	25.17
15	QPSK	36	0	21.32	21.44	21.43	20.97	21.38	24.32	24.35	24.31	24.17	24.35
15	QPSK	36	20	21.37	21.41	21.33	20.93	21.40	24.37	24.26	24.24	24.19	24.26
15	QPSK	36	39	21.32	21.38	21.33	20.92	21.28	24.30	24.15	24.18	24.05	24.22
15	QPSK	75	0	21.38	21.40	21.31	20.99	21.24	24.36	24.24	24.24	24.17	24.03
15	16QAM	1	0	21.51	21.43	21.67	21.32	20.90	24.33	24.27	24.34	24.27	24.31
15	16QAM	1	37	21.48	21.31	21.47	21.23	21.02	24.18	24.11	24.15	24.09	24.14
15	16QAM	1	74	21.36	21.34	21.51	21.03	21.05	24.21	24.01	24.10	24.05	24.09
15	16QAM	36	0	21.64	21.61	21.56	21.13	21.61	23.37	23.38	23.39	23.23	23.41
15	16QAM	36	20	21.59	21.62	21.58	21.19	21.59	23.44	23.31	23.33	23.24	23.29
15	16QAM	36	39	21.57	21.46	21.48	21.15	21.48	23.36	23.20	23.23	23.10	23.28
15	16QAM	75	0	21.64	21.59	21.55	21.25	21.57	23.48	23.34	23.35	23.26	23.29
15	64QAM	1	0	21.30	21.19	21.45	21.01	20.99	23.25	23.19	23.28	23.19	23.26
15	64QAM	1	37	21.23	21.08	21.33	20.96	21.00	23.08	23.05	23.10	23.01	23.03
15	64QAM	1	74	21.04	21.05	21.09	20.89	21.02	23.10	23.02	23.00	23.00	23.05
15	64QAM	36	0	21.49	21.62	21.58	21.31	21.51	22.44	22.41	22.41	22.28	22.46
15	64QAM	36	20	21.49	21.61	21.57	21.23	21.51	22.48	22.35	22.36	22.27	22.32
15	64QAM	36	39	21.49	21.54	21.59	21.15	21.47	22.38	22.22	22.26	22.15	22.32
15	64QAM	75	0	21.59	21.44	21.64	21.05	21.50	22.49	22.36	22.37	22.30	22.36
Channel				39700	40160	40620	41080	41540	39700	40160	40620	41080	41540
Frequency (MHz)				2501	2547	2593	2639	2685	2501	2547	2593	2639	2685
10	QPSK	1	0	21.33	21.28	21.36	21.04	21.11	25.29	25.27	25.34	25.26	25.42
10	QPSK	1	25	21.29	21.25	21.28	20.99	21.12	25.26	25.24	25.25	25.16	25.22
10	QPSK	1	49	21.29	21.27	21.26	20.78	21.20	25.17	25.11	25.16	25.11	25.27
10	QPSK	25	0	21.46	21.39	21.43	21.01	21.26	24.29	24.23	24.30	24.22	24.29
10	QPSK	25	12	21.33	21.41	21.28	20.91	21.34	24.31	24.28	24.29	24.19	24.23
10	QPSK	25	25	21.29	21.43	21.24	20.88	21.35	24.24	24.20	24.19	24.08	24.24
10	QPSK	50	0	21.36	21.35	21.21	20.93	21.38	24.28	24.29	24.27	24.16	24.12
10	16QAM	1	0	21.53	21.41	21.70	21.26	20.53	24.27	24.22	24.30	24.25	24.36
10	16QAM	1	25	21.49	21.46	21.46	21.25	20.59	24.21	24.21	24.18	24.12	24.16
10	16QAM	1	49	21.31	21.35	21.42	21.14	21.02	24.13	24.11	24.11	24.05	24.19
10	16QAM	25	0	21.68	21.51	21.68	21.19	21.51	23.42	23.33	23.41	23.33	23.38
10	16QAM	25	12	21.62	21.51	21.56	21.16	21.62	23.40	23.39	23.39	23.29	23.31
10	16QAM	25	25	21.54	21.59	21.53	21.11	21.46	23.32	23.31	23.29	23.17	23.30
10	16QAM	50	0	21.67	21.58	21.53	21.15	21.42	23.39	23.40	23.40	23.27	23.36



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10	64QAM	1	0	21.39	21.05	21.37	20.98	20.71	23.20	23.12	23.22	23.19	23.29
10	64QAM	1	25	21.30	21.29	21.39	20.88	20.63	23.15	23.14	23.17	23.06	23.09
10	64QAM	1	49	21.07	21.09	21.08	20.69	20.53	23.06	23.02	23.04	23.00	23.13
10	64QAM	25	0	21.53	21.52	21.67	21.19	21.57	22.46	22.38	22.43	22.36	22.41
10	64QAM	25	12	21.54	21.46	21.58	21.33	21.56	22.45	22.45	22.44	22.32	22.37
10	64QAM	25	25	21.62	21.57	21.51	21.12	21.52	22.40	22.38	22.36	22.22	22.35
10	64QAM	50	0	21.64	21.63	21.57	21.22	21.67	22.36	22.36	22.36	22.26	22.37
Channel				39675	40148	40620	41093	41565	39675	40148	40620	41093	41565
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8	2593	2640.30	2687.5
5	QPSK	1	0	21.29	21.21	21.35	21.08	20.68	25.28	25.21	25.31	25.20	25.27
5	QPSK	1	12	21.20	21.24	21.20	20.90	20.54	25.25	25.15	25.25	25.13	25.23
5	QPSK	1	24	21.17	21.17	21.31	20.80	20.58	25.17	25.15	25.17	25.11	25.16
5	QPSK	12	0	21.44	21.32	21.33	21.02	21.37	24.31	24.21	24.31	24.18	24.26
5	QPSK	12	7	21.26	21.32	21.26	20.96	21.36	24.34	24.21	24.31	24.20	24.25
5	QPSK	12	13	21.24	21.33	21.33	20.87	21.27	24.28	24.27	24.26	24.13	24.21
5	QPSK	25	0	21.34	21.34	21.31	21.02	21.26	24.30	24.30	24.27	24.14	24.22
5	16QAM	1	0	21.57	21.41	21.68	21.26	21.02	24.31	24.23	24.30	24.23	24.28
5	16QAM	1	12	21.52	21.37	21.64	21.18	21.22	24.31	24.20	24.32	24.19	24.30
5	16QAM	1	24	21.45	21.38	21.37	21.10	21.02	24.27	24.25	24.26	24.22	24.22
5	16QAM	12	0	21.65	21.61	21.45	21.27	21.51	23.38	23.27	23.38	23.26	23.30
5	16QAM	12	7	21.52	21.64	21.51	21.23	21.55	23.40	23.25	23.38	23.22	23.30
5	16QAM	12	13	21.45	21.67	21.68	21.19	21.47	23.34	23.33	23.31	23.16	23.27
5	16QAM	25	0	21.68	21.48	21.46	21.25	21.50	23.40	23.36	23.36	23.25	23.32
5	64QAM	1	0	21.31	21.12	21.51	21.06	20.83	23.17	23.06	23.17	23.07	23.12
5	64QAM	1	12	21.26	21.31	21.39	20.98	20.64	23.14	23.01	23.11	23.01	23.10
5	64QAM	1	24	21.04	20.99	21.14	20.82	20.56	23.12	23.06	23.08	23.03	23.03
5	64QAM	12	0	21.53	21.52	21.60	21.18	21.59	22.44	22.36	22.41	22.30	22.36
5	64QAM	12	7	21.57	21.56	21.58	21.28	21.59	22.45	22.31	22.42	22.31	22.39
5	64QAM	12	13	21.61	21.61	21.61	21.08	21.48	22.39	22.37	22.39	22.25	22.31
5	64QAM	25	0	21.52	21.65	21.63	21.24	21.59	22.46	22.42	22.41	22.32	22.34



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Power Selection				Hotspot / Body-worn									
Transmit Antenna				UAT					LAT				
Max. Power				27.0					27.0				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	25.38	25.57	25.64	25.70	25.17	25.38	25.57	25.64	25.70	25.17
20	QPSK	1	49	25.22	25.39	25.44	25.50	25.74	25.22	25.39	25.44	25.50	25.74
20	QPSK	1	99	25.16	25.32	25.27	25.32	25.02	25.16	25.32	25.27	25.32	25.02
20	QPSK	50	0	24.33	24.57	24.57	24.55	24.46	24.33	24.57	24.57	24.55	24.46
20	QPSK	50	24	24.37	24.46	24.46	24.42	24.36	24.37	24.46	24.46	24.42	24.36
20	QPSK	50	50	24.27	24.42	24.37	24.35	24.23	24.27	24.42	24.37	24.35	24.23
20	QPSK	100	0	24.36	24.35	24.46	24.40	24.00	24.36	24.35	24.46	24.40	24.00
20	16QAM	1	0	24.35	24.55	24.59	24.68	24.01	24.35	24.55	24.59	24.68	24.01
20	16QAM	1	49	24.18	24.34	24.38	24.45	24.64	24.18	24.34	24.38	24.45	24.64
20	16QAM	1	99	24.23	24.30	24.34	24.39	24.00	24.23	24.30	24.34	24.39	24.00
20	16QAM	50	0	23.47	23.68	23.68	23.67	23.63	23.47	23.68	23.68	23.67	23.63
20	16QAM	50	24	23.50	23.58	23.60	23.54	23.55	23.50	23.58	23.60	23.54	23.55
20	16QAM	50	50	23.41	23.54	23.48	23.47	23.47	23.41	23.54	23.48	23.47	23.47
20	16QAM	100	0	23.48	23.56	23.58	23.50	23.19	23.48	23.56	23.58	23.50	23.19
20	64QAM	1	0	23.26	23.44	23.54	23.58	23.18	23.26	23.44	23.54	23.58	23.18
20	64QAM	1	49	23.10	23.26	23.33	23.39	23.84	23.10	23.26	23.33	23.39	23.84
20	64QAM	1	99	23.15	23.26	23.26	23.29	23.00	23.15	23.26	23.26	23.29	23.00
20	64QAM	50	0	22.45	22.66	22.68	22.65	22.58	22.45	22.66	22.68	22.65	22.58
20	64QAM	50	24	22.48	22.55	22.60	22.52	22.55	22.48	22.55	22.60	22.52	22.55
20	64QAM	50	50	22.38	22.51	22.47	22.45	22.43	22.38	22.51	22.47	22.45	22.43
20	64QAM	100	0	22.48	22.56	22.59	22.51	22.17	22.48	22.56	22.59	22.51	22.17
Channel				39725	40173	40620	41068	41515	39725	40173	40620	39725	40173
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	2503.5	2548.3	2593	2503.5	2548.3
15	QPSK	1	0	25.37	25.36	25.41	25.30	25.38	25.37	25.36	25.41	25.30	25.38
15	QPSK	1	37	25.21	25.19	25.20	25.13	25.18	25.21	25.19	25.20	25.13	25.18
15	QPSK	1	74	25.25	25.06	25.15	25.09	25.17	25.25	25.06	25.15	25.09	25.17
15	QPSK	36	0	24.32	24.35	24.31	24.17	24.35	24.32	24.35	24.31	24.17	24.35
15	QPSK	36	20	24.37	24.26	24.24	24.19	24.26	24.37	24.26	24.24	24.19	24.26
15	QPSK	36	39	24.30	24.15	24.18	24.05	24.22	24.30	24.15	24.18	24.05	24.22
15	QPSK	75	0	24.36	24.24	24.24	24.17	24.03	24.36	24.24	24.24	24.17	24.03
15	16QAM	1	0	24.33	24.27	24.34	24.27	24.31	24.33	24.27	24.34	24.27	24.31
15	16QAM	1	37	24.18	24.11	24.15	24.09	24.14	24.18	24.11	24.15	24.09	24.14
15	16QAM	1	74	24.21	24.01	24.10	24.05	24.09	24.21	24.01	24.10	24.05	24.09
15	16QAM	36	0	23.37	23.38	23.39	23.23	23.41	23.37	23.38	23.39	23.23	23.41
15	16QAM	36	20	23.44	23.31	23.33	23.24	23.29	23.44	23.31	23.33	23.24	23.29
15	16QAM	36	39	23.36	23.20	23.23	23.10	23.28	23.36	23.20	23.23	23.10	23.28
15	16QAM	75	0	23.48	23.34	23.35	23.26	23.29	23.48	23.34	23.35	23.26	23.29
15	64QAM	1	0	23.25	23.19	23.28	23.19	23.26	23.25	23.19	23.28	23.19	23.26
15	64QAM	1	37	23.08	23.05	23.10	23.01	23.03	23.08	23.05	23.10	23.01	23.03
15	64QAM	1	74	23.10	23.02	23.00	23.00	23.05	23.10	23.02	23.00	23.00	23.05
15	64QAM	36	0	22.44	22.41	22.41	22.28	22.46	22.44	22.41	22.41	22.28	22.46
15	64QAM	36	20	22.48	22.35	22.36	22.27	22.32	22.48	22.35	22.36	22.27	22.32
15	64QAM	36	39	22.38	22.22	22.26	22.15	22.32	22.38	22.22	22.26	22.15	22.32
15	64QAM	75	0	22.49	22.36	22.37	22.30	22.36	22.49	22.36	22.37	22.30	22.36
Channel				39700	40160	40620	41080	41540	39700	40160	40620	41080	41540
Frequency (MHz)				2501	2547	2593	2639	2685	2501	2547	2593	2639	2685
10	QPSK	1	0	25.29	25.27	25.34	25.26	25.42	25.29	25.27	25.34	25.26	25.42
10	QPSK	1	25	25.26	25.24	25.25	25.16	25.22	25.26	25.24	25.25	25.16	25.22
10	QPSK	1	49	25.17	25.11	25.16	25.11	25.27	25.17	25.11	25.16	25.11	25.27
10	QPSK	25	0	24.29	24.23	24.30	24.22	24.29	24.29	24.23	24.30	24.22	24.29
10	QPSK	25	12	24.31	24.28	24.29	24.19	24.23	24.31	24.28	24.29	24.19	24.23
10	QPSK	25	25	24.24	24.20	24.19	24.08	24.24	24.24	24.20	24.19	24.08	24.24
10	QPSK	50	0	24.28	24.29	24.27	24.16	24.12	24.28	24.29	24.27	24.16	24.12
10	16QAM	1	0	24.27	24.22	24.30	24.25	24.36	24.27	24.22	24.30	24.25	24.36
10	16QAM	1	25	24.21	24.21	24.18	24.12	24.16	24.21	24.21	24.18	24.12	24.16
10	16QAM	1	49	24.13	24.11	24.11	24.05	24.19	24.13	24.11	24.11	24.05	24.19
10	16QAM	25	0	23.42	23.33	23.41	23.33	23.38	23.42	23.33	23.41	23.33	23.38
10	16QAM	25	12	23.40	23.39	23.39	23.29	23.31	23.40	23.39	23.39	23.29	23.31
10	16QAM	25	25	23.32	23.31	23.29	23.17	23.30	23.32	23.31	23.29	23.17	23.30
10	16QAM	50	0	23.39	23.40	23.40	23.27	23.36	23.39	23.40	23.40	23.27	23.36



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10	64QAM	1	0	23.20	23.12	23.22	23.19	23.29	23.20	23.12	23.22	23.19	23.29
10	64QAM	1	25	23.15	23.14	23.17	23.06	23.09	23.15	23.14	23.17	23.06	23.09
10	64QAM	1	49	23.06	23.02	23.04	23.00	23.13	23.06	23.02	23.04	23.00	23.13
10	64QAM	25	0	22.46	22.38	22.43	22.36	22.41	22.46	22.38	22.43	22.36	22.41
10	64QAM	25	12	22.45	22.45	22.44	22.32	22.37	22.45	22.45	22.44	22.32	22.37
10	64QAM	25	25	22.40	22.38	22.36	22.22	22.35	22.40	22.38	22.36	22.22	22.35
10	64QAM	50	0	22.36	22.36	22.36	22.26	22.37	22.36	22.36	22.36	22.26	22.37
Channel				39675	40148	40620	41093	41565	39675	40148	40620	41093	41565
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8	2593	2640.30	2687.5
5	QPSK	1	0	25.28	25.21	25.31	25.20	25.27	25.28	25.21	25.31	25.20	25.27
5	QPSK	1	12	25.25	25.15	25.25	25.13	25.23	25.25	25.15	25.25	25.13	25.23
5	QPSK	1	24	25.17	25.15	25.17	25.11	25.16	25.17	25.15	25.17	25.11	25.16
5	QPSK	12	0	24.31	24.21	24.31	24.18	24.26	24.31	24.21	24.31	24.18	24.26
5	QPSK	12	7	24.34	24.21	24.31	24.20	24.25	24.34	24.21	24.31	24.20	24.25
5	QPSK	12	13	24.28	24.27	24.26	24.13	24.21	24.28	24.27	24.26	24.13	24.21
5	QPSK	25	0	24.30	24.30	24.27	24.14	24.22	24.30	24.30	24.27	24.14	24.22
5	16QAM	1	0	24.31	24.23	24.30	24.23	24.28	24.31	24.23	24.30	24.23	24.28
5	16QAM	1	12	24.31	24.20	24.32	24.19	24.30	24.31	24.20	24.32	24.19	24.30
5	16QAM	1	24	24.27	24.25	24.26	24.22	24.22	24.27	24.25	24.26	24.22	24.22
5	16QAM	12	0	23.38	23.27	23.38	23.26	23.30	23.38	23.27	23.38	23.26	23.30
5	16QAM	12	7	23.40	23.25	23.38	23.22	23.30	23.40	23.25	23.38	23.22	23.30
5	16QAM	12	13	23.34	23.33	23.31	23.16	23.27	23.34	23.33	23.31	23.16	23.27
5	16QAM	25	0	23.40	23.36	23.36	23.25	23.32	23.40	23.36	23.36	23.25	23.32
5	64QAM	1	0	23.17	23.06	23.17	23.07	23.12	23.17	23.06	23.17	23.07	23.12
5	64QAM	1	12	23.14	23.01	23.11	23.01	23.10	23.14	23.01	23.11	23.01	23.10
5	64QAM	1	24	23.12	23.06	23.08	23.03	23.03	23.12	23.06	23.08	23.03	23.03
5	64QAM	12	0	22.44	22.36	22.41	22.30	22.36	22.44	22.36	22.41	22.30	22.36
5	64QAM	12	7	22.45	22.31	22.42	22.31	22.39	22.45	22.31	22.42	22.31	22.39
5	64QAM	12	13	22.39	22.37	22.39	22.25	22.31	22.39	22.37	22.39	22.25	22.31
5	64QAM	25	0	22.46	22.42	22.41	22.32	22.34	22.46	22.42	22.41	22.32	22.34



<LTE Carrier Aggregation combinations>

General Note:

1. This device supports Carrier Aggregation on downlink only for inter and intra band, Uplink CA is not supported. For the device supports combination bands and configurations are according to 3GPP.
2. In applying the existing power measurement procedure of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of the frequency band and CCs in each row need consideration, and that configurations require power measurement should be highlighted in the below table.
3. All permutations exist. No restrictions on Pcell & SCell combinations. Only LTE Band 29 and LTE Band 46 is limited to SCell.

2CC					3CC				
Number	Combination	4X4 MIMO	Restriction	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Restriction	Covered by Measurement Superset
1	2A_2A	2A-2A		4CC-2	1	2A_2A_5A	2A		4CC-2
2	2A_4A	2A-4A		3CC-5	2	2A_2A_13A	2A		4CC-7
3	2A_5A	2A		4CC-2	3	2A_2A_66A	2A、66A		4CC-3
4	2A_7A			4CC-11	4	2A_2A_71A	2A		4CC-4
5	2A_12A	2A		4CC-5	5	2A_4A_5A	2A、4A		
6	2A_13A	2A		4CC-7	6	2A_4A_7A			4CC-11
7	2A_29A	2A		3CC-17	7	2A_4A_12A	2A、4A		
8	2A_30A			4CC-2	8	2A_4A_13A	2A、4A		
9	2A_46A	2A		5CC-1	9	2A_4A_71A	2A、4A		4CC-10
10	2A_66A	2A-66A		4CC-3	10	2A_5A_30A			4CC-2
11	2A_71A	2A		4CC-4	11	2A_5A_66A	2A、66A		4CC-3
12	4A_4A	4A-4A		3CC-25	12	2A_7A_7A			4CC-11
13	4A_5A	4A		3CC-25	13	2A_7A_12A			
14	4A_7A			3CC-30	14	2A_12A_30A			4CC-5
15	4A_12A	4A		3CC-31	15	2A_12B	2A		4CC-16
16	4A_13A	4A		3CC-27	16	2A_13A_66A	2A、66A		4CC-7
17	4A_29A	4A	B29 SCC Only	3CC-33	17	2A_29A_30A		B29 SCC Only	
18	4A_30A			3CC-29	18	2A_46A_46A	2A	B46 SCC Only	5CC-1
19	4A_46A	4A	B46 SCC Only	4CC-29	19	2A_46A_66A	2A、66A	B46 SCC Only	5CC-1
20	4A_71A	4A		4CC-10	20	2A_46C	2A	B46 SCC Only	5CC-1
21	5A_30A			3CC-29	21	2A_66A_66A	2A、66A		4CC-26
22	5A_66A	66A		4CC-31	22	2A_66A_71A	2A、66A		4CC-26
23	5B				23	2A_66B	2A-66B		4CC-26
24	7A_7A	7A-7A		4CC-11	24	2A_66C	2A-66C		4CC-28
25	7A_12A	7A		3CC-13	25	4A_4A_5A	4A		
26	12A_30A			4CC-5	26	4A_4A_12A	4A		
27	12A_66A	66A		4CC-6	27	4A_4A_13A	4A		
28	12B			3CC-32	28	4A_4A_71A	4A		4CC-10
29	13A_46A		B46 SCC Only	5CC-4	29	4A_5A_30A			
30	13A_66A	66A		4CC-19	30	4A_7A_12A			
31	25A_25A	25A-25A			31	4A_12A_30A			
32	25A_26A	25A			32	4A_12B	4A		
33	25A_41A			4CC-34	33	4A_29A_30A		B29 SCC Only	
34	29A_30A		B29 SCC Only	3CC-33	34	4A_46A_46A	4A	B46 SCC Only	5CC-3
35	29A_66A	66A	B29 SCC Only		35	4A_46C	4A	B46 SCC Only	4CC-30
36	30A_66A			4CC-31	36	5A_66A_66A	66A		4CC-31
37	41A_41A	41A-41A		4CC-35	37	5A_66B	66B		4CC-14
38	41C	41C		4CC-34	38	5A_66C	66C		4CC-15
39	46A_66A	66A	B46 SCC Only	4CC-22	39	7A_12B	7A		
40	66A_66A	66A-66A		4CC-26	40	13A_46C		B46 SCC Only	5CC-4
41	66A_71A	66A		4CC-26	41	13A_66A_66A	66A		4CC-19
42	66B	66B		4CC-26	42	13_66B	66B		4CC-20
43	66C	66C		4CC-28	43	13A_66C	66C		4CC-21
					44	25A_41C			4CC-34
					45	41D	41D		4CC-35
					46	41A_41C	41A-41C		4CC-34
					47	46A_46A_66A	66A	B46 SCC Only	4CC-22
					48	46C_66A	66A	B46 SCC Only	4CC-24
					49	66A_66A_71A	66A		4CC-26
					50	66A_66C	66A-66C		
					51	66C_71A	66C		4CC-28



4CC					5CC				
Number	Combination	4X4 MIMO	Restriction	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Restriction	Covered by Measurement Superset
1	2A_2A_4A_71A				1	2A_46A_46C_66A		B46 SCC only	
2	2A_2A_5A_30A				2	2A_46D_66A		B46 SCC only	
3	2A_2A_5A_66A				3	4A_46A_46D		B46 SCC only	
4	2A_2A_66A_71A				4	13A_46E		B46 SCC only	
5	2A_2A_12A_30A				5	66A_46E		B46 SCC only	
6	2A_2A_12A_66A								
7	2A_2A_13A_66A								
8	2A_2A_66A_66A			5CC-1					
9	2A_2A_66C	66C		5CC-1					
10	2A_4A_4A_71A								
11	2A_4A_7A_7A								
12	2A_5A_30A_66A								
13	2A_5A_66A_66A								
14	2A_5A_66B	66B							
15	2A_5A_66C	66C							
16	2A_12A_30A_66A								
17	2A_12A_66A_66A								
18	2A_12A_66C	66C							
19	2A_13A_66A_66A								
20	2A_13A_66B	66B							
21	2A_13A_66C	66C							
22	2A_46A_46A_66A		B46 SCC only	5CC-1					
23	2A_46A_46C	2A	B46 SCC only	5CC-1					
24	2A_46C_66A	2A、66A	B46 SCC only	5CC-1					
25	2A_46D	2A	B46 SCC only	5CC-2					
26	2A_66A_66A_71A								
27	2C_66A_66A	2C		5CC-1					
28	2A_66C_71A	66C							
29	4A_46A_46C	4A	B46 SCC only	5CC-3					
30	4A_46D	4A	B46 SCC only	5CC-3					
31	5A_30A_66A_66A								
32	12A_30A_66A_66A								
33	13A_46D		B46 SCC only	5CC-4					
34	25A_41A_41C								
35	25A_41D								
36	41A_41D	41A							
37	66A_46A_46C	66A	B46 SCC only	5CC-1					
38	66A_46D	66A	B46 SCC only	5CC-2					

<Power verification when LTE Carrier Aggregation Active>
General Note:

- i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
- ii. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- iii. The device supports downlink two carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, 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.
- v. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- vi. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lceil \frac{BW_{\text{Channel}(1)} + BW_{\text{Channel}(2)} - 0.1 |BW_{\text{Channel}(1)} - BW_{\text{Channel}(2)}|}{0.6} \right\rceil 0.3 \text{ [MHz]}$$

<Two Carrier power verification>

Configure		PCC						SCC				Power		
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		25	20	1880	26340	QPSK	1	0	26	15	876.5	8865	23.49	23.50
		25(4X4MIMO)	20	1880	26340	QPSK	1	0	26	15	876.5	8865	23.47	23.50
		26	15	841.5	26965	QPSK	1	0	25	20	1960	8340	24.26	24.27
		66	20	1745	132322	QPSK	1	0	29	10	722.5	9715	23.48	23.50
		66(4X4MIMO)	20	1745	132322	QPSK	1	0	29	10	722.5	9715	23.42	23.50
Intra-Band	Non-Contiguous	25	20	1880	26340	QPSK	1	0	25	5	1992.5	8665	23.50	23.50
		25(4X4MIMO)	20	1880	26340	QPSK	1	0	25	5	1992.5	8665	23.48	23.50
	Contiguous	5	10	844	20600	QPSK	1	0	5	5	881.80	2528	24.18	24.20



<Three Carrier power verification>

Configure		PCC							SCC1				SCC2				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	5	10	881.5	2525	23.35	23.43
		2(4X4MIMO)	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	5	10	881.5	2525	23.35	23.43
		4	20	1732.5	20175	QPSK	1	0	2	20	1960	900	5	5	881.5	2525	23.34	23.42
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	2	20	1960	900	5	5	881.5	2525	23.41	23.42
		5	10	844	20600	QPSK	1	0	2	20	1960	900	4	20	2132.5	2175	24.17	24.20
		2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	12	10	737.5	5095	23.33	23.43
		2(4X4MIMO)	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	12	10	737.5	5095	23.36	23.43
		4	20	1732.5	20175	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	23.35	23.42
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	23.40	23.42
		12	10	711	23130	QPSK	1	0	2	20	1960	900	4	20	2132.5	2175	24.42	24.43
		2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	13	10	751	5230	23.34	23.43
		2(4X4MIMO)	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	13	10	751	5230	23.39	23.43
		4	20	1732.5	20175	QPSK	1	0	2	20	1960	900	13	10	751	5230	23.38	23.42
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	2	20	1960	900	13	10	751	5230	23.34	23.42
		13	10	782	23230	QPSK	1	0	2	20	1960	900	4	20	2132.5	2175	24.43	24.45
		2	20	1880	18900	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	23.40	23.43
		7	20	2535	21100	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	23.60	23.63
		12	10	711	23130	QPSK	1	0	2	20	1960	900	7	20	2655	3100	24.42	24.43
		2	20	1880	18900	QPSK	1	0	29	10	722.5	9715	30	10	2355	9820	23.35	23.43
		30	10	2310	27710	QPSK	1	0	2	20	1960	900	29	10	722.5	9715	23.41	23.49
		4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	23.35	23.42
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	23.37	23.42
		5	10	844	20600	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	24.13	24.20
		4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	23.36	23.42
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	23.42	23.42
		12	10	711	23130	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	24.40	24.43
		4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	13	10	751	5230	23.34	23.42
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	13	10	751	5230	23.40	23.42
		13	10	782	23230	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	24.41	24.45
		4	20	1732.5	20175	QPSK	1	0	5	10	881.5	2525	30	10	2355	9820	23.41	23.42
		5	10	844	20600	QPSK	1	0	4	20	2132.5	2175	30	10	2355	9820	24.20	24.20
		30	10	2310	27710	QPSK	1	0	4	20	2132.5	2175	5	10	881.5	2525	23.48	23.49
		4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	23.34	23.42
		7	20	2535	21100	QPSK	1	0	4	20	2132.5	2175	12	10	737.5	5095	23.61	23.63
		12	10	711	23130	QPSK	1	0	4	20	2132.5	2175	7	20	2655	3100	24.43	24.43
		4	20	1732.5	20175	QPSK	1	0	12	10	737.5	5095	30	10	2355	9820	23.36	23.42
		12	10	711	23130	QPSK	1	0	4	20	2132.5	2175	30	10	2355	9820	24.41	24.43
		30	10	2310	27710	QPSK	1	0	4	20	2132.5	2175	12	10	737.5	5095	23.45	23.49
		4	20	1732.5	20175	QPSK	1	0	12	10	737.5	5095	12	5	730.3	5025	23.32	23.42
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	12	10	737.5	5095	12	5	730.3	5025	23.32	23.42
		12	10	711	23130	QPSK	1	0	12	5	733.8	5058	4	20	2132.5	2175	24.36	24.43
		4	20	1732.5	20175	QPSK	1	0	29	10	722.5	9715	30	10	2355	9820	23.36	23.42
		30	10	2310	27710	QPSK	1	0	4	20	2132.5	2175	29	10	722.5	9715	23.48	23.49
		7	20	2535	21100	QPSK	1	0	12	10	737.5	5095	12	5	730.3	5025	23.54	23.63
		7(4X4MIMO)	20	2535	21100	QPSK	1	0	12	10	737.5	5095	12	5	730.3	5025	23.57	23.63
		12	10	711	23130	QPSK	1	0	12	5	733.8	5058	7	20	2655	3100	24.37	24.43
Intra-Band	Contiguous	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	66	20	2185.8	67194	23.45	23.50
		66(4X4MIMO)	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	66	20	2185.8	67194	23.43	23.50
		66	20	1745	132322	QPSK	1	0	66	20	2164.8	67084	66	5	2197.5	67311	23.42	23.50
		66(4X4MIMO)	20	1745	132322	QPSK	1	0	66	20	2164.8	67084	66	5	2197.5	67311	23.47	23.50



<Four Carrier power verification>

Configure	PCC							SCC1				SCC2				SCC3				Power	
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	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	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	4	20	2132.5	2175	71	20	637	68786	23.39	23.43
	4	20	1732.5	20175	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	71	20	637	68786	23.36	23.42
	71	20	673	133222	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	4	20	2132.5	2175	24.35	24.45
	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	5	10	881.5	2525	30	10	2355	9820	23.42	23.43
	5	10	844	20600	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	30	10	2355	9820	24.16	24.20
	30	10	2310	27710	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	5	10	881.5	2525	23.49	23.49
	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	5	10	881.5	2525	66	20	2155	66886	23.40	23.43
	5	10	844	20600	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	66	20	2155	66886	24.17	24.20
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	5	10	881.5	2525	23.43	23.50
	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	66	20	2155	66886	71	20	637	68786	23.36	23.43
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	71	20	637	68786	23.47	23.50
	71	20	673	133222	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	66	20	2155	66886	24.39	24.45
	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	12	10	737.5	5095	30	10	2355	9820	23.43	23.43
	12	10	711	23130	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	30	10	2355	9820	24.33	24.43
	30	10	2310	27710	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	12	10	737.5	5095	23.43	23.49
	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	12	10	737.5	5095	66	20	2155	66886	23.41	23.43
	12	10	711	23130	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	66	20	2155	66886	24.38	24.43
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	12	10	737.5	5095	23.42	23.50
	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	13	10	751	5230	66	20	2155	66886	23.39	23.43
	13	10	782	23230	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	66	20	2155	66886	24.44	24.45
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	13	10	751	5230	23.43	23.50
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	71	20	637	68786	23.41	23.43
	4	20	1732.5	20175	QPSK	1	0	2	20	1960	900	4	5	2152.5	2375	71	20	637	68786	23.36	23.42
	71	20	673	133222	QPSK	1	0	2	20	1960	900	4	20	2132.5	2175	4	5	2152.5	2375	24.39	24.45
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	7	20	2655	3100	7	5	2687.5	3425	23.36	23.43
	4	20	1732.5	20175	QPSK	1	0	2	20	1960	900	7	20	2655	3100	7	5	2687.5	3425	23.36	23.42
	7	20	2535	21100	QPSK	1	0	2	20	1960	900	4	20	2132.5	2175	7	5	2687.5	3425	23.56	23.63
	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	30	10	2355	9820	66	20	2155	66886	23.33	23.43
	5	10	844	20600	QPSK	1	0	2	20	1960	900	30	10	2355	9820	66	20	2155	66886	24.14	24.20
	30	10	2310	27710	QPSK	1	0	2	20	1960	900	5	10	881.5	2525	66	20	2155	66886	23.49	23.49
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	5	10	881.5	2525	30	10	2355	9820	23.50	23.50
	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	66	15	2155	66886	66	5	2164.3	66979	23.36	23.43
	5	10	844	20600	QPSK	1	0	2	20	1960	900	66	15	2155	66886	66	5	2164.3	66979	24.10	24.20
	66	15	1717.5	132047	QPSK	1	0	66	5	2126.8	66604	2	20	1960	900	5	10	881.5	2525	23.41	23.44
	66(4X4MIMO)	15	1717.5	132047	QPSK	1	0	66	5	2126.8	66604	2	20	1960	900	5	10	881.5	2525	23.38	23.44
	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	66	20	2155	66886	66	20	2174.8	67084	23.42	23.43
	5	10	844	20600	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	20	2174.8	67084	24.10	24.20
	66	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	2	20	1960	900	5	10	881.5	2525	23.44	23.50
	66(4X4MIMO)	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	2	20	1960	900	5	10	881.5	2525	23.50	23.50



Configure		PCC							SCC1				SCC2				SCC3				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	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	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2	20	1880	18900	QPSK	1	0	12	10	737.5	5095	30	10	2355	9820	66	20	2155	66886	23.38	23.43
		12	10	711	23130	QPSK	1	0	2	20	1960	900	30	10	2355	9820	66	20	2155	66886	24.40	24.43
		30	10	2310	27710	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	66	20	2155	66886	23.49	23.49
		66	20	1745	132322	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	30	10	2355	9820	23.43	23.50
		2	20	1880	18900	QPSK	1	0	12	10	737.5	5095	66	20	2155	66886	66	5	2197.5	67311	23.40	23.43
		12	10	711	23130	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	5	2197.5	67311	24.38	24.43
		66	20	1745	132322	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	66	5	2197.5	67311	23.44	23.50
		2	20	1880	18900	QPSK	1	0	12	10	737.5	5095	66	20	2155	66886	66	20	2174.8	67084	23.35	23.43
		12	10	711	23130	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	20	2174.8	67084	24.35	24.43
		66	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	2	20	1960	900	12	10	737.5	5095	23.46	23.50
		66(4X4MIMO)	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	2	20	1960	900	12	10	737.5	5095	23.47	23.50
		2	20	1880	18900	QPSK	1	0	13	10	751	5230	66	20	2155	66886	66	5	2197.5	67311	23.36	23.43
		13	10	782	23230	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	5	2197.5	67311	24.41	24.45
		66	20	1745	132322	QPSK	1	0	2	20	1960	900	13	10	751	5230	66	5	2197.5	67311	23.48	23.50
		2	20	1880	18900	QPSK	1	0	13	10	751	5230	66	15	2155	66886	66	5	2164.3	66979	23.36	23.43
		13	10	782	23230	QPSK	1	0	2	20	1960	900	66	15	2155	66886	66	5	2164.3	66979	24.43	24.45
		66	15	1717.5	132047	QPSK	1	0	66	5	2126.8	66604	2	20	1960	900	13	10	751	5230	23.35	23.44
		66(4X4MIMO)	15	1717.5	132047	QPSK	1	0	66	5	2126.8	66604	2	20	1960	900	13	10	751	5230	23.35	23.44
		2	20	1880	18900	QPSK	1	0	13	10	751	5230	66	20	2155	66886	66	20	2174.8	67084	23.35	23.43
		13	10	782	23230	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	20	2174.8	67084	24.35	24.45
		66	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	2	20	1960	900	13	10	751	5230	23.41	23.50
		66(4X4MIMO)	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	2	20	1960	900	13	10	751	5230	23.50	23.50
		2	20	1880	18900	QPSK	1	0	66	20	2155	66886	66	20	2174.8	67084	71	20	637	68786	23.41	23.43
		66	20	1745	132322	QPSK	1	0	2	20	1960	900	66	20	2174.8	67084	71	20	637	68786	23.43	23.50
		71	20	673	133222	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	20	2174.8	67084	24.37	24.45
		2	20	1880	18900	QPSK	1	0	66	20	2155	66886	66	5	2197.5	67311	71	20	637	68786	23.33	23.43
		66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	2	20	1960	900	71	20	637	68786	23.42	23.50
		66(4X4MIMO)	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	2	20	1960	900	71	20	637	68786	23.45	23.50
		71	20	673	133222	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	5	2197.5	67311	24.36	24.45
		5	10	844	20600	QPSK	1	0	30	10	2355	9820	66	20	2155	66886	66	5	2197.5	67311	24.16	24.20
		30	10	2310	27710	QPSK	1	0	5	10	881.5	2525	66	20	2155	66886	66	5	2197.5	67311	23.49	23.49
		66	20	1745	132322	QPSK	1	0	5	10	881.5	2525	30	10	2355	9820	66	5	2197.5	67311	23.46	23.50
		12	10	711	23130	QPSK	1	0	30	10	2355	9820	66	20	2155	66886	66	5	2197.5	67311	24.39	24.43
		30	10	2310	27710	QPSK	1	0	12	10	737.5	5095	66	20	2155	66886	66	5	2197.5	67311	23.45	23.49
		66	20	1745	132322	QPSK	1	0	12	10	737.5	5095	30	10	2355	9820	66	5	2197.5	67311	23.40	23.50
		25	20	1880	26340	QPSK	1	0	41	20	2593	40620	41	5	2687.5	41565	41	20	2675.8	41448	23.46	23.50
		41	20	2549.5	40185	QPSK	1	0	25	20	1960	8340	41	5	2687.5	41565	41	20	2675.8	41448	24.68	24.70
		41	20	2549.5	40185	QPSK	1	0	41	20	2529.7	40383	25	20	1960	8340	41	5	2687.5	41565	24.62	24.70
		25	20	1880	26340	QPSK	1	0	41	20	2593	40620	41	20	2612.8	40818	41	20	2632.6	42736	23.48	23.50
		41	20	2549.5	40185	QPSK	1	0	41	20	2569.3	40383	41	20	2589.1	40581	25	20	1960	8340	24.64	24.70
Intra-Band	Non-Contiguous	41	20	2549.5	40185	QPSK	1	0	41	20	2593	40620	41	20	2612.8	40818	41	20	2632.6	42736	24.63	24.70
		41(4X4MIMO)	20	2549.5	40185	QPSK	1	0	41	20	2593	40620	41	20	2612.8	40818	41	20	2632.6	42736	24.68	24.70
		41	20	2549.5	40185	QPSK	1	0	41	20	2569.3	40383	41	20	2589.1	40581	41	5	2687.5	41565	24.61	24.70

<Five Carrier power verification>

Configure		PCC							SCC1				SCC2				SCC3				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	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	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2	20	1880	18900	QPSK	1	0	46	20	5537.5	50665	46	10	5920	54490	46	20	5905.6	54346	23.35	23.43
		66	20	1745	132322	QPSK	1	0	2	20	1960	900	46	20	5537.5	50665	46	10	5920	54490	23.42	23.50
		2	20	1880	18900	QPSK	1	0	46	20	5537.5	50665	46	20	5557.3	50863	46	20	5577.1	51061	23.40	23.43
		66	20	1745	132322	QPSK	1	0	2	20	1960	900	46	20	5537.5	50665	46	20	5557.3	50863	23.40	23.50
		4	20	1732.5	20175	QPSK	1	0	46	20	5537.5	50665	46	10	5920	54490	46	20	5905.6	54346	23.42	23.42
		13	10	782	23230	QPSK	1	0	46	20	5537.5	50665	46	20	5557.3	50863	46	20	5577.1	51061	24.40	24.45
		66	20	1745	132322	QPSK	1	0	46	20	5537.5	50665	46	20	5557.3	50863	46	20	5577.1	51061	23.47	23.50

**<WLAN Conducted Power>****General Note:**

1. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is $< 1.6\text{W/kg}$ and SAR peak to location ratio ≤ 0.04 , no additional SAR measurements for MIMO.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. 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.¹⁸ The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is $\leq 0.4\text{ W/kg}$, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is $> 0.4\text{ W/kg}$, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is $\leq 0.8\text{ W/kg}$ or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is $> 0.8\text{ W/kg}$, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is $\leq 1.2\text{ W/kg}$ or all required channels are tested.



<2.4GHz WLAN>

<WWAN off>

Power Selection				Head			Head			Head						
Transmit Antenna				Ant 4			Ant 5			Ant 4+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	13.69	14.00	100.00	18.00	18.00	100.00	15.70	16.00	17.14	18.00	19.49	20.00	100.00
		6	2437	13.50	14.00		17.95	18.00		15.80	16.00	17.01	18.00	19.46	20.00	
		11	2462	13.77	14.00		17.77	18.00		16.00	16.00	17.20	18.00	19.65	20.00	
		12	2467	13.48	14.00		17.33	17.50		15.68	16.00	17.00	17.50	19.40	20.00	
		13	2472	13.49	14.00		14.32	14.50		14.32	14.50	14.33	14.50	17.34	17.50	
	802.11g 6Mbps	1	2412	13.31	14.00	98.07	17.87	18.00	98.31	15.95	16.00	16.65	18.00	19.32	20.00	98.10
		6	2437	13.10	14.00		18.00	18.00		15.32	16.00	16.58	18.00	19.01	20.00	
		10	2457	13.08	14.00		16.10	17.00		15.21	16.00	16.33	18.00	18.82	20.00	
		11	2462	13.51	14.00		16.21	17.00		15.94	16.00	16.53	17.00	19.26	20.00	
		12	2467	9.12	9.50		9.12	9.50		9.23	9.50	9.15	9.50	12.20	12.50	
	802.11n-HT20 MCS0	1	2412	13.29	14.00	98.19	16.69	17.00	98.19	15.50	16.00	16.72	17.00	19.16	20.00	98.19
		6	2437	13.22	14.00		18.00	18.00		16.00	16.00	16.50	17.00	19.27	20.00	
		10	2457	13.02	14.00		14.81	15.50		14.82	15.50	14.80	15.50	17.82	18.50	
		11	2462	13.48	14.00		14.99	15.50		14.90	15.50	15.03	15.50	17.98	18.50	
		12	2467	9.23	9.50		9.35	9.50		9.07	9.50	9.21	9.50	12.15	12.50	
	802.11ac-VHT20 MCS0	1	2412	13.48	14.00	98.20	16.67	17.00	98.20	15.50	16.00	16.69	17.00	19.15	20.00	98.20
		6	2437	13.58	14.00		17.90	18.00		15.90	16.00	16.69	17.00	19.32	20.00	
		10	2457	13.44	14.00		14.80	15.50		14.74	15.50	14.81	15.50	17.79	18.50	
		11	2462	13.67	14.00		14.85	15.50		14.89	15.50	14.88	15.50	17.90	18.50	
		12	2467	9.09	9.50		9.26	9.50		9.35	9.50	9.23	9.50	12.30	12.50	
		13	2472	3.10	3.50		3.22	3.50		3.16	3.50	3.22	3.50	6.20	6.50	



Power Selection				Hotspot / Body-worn			Hotspot / Body-worn			Hotspot / Body-worn						
Transmit Antenna				Ant 4			Ant 5			Ant 4+5						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	19.59	20.00	100.00	20.00	20.00	100.00	19.72	20.00	20.00	20.00	22.91	23.00	100.00
		6	2437	18.00	18.50		18.39	18.50		18.04	18.50	18.46	18.50	21.27	21.50	
		11	2462	18.50	18.50		18.49	18.50		18.49	18.50	18.50	18.50	21.50	21.50	
		12	2467	17.03	17.50		17.22	17.50		17.18	18.50	17.29	18.50	20.25	21.50	
		13	2472	13.83	14.50		14.02	14.50		13.84	14.50	14.13	14.50	17.00	17.50	
	802.11g 6Mbps	1	2412	17.32	18.00	98.07	17.87	18.00	98.31	17.48	18.00	17.85	18.00	20.70	21.00	98.10
		6	2437	18.10	20.00		18.29	20.00		18.11	20.00	18.41	20.00	22.26	23.00	
		10	2457	17.88	18.50		18.08	18.50		17.89	18.50	18.23	18.50	21.07	21.50	
		11	2462	16.01	17.00		16.21	17.00		16.10	17.00	16.10	17.00	19.13	20.00	
		12	2467	8.93	9.50		9.09	9.50		8.94	9.50	9.08	9.50	12.02	12.50	
		13	2472	2.48	3.50		2.38	3.50		2.49	3.50	2.60	3.50	5.56	6.50	
	802.11n-HT20 MCS0	1	2412	16.09	17.00	98.19	16.69	17.00	98.19	16.20	17.00	16.72	17.00	19.44	20.00	98.19
		6	2437	18.22	20.00		18.64	20.00		18.23	20.00	18.68	20.00	22.12	23.00	
		10	2457	17.92	18.50		18.40	18.50		18.09	18.50	18.46	18.50	21.29	21.50	
		11	2462	14.88	15.50		14.99	15.50		14.90	15.50	15.03	15.50	17.94	18.50	
		12	2467	8.82	9.50		8.97	9.50		8.85	9.50	9.00	9.50	11.94	12.50	
		13	2472	3.30	3.50		3.08	3.50		3.31	3.50	3.50	3.50	6.44	6.50	
	802.11ac-VHT20 MCS0	1	2412	16.08	17.00	98.20	16.67	17.00	98.20	16.15	17.00	16.69	17.00	19.44	20.00	98.20
		6	2437	18.18	20.00		18.63	20.00		18.20	20.00	18.67	20.00	21.45	23.00	
		10	2457	17.91	18.50		18.39	18.50		17.98	18.50	18.47	18.50	21.24	21.50	
		11	2462	14.87	15.50		14.85	15.50		14.89	15.50	14.88	15.50	17.90	18.50	
		12	2467	8.79	9.50		8.92	9.50		8.80	9.50	8.95	9.50	11.89	12.50	
		13	2472	3.22	3.50		3.01	3.50		3.24	3.50	3.04	3.50	6.15	6.50	



<WWAN on>

Power Selection				Head			Head			Head						
Transmit Antenna				Ant 4			Ant 5			Ant 4+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	8.25	8.50	100.00	12.97	13.50	100.00	10.61	11.00	10.74	11.00	13.69	14.00	100.00
		6	2437	8.06	8.50		12.66	13.50		10.49	11.00	10.63	11.00	13.57	14.00	
		11	2462	8.16	8.50		12.78	13.50		10.77	11.00	10.75	11.00	13.77	14.00	
		12	2467	8.04	8.50		12.65	13.50		10.62	11.00	10.57	11.00	13.61	14.00	
		13	2472	8.01	8.50		12.67	13.50		10.38	11.00	10.32	11.00	13.36	14.00	
	802.11g 6Mbps	1	2412	8.22	8.50	98.07	13.16	13.50	98.31	10.60	10.80	10.75	11.00	13.69	14.00	98.10
		6	2437	8.15	8.50		13.05	13.50		10.61	10.80	10.78	11.00	13.71	14.00	
		10	2457	8.03	8.50		12.95	13.50		10.53	10.80	10.71	11.00	13.63	14.00	
		11	2462	8.13	8.50		13.02	13.50		10.73	10.80	10.76	11.00	13.76	14.00	
		12	2467	8.12	8.50		9.25	9.50		9.32	9.50	9.37	9.50	12.36	12.50	
		13	2472	3.32	3.50		3.22	3.50		3.32	3.50	3.20	3.50	6.27	6.50	
	802.11n-HT20 MCS0	1	2412	8.26	8.50	98.19	13.00	13.50	98.19	10.74	10.80	10.64	11.00	13.70	14.00	98.19
		6	2437	8.28	8.50		13.07	13.50		10.72	10.80	10.66	11.00	13.70	14.00	
		10	2457	8.21	8.50		12.96	13.50		10.62	10.80	10.64	11.00	13.64	14.00	
		11	2462	8.27	8.50		13.20	13.50		10.68	10.80	10.70	11.00	13.70	14.00	
		12	2467	8.12	8.50		9.31	9.50		9.28	9.50	9.19	9.50	12.25	12.50	
		13	2472	3.22	3.50		3.09	3.50		3.17	3.50	3.37	3.50	6.28	6.50	
	802.11ac-VHT20 MCS0	1	2412	8.12	8.50	98.20	13.03	13.50	98.20	10.78	10.80	10.66	11.00	13.73	14.00	98.20
		6	2437	8.19	8.50		13.05	13.50		10.68	10.80	10.80	11.00	13.75	14.00	
		10	2457	8.15	8.50		13.01	13.50		10.59	10.80	10.78	11.00	13.70	14.00	
		11	2462	8.13	8.50		13.12	13.50		10.62	10.80	10.77	11.00	13.71	14.00	
		12	2467	8.07	8.50		9.17	9.50		9.17	9.50	9.23	9.50	12.21	12.50	
		13	2472	3.19	3.50		3.16	3.50		3.24	3.50	3.26	3.50	6.26	6.50	



Power Selection				Hotspot / Body-worn			Hotspot / Body-worn			Hotspot / Body-worn						
Transmit Antenna				Ant 4			Ant 5			Ant 4+5						
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	14.33	14.50	100.00	20.00	20.00	100.00	18.50	18.50	18.94	20.00	21.74	22.00	100.00
		6	2437	14.28	14.50		18.39	18.50		18.04	18.50	18.46	18.50	21.27	21.50	
		11	2462	14.31	14.50		18.49	18.50		18.49	18.50	18.50	18.50	21.50	21.50	
		12	2467	14.25	14.50		17.32	17.50		18.41	18.50	18.42	18.50	21.43	21.50	
		13	2472	14.22	14.50		14.23	14.50		14.27	14.50	14.20	14.50	17.25	17.50	
	802.11g 6Mbps	1	2412	14.19	14.50	98.07	17.87	18.00	98.31	17.48	18.00	17.85	18.00	20.70	21.00	98.10
		6	2437	14.14	14.50		18.29	20.00		18.11	20.00	18.41	20.00	22.26	23.00	
		10	2457	14.02	14.50		16.15	17.00		16.08	17.00	15.99	17.00	19.05	20.00	
		11	2462	14.12	14.50		16.21	17.00		16.10	17.00	16.10	17.00	19.13	20.00	
		12	2467	9.28	9.50		9.17	9.50		9.30	9.50	9.25	9.50	12.29	12.50	
	802.11n-HT20 MCS0	1	2412	14.28	14.50	98.19	16.69	17.00	98.19	16.20	17.00	16.72	17.00	19.44	20.00	98.19
		6	2437	14.25	14.50		18.64	20.00		18.23	20.00	18.68	20.00	22.12	23.00	
		10	2457	14.10	14.50		14.91	15.50		14.82	15.50	14.92	15.50	17.88	18.50	
		11	2462	14.14	14.50		14.99	15.50		14.90	15.50	15.03	15.50	17.94	18.50	
		12	2467	9.18	9.50		9.28	9.50		9.24	9.50	9.18	9.50	12.22	12.50	
	802.11ac-VHT20 MCS0	1	2412	14.18	14.50	98.20	16.67	17.00	98.20	16.15	17.00	16.69	17.00	19.44	20.00	98.20
		6	2437	14.09	14.50		18.63	20.00		18.20	20.00	18.67	20.00	21.45	23.00	
		10	2457	14.11	14.50		14.81	15.50		14.85	15.50	14.82	15.50	17.85	18.50	
		11	2462	14.15	14.50		14.85	15.50		14.89	15.50	14.88	15.50	17.90	18.50	
		12	2467	9.21	9.50		9.30	9.50		9.16	9.50	9.22	9.50	12.20	12.50	
		13	2472	3.17	3.50		3.18	3.50		3.19	3.50	3.16	3.50	6.19	6.50	



<5GHz WLAN>

<WWAN off>

Power Selection				Head			Head			Head						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	16.95	17.00	98.07	14.16	15.50	98.07	14.80	16.00	15.55	16.00	18.20	19.00	98.10
		40	5200	16.92	17.00		14.18	15.50		14.82	16.00	15.71	16.00	18.30	19.00	
		44	5220	16.95	17.00		14.22	15.50		14.75	16.00	15.65	16.00	18.23	19.00	
		48	5240	16.95	17.00		14.30	15.50		14.77	16.00	15.71	16.00	18.28	19.00	
	802.11n-HT20 MCS0	36	5180	16.62	17.00	97.94	14.19	15.50	97.94	14.68	16.00	15.71	16.00	18.24	19.00	97.97
		40	5200	16.78	17.00		14.23	15.50		14.78	16.00	15.69	16.00	18.27	19.00	
		44	5220	16.82	17.00		14.25	15.50		14.62	16.00	15.67	16.00	18.19	19.00	
		48	5240	16.92	17.00		14.17	15.50		14.69	16.00	15.59	16.00	18.17	19.00	
	802.11n-HT40 MCS0	38	5190	14.29	15.00	95.88	14.18	15.50	95.88	14.33	15.00	14.49	15.00	17.42	18.00	95.96
		46	5230	16.97	17.00		14.23	15.50		14.95	16.00	15.60	16.00	18.30	19.00	
	802.11ac-VHT20 MCS0	36	5180	16.82	17.00	97.95	14.17	15.50	97.95	14.76	16.00	15.69	16.00	18.26	19.00	97.98
		40	5200	16.97	17.00		14.10	15.50		14.80	16.00	15.54	16.00	18.20	19.00	
		44	5220	16.92	17.00		14.11	15.50		14.75	16.00	15.65	16.00	18.23	19.00	
		48	5240	16.82	17.00		14.22	15.50		14.78	16.00	15.59	16.00	18.21	19.00	
	802.11ac-VHT40 MCS0	38	5190	14.28	14.50	95.92	14.27	14.50	95.92	14.31	14.50	14.48	14.50	17.40	17.50	95.98
		46	5230	16.92	17.00		14.11	15.50		14.30	16.00	15.52	16.00	17.96	19.00	
	802.11ac-VHT80 MCS0	42	5210	13.46	14.50	95.56	13.78	14.50	95.56	13.53	14.50	13.84	14.50	16.70	17.50	95.56

Power Selection				Hotspot / Body-worn			Hotspot / Body-worn			Hotspot / Body-worn						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	17.66	18.50	98.07	17.69	18.50	98.08	17.73	18.50	17.76	18.50	20.76	21.50	98.10
		40	5200	17.24	18.50		17.91	18.50		17.89	18.50	17.89	18.50	20.90	21.50	
		44	5220	18.07	18.50		18.05	18.50		18.16	18.50	18.13	18.50	21.16	21.50	
		48	5240	18.12	18.50		17.89	18.50		18.14	18.50	18.08	18.50	21.12	21.50	
	802.11n-HT20 MCS0	36	5180	17.49	18.50	97.94	17.61	18.50	97.42	17.59	18.50	17.79	18.50	20.70	21.50	97.97
		40	5200	17.16	18.50		17.84	18.50		17.69	18.50	17.69	18.50	20.70	21.50	
		44	5220	18.24	18.50		18.01	18.50		18.27	18.50	18.07	18.50	21.18	21.50	
		48	5240	18.12	18.50		17.74	18.50		18.24	18.50	18.04	18.50	21.15	21.50	
	802.11n-HT40 MCS0	38	5190	14.29	14.50	95.88	14.48	14.50	95.88	14.33	14.50	14.49	14.50	17.42	17.50	95.96
		46	5230	18.11	18.50		17.81	18.50		18.18	18.50	18.06	18.50	21.13	21.50	
	802.11ac-VHT20 MCS0	36	5180	17.46	18.50	97.95	17.58	18.50	97.44	17.54	18.50	17.63	18.50	20.59	21.50	97.98
		40	5200	16.97	18.50		17.70	18.50		17.61	18.50	17.70	18.50	20.67	21.50	
		44	5220	18.12	18.50		17.81	18.50		18.19	18.50	18.04	18.50	21.12	21.50	
		48	5240	17.92	18.50		17.63	18.50		17.94	18.50	17.99	18.50	20.97	21.50	
	802.11ac-VHT40 MCS0	38	5190	14.28	14.50	95.92	14.46	14.50	95.88	14.31	14.50	14.48	14.50	17.40	17.50	95.98
		46	5230	17.98	18.50		17.61	18.50		17.99	18.50	18.02	18.50	21.01	21.50	
	802.11ac-VHT80 MCS0	42	5210	13.46	14.50	95.56	13.78	14.50	95.51	13.53	14.50	13.84	14.50	16.70	17.50	95.56



Power Selection				Head			Head			Head						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	16.89	17.00	98.07	14.22	14.50	98.07	14.85	16.00	15.26	16.00	18.07	19.00	98.10
		56	5280	16.85	17.00		14.32	14.50		14.95	16.00	15.45	16.00	18.22	19.00	
		60	5300	16.80	17.00		14.20	14.50		14.88	16.00	15.31	16.00	18.11	19.00	
		64	5320	16.82	17.00		13.98	14.50		14.92	16.00	15.37	16.00	18.16	19.00	
	802.11n-HT20 MCS0	52	5260	16.80	17.00	97.94	14.25	14.50	97.94	14.87	16.00	15.43	16.00	18.17	19.00	97.97
		56	5280	16.99	17.00		14.36	14.50		14.88	16.00	15.45	16.00	18.18	19.00	
		60	5300	16.85	17.00		14.48	14.50		14.94	16.00	15.42	16.00	18.20	19.00	
		64	5320	16.92	17.00		14.32	14.50		14.94	16.00	15.28	16.00	18.12	19.00	
	802.11n-HT40 MCS0	54	5270	16.71	17.00	95.88	14.22	14.50	95.88	15.00	16.00	15.21	16.00	18.12	19.00	95.96
		62	5310	14.96	15.00		14.21	14.50		14.99	15.00	14.95	15.00	17.98	18.00	
	802.11ac-VHT20 MCS0	52	5260	16.82	17.00	97.95	14.36	14.50	97.95	14.95	16.00	15.45	16.00	18.22	19.00	97.98
		56	5280	16.94	17.00		14.48	14.50		14.91	16.00	15.39	16.00	18.17	19.00	
		60	5300	16.68	17.00		14.23	14.50		14.78	16.00	15.27	16.00	18.04	19.00	
		64	5320	16.53	17.00		14.00	14.50		14.77	16.00	15.25	16.00	18.03	19.00	
	802.11ac-VHT40 MCS0	54	5270	16.65	17.00	95.92	14.28	14.50	95.92	14.75	16.00	15.25	16.00	18.02	19.00	95.98
		62	5310	14.95	15.00		14.28	14.50		15.00	15.00	14.83	15.00	17.92	18.00	
	802.11ac-VHT80 MCS0	58	5290	14.12	14.50	95.56	13.99	14.50	95.56	14.16	14.50	14.05	14.50	17.12	17.50	95.56

Power Selection				Body-worn			Body-worn			Body-worn						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	17.92	18.50	98.07	17.79	18.50	98.08	18.12	18.50	18.10	18.50	21.12	21.50	98.10
		56	5280	17.00	18.50		17.74	18.50		17.48	18.50	17.50	18.50	20.51	21.50	
		60	5300	17.95	18.50		17.81	18.50		18.15	18.50	18.11	18.50	21.14	21.50	
		64	5320	17.48	17.50		17.18	17.50		17.52	17.50	17.20	17.50	20.38	20.50	
	802.11n-HT20 MCS0	52	5260	18.20	18.50	97.94	17.66	18.50	97.42	18.23	18.50	18.01	18.50	21.13	21.50	97.97
		56	5280	16.99	18.50		17.81	18.50		17.28	18.50	17.30	18.50	20.30	21.50	
		60	5300	18.23	18.50		18.03	18.50		18.25	18.50	18.04	18.50	21.16	21.50	
		64	5320	17.37	17.50		16.92	17.50		17.39	17.50	17.09	17.50	20.25	20.50	
	802.11n-HT40 MCS0	54	5270	18.46	18.50	95.88	18.39	18.50	95.88	18.50	18.50	18.41	18.50	21.48	21.50	95.96
		62	5310	14.96	15.00		14.94	15.00		15.00	15.00	14.95	15.00	18.00	18.00	
	802.11ac-VHT20 MCS0	52	5260	18.09	18.50	97.95	17.58	18.50	97.44	18.11	18.50	17.90	18.50	21.02	21.50	97.98
		56	5280	16.94	18.50		17.79	18.50		17.24	18.50	17.30	18.50	20.28	21.50	
		60	5300	18.07	18.50		17.83	18.50		18.10	18.50	17.86	18.50	20.99	21.50	
		64	5320	17.32	17.50		16.90	17.50		17.35	17.50	17.07	17.50	20.22	20.50	
	802.11ac-VHT40 MCS0	54	5270	18.42	18.50	95.92	18.32	18.50	95.88	18.46	18.50	18.38	18.50	21.43	21.50	95.98
		62	5310	14.95	15.00		14.82	15.00		15.00	15.00	14.83	15.00	17.92	18.00	
	802.11ac-VHT80 MCS0	58	5290	14.12	14.50	95.56	13.99	14.50	95.51	14.16	14.50	14.05	14.50	17.12	17.50	95.56

Power Selection				Head			Head			Head						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	14.59	15.00	98.07	14.07	14.50	98.07	14.80	15.00	15.94	16.50	18.42	19.00	98.10
		116	5580	14.59	15.00		13.91	14.50		14.72	15.00	15.82	16.50	18.32	19.00	
		124	5620	14.56	15.00		14.09	14.50		14.67	15.00	15.90	16.50	18.34	19.00	
		132	5660	14.57	15.00		14.20	14.50		14.61	15.00	15.95	16.50	18.34	19.00	
		144	5720	14.70	15.00		13.92	14.50		14.66	15.00	15.82	16.50	18.29	19.00	
	802.11n-HT20 MCS0	100	5500	14.71	15.00	97.94	14.16	14.50	97.94	14.65	15.00	15.84	16.50	18.30	19.00	97.97
		116	5580	14.62	15.00		14.00	14.50		14.60	15.00	16.00	16.50	18.37	19.00	
		124	5620	14.56	15.00		14.19	14.50		14.66	15.00	15.85	16.50	18.31	19.00	
		132	5660	14.59	15.00		14.19	14.50		14.72	15.00	15.91	16.50	18.37	19.00	
		144	5720	14.73	15.00		14.00	14.50		14.63	15.00	15.90	16.50	18.32	19.00	
	802.11n-HT40 MCS0	102	5510	14.72	15.00	95.88	13.90	14.50	95.88	14.71	15.00	15.95	16.50	18.38	19.00	95.96
		110	5550	14.90	15.00		13.96	14.50		14.78	15.00	15.87	16.50	18.37	19.00	
		126	5630	14.81	15.00		14.12	14.50		14.73	15.00	15.81	16.50	18.31	19.00	
		134	5670	14.79	15.00		14.16	14.50		14.63	15.00	15.97	16.50	18.36	19.00	
		142	5710	14.71	15.00		14.18	14.50		14.64	15.00	15.93	16.50	18.34	19.00	
	802.11ac-VHT20 MCS0	100	5500	14.78	15.00	97.95	13.98	14.50	97.95	14.66	15.00	15.94	16.50	18.36	19.00	97.98
		116	5580	14.80	15.00		14.20	14.50		14.65	15.00	16.00	16.50	18.39	19.00	
		124	5620	14.88	15.00		14.12	14.50		14.76	15.00	15.94	16.50	18.40	19.00	
		132	5660	14.83	15.00		13.90	14.50		14.68	15.00	15.83	16.50	18.30	19.00	
		144	5720	14.80	15.00		14.19	14.50		14.62	15.00	15.93	16.50	18.33	19.00	
	802.11ac-VHT40 MCS0	102	5510	14.81	15.00	95.92	14.08	14.50	95.92	14.70	15.00	15.83	16.50	18.31	19.00	95.98
		110	5550	14.72	15.00		13.95	14.50		14.68	15.00	15.83	16.50	18.30	19.00	
		126	5630	14.65	15.00		13.92	14.50		14.66	15.00	15.85	16.50	18.31	19.00	
		134	5670	14.58	15.00		14.18	14.50		14.71	15.00	15.97	16.50	18.40	19.00	
		142	5710	14.63	15.00		14.06	14.50		14.79	15.00	15.98	16.50	18.44	19.00	
	802.11ac-VHT80 MCS0	106	5530	14.50	15.00	95.56	14.16	14.50	95.56	14.35	14.50	14.39	14.50	17.38	17.50	95.56
		122	5610	14.49	15.00		14.15	14.50		14.7	15.00	15.70	16.50	18.24	19.00	
		138	5690	14.88	15.00		14.21	14.50		14.71	15.00	15.71	16.50	18.25	19.00	

Power Selection				Body-worn			Body-worn			Body-worn						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	17.02	18.50	98.07	17.26	18.50	98.08	17.13	18.50	17.29	18.50	20.22	21.50	98.10
		116	5580	18.03	18.50		17.71	18.50		18.07	18.50	18.01	18.50	21.05	21.50	
		124	5620	16.53	18.50		17.46	18.50		17.60	18.50	17.40	18.50	20.51	21.50	
		132	5660	16.50	18.50		17.59	18.50		17.49	18.50	17.40	18.50	20.46	21.50	
		144	5720	16.86	18.50		16.90	18.50		16.99	18.50	17.20	18.50	20.11	21.50	
	802.11n-HT20 MCS0	100	5500	17.35	18.00	97.94	17.65	18.00	97.42	17.59	18.50	17.79	18.50	20.70	21.00	97.97
		116	5580	17.40	18.00		17.33	18.00		17.47	18.50	17.36	18.50	20.42	21.00	
		124	5620	16.55	18.00		17.34	18.00		17.18	18.50	17.19	18.50	20.20	21.00	
		132	5660	16.58	18.00		17.27	18.00		17.18	18.50	17.08	18.50	20.14	21.00	
		144	5720	16.77	18.00		16.90	18.00		17.14	18.50	17.07	18.50	20.11	21.00	
	802.11n-HT40 MCS0	102	5510	15.25	16.50	95.88	15.68	16.50	95.88	15.35	16.50	15.77	16.50	18.57	19.50	95.96
		110	5550	18.04	18.50		18.12	18.50		18.13	18.50	18.46	18.50	21.31	21.50	
		126	5630	17.28	18.50		17.87	18.50		18.35	18.50	18.12	18.50	21.25	21.50	
		134	5670	17.95	18.50		17.49	18.50		18.28	18.50	17.63	18.50	20.98	21.50	
		142	5710	17.70	18.50		17.74	18.50		18.10	18.50	17.82	18.50	20.97	21.50	
	802.11ac-VHT20 MCS0	100	5500	17.29	18.00	97.95	17.54	18.00	97.44	17.44	18.50	17.62	18.50	20.54	21.00	97.98
		116	5580	17.39	18.00		17.27	18.00		17.40	18.50	17.31	18.50	20.36	21.00	
		124	5620	16.55	18.00		17.29	18.00		17.20	18.50	17.12	18.50	20.17	21.00	
		132	5660	16.52	18.00		17.14	18.00		17.08	18.50	17.12	18.50	20.11	21.00	
		144	5720	16.69	18.00		16.87	18.00		17.11	18.50	16.89	18.50	20.01	21.00	
	802.11ac-VHT40 MCS0	102	5510	15.24	16.50	95.92	15.62	16.50	95.88	15.26	16.50	15.75	16.50	18.52	19.50	95.98
		110	5550	18.03	18.50		18.08	18.50		18.12	18.50	18.43	18.50	21.29	21.50	
		126	5630	17.08	18.50		17.75	18.50		18.10	18.50	18.15	18.50	21.14	21.50	
		134	5670	17.85	18.50		17.32	18.50		18.18	18.50	17.39	18.50	20.81	21.50	
		142	5710	17.68	18.50		17.58	18.50		18.01	18.50	17.60	18.50	20.82	21.50	
	802.11ac-VHT80 MCS0	106	5530	14.11	15.00	95.56	14.47	15.00	95.51	14.35	15.00	14.39	15.00	17.38	18.00	95.56
		122	5610	17.73	18.50		17.51	18.50		17.87	18.50	17.90	18.50	20.90	21.50	
		138	5690	17.45	18.50		17.13	18.50		17.69	18.50	17.30	18.50	20.51	21.50	



Power Selection				Head			Head			Head						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
	802.11a MCS0	149	5745	16.36	16.50	98.07	15.27	15.50	98.07	14.71	16.00	15.46	16.00	18.11	19.00	98.10
		157	5785	16.28	16.50		15.12	15.50		14.80	16.00	15.45	16.00	18.15	19.00	
		165	5825	16.28	16.50		15.27	15.50		14.86	16.00	15.44	16.00	18.17	19.00	
	802.11n-HT20 MCS0	149	5745	16.50	16.50	97.94	15.17	15.50	97.94	14.80	16.00	15.48	16.00	18.16	19.00	97.97
		157	5785	16.42	16.50		15.30	15.50		14.74	16.00	15.44	16.00	18.11	19.00	
		165	5825	16.35	16.50		15.20	15.50		14.88	16.00	15.50	16.00	18.21	19.00	
	802.11n-HT40 MCS0	151	5755	16.29	16.50	95.88	15.28	15.50	95.88	14.85	16.00	15.49	16.00	18.19	19.00	95.96
		159	5795	16.49	16.50		15.16	15.50		14.75	16.00	15.44	16.00	18.12	19.00	
	802.11ac-VHT20 MCS0	149	5745	16.28	16.50	97.95	15.20	15.50	97.95	14.81	16.00	15.39	16.00	18.12	19.00	97.98
		157	5785	16.50	16.50		15.23	15.50		14.88	16.00	15.31	16.00	18.11	19.00	
		165	5825	16.29	16.50		15.23	15.50		14.79	16.00	15.44	16.00	18.14	19.00	
	802.11ac-VHT40 MCS0	151	5755	16.39	16.50	95.92	15.18	15.50	95.92	14.70	16.00	15.32	16.00	18.03	19.00	95.98
		159	5795	16.38	16.50		15.23	15.50		14.73	16.00	15.36	16.00	18.07	19.00	
	802.11ac-VHT80 MCS0	155	5775	16.38	16.50	95.56	15.02	15.50	95.56	14.70	16.00	15.30	16.00	18.02	19.00	95.56

Power Selection				Hotspot / Body-worn			Hotspot / Body-worn			Hotspot / Body-worn						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
	802.11a MCS0	149	5745	17.70	18.50	98.07	16.79	18.50	98.08	17.73	18.50	17.23	18.50	20.50	21.50	98.10
		157	5785	17.17	18.50		16.97	18.50		17.18	18.50	17.01	18.50	20.11	21.50	
		165	5825	17.34	18.50		16.88	18.50		17.36	18.50	17.40	18.50	20.39	21.50	
	802.11n-HT20 MCS0	149	5745	17.52	18.50	97.94	17.30	18.50	97.42	17.85	18.50	17.40	18.50	20.64	21.50	97.97
		157	5785	16.73	18.50		16.56	18.50		17.22	18.50	17.00	18.50	20.12	21.50	
		165	5825	16.68	18.50		16.56	18.50		16.74	18.50	16.67	18.50	19.71	21.50	
	802.11n-HT40 MCS0	151	5755	17.22	18.50	95.88	17.71	18.50	95.88	17.50	18.50	17.78	18.50	20.65	21.50	95.96
		159	5795	16.56	18.50		17.24	18.50		16.83	18.50	17.28	18.50	20.07	21.50	
	802.11ac-VHT20 MCS0	149	5745	17.09	18.50	97.95	17.25	18.50	97.44	17.46	18.50	17.39	18.50	20.43	21.50	97.98
		157	5785	16.67	18.50		16.55	18.50		17.13	18.50	16.52	18.50	19.83	21.50	
		165	5825	16.52	18.50		16.51	18.50		16.51	18.50	16.59	18.50	19.56	21.50	
	802.11ac-VHT40 MCS0	151	5755	17.25	18.50	95.92	17.45	18.50	95.88	17.43	18.50	17.48	18.50	20.46	21.50	95.98
		159	5795	16.58	18.50		17.05	18.50		16.78	18.50	17.08	18.50	19.94	21.50	
	802.11ac-VHT80 MCS0	155	5775	16.71	18.00	95.56	17.21	18.00	95.51	17.05	18.00	17.30	18.00	20.19	21.00	95.56



<WWAN on>

Power Selection				Head			Head			Head						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	10.66	11.00	98.07	8.68	9.00	98.08	9.96	11.00	10.70	11.00	13.36	14.00	98.10
		40	5200	10.71	11.00		8.69	9.00		9.96	11.00	10.74	11.00	13.38	14.00	
		44	5220	10.72	11.00		8.78	9.00		9.97	11.00	10.66	11.00	13.34	14.00	
		48	5240	10.72	11.00		8.73	9.00		9.86	11.00	10.78	11.00	13.35	14.00	
	802.11n-HT20 MCS0	36	5180	10.60	11.00	97.94	8.67	9.00	97.42	9.85	11.00	10.60	11.00	13.25	14.00	97.97
		40	5200	10.68	11.00		8.65	9.00		9.98	11.00	10.67	11.00	13.35	14.00	
		44	5220	10.73	11.00		8.62	9.00		9.88	11.00	10.71	11.00	13.33	14.00	
		48	5240	10.64	11.00		8.77	9.00		10.04	11.00	10.72	11.00	13.40	14.00	
	802.11n-HT40 MCS0	38	5190	10.76	11.00	95.88	8.73	9.00	95.88	9.95	11.00	10.62	11.00	13.31	14.00	95.96
		46	5230	10.70	11.00		8.72	9.00		10.04	11.00	10.66	11.00	13.37	14.00	
	802.11ac-VHT20 MCS0	36	5180	10.73	11.00	97.95	8.69	9.00	97.44	9.91	11.00	10.71	11.00	13.34	14.00	97.98
		40	5200	10.80	11.00		8.75	9.00		9.92	11.00	10.68	11.00	13.33	14.00	
		44	5220	10.60	11.00		8.60	9.00		9.87	11.00	10.68	11.00	13.30	14.00	
		48	5240	10.62	11.00		8.77	9.00		9.97	11.00	10.70	11.00	13.36	14.00	
	802.11ac-VHT40 MCS0	38	5190	10.64	11.00	95.92	8.76	9.00	95.88	9.93	11.00	10.60	11.00	13.29	14.00	95.98
		46	5230	10.62	11.00		8.60	9.00		10.02	11.00	10.66	11.00	13.36	14.00	
	802.11ac-VHT80 MCS0	42	5210	10.82	11.00	95.56	8.69	9.00	95.51	9.94	11.00	10.65	11.00	13.32	14.00	95.56

Power Selection				Hotspot / Body-worn			Hotspot / Body-worn			Hotspot / Body-worn						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	17.66	18.50	98.07	16.75	17.00	98.08	17.46	17.50	17.86	18.00	20.67	21.00	98.10
		40	5200	17.24	18.50		16.61	17.00		17.46	17.50	17.73	18.00	20.61	21.00	
		44	5220	18.07	18.50		16.69	17.00		17.43	17.50	17.71	18.00	20.58	21.00	
		48	5240	18.12	18.50		16.77	17.00		17.50	17.50	17.81	18.00	20.67	21.00	
	802.11n-HT20 MCS0	36	5180	17.49	18.50	97.94	16.66	17.00	97.42	17.45	17.50	17.89	18.00	20.69	21.00	97.97
		40	5200	17.16	18.50		16.71	17.00		17.33	17.50	17.87	18.00	20.62	21.00	
		44	5220	18.24	18.50		16.60	17.00		17.35	17.50	17.85	18.00	20.62	21.00	
		48	5240	18.12	18.50		16.67	17.00		17.40	17.50	17.87	18.00	20.65	21.00	
	802.11n-HT40 MCS0	38	5190	14.29	14.50	95.88	14.48	14.50	95.88	14.33	14.50	14.49	14.50	17.42	17.50	95.96
		46	5230	18.11	18.50		16.90	17.00		17.33	17.50	17.80	18.00	20.58	21.00	
	802.11ac-VHT20 MCS0	36	5180	17.46	18.50	97.95	16.95	17.00	97.44	17.44	17.50	17.63	18.00	20.55	21.00	97.98
		40	5200	16.97	18.50		16.97	17.00		17.42	17.50	17.59	18.00	20.52	21.00	
		44	5220	18.12	18.50		16.82	17.00		17.21	17.50	17.77	18.00	20.51	21.00	
		48	5240	17.92	18.50		16.98	17.00		17.27	17.50	17.99	18.00	20.65	21.00	
	802.11ac-VHT40 MCS0	38	5190	14.28	14.50	95.92	14.46	14.50	95.88	14.31	14.50	14.48	14.50	17.40	17.50	95.98
		46	5230	17.98	18.50		16.80	17.00		17.26	17.50	17.75	18.00	20.52	21.00	
	802.11ac-VHT80 MCS0	42	5210	13.46	14.50	95.56	13.78	14.50	95.51	13.53	14.50	13.84	14.50	16.70	17.50	95.56



Power Selection				Head			Head			Head						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	10.68	11.00	98.07	8.76	9.00	98.08	10.04	11.00	10.70	11.00	13.39	14.00	98.10
		56	5280	10.65	11.00		8.64	9.00		10.03	11.00	10.73	11.00	13.40	14.00	
		60	5300	10.69	11.00		8.73	9.00		10.08	11.00	10.69	11.00	13.41	14.00	
		64	5320	10.63	11.00		8.72	9.00		9.97	11.00	10.63	11.00	13.32	14.00	
	802.11n-HT20 MCS0	52	5260	10.64	11.00	97.94	8.69	9.00	97.42	9.95	11.00	10.75	11.00	13.38	14.00	97.97
		56	5280	10.79	11.00		8.75	9.00		10.01	11.00	10.61	11.00	13.33	14.00	
		60	5300	10.61	11.00		8.68	9.00		9.90	11.00	10.66	11.00	13.31	14.00	
		64	5320	10.65	11.00		8.69	9.00		9.93	11.00	10.76	11.00	13.38	14.00	
	802.11n-HT40 MCS0	54	5270	10.70	11.00	95.88	8.73	9.00	95.88	9.95	11.00	10.68	11.00	13.34	14.00	95.96
		62	5310	10.62	11.00		8.63	9.00		10.00	11.00	10.66	11.00	13.35	14.00	
	802.11ac-VHT20 MCS0	52	5260	10.75	11.00	97.95	8.60	9.00	97.44	9.91	11.00	10.69	11.00	13.33	14.00	97.98
		56	5280	10.70	11.00		8.69	9.00		9.91	11.00	10.76	11.00	13.37	14.00	
		60	5300	10.72	11.00		8.74	9.00		10.04	11.00	10.69	11.00	13.39	14.00	
		64	5320	10.72	11.00		8.61	9.00		9.96	11.00	10.62	11.00	13.31	14.00	
	802.11ac-VHT40 MCS0	54	5270	10.80	11.00	95.92	8.77	9.00	95.88	9.90	11.00	10.64	11.00	13.30	14.00	95.98
		62	5310	10.60	11.00		8.76	9.00		9.91	11.00	10.75	11.00	13.36	14.00	
	802.11ac-VHT80 MCS0	58	5290	10.90	11.00	95.56	8.80	9.00	95.51	9.90	11.00	10.60	11.00	13.27	14.00	95.56

Power Selection				Body-worn			Body-worn			Body-worn						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	52	5260	17.92	18.00	98.07	16.77	17.00	98.08	18.12	18.50	18.10	18.50	21.12	21.50	98.10
		56	5280	17.00	18.00		16.66	17.00		17.48	18.50	17.50	18.50	20.51	21.50	
		60	5300	17.95	18.00		16.62	17.00		18.15	18.50	18.11	18.50	21.14	21.50	
		64	5320	17.48	17.50		16.75	17.00		17.50	17.50	17.20	17.50	20.38	20.50	
	802.11n-HT20 MCS0	52	5260	17.72	18.00	97.94	16.63	17.00	97.42	18.23	18.50	18.01	18.50	21.13	21.50	97.97
		56	5280	16.99	18.00		16.76	17.00		17.28	18.50	17.30	18.50	20.30	21.50	
		60	5300	17.77	18.00		16.73	17.00		18.25	18.50	18.04	18.50	21.16	21.50	
		64	5320	17.37	17.50		16.92	17.00		17.39	17.50	17.09	17.50	20.25	20.50	
	802.11n-HT40 MCS0	54	5270	17.99	18.00	95.88	16.95	17.00	95.88	18.50	18.50	18.41	18.50	21.48	21.50	95.96
		62	5310	14.96	15.00		14.94	15.00		15.00	15.00	14.95	15.00	18.00	18.00	
	802.11ac-VHT20 MCS0	52	5260	17.85	18.00	97.95	16.66	17.00	97.44	18.11	18.50	17.90	18.50	21.02	21.50	97.98
		56	5280	16.94	18.00		16.78	17.00		17.24	18.50	17.30	18.50	20.28	21.50	
		60	5300	17.85	18.00		16.80	17.00		18.10	18.50	17.86	18.50	20.99	21.50	
		64	5320	17.32	17.50		16.90	17.00		17.35	17.50	17.07	17.50	20.22	20.50	
	802.11ac-VHT40 MCS0	54	5270	17.75	18.00	95.92	16.67	17.00	95.88	18.46	18.50	18.38	18.50	21.43	21.50	95.98
		62	5310	14.95	15.00		14.82	15.00		15.00	15.00	14.83	15.00	17.92	18.00	
802.11ac-VHT80 MCS0	58	5290	14.12	14.50	95.56	13.99	14.50	95.51	14.16	14.50	14.05	14.50	17.12	17.50	95.56	



Power Selection				Head			Head			Head						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	9.95	10.00	98.07	7.95	9.00	98.08	9.76	10.00	10.84	11.00	13.34	13.50	98.10
		116	5580	9.80	10.00		7.83	9.00		9.60	10.00	10.99	11.00	13.36	13.50	
		124	5620	9.84	10.00		7.86	9.00		9.69	10.00	10.95	11.00	13.38	13.50	
		132	5660	9.85	10.00		7.82	9.00		9.71	10.00	10.80	11.00	13.30	13.50	
		144	5720	9.82	10.00		7.87	9.00		9.74	10.00	10.82	11.00	13.32	13.50	
	802.11n-HT20 MCS0	100	5500	9.89	10.00	97.94	7.89	9.00	97.42	9.69	10.00	10.93	11.00	13.36	13.50	97.97
		116	5580	9.91	10.00		7.86	9.00		9.63	10.00	10.84	11.00	13.29	13.50	
		124	5620	9.98	10.00		7.80	9.00		9.68	10.00	10.85	11.00	13.31	13.50	
		132	5660	9.94	10.00		7.86	9.00		9.65	10.00	10.90	11.00	13.33	13.50	
		144	5720	9.89	10.00		7.85	9.00		9.68	10.00	10.85	11.00	13.31	13.50	
	802.11n-HT40 MCS0	102	5510	9.91	10.00	95.88	7.90	9.00	95.88	9.80	10.00	10.89	11.00	13.39	13.50	95.96
		110	5550	9.91	10.00		7.99	9.00		9.67	10.00	10.90	11.00	13.34	13.50	
		126	5630	9.97	10.00		7.93	9.00		9.74	10.00	10.81	11.00	13.32	13.50	
		134	5670	9.84	10.00		7.90	9.00		9.66	10.00	10.89	11.00	13.33	13.50	
		142	5710	9.92	10.00		7.86	9.00		9.68	10.00	10.86	11.00	13.32	13.50	
	802.11ac-VHT20 MCS0	100	5500	9.96	10.00	97.95	7.80	9.00	97.44	9.77	10.00	10.84	11.00	13.35	13.50	97.98
		116	5580	9.84	10.00		7.97	9.00		9.74	10.00	10.98	11.00	13.41	13.50	
		124	5620	9.83	10.00		7.94	9.00		9.69	10.00	10.85	11.00	13.32	13.50	
		132	5660	9.80	10.00		8.00	9.00		9.61	10.00	10.80	11.00	13.26	13.50	
		144	5720	9.88	10.00		7.95	9.00		9.63	10.00	10.93	11.00	13.34	13.50	
	802.11ac-VHT40 MCS0	102	5510	9.90	10.00	95.92	7.91	9.00	95.88	9.76	10.00	10.80	11.00	13.32	13.50	95.98
		110	5550	9.83	10.00		7.88	9.00		9.71	10.00	10.89	11.00	13.35	13.50	
		126	5630	9.94	10.00		7.84	9.00		9.74	10.00	10.98	11.00	13.41	13.50	
		134	5670	9.82	10.00		7.92	9.00		9.60	10.00	10.89	11.00	13.30	13.50	
		142	5710	9.95	10.00		7.92	9.00		9.64	10.00	10.88	11.00	13.31	13.50	
	802.11ac-VHT80 MCS0	106	5530	9.79	10.00	95.56	7.78	9.00	95.51	9.79	10.00	10.89	11.00	13.39	13.50	95.56
		122	5610	9.75	10.00		7.77	9.00		9.63	10.00	10.90	11.00	13.32	13.50	
		138	5690	9.82	10.00		7.90	9.00		9.50	10.00	10.99	11.00	13.32	13.50	

Power Selection				Body-worn			Body-worn			Body-worn						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	17.02	17.50	98.07	17.26	17.50	98.08	16.59	17.00	17.49	17.50	20.07	20.50	98.10
		116	5580	17.25	17.50		17.22	17.50		16.51	17.00	17.44	17.50	20.01	20.50	
		124	5620	16.53	17.50		17.46	17.50		16.40	17.00	17.30	17.50	19.88	20.50	
		132	5660	16.50	17.50		17.32	17.50		16.54	17.00	17.49	17.50	20.05	20.50	
		144	5720	16.86	17.50		16.90	17.50		16.99	17.00	17.20	17.50	20.11	20.50	
	802.11n-HT20 MCS0	100	5500	17.35	17.50	97.94	17.23	17.50	97.42	16.58	17.00	17.31	17.50	19.97	20.50	97.97
		116	5580	17.40	17.50		17.33	17.50		16.65	17.00	17.47	17.50	20.09	20.50	
		124	5620	16.55	17.50		17.34	17.50		16.54	17.00	17.30	17.50	19.95	20.50	
		132	5660	16.58	17.50		17.27	17.50		16.58	17.00	17.48	17.50	20.06	20.50	
		144	5720	16.77	17.50		16.90	17.50		16.60	17.00	17.43	17.50	20.05	20.50	
	802.11n-HT40 MCS0	102	5510	15.25	16.50	95.88	15.68	16.50	95.88	15.35	16.50	15.77	16.50	18.57	19.50	95.96
		110	5550	17.22	17.50		17.24	17.50		16.75	17.00	17.39	17.50	20.09	20.50	
		126	5630	17.28	17.50		17.32	17.50		16.61	17.00	17.38	17.50	20.02	20.50	
		134	5670	17.23	17.50		17.49	17.50		16.80	17.00	17.37	17.50	20.10	20.50	
		142	5710	17.25	17.50		17.21	17.50		16.62	17.00	17.39	17.50	20.03	20.50	
	802.11ac-VHT20 MCS0	100	5500	17.29	17.50	97.95	17.16	17.50	97.44	16.62	17.00	17.30	17.50	19.98	20.50	97.98
		116	5580	17.39	17.50		17.27	17.50		16.66	17.00	17.39	17.50	20.05	20.50	
		124	5620	16.55	17.50		17.29	17.50		16.68	17.00	17.30	17.50	20.01	20.50	
		132	5660	16.52	17.50		17.14	17.50		16.64	17.00	17.43	17.50	20.06	20.50	
		144	5720	16.69	17.50		16.87	17.50		16.78	17.00	17.44	17.50	20.13	20.50	
	802.11ac-VHT40 MCS0	102	5510	15.24	16.50	95.92	15.62	16.50	95.88	15.26	16.50	15.75	16.50	18.52	19.50	95.98
		110	5550	17.25	17.50		17.14	17.50		16.72	17.00	17.45	17.50	20.11	20.50	
		126	5630	17.08	17.50		17.24	17.50		16.66	17.00	17.48	17.50	20.10	20.50	
		134	5670	17.23	17.50		17.32	17.50		16.75	17.00	17.49	17.50	20.15	20.50	
		142	5710	17.25	17.50		17.14	17.50		16.74	17.00	17.42	17.50	20.10	20.50	
	802.11ac-VHT80 MCS0	106	5530	14.11	15.00	95.56	14.47	15.00	95.51	14.15	15.00	14.57	15.00	17.38	18.00	95.56
		122	5610	17.30	17.50		17.11	17.50		16.50	17.00	17.35	17.50	19.96	20.50	
		138	5690	17.45	17.50		17.13	17.50		16.56	17.00	17.42	17.50	20.02	20.50	

Power Selection				Head			Head			Head						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
	802.11a MCS0	149	5745	10.68	11.00	98.07	8.75	9.00	98.08	10.90	11.00	11.20	11.50	14.06	14.50	98.10
		157	5785	10.79	11.00		8.61	9.00		10.81	11.00	11.30	11.50	14.07	14.50	
		165	5825	10.70	11.00		8.72	9.00		10.89	11.00	11.20	11.50	14.06	14.50	
	802.11n-HT20 MCS0	149	5745	10.67	11.00	97.94	8.66	9.00	97.42	10.86	11.00	11.25	11.50	14.07	14.50	97.97
		157	5785	10.78	11.00		8.63	9.00		10.96	11.00	11.17	11.50	14.08	14.50	
		165	5825	10.70	11.00		8.70	9.00		10.92	11.00	11.19	11.50	14.07	14.50	
	802.11n-HT40 MCS0	151	5755	10.69	11.00	95.88	8.69	9.00	95.88	10.88	11.00	11.27	11.50	14.09	14.50	95.96
		159	5795	10.72	11.00		8.79	9.00		10.91	11.00	11.19	11.50	14.06	14.50	
	802.11ac-VHT20 MCS0	149	5745	10.72	11.00	97.95	8.65	9.00	97.44	10.88	11.00	11.26	11.50	14.08	14.50	97.98
		157	5785	10.71	11.00		8.65	9.00		10.90	11.00	11.28	11.50	14.10	14.50	
		165	5825	10.76	11.00		8.79	9.00		10.95	11.00	11.26	11.50	14.12	14.50	
	802.11ac-VHT40 MCS0	151	5755	10.63	11.00	95.92	8.65	9.00	95.88	10.95	11.00	11.22	11.50	14.10	14.50	95.98
		159	5795	10.76	11.00		8.68	9.00		10.89	11.00	11.19	11.50	14.05	14.50	
	802.11ac-VHT80 MCS0	155	5775	10.65	11.00	95.56	8.70	9.00	95.51	10.90	11.00	11.35	11.50	14.14	14.50	95.56

Power Selection				Hotspot / Body-worn			Hotspot / Body-worn			Hotspot / Body-worn						
Transmit Antenna				Ant 6			Ant 5			Ant 6+5						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 6 Average power (dBm)	Ant 6 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 6+5 Average power (dBm)	Ant 6+5 Tune-Up Limit	Duty Cycle %
	802.11a MCS0	149	5745	17.70	18.00	98.07	16.79	18.00	98.08	15.48	15.50	15.93	16.00	18.72	19.00	98.10
		157	5785	17.17	18.00		16.97	18.00		15.47	15.50	15.92	16.00	18.71	19.00	
		165	5825	17.34	18.00		16.88	18.00		15.36	15.50	15.90	16.00	18.65	19.00	
	802.11n-HT20 MCS0	149	5745	17.52	18.00	97.94	17.30	18.00	97.42	15.37	15.50	15.94	16.00	18.67	19.00	97.97
		157	5785	16.73	18.00		16.56	18.00		15.33	15.50	15.90	16.00	18.63	19.00	
		165	5825	16.68	18.00		16.56	18.00		15.38	15.50	15.84	16.00	18.63	19.00	
	802.11n-HT40 MCS0	151	5755	17.22	18.00	95.88	17.71	18.00	95.88	15.36	15.50	15.91	16.00	18.65	19.00	95.96
		159	5795	16.56	18.00		17.24	18.00		15.45	15.50	16.00	16.00	18.74	19.00	
	802.11ac-VHT20 MCS0	149	5745	17.09	18.00	97.95	17.25	18.00	97.44	15.38	15.50	15.91	16.00	18.66	19.00	97.98
		157	5785	16.67	18.00		16.55	18.00		15.40	15.50	15.86	16.00	18.65	19.00	
		165	5825	16.52	18.00		16.51	18.00		15.50	15.50	15.97	16.00	18.75	19.00	
	802.11ac-VHT40 MCS0	151	5755	17.25	18.00	95.92	17.45	18.00	95.88	15.33	15.50	15.89	16.00	18.63	19.00	95.98
		159	5795	16.58	18.00		17.05	18.00		15.35	15.50	15.92	16.00	18.65	19.00	
	802.11ac-VHT80 MCS0	155	5775	16.71	18.00	95.56	17.21	18.00	95.51	15.28	15.50	15.82	16.00	18.57	19.00	95.56

**<2.4GHz Bluetooth>****General Note:**

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 76.6% considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation.

<WWAN off and WIFI off>

Transmit Antenna			Ant 4		
Max. Power			15.50	15.50	15.50
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	14.55	9.24	9.27
	CH 39	2441	15.11	9.74	9.78
	CH 78	2480	14.43	9.51	9.56

Transmit Antenna			Ant 4	
Max. Power			10.00	10.00
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps
LE	CH 00	2402	9.01	9.02
	CH 19	2440	9.03	9.05
	CH 39	2480	8.79	8.85

<WWAN on or WIFI on, WWAN and WIFI on>

Transmit Antenna			Ant 4		
Max. Power			10.00	10.00	10.00
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	9.67	9.56	9.37
	CH 39	2441	9.51	9.48	9.29
	CH 78	2480	9.88	9.44	9.40

Transmit Antenna			Ant 4	
Max. Power			10.00	10.00
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps
LE	CH 00	2402	9.01	9.02
	CH 19	2440	9.03	9.05
	CH 39	2480	8.79	8.85

12. Exposure Conditions

Distance of the Antenna to the EUT surface/edge						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN UAT	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm
WWAN LAT	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm
BT&2.4GHz WLAN Ant 4	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
2.4GHz WLAN Ant 5	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
5GHz WLAN Ant 6	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
5GHz WLAN Ant 5	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
2.4GHz WLAN Ant 4+5	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
5GHz WLAN Ant 6+5	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
Positions for SAR tests; Hotspot mode						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN UAT	Yes	Yes	Yes	No	Yes	Yes
WWAN LAT	Yes	Yes	No	Yes	Yes	Yes
BT&2.4GHz WLAN Ant 4	Yes	Yes	Yes	No	Yes	No
2.4GHz WLAN Ant 5	Yes	Yes	Yes	No	Yes	No
5GHz WLAN Ant 6	Yes	Yes	Yes	No	Yes	No
5GHz WLAN Ant 5	Yes	Yes	Yes	No	Yes	No
2.4GHz WLAN Ant 4+5	Yes	Yes	Yes	No	Yes	No
5GHz WLAN Ant 6+5	Yes	Yes	Yes	No	Yes	No

General Note:

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
- Detail antenna locations refer to appendix D.

13. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result.
The Reported TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
4. Pre KDB648474 D04v01r03, 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.
5. For the body SAR measurement was used a low-loss foam block performed testing, the relative permittivity and loss tangent of the foam material is 1.0 and 10^{-5} , respectively, therefore holder perturbation verification is not required even highest reported SAR is >1.2 W/kg.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The 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. Therefore, the GPRS (4Tx slots) for GSM850/GSM1900 is considered as the primary mode.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

UMTS Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ 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, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

**CDMA Note:**

1. Per KDB 941225 D01v03r01, SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
3. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

LTE Note:

1. Per KDB 941225 D05v02r05, 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.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, 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 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. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $> \text{not } \frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $> \text{not } \frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B12 / B26 / B26 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 2 / 4 / 5 / 17 / 38 SAR test and the conducted measurement was covered by Band 12 / 25 / 26 / 41 / 66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. The maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion.
 - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

WLAN Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required 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.
2. Per KDB 248227 D01v02r02, U-NII-1 Head SAR testing is required when the U-NII-2A band highest reported SAR for a test configuration is > 1.2 W/kg, SAR is required for U-NII-1 band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closest/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, 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.
5. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6 W/kg and SAR peak to location ratio ≤ 0.04 , no additional SAR measurements for MIMO.
6. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

**13.1 Head SAR****<GSM850>**

WiFi off / WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
01	GSM850_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	189	836.4	27.05	28.00	1.245	0.05	0.410	0.510
	GSM850_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	128	824.2	27.03	28.00	1.250	0.11	0.374	0.468
	GSM850_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	251	848.8	27.00	28.00	1.259	0.09	0.468	0.589
	GSM850_UAT	GPRS (4 Tx slots)	Right Tilted	0mm	189	836.4	27.05	28.00	1.245	0.05	0.368	0.458
	GSM850_UAT	GPRS (4 Tx slots)	Left Cheek	0mm	189	836.4	27.05	28.00	1.245	-0.01	0.259	0.322
	GSM850_UAT	GPRS (4 Tx slots)	Left Tilted	0mm	189	836.4	27.05	28.00	1.245	-0.19	0.242	0.301
	GSM850_LAT	GPRS (4 Tx slots)	Right Cheek	0mm	189	836.4	27.05	28.00	1.245	-0.13	0.185	0.230
	GSM850_LAT	GPRS (4 Tx slots)	Right Cheek	0mm	128	824.2	27.03	28.00	1.250	-0.02	0.169	0.211
	GSM850_LAT	GPRS (4 Tx slots)	Right Cheek	0mm	251	848.8	27.00	28.00	1.259	-0.01	0.167	0.210
	GSM850_LAT	GPRS (4 Tx slots)	Right Tilted	0mm	189	836.4	27.05	28.00	1.245	-0.04	0.105	0.131
	GSM850_LAT	GPRS (4 Tx slots)	Left Cheek	0mm	189	836.4	27.05	28.00	1.245	0.07	0.174	0.217
	GSM850_LAT	GPRS (4 Tx slots)	Left Tilted	0mm	189	836.4	27.05	28.00	1.245	-0.02	0.106	0.132

<GSM1900>

WiFi off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
02	GSM1900_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	512	1850.2	21.77	23.00	1.327	0.18	0.762	1.011
	GSM1900_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	661	1880	21.55	23.00	1.396	0.04	0.630	0.880
	GSM1900_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	810	1909.8	21.16	23.00	1.528	0.07	0.617	0.943
	GSM1900_UAT	GPRS (4 Tx slots)	Right Tilted	0mm	512	1850.2	21.77	23.00	1.327	0.12	1.010	1.341
	GSM1900_UAT	GPRS (4 Tx slots)	Right Tilted	0mm	661	1880	21.55	23.00	1.396	0.19	0.867	1.211
	GSM1900_UAT	GPRS (4 Tx slots)	Right Tilted	0mm	810	1909.8	21.16	23.00	1.528	0.02	0.807	1.233
	GSM1900_UAT	GPRS (4 Tx slots)	Left Cheek	0mm	512	1850.2	21.77	23.00	1.327	-0.02	0.440	0.584
	GSM1900_UAT	GPRS (4 Tx slots)	Left Tilted	0mm	512	1850.2	21.77	23.00	1.327	0.19	0.649	0.861
	GSM1900_UAT	GPRS (4 Tx slots)	Left Tilted	0mm	661	1880	21.55	23.00	1.396	0.11	0.555	0.775
	GSM1900_UAT	GPRS (4 Tx slots)	Left Tilted	0mm	810	1909.8	21.16	23.00	1.528	0.04	0.483	0.738
WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	512	1850.2	21.77	22.50	1.183	0.18	0.762	0.901
	GSM1900_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	661	1880	21.55	22.50	1.245	0.04	0.630	0.784
	GSM1900_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	810	1909.8	21.16	22.50	1.361	0.07	0.617	0.840
	GSM1900_UAT	GPRS (4 Tx slots)	Right Tilted	0mm	512	1850.2	21.77	22.50	1.183	0.12	1.010	1.195
	GSM1900_UAT	GPRS (4 Tx slots)	Right Tilted	0mm	661	1880	21.55	22.50	1.245	0.19	0.867	1.079
	GSM1900_UAT	GPRS (4 Tx slots)	Right Tilted	0mm	810	1909.8	21.16	22.50	1.361	0.02	0.807	1.099
	GSM1900_UAT	GPRS (4 Tx slots)	Left Cheek	0mm	512	1850.2	21.77	22.50	1.183	-0.02	0.440	0.521
	GSM1900_UAT	GPRS (4 Tx slots)	Left Tilted	0mm	512	1850.2	21.77	22.50	1.183	0.19	0.649	0.768
	GSM1900_UAT	GPRS (4 Tx slots)	Left Tilted	0mm	661	1880	21.55	22.50	1.245	0.11	0.555	0.691
	GSM1900_UAT	GPRS (4 Tx slots)	Left Tilted	0mm	810	1909.8	21.16	22.50	1.361	0.04	0.483	0.658
WiFi off / WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900_LAT	GPRS (4 Tx slots)	Right Cheek	0mm	512	1850.2	24.83	25.50	1.167	-0.12	0.094	0.110
	GSM1900_LAT	GPRS (4 Tx slots)	Right Tilted	0mm	512	1850.2	24.83	25.50	1.167	0.11	0.046	0.054
	GSM1900_LAT	GPRS (4 Tx slots)	Left Cheek	0mm	512	1850.2	24.83	25.50	1.167	0.11	0.163	0.190
	GSM1900_LAT	GPRS (4 Tx slots)	Left Cheek	0mm	661	1880	24.53	25.50	1.250	0.13	0.173	0.216
	GSM1900_LAT	GPRS (4 Tx slots)	Left Cheek	0mm	810	1909.8	24.50	25.50	1.259	0.14	0.118	0.149
	GSM1900_LAT	GPRS (4 Tx slots)	Left Tilted	0mm	512	1850.2	24.83	25.50	1.167	0.02	0.044	0.051

<WCDMA II>

WiFi off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_UAT	RMC 12.2Kbps	Right Cheek	0mm	9400	1880	17.00	18.00	1.259	-0.09	0.703	0.885
	WCDMA II_UAT	RMC 12.2Kbps	Right Cheek	0mm	9262	1852.4	16.98	18.00	1.265	-0.05	0.796	1.007
	WCDMA II_UAT	RMC 12.2Kbps	Right Cheek	0mm	9538	1907.6	16.97	18.00	1.268	-0.11	0.833	1.056
	WCDMA II_UAT	RMC 12.2Kbps	Right Tilted	0mm	9400	1880	17.00	18.00	1.259	-0.01	0.935	1.177
03	WCDMA II_UAT	RMC 12.2Kbps	Right Tilted	0mm	9262	1852.4	16.98	18.00	1.265	-0.15	1.040	1.315
	WCDMA II_UAT	RMC 12.2Kbps	Right Tilted	0mm	9538	1907.6	16.97	18.00	1.268	-0.04	0.813	1.031
	WCDMA II_UAT	RMC 12.2Kbps	Left Cheek	0mm	9400	1880	17.00	18.00	1.259	0.12	0.427	0.538
	WCDMA II_UAT	RMC 12.2Kbps	Left Tilted	0mm	9400	1880	17.00	18.00	1.259	-0.07	0.655	0.825
	WCDMA II_UAT	RMC 12.2Kbps	Left Tilted	0mm	9262	1852.4	16.98	18.00	1.265	-0.09	0.747	0.945
	WCDMA II_UAT	RMC 12.2Kbps	Left Tilted	0mm	9538	1907.6	16.97	18.00	1.268	-0.06	0.469	0.595
WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_UAT	RMC 12.2Kbps	Right Cheek	0mm	9400	1880	17.00	17.50	1.122	-0.09	0.703	0.789
	WCDMA II_UAT	RMC 12.2Kbps	Right Cheek	0mm	9262	1852.4	16.98	17.50	1.127	-0.05	0.796	0.897
	WCDMA II_UAT	RMC 12.2Kbps	Right Cheek	0mm	9538	1907.6	16.97	17.50	1.130	-0.11	0.833	0.941
	WCDMA II_UAT	RMC 12.2Kbps	Right Tilted	0mm	9400	1880	17.00	17.50	1.122	-0.01	0.935	1.049
	WCDMA II_UAT	RMC 12.2Kbps	Right Tilted	0mm	9262	1852.4	16.98	17.50	1.127	-0.15	1.040	1.172
	WCDMA II_UAT	RMC 12.2Kbps	Right Tilted	0mm	9538	1907.6	16.97	17.50	1.130	-0.04	0.813	0.919
	WCDMA II_UAT	RMC 12.2Kbps	Left Cheek	0mm	9400	1880	17.00	17.50	1.122	0.12	0.427	0.479
	WCDMA II_UAT	RMC 12.2Kbps	Left Tilted	0mm	9400	1880	17.00	17.50	1.122	-0.07	0.655	0.735
	WCDMA II_UAT	RMC 12.2Kbps	Left Tilted	0mm	9262	1852.4	16.98	17.50	1.127	-0.09	0.747	0.842
	WCDMA II_UAT	RMC 12.2Kbps	Left Tilted	0mm	9538	1907.6	16.97	17.50	1.130	-0.06	0.469	0.530
WiFi off / WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_LAT	RMC 12.2Kbps	Right Cheek	0mm	9400	1880	23.54	24.00	1.112	-0.15	0.132	0.147
	WCDMA II_LAT	RMC 12.2Kbps	Right Tilted	0mm	9400	1880	23.54	24.00	1.112	0.15	0.057	0.063
	WCDMA II_LAT	RMC 12.2Kbps	Left Cheek	0mm	9400	1880	23.54	24.00	1.112	0.14	0.234	0.260
	WCDMA II_LAT	RMC 12.2Kbps	Left Cheek	0mm	9262	1852.4	23.29	24.00	1.178	0.08	0.235	0.277
	WCDMA II_LAT	RMC 12.2Kbps	Left Cheek	0mm	9538	1907.6	23.02	24.00	1.253	0.12	0.214	0.268
	WCDMA II_LAT	RMC 12.2Kbps	Left Tilted	0mm	9400	1880	23.54	24.00	1.112	0.14	0.072	0.080

<WCDMA IV>

WiFi off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_UAT	RMC 12.2Kbps	Right Cheek	0mm	1413	1732.6	16.58	17.50	1.236	-0.11	0.751	0.928
	WCDMA IV_UAT	RMC 12.2Kbps	Right Cheek	0mm	1312	1712.4	16.43	17.50	1.279	-0.12	0.682	0.873
	WCDMA IV_UAT	RMC 12.2Kbps	Right Cheek	0mm	1513	1752.6	16.52	17.50	1.253	0.03	0.793	0.994
	WCDMA IV_UAT	RMC 12.2Kbps	Right Tilted	0mm	1413	1732.6	16.58	17.50	1.236	-0.06	1.010	1.248
	WCDMA IV_UAT	RMC 12.2Kbps	Right Tilted	0mm	1312	1712.4	16.43	17.50	1.279	-0.08	0.931	1.191
04	WCDMA IV_UAT	RMC 12.2Kbps	Right Tilted	0mm	1513	1752.6	16.52	17.50	1.253	0.13	1.070	1.341
	WCDMA IV_UAT	RMC 12.2Kbps	Left Cheek	0mm	1413	1732.6	16.58	17.50	1.236	0.15	0.509	0.629
	WCDMA IV_UAT	RMC 12.2Kbps	Left Tilted	0mm	1413	1732.6	16.58	17.50	1.236	-0.02	0.715	0.884
	WCDMA IV_UAT	RMC 12.2Kbps	Left Tilted	0mm	1312	1712.4	16.43	17.50	1.279	-0.19	0.665	0.851
	WCDMA IV_UAT	RMC 12.2Kbps	Left Tilted	0mm	1513	1752.6	16.52	17.50	1.253	-0.05	0.786	0.985
WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_UAT	RMC 12.2Kbps	Right Cheek	0mm	1413	1732.6	16.58	17.00	1.102	-0.11	0.751	0.827
	WCDMA IV_UAT	RMC 12.2Kbps	Right Cheek	0mm	1312	1712.4	16.43	17.00	1.140	-0.12	0.682	0.778
	WCDMA IV_UAT	RMC 12.2Kbps	Right Cheek	0mm	1513	1752.6	16.52	17.00	1.117	0.03	0.793	0.886
	WCDMA IV_UAT	RMC 12.2Kbps	Right Tilted	0mm	1413	1732.6	16.58	17.00	1.102	-0.06	1.010	1.113
	WCDMA IV_UAT	RMC 12.2Kbps	Right Tilted	0mm	1312	1712.4	16.43	17.00	1.140	-0.08	0.931	1.062
	WCDMA IV_UAT	RMC 12.2Kbps	Right Tilted	0mm	1513	1752.6	16.52	17.00	1.117	0.13	1.070	1.195
	WCDMA IV_UAT	RMC 12.2Kbps	Left Cheek	0mm	1413	1732.6	16.58	17.00	1.102	0.15	0.509	0.561
	WCDMA IV_UAT	RMC 12.2Kbps	Left Tilted	0mm	1413	1732.6	16.58	17.00	1.102	-0.02	0.715	0.788
	WCDMA IV_UAT	RMC 12.2Kbps	Left Tilted	0mm	1312	1712.4	16.43	17.00	1.140	-0.19	0.665	0.758
	WCDMA IV_UAT	RMC 12.2Kbps	Left Tilted	0mm	1513	1752.6	16.52	17.00	1.117	-0.05	0.786	0.878
WiFi off / WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_LAT	RMC 12.2Kbps	Right Cheek	0mm	1413	1732.6	23.50	24.00	1.122	0.12	0.148	0.166
	WCDMA IV_LAT	RMC 12.2Kbps	Right Tilted	0mm	1413	1732.6	23.50	24.00	1.122	0.04	0.072	0.081
	WCDMA IV_LAT	RMC 12.2Kbps	Left Cheek	0mm	1413	1732.6	23.50	24.00	1.122	-0.02	0.243	0.273
	WCDMA IV_LAT	RMC 12.2Kbps	Left Cheek	0mm	1312	1712.4	23.47	24.00	1.130	0.13	0.327	0.369
	WCDMA IV_LAT	RMC 12.2Kbps	Left Cheek	0mm	1513	1752.6	23.49	24.00	1.125	0.12	0.262	0.295
	WCDMA IV_LAT	RMC 12.2Kbps	Left Tilted	0mm	1413	1732.6	23.50	24.00	1.122	0.02	0.088	0.099

<WCDMA V>

WiFi off / WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V_UAT	RMC 12.2Kbps	Right Cheek	0mm	4182	836.4	24.00	24.50	1.122	-0.16	0.792	0.889
	WCDMA V_UAT	RMC 12.2Kbps	Right Cheek	0mm	4132	826.4	23.90	24.50	1.148	-0.17	0.658	0.755
05	WCDMA V_UAT	RMC 12.2Kbps	Right Cheek	0mm	4233	846.6	23.98	24.50	1.127	-0.13	0.945	1.065
	WCDMA V_UAT	RMC 12.2Kbps	Right Tilted	0mm	4182	836.4	24.00	24.50	1.122	-0.17	0.726	0.815
	WCDMA V_UAT	RMC 12.2Kbps	Right Tilted	0mm	4132	826.4	23.90	24.50	1.148	-0.17	0.602	0.691
	WCDMA V_UAT	RMC 12.2Kbps	Right Tilted	0mm	4233	846.6	23.98	24.50	1.127	-0.09	0.870	0.981
	WCDMA V_UAT	RMC 12.2Kbps	Left Cheek	0mm	4182	836.4	24.00	24.50	1.122	0.02	0.548	0.615
	WCDMA V_UAT	RMC 12.2Kbps	Left Tilted	0mm	4182	836.4	24.00	24.50	1.122	-0.01	0.516	0.579
	WCDMA V_LAT	RMC 12.2Kbps	Right Cheek	0mm	4182	836.4	24.00	24.50	1.122	-0.18	0.312	0.350
	WCDMA V_LAT	RMC 12.2Kbps	Right Tilted	0mm	4182	836.4	24.00	24.50	1.122	0.07	0.191	0.214
	WCDMA V_LAT	RMC 12.2Kbps	Left Cheek	0mm	4182	836.4	24.00	24.50	1.122	0.13	0.322	0.361
	WCDMA V_LAT	RMC 12.2Kbps	Left Cheek	0mm	4132	826.4	23.90	24.50	1.148	0.01	0.310	0.356
	WCDMA V_LAT	RMC 12.2Kbps	Left Cheek	0mm	4233	846.6	23.98	24.50	1.127	0.01	0.296	0.334
	WCDMA V_LAT	RMC 12.2Kbps	Left Tilted	0mm	4182	836.4	24.00	24.50	1.122	0.03	0.215	0.241

<CDMA BC0>

WiFi off / WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Cheek	0mm	777	848.31	24.26	24.50	1.057	-0.1	0.993	1.049
06	CDMA BC0_UAT	1xRTT RC3 SO55	Right Cheek	0mm	1013	824.7	24.11	24.50	1.094	-0.13	1.080	1.181
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Cheek	0mm	384	836.52	24.07	24.50	1.104	-0.18	0.805	0.889
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Tilted	0mm	777	848.31	24.26	24.50	1.057	-0.15	0.894	0.945
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Tilted	0mm	1013	824.7	24.11	24.50	1.094	-0.08	0.577	0.631
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Tilted	0mm	384	836.52	24.07	24.50	1.104	-0.1	0.735	0.811
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Cheek	0mm	777	848.31	24.26	24.50	1.057	-0.06	0.651	0.688
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Tilted	0mm	777	848.31	24.26	24.50	1.057	-0.05	0.702	0.742
	CDMA BC0_LAT	1xRTT RC3 SO55	Right Cheek	0mm	777	848.31	24.26	24.50	1.057	-0.03	0.421	0.445
	CDMA BC0_LAT	1xRTT RC3 SO55	Right Cheek	0mm	1013	824.7	24.11	24.50	1.094	-0.03	0.406	0.444
	CDMA BC0_LAT	1xRTT RC3 SO55	Right Cheek	0mm	384	836.52	24.07	24.50	1.104	-0.01	0.458	0.506
	CDMA BC0_LAT	1xRTT RC3 SO55	Right Tilted	0mm	777	848.31	24.26	24.50	1.057	0.03	0.215	0.227
	CDMA BC0_LAT	1xRTT RC3 SO55	Left Cheek	0mm	777	848.31	24.26	24.50	1.057	0.09	0.373	0.394
	CDMA BC0_LAT	1xRTT RC3 SO55	Left Tilted	0mm	777	848.31	24.26	24.50	1.057	0.03	0.212	0.224

<CDMA BC1>

WiFi off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Cheek	0mm	600	1880	17.42	18.00	1.143	0.05	0.801	0.915
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Cheek	0mm	25	1851.25	17.38	18.00	1.153	0.08	0.895	1.032
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Cheek	0mm	1175	1908.75	17.21	18.00	1.199	0.02	0.574	0.689
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	600	1880	17.42	18.00	1.143	0.11	1.040	1.189
07	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	25	1851.25	17.38	18.00	1.153	0.02	1.150	1.326
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	1175	1908.75	17.21	18.00	1.199	0.02	0.755	0.906
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Cheek	0mm	600	1880	17.42	18.00	1.143	-0.07	0.499	0.570
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Tilted	0mm	600	1880	17.42	18.00	1.143	-0.01	0.694	0.793
	CDMA BC1_LAT	1xRTT RC3 SO55	Right Cheek	0mm	600	1880	23.50	24.50	1.259	0.1	0.181	0.228
	CDMA BC1_LAT	1xRTT RC3 SO55	Right Tilted	0mm	600	1880	23.50	24.50	1.259	0.19	0.101	0.127
	CDMA BC1_LAT	1xRTT RC3 SO55	Left Cheek	0mm	600	1880	23.50	24.50	1.259	-0.18	0.278	0.350
	CDMA BC1_LAT	1xRTT RC3 SO55	Left Cheek	0mm	25	1851.25	23.49	24.50	1.262	0	0.284	0.358
	CDMA BC1_LAT	1xRTT RC3 SO55	Left Cheek	0mm	1175	1908.75	23.22	24.50	1.343	0.02	0.246	0.330
	CDMA BC1_LAT	1xRTT RC3 SO55	Left Tilted	0mm	600	1880	23.50	24.50	1.259	0.07	0.084	0.106
WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Cheek	0mm	600	1880	17.42	17.50	1.019	0.05	0.801	0.816
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Cheek	0mm	25	1851.25	17.38	17.50	1.028	0.08	0.895	0.920
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Cheek	0mm	1175	1908.75	17.21	17.50	1.069	0.02	0.574	0.614
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	600	1880	17.42	17.50	1.019	0.11	1.040	1.059
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	25	1851.25	17.38	17.50	1.028	0.02	1.150	1.182
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	1175	1908.75	17.21	17.50	1.069	0.02	0.755	0.807
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Cheek	0mm	600	1880	17.42	17.50	1.019	-0.07	0.499	0.508
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Tilted	0mm	600	1880	17.42	17.50	1.019	-0.01	0.711	0.724
	CDMA BC1_LAT	1xRTT RC3 SO55	Right Cheek	0mm	600	1880	23.50	24.00	1.122	0.1	0.181	0.203
	CDMA BC1_LAT	1xRTT RC3 SO55	Right Tilted	0mm	600	1880	23.50	24.00	1.122	0.19	0.101	0.113
	CDMA BC1_LAT	1xRTT RC3 SO55	Left Cheek	0mm	600	1880	23.50	24.00	1.122	-0.18	0.278	0.312
	CDMA BC1_LAT	1xRTT RC3 SO55	Left Cheek	0mm	25	1851.25	23.49	24.00	1.125	0	0.284	0.319
	CDMA BC1_LAT	1xRTT RC3 SO55	Left Cheek	0mm	1175	1908.75	23.22	24.00	1.197	0.02	0.246	0.294
	CDMA BC1_LAT	1xRTT RC3 SO55	Left Tilted	0mm	600	1880	23.50	24.00	1.122	0.07	0.084	0.094

<CDMA BC10>

WiFi off / WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
08	CDMA BC10_UAT	1xRTT RC3 SO55	Right Cheek	0mm	580	820.5	24.18	24.50	1.076	-0.07	1.020	1.098
	CDMA BC10_UAT	1xRTT RC3 SO55	Right Tilted	0mm	580	820.5	24.18	24.50	1.076	0.04	0.893	0.961
	CDMA BC10_UAT	1xRTT RC3 SO55	Left Cheek	0mm	580	820.5	24.18	24.50	1.076	-0.17	0.691	0.744
	CDMA BC10_UAT	1xRTT RC3 SO55	Left Tilted	0mm	580	820.5	24.18	24.50	1.076	0.02	0.750	0.807
	CDMA BC10_LAT	1xRTT RC3 SO55	Right Cheek	0mm	580	820.5	24.18	24.50	1.076	0.03	0.373	0.402
	CDMA BC10_LAT	1xRTT RC3 SO55	Right Tilted	0mm	580	820.5	24.18	24.50	1.076	-0.11	0.202	0.217
	CDMA BC10_LAT	1xRTT RC3 SO55	Left Cheek	0mm	580	820.5	24.18	24.50	1.076	0	0.348	0.375
	CDMA BC10_LAT	1xRTT RC3 SO55	Left Tilted	0mm	580	820.5	24.18	24.50	1.076	0	0.214	0.230



<FDD LTE B7>

WiFi off															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
09	LTE Band 7_UAT	20M	QPSK	1	0	Right Cheek	0mm	21100	2535	18.26	19.00	1.186	0.1	0.990	1.174
	LTE Band 7_UAT	20M	QPSK	1	0	Right Cheek	0mm	20850	2510	18.18	19.00	1.208	0.19	1.060	1.280
	LTE Band 7_UAT	20M	QPSK	1	0	Right Cheek	0mm	21350	2560	18.15	19.00	1.216	-0.05	0.912	1.109
	LTE Band 7_UAT	20M	QPSK	50	0	Right Cheek	0mm	21100	2535	18.34	19.00	1.164	-0.11	0.907	1.056
	LTE Band 7_UAT	20M	QPSK	50	0	Right Cheek	0mm	20850	2510	18.31	19.00	1.172	0.04	1.020	1.196
	LTE Band 7_UAT	20M	QPSK	50	0	Right Cheek	0mm	21350	2560	18.30	19.00	1.175	-0.05	0.861	1.012
	LTE Band 7_UAT	20M	QPSK	100	0	Right Cheek	0mm	21100	2535	18.33	19.00	1.167	-0.1	0.885	1.033
	LTE Band 7_UAT	20M	QPSK	1	0	Right Tilted	0mm	21100	2535	18.26	20.00	1.493	0.01	0.429	0.640
	LTE Band 7_UAT	20M	QPSK	50	0	Right Tilted	0mm	21100	2535	18.34	20.00	1.466	-0.01	0.424	0.621
	LTE Band 7_UAT	20M	QPSK	1	0	Left Cheek	0mm	21100	2535	18.26	20.00	1.493	0.06	0.301	0.449
	LTE Band 7_UAT	20M	QPSK	50	0	Left Cheek	0mm	21100	2535	18.34	20.00	1.466	0.03	0.282	0.413
	LTE Band 7_UAT	20M	QPSK	1	0	Left Tilted	0mm	21100	2535	18.26	20.00	1.493	-0.02	0.405	0.605
	LTE Band 7_UAT	20M	QPSK	50	0	Left Tilted	0mm	21100	2535	18.34	20.00	1.466	0.06	0.381	0.558
WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_UAT	20M	QPSK	1	0	Right Cheek	0mm	21100	2535	18.26	18.50	1.057	0.1	0.990	1.046
	LTE Band 7_UAT	20M	QPSK	1	0	Right Cheek	0mm	20850	2510	18.18	18.50	1.076	0.19	1.060	1.141
	LTE Band 7_UAT	20M	QPSK	1	0	Right Cheek	0mm	21350	2560	18.15	18.50	1.084	-0.05	0.912	0.989
	LTE Band 7_UAT	20M	QPSK	50	0	Right Cheek	0mm	21100	2535	18.34	18.50	1.038	-0.11	0.907	0.941
	LTE Band 7_UAT	20M	QPSK	50	0	Right Cheek	0mm	20850	2510	18.31	18.50	1.045	0.04	1.020	1.066
	LTE Band 7_UAT	20M	QPSK	50	0	Right Cheek	0mm	21350	2560	18.30	18.50	1.047	-0.05	0.861	0.902
	LTE Band 7_UAT	20M	QPSK	100	0	Right Cheek	0mm	21100	2535	18.33	18.50	1.040	-0.1	0.885	0.920
	LTE Band 7_UAT	20M	QPSK	1	0	Right Tilted	0mm	21100	2535	18.26	20.00	1.493	0.01	0.429	0.640
	LTE Band 7_UAT	20M	QPSK	50	0	Right Tilted	0mm	21100	2535	18.34	20.00	1.466	-0.01	0.424	0.621
	LTE Band 7_UAT	20M	QPSK	1	0	Left Cheek	0mm	21100	2535	18.26	20.00	1.493	0.06	0.301	0.449
	LTE Band 7_UAT	20M	QPSK	50	0	Left Cheek	0mm	21100	2535	18.34	20.00	1.466	0.03	0.282	0.413
	LTE Band 7_UAT	20M	QPSK	1	0	Left Tilted	0mm	21100	2535	18.26	20.00	1.493	-0.02	0.405	0.605
	LTE Band 7_UAT	20M	QPSK	50	0	Left Tilted	0mm	21100	2535	18.34	20.00	1.466	0.06	0.381	0.558
WiFi off / WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_LAT	20M	QPSK	1	0	Right Cheek	0mm	21100	2535	23.63	24.00	1.089	-0.03	0.284	0.309
	LTE Band 7_LAT	20M	QPSK	1	0	Right Cheek	0mm	20850	2510	23.55	24.00	1.109	-0.12	0.272	0.302
	LTE Band 7_LAT	20M	QPSK	1	0	Right Cheek	0mm	21350	2560	23.51	24.00	1.119	0.18	0.252	0.282
	LTE Band 7_LAT	20M	QPSK	50	0	Right Cheek	0mm	21100	2535	22.61	23.00	1.094	0.02	0.231	0.253
	LTE Band 7_LAT	20M	QPSK	1	0	Right Tilted	0mm	21100	2535	23.63	24.00	1.089	0.14	0.076	0.083
	LTE Band 7_LAT	20M	QPSK	50	0	Right Tilted	0mm	21100	2535	22.61	23.00	1.094	-0.11	0.052	0.057
	LTE Band 7_LAT	20M	QPSK	1	0	Left Cheek	0mm	21100	2535	23.63	24.00	1.089	-0.16	0.146	0.159
	LTE Band 7_LAT	20M	QPSK	50	0	Left Cheek	0mm	21100	2535	22.61	23.00	1.094	0.15	0.109	0.119
	LTE Band 7_LAT	20M	QPSK	1	0	Left Tilted	0mm	21100	2535	23.63	24.00	1.089	0.1	0.147	0.160
	LTE Band 7_LAT	20M	QPSK	50	0	Left Tilted	0mm	21100	2535	22.61	23.00	1.094	0.14	0.118	0.129
	LTE Band 7_LAT	20M	QPSK	50	0	Left Tilted	0mm	21100	2535	22.61	23.00	1.094	0.14	0.118	0.129

<FDD LTE B12>

WiFi off / WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
10	LTE Band 12_UAT	10M	QPSK	1	0	Right Cheek	0mm	23095	707.5	24.41	24.50	1.021	-0.11	1.130	1.154
	LTE Band 12_UAT	10M	QPSK	25	0	Right Cheek	0mm	23095	707.5	23.39	23.50	1.026	-0.11	0.949	0.973
	LTE Band 12_UAT	10M	QPSK	50	0	Right Cheek	0mm	23095	707.5	23.34	23.50	1.038	0.02	0.938	0.973
	LTE Band 12_UAT	10M	QPSK	1	0	Right Tilted	0mm	23095	707.5	24.41	24.50	1.021	0.09	0.984	1.005
	LTE Band 12_UAT	10M	QPSK	25	0	Right Tilted	0mm	23095	707.5	23.39	23.50	1.026	-0.05	0.840	0.862
	LTE Band 12_UAT	10M	QPSK	50	0	Right Tilted	0mm	23095	707.5	23.34	23.50	1.038	-0.03	0.795	0.825
	LTE Band 12_UAT	10M	QPSK	1	0	Left Cheek	0mm	23095	707.5	24.41	24.50	1.021	0.04	0.868	0.886
	LTE Band 12_UAT	10M	QPSK	25	0	Left Cheek	0mm	23095	707.5	23.39	23.50	1.026	-0.11	0.682	0.699
	LTE Band 12_UAT	10M	QPSK	50	0	Left Cheek	0mm	23095	707.5	23.34	23.50	1.038	-0.06	0.661	0.686
	LTE Band 12_UAT	10M	QPSK	1	0	Left Tilted	0mm	23095	707.5	24.41	24.50	1.021	-0.19	0.861	0.879
	LTE Band 12_UAT	10M	QPSK	25	0	Left Tilted	0mm	23095	707.5	23.39	23.50	1.026	-0.06	0.712	0.730
	LTE Band 12_UAT	10M	QPSK	50	0	Left Tilted	0mm	23095	707.5	23.34	23.50	1.038	0.11	0.687	0.713
	LTE Band 12_LAT	10M	QPSK	1	0	Right Cheek	0mm	23095	707.5	24.41	24.50	1.021	-0.13	0.160	0.163
	LTE Band 12_LAT	10M	QPSK	25	0	Right Cheek	0mm	23095	707.5	23.39	23.50	1.026	0.01	0.131	0.134
	LTE Band 12_LAT	10M	QPSK	1	0	Right Tilted	0mm	23095	707.5	24.41	24.50	1.021	-0.03	0.084	0.086
	LTE Band 12_LAT	10M	QPSK	25	0	Right Tilted	0mm	23095	707.5	23.39	23.50	1.026	-0.07	0.071	0.073
	LTE Band 12_LAT	10M	QPSK	1	0	Left Cheek	0mm	23095	707.5	24.41	24.50	1.021	-0.06	0.165	0.168
	LTE Band 12_LAT	10M	QPSK	25	0	Left Cheek	0mm	23095	707.5	23.39	23.50	1.026	0.03	0.140	0.144
	LTE Band 12_LAT	10M	QPSK	1	0	Left Tilted	0mm	23095	707.5	24.41	24.50	1.021	-0.02	0.087	0.089
	LTE Band 12_LAT	10M	QPSK	25	0	Left Tilted	0mm	23095	707.5	23.39	23.50	1.026	-0.01	0.074	0.076

<FDD LTE B13>

WiFi off / WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
11	LTE Band 13_UAT	10M	QPSK	1	0	Right Cheek	0mm	23230	782	24.45	24.50	1.012	-0.09	1.150	1.163
	LTE Band 13_UAT	10M	QPSK	25	0	Right Cheek	0mm	23230	782	23.45	23.50	1.012	-0.02	0.987	0.998
	LTE Band 13_UAT	10M	QPSK	50	0	Right Cheek	0mm	23230	782	23.43	23.50	1.016	-0.12	0.962	0.978
	LTE Band 13_UAT	10M	QPSK	1	0	Right Tilted	0mm	23230	782	24.45	24.50	1.012	-0.09	1.120	1.133
	LTE Band 13_UAT	10M	QPSK	25	0	Right Tilted	0mm	23230	782	23.45	23.50	1.012	0.09	0.932	0.943
	LTE Band 13_UAT	10M	QPSK	50	0	Right Tilted	0mm	23230	782	23.43	23.50	1.016	-0.08	0.921	0.936
	LTE Band 13_UAT	10M	QPSK	1	0	Left Cheek	0mm	23230	782	24.45	24.50	1.012	0.15	0.891	0.901
	LTE Band 13_UAT	10M	QPSK	25	0	Left Cheek	0mm	23230	782	23.45	23.50	1.012	0.17	0.746	0.755
	LTE Band 13_UAT	10M	QPSK	50	0	Left Cheek	0mm	23230	782	23.43	23.50	1.016	0.02	0.682	0.693
	LTE Band 13_UAT	10M	QPSK	1	0	Left Tilted	0mm	23230	782	24.45	24.50	1.012	0	0.816	0.825
	LTE Band 13_UAT	10M	QPSK	25	0	Left Tilted	0mm	23230	782	23.45	23.50	1.012	0.09	0.675	0.683
	LTE Band 13_UAT	10M	QPSK	50	0	Left Tilted	0mm	23230	782	23.43	23.50	1.016	-0.15	0.669	0.680
	LTE Band 13_LAT	10M	QPSK	1	0	Right Cheek	0mm	23230	782	24.45	24.50	1.012	-0.01	0.262	0.265
	LTE Band 13_LAT	10M	QPSK	25	0	Right Cheek	0mm	23230	782	23.45	23.50	1.012	-0.02	0.214	0.216
	LTE Band 13_LAT	10M	QPSK	1	0	Right Tilted	0mm	23230	782	24.45	24.50	1.012	-0.03	0.162	0.164
	LTE Band 13_LAT	10M	QPSK	25	0	Right Tilted	0mm	23230	782	23.45	23.50	1.012	0	0.134	0.136
	LTE Band 13_LAT	10M	QPSK	1	0	Left Cheek	0mm	23230	782	24.45	24.50	1.012	-0.02	0.258	0.261
	LTE Band 13_LAT	10M	QPSK	25	0	Left Cheek	0mm	23230	782	23.45	23.50	1.012	0.03	0.212	0.214
	LTE Band 13_LAT	10M	QPSK	1	0	Left Tilted	0mm	23230	782	24.45	24.50	1.012	0.01	0.179	0.181
	LTE Band 13_LAT	10M	QPSK	25	0	Left Tilted	0mm	23230	782	23.45	23.50	1.012	-0.03	0.138	0.140



<FDD LTE B25>

WiFi off															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_UAT	20M	QPSK	1	0	Right Cheek	0mm	26340	1880	16.51	17.50	1.256	0.03	0.694	0.872
	LTE Band 25_UAT	20M	QPSK	1	0	Right Cheek	0mm	26140	1860	16.32	17.50	1.312	0	0.780	1.024
	LTE Band 25_UAT	20M	QPSK	1	0	Right Cheek	0mm	26590	1905	16.41	17.50	1.285	-0.06	0.674	0.866
	LTE Band 25_UAT	20M	QPSK	50	0	Right Cheek	0mm	26340	1880	16.50	17.50	1.259	-0.07	0.683	0.860
	LTE Band 25_UAT	20M	QPSK	50	0	Right Cheek	0mm	26140	1860	16.47	17.50	1.268	0.08	0.768	0.974
	LTE Band 25_UAT	20M	QPSK	50	0	Right Cheek	0mm	26590	1905	16.42	17.50	1.282	0.05	0.644	0.826
	LTE Band 25_UAT	20M	QPSK	100	0	Right Cheek	0mm	26590	1905	16.38	17.50	1.294	-0.11	0.629	0.814
	LTE Band 25_UAT	20M	QPSK	1	0	Right Tilted	0mm	26340	1880	16.51	17.50	1.256	-0.02	0.887	1.114
12	LTE Band 25_UAT	20M	QPSK	1	0	Right Tilted	0mm	26140	1860	16.32	17.50	1.312	0.02	0.966	1.268
	LTE Band 25_UAT	20M	QPSK	1	0	Right Tilted	0mm	26590	1905	16.41	17.50	1.285	0.02	0.836	1.074
	LTE Band 25_UAT	20M	QPSK	50	0	Right Tilted	0mm	26340	1880	16.50	17.50	1.259	-0.02	0.868	1.093
	LTE Band 25_UAT	20M	QPSK	50	0	Right Tilted	0mm	26140	1860	16.47	17.50	1.268	-0.14	0.950	1.204
	LTE Band 25_UAT	20M	QPSK	50	0	Right Tilted	0mm	26590	1905	16.42	17.50	1.282	-0.06	0.814	1.044
	LTE Band 25_UAT	20M	QPSK	100	0	Right Tilted	0mm	26590	1905	16.38	17.50	1.294	0	0.795	1.029
	LTE Band 25_UAT	20M	QPSK	1	0	Left Cheek	0mm	26340	1880	16.51	17.50	1.256	0.01	0.421	0.529
	LTE Band 25_UAT	20M	QPSK	50	0	Left Cheek	0mm	26340	1880	16.50	17.50	1.259	-0.04	0.407	0.512
	LTE Band 25_UAT	20M	QPSK	1	0	Left Tilted	0mm	26340	1880	16.51	17.50	1.256	0.06	0.618	0.776
	LTE Band 25_UAT	20M	QPSK	50	0	Left Tilted	0mm	26340	1880	16.50	17.50	1.259	-0.06	0.599	0.754
	LTE Band 25_LAT	20M	QPSK	1	0	Right Cheek	0mm	26340	1880	23.50	24.50	1.259	0.1	0.127	0.160
	LTE Band 25_LAT	20M	QPSK	50	0	Right Cheek	0mm	26340	1880	22.49	23.50	1.262	-0.12	0.107	0.135
	LTE Band 25_LAT	20M	QPSK	1	0	Right Tilted	0mm	26340	1880	23.50	24.50	1.259	0.13	0.071	0.089
	LTE Band 25_LAT	20M	QPSK	50	0	Right Tilted	0mm	26340	1880	22.49	23.50	1.262	0.18	0.054	0.068
	LTE Band 25_LAT	20M	QPSK	1	0	Left Cheek	0mm	26340	1880	23.50	24.50	1.259	0.07	0.254	0.320
	LTE Band 25_LAT	20M	QPSK	1	0	Left Cheek	0mm	26140	1860	23.45	24.50	1.274	0.11	0.256	0.326
	LTE Band 25_LAT	20M	QPSK	1	0	Left Cheek	0mm	26590	1905	23.49	24.50	1.262	0.11	0.247	0.312
	LTE Band 25_LAT	20M	QPSK	50	0	Left Cheek	0mm	26340	1880	22.49	23.50	1.262	0.1	0.188	0.237
	LTE Band 25_LAT	20M	QPSK	1	0	Left Tilted	0mm	26340	1880	23.50	24.50	1.259	0.06	0.078	0.098
	LTE Band 25_LAT	20M	QPSK	50	0	Left Tilted	0mm	26340	1880	22.49	23.50	1.262	0.05	0.059	0.074
WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_UAT	20M	QPSK	1	0	Right Cheek	0mm	26340	1880	16.51	17.00	1.119	0.03	0.694	0.777
	LTE Band 25_UAT	20M	QPSK	1	0	Right Cheek	0mm	26140	1860	16.32	17.00	1.169	0	0.780	0.912
	LTE Band 25_UAT	20M	QPSK	1	0	Right Cheek	0mm	26590	1905	16.41	17.00	1.146	-0.06	0.674	0.772
	LTE Band 25_UAT	20M	QPSK	50	0	Right Cheek	0mm	26340	1880	16.50	17.00	1.122	-0.07	0.683	0.766
	LTE Band 25_UAT	20M	QPSK	50	0	Right Cheek	0mm	26140	1860	16.47	17.00	1.130	0.08	0.768	0.868
	LTE Band 25_UAT	20M	QPSK	50	0	Right Cheek	0mm	26590	1905	16.42	17.00	1.143	0.05	0.644	0.736
	LTE Band 25_UAT	20M	QPSK	100	0	Right Cheek	0mm	26590	1905	16.38	17.00	1.153	-0.11	0.629	0.726
	LTE Band 25_UAT	20M	QPSK	1	0	Right Tilted	0mm	26340	1880	16.51	17.00	1.119	-0.02	0.887	0.993
	LTE Band 25_UAT	20M	QPSK	1	0	Right Tilted	0mm	26140	1860	16.32	17.00	1.169	0.02	0.966	1.130
	LTE Band 25_UAT	20M	QPSK	1	0	Right Tilted	0mm	26590	1905	16.41	17.00	1.146	0.02	0.836	0.958
	LTE Band 25_UAT	20M	QPSK	50	0	Right Tilted	0mm	26340	1880	16.50	17.00	1.122	-0.02	0.868	0.974
	LTE Band 25_UAT	20M	QPSK	50	0	Right Tilted	0mm	26140	1860	16.47	17.00	1.130	-0.14	0.950	1.073
	LTE Band 25_UAT	20M	QPSK	50	0	Right Tilted	0mm	26590	1905	16.42	17.00	1.143	-0.06	0.814	0.930
	LTE Band 25_UAT	20M	QPSK	100	0	Right Tilted	0mm	26590	1905	16.38	17.00	1.153	0	0.795	0.917
	LTE Band 25_UAT	20M	QPSK	1	0	Left Cheek	0mm	26340	1880	16.51	17.00	1.119	0.01	0.421	0.471
	LTE Band 25_UAT	20M	QPSK	50	0	Left Cheek	0mm	26340	1880	16.50	17.00	1.122	-0.04	0.407	0.457
	LTE Band 25_UAT	20M	QPSK	1	0	Left Tilted	0mm	26340	1880	16.51	17.00	1.119	0.06	0.618	0.692
	LTE Band 25_UAT	20M	QPSK	50	0	Left Tilted	0mm	26340	1880	16.50	17.00	1.122	-0.06	0.599	0.672
	LTE Band 25_LAT	20M	QPSK	1	0	Right Cheek	0mm	26340	1880	23.50	24.00	1.122	0.1	0.127	0.142
	LTE Band 25_LAT	20M	QPSK	50	0	Right Cheek	0mm	26340	1880	22.49	23.00	1.125	-0.12	0.107	0.120
	LTE Band 25_LAT	20M	QPSK	1	0	Right Tilted	0mm	26340	1880	23.50	24.00	1.122	0.13	0.071	0.080
	LTE Band 25_LAT	20M	QPSK	50	0	Right Tilted	0mm	26340	1880	22.49	23.00	1.125	0.18	0.054	0.061
	LTE Band 25_LAT	20M	QPSK	1	0	Left Cheek	0mm	26340	1880	23.50	24.00	1.122	0.07	0.254	0.285
	LTE Band 25_LAT	20M	QPSK	1	0	Left Cheek	0mm	26140	1860	23.45	24.00	1.135	0.11	0.256	0.291
	LTE Band 25_LAT	20M	QPSK	1	0	Left Cheek	0mm	26590	1905	23.49	24.00	1.125	0.11	0.247	0.278
	LTE Band 25_LAT	20M	QPSK	50	0	Left Cheek	0mm	26340	1880	22.49	23.00	1.125	0.1	0.188	0.211
	LTE Band 25_LAT	20M	QPSK	1	0	Left Tilted	0mm	26340	1880	23.50	24.00	1.122	0.06	0.078	0.088
	LTE Band 25_LAT	20M	QPSK	50	0	Left Tilted	0mm	26340	1880	22.49	23.00	1.125	0.05	0.059	0.066



<FDD LTE B26>

WiFi off / WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
13	LTE Band 26_UAT	15M	QPSK	1	0	Right Cheek	0mm	26865	831.5	24.17	24.50	1.079	-0.1	1.100	1.187
	LTE Band 26_UAT	15M	QPSK	36	0	Right Cheek	0mm	26865	831.5	22.88	23.50	1.153	-0.11	0.810	0.934
	LTE Band 26_UAT	15M	QPSK	75	0	Right Cheek	0mm	26865	831.5	22.81	23.50	1.172	-0.14	0.833	0.976
	LTE Band 26_UAT	15M	QPSK	1	0	Right Tilted	0mm	26865	831.5	24.17	24.50	1.079	-0.11	0.924	0.997
	LTE Band 26_UAT	15M	QPSK	36	0	Right Tilted	0mm	26865	831.5	22.88	23.50	1.153	-0.08	0.721	0.832
	LTE Band 26_UAT	15M	QPSK	75	0	Right Tilted	0mm	26865	831.5	22.81	23.50	1.172	-0.08	0.739	0.866
	LTE Band 26_UAT	15M	QPSK	1	0	Left Cheek	0mm	26865	831.5	24.17	24.50	1.079	-0.02	0.730	0.788
	LTE Band 26_UAT	15M	QPSK	36	0	Left Cheek	0mm	26865	831.5	22.88	23.50	1.153	0.03	0.577	0.666
	LTE Band 26_UAT	15M	QPSK	1	0	Left Tilted	0mm	26865	831.5	24.17	24.50	1.079	-0.03	0.660	0.712
	LTE Band 26_UAT	15M	QPSK	36	0	Left Tilted	0mm	26865	831.5	22.88	23.50	1.153	-0.01	0.509	0.587
	LTE Band 26_LAT	15M	QPSK	1	0	Right Cheek	0mm	26865	831.5	24.17	24.50	1.079	0.04	0.338	0.365
	LTE Band 26_LAT	15M	QPSK	36	0	Right Cheek	0mm	26865	831.5	22.88	23.50	1.153	0.03	0.254	0.293
	LTE Band 26_LAT	15M	QPSK	1	0	Right Tilted	0mm	26865	831.5	24.17	24.50	1.079	0.05	0.200	0.216
	LTE Band 26_LAT	15M	QPSK	36	0	Right Tilted	0mm	26865	831.5	22.88	23.50	1.153	0.02	0.150	0.173
	LTE Band 26_LAT	15M	QPSK	1	0	Left Cheek	0mm	26865	831.5	24.17	24.50	1.079	-0.01	0.297	0.320
	LTE Band 26_LAT	15M	QPSK	36	0	Left Cheek	0mm	26865	831.5	22.88	23.50	1.153	0.01	0.224	0.258
	LTE Band 26_LAT	15M	QPSK	1	0	Left Tilted	0mm	26865	831.5	24.17	24.50	1.079	0.05	0.206	0.222
	LTE Band 26_LAT	15M	QPSK	36	0	Left Tilted	0mm	26865	831.5	22.88	23.50	1.153	0.04	0.165	0.190

<FDD LTE B30>

WiFi off															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 30_UAT	10M	QPSK	1	0	Right Cheek	0mm	27710	2310	19.09	20.00	1.233	-0.18	0.706	0.871
	LTE Band 30_UAT	10M	QPSK	25	0	Right Cheek	0mm	27710	2310	19.07	20.00	1.239	0.06	0.781	0.968
	LTE Band 30_UAT	10M	QPSK	50	0	Right Cheek	0mm	27710	2310	19.01	20.00	1.256	-0.19	0.794	0.997
	LTE Band 30_UAT	10M	QPSK	1	0	Right Tilted	0mm	27710	2310	19.09	20.00	1.233	-0.01	0.973	1.200
14	LTE Band 30_UAT	10M	QPSK	25	0	Right Tilted	0mm	27710	2310	19.07	20.00	1.239	0.02	1.080	1.338
	LTE Band 30_UAT	10M	QPSK	50	0	Right Tilted	0mm	27710	2310	19.01	20.00	1.256	0.04	1.060	1.331
	LTE Band 30_UAT	10M	QPSK	1	0	Left Cheek	0mm	27710	2310	19.09	20.00	1.233	-0.12	0.689	0.850
	LTE Band 30_UAT	10M	QPSK	25	0	Left Cheek	0mm	27710	2310	19.07	20.00	1.239	0.01	0.693	0.858
	LTE Band 30_UAT	10M	QPSK	50	0	Left Cheek	0mm	27710	2310	19.01	20.00	1.256	0.09	0.677	0.850
	LTE Band 30_UAT	10M	QPSK	1	0	Left Tilted	0mm	27710	2310	19.09	20.00	1.233	0.03	0.848	1.046
	LTE Band 30_UAT	10M	QPSK	25	0	Left Tilted	0mm	27710	2310	19.07	20.00	1.239	-0.03	0.916	1.135
	LTE Band 30_UAT	10M	QPSK	50	0	Left Tilted	0mm	27710	2310	19.01	20.00	1.256	0.07	0.907	1.139
WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 30_UAT	10M	QPSK	1	0	Right Cheek	0mm	27710	2310	19.00	19.00	1.000	-0.18	0.706	0.706
	LTE Band 30_UAT	10M	QPSK	25	0	Right Cheek	0mm	27710	2310	18.86	19.00	1.033	0.06	0.781	0.807
	LTE Band 30_UAT	10M	QPSK	50	0	Right Cheek	0mm	27710	2310	18.80	19.00	1.047	-0.19	0.794	0.831
	LTE Band 30_UAT	10M	QPSK	1	0	Right Tilted	0mm	27710	2310	19.00	19.00	1.000	-0.01	0.973	0.973
	LTE Band 30_UAT	10M	QPSK	25	0	Right Tilted	0mm	27710	2310	18.86	19.00	1.033	0.02	1.080	1.115
	LTE Band 30_UAT	10M	QPSK	50	0	Right Tilted	0mm	27710	2310	18.80	19.00	1.047	0.04	1.060	1.110
	LTE Band 30_UAT	10M	QPSK	1	0	Left Cheek	0mm	27710	2310	19.00	19.00	1.000	-0.12	0.689	0.689
	LTE Band 30_UAT	10M	QPSK	25	0	Left Cheek	0mm	27710	2310	18.86	19.00	1.033	0.01	0.693	0.716
	LTE Band 30_UAT	10M	QPSK	50	0	Left Cheek	0mm	27710	2310	18.80	19.00	1.047	0.09	0.677	0.709
	LTE Band 30_UAT	10M	QPSK	1	0	Left Tilted	0mm	27710	2310	19.00	19.00	1.000	0.03	0.848	0.848
	LTE Band 30_UAT	10M	QPSK	25	0	Left Tilted	0mm	27710	2310	18.86	19.00	1.033	-0.03	0.916	0.946
	LTE Band 30_UAT	10M	QPSK	50	0	Left Tilted	0mm	27710	2310	18.80	19.00	1.047	0.07	0.907	0.950
WiFi off / WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 30_LAT	10M	QPSK	1	0	Right Cheek	0mm	27710	2310	23.49	24.00	1.125	-0.01	0.219	0.246
	LTE Band 30_LAT	10M	QPSK	25	0	Right Cheek	0mm	27710	2310	22.42	23.00	1.143	0.1	0.176	0.201
	LTE Band 30_LAT	10M	QPSK	1	0	Right Tilted	0mm	27710	2310	23.49	24.00	1.125	0.11	0.072	0.081
	LTE Band 30_LAT	10M	QPSK	25	0	Right Tilted	0mm	27710	2310	22.42	23.00	1.143	-0.15	0.057	0.065
	LTE Band 30_LAT	10M	QPSK	1	0	Left Cheek	0mm	27710	2310	23.49	24.00	1.125	-0.1	0.136	0.153
	LTE Band 30_LAT	10M	QPSK	25	0	Left Cheek	0mm	27710	2310	22.42	23.00	1.143	-0.13	0.111	0.127
	LTE Band 30_LAT	10M	QPSK	1	0	Left Tilted	0mm	27710	2310	23.49	24.00	1.125	-0.07	0.106	0.119
	LTE Band 30_LAT	10M	QPSK	25	0	Left Tilted	0mm	27710	2310	22.42	23.00	1.143	0.1	0.086	0.098



<FDD LTE B66>

WiFi off															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_UAT	20M	QPSK	1	0	Right Cheek	0mm	132322	1745	16.32	17.00	1.169	-0.17	0.737	0.862
	LTE Band 66_UAT	20M	QPSK	1	0	Right Cheek	0mm	132072	1720	16.30	17.00	1.175	-0.03	0.799	0.939
	LTE Band 66_UAT	20M	QPSK	1	0	Right Cheek	0mm	132572	1770	16.22	17.00	1.197	0.11	0.780	0.933
	LTE Band 66_UAT	20M	QPSK	50	0	Right Cheek	0mm	132322	1745	16.26	17.00	1.186	-0.14	0.788	0.934
	LTE Band 66_UAT	20M	QPSK	50	0	Right Cheek	0mm	132072	1720	16.25	17.00	1.189	0.07	0.795	0.945
	LTE Band 66_UAT	20M	QPSK	50	0	Right Cheek	0mm	132572	1770	16.12	17.00	1.225	0.14	0.772	0.945
	LTE Band 66_UAT	20M	QPSK	100	0	Right Cheek	0mm	132322	1745	16.13	17.00	1.222	-0.16	0.778	0.951
	LTE Band 66_UAT	20M	QPSK	1	0	Right Tilted	0mm	132322	1745	16.32	17.00	1.169	-0.04	1.020	1.193
	LTE Band 66_UAT	20M	QPSK	1	0	Right Tilted	0mm	132072	1720	16.30	17.00	1.175	0.19	1.010	1.187
	LTE Band 66_UAT	20M	QPSK	1	0	Right Tilted	0mm	132572	1770	16.22	17.00	1.197	-0.14	1.000	1.197
	LTE Band 66_UAT	20M	QPSK	50	0	Right Tilted	0mm	132322	1745	16.26	17.00	1.186	-0.09	1.020	1.209
	LTE Band 66_UAT	20M	QPSK	50	0	Right Tilted	0mm	132072	1720	16.25	17.00	1.189	0.09	1.010	1.200
	LTE Band 66_UAT	20M	QPSK	50	0	Right Tilted	0mm	132572	1770	16.12	17.00	1.225	0.07	0.989	1.211
15	LTE Band 66_UAT	20M	QPSK	100	0	Right Tilted	0mm	132322	1745	16.13	17.00	1.222	-0.07	1.000	1.222
	LTE Band 66_UAT	20M	QPSK	1	0	Left Cheek	0mm	132322	1745	16.32	17.00	1.169	-0.03	0.468	0.547
	LTE Band 66_UAT	20M	QPSK	50	0	Left Cheek	0mm	132322	1745	16.26	17.00	1.186	0.03	0.470	0.557
	LTE Band 66_UAT	20M	QPSK	1	0	Left Tilted	0mm	132322	1745	16.32	17.00	1.169	0	0.728	0.851
	LTE Band 66_UAT	20M	QPSK	1	0	Left Tilted	0mm	132072	1720	16.30	17.00	1.175	-0.03	0.689	0.810
	LTE Band 66_UAT	20M	QPSK	1	0	Left Tilted	0mm	132572	1770	16.22	17.00	1.197	0.04	0.748	0.895
	LTE Band 66_UAT	20M	QPSK	50	0	Left Tilted	0mm	132322	1745	16.26	17.00	1.186	-0.03	0.726	0.861
	LTE Band 66_UAT	20M	QPSK	50	0	Left Tilted	0mm	132072	1720	16.25	17.00	1.189	0.01	0.694	0.825
	LTE Band 66_UAT	20M	QPSK	50	0	Left Tilted	0mm	132572	1770	16.12	17.00	1.225	0.02	0.734	0.899
	LTE Band 66_UAT	20M	QPSK	100	0	Left Tilted	0mm	132322	1745	16.13	17.00	1.222	-0.05	0.718	0.877
WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_UAT	20M	QPSK	1	0	Right Cheek	0mm	132322	1745	16.32	16.50	1.042	-0.17	0.737	0.768
	LTE Band 66_UAT	20M	QPSK	1	0	Right Cheek	0mm	132072	1720	16.30	16.50	1.047	-0.03	0.799	0.837
	LTE Band 66_UAT	20M	QPSK	1	0	Right Cheek	0mm	132572	1770	16.22	16.50	1.067	0.11	0.780	0.832
	LTE Band 66_UAT	20M	QPSK	50	0	Right Cheek	0mm	132322	1745	16.26	16.50	1.057	-0.14	0.788	0.833
	LTE Band 66_UAT	20M	QPSK	50	0	Right Cheek	0mm	132072	1720	16.25	16.50	1.059	0.07	0.795	0.842
	LTE Band 66_UAT	20M	QPSK	50	0	Right Cheek	0mm	132572	1770	16.12	16.50	1.091	0.14	0.772	0.843
	LTE Band 66_UAT	20M	QPSK	100	0	Right Cheek	0mm	132322	1745	16.13	16.50	1.089	-0.16	0.778	0.847
	LTE Band 66_UAT	20M	QPSK	1	0	Right Tilted	0mm	132322	1745	16.32	16.50	1.042	-0.04	1.020	1.063
	LTE Band 66_UAT	20M	QPSK	1	0	Right Tilted	0mm	132072	1720	16.30	16.50	1.047	0.19	1.010	1.058
	LTE Band 66_UAT	20M	QPSK	1	0	Right Tilted	0mm	132572	1770	16.22	16.50	1.067	-0.14	1.000	1.067
	LTE Band 66_UAT	20M	QPSK	50	0	Right Tilted	0mm	132322	1745	16.26	16.50	1.057	-0.09	1.020	1.078
	LTE Band 66_UAT	20M	QPSK	50	0	Right Tilted	0mm	132072	1720	16.25	16.50	1.059	0.09	1.010	1.070
	LTE Band 66_UAT	20M	QPSK	50	0	Right Tilted	0mm	132572	1770	16.12	16.50	1.091	0.07	0.989	1.079
	LTE Band 66_UAT	20M	QPSK	100	0	Right Tilted	0mm	132322	1745	16.13	16.50	1.089	-0.07	1.000	1.089
	LTE Band 66_UAT	20M	QPSK	1	0	Left Cheek	0mm	132322	1745	16.32	16.50	1.042	-0.03	0.468	0.488
	LTE Band 66_UAT	20M	QPSK	50	0	Left Cheek	0mm	132322	1745	16.26	16.50	1.057	0.03	0.470	0.497
	LTE Band 66_UAT	20M	QPSK	1	0	Left Tilted	0mm	132322	1745	16.32	16.50	1.042	0	0.728	0.759
	LTE Band 66_UAT	20M	QPSK	1	0	Left Tilted	0mm	132072	1720	16.30	16.50	1.047	-0.03	0.689	0.721
	LTE Band 66_UAT	20M	QPSK	1	0	Left Tilted	0mm	132572	1770	16.22	16.50	1.067	0.04	0.748	0.798
	LTE Band 66_UAT	20M	QPSK	50	0	Left Tilted	0mm	132322	1745	16.26	16.50	1.057	-0.03	0.726	0.767
	LTE Band 66_UAT	20M	QPSK	50	0	Left Tilted	0mm	132072	1720	16.25	16.50	1.059	0.01	0.694	0.735
	LTE Band 66_UAT	20M	QPSK	50	0	Left Tilted	0mm	132572	1770	16.12	16.50	1.091	0.02	0.734	0.801
	LTE Band 66_UAT	20M	QPSK	100	0	Left Tilted	0mm	132322	1745	16.13	16.50	1.089	-0.05	0.718	0.782
WiFi off / WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_LAT	20M	QPSK	1	0	Right Cheek	0mm	132322	1745	23.50	24.00	1.122	-0.1	0.114	0.128
	LTE Band 66_LAT	20M	QPSK	50	0	Right Cheek	0mm	132322	1745	22.48	23.00	1.127	-0.19	0.087	0.098
	LTE Band 66_LAT	20M	QPSK	1	0	Right Tilted	0mm	132322	1745	23.50	24.00	1.122	0.1	0.076	0.085
	LTE Band 66_LAT	20M	QPSK	50	0	Right Tilted	0mm	132322	1745	22.48	23.00	1.127	0.1	0.058	0.065
	LTE Band 66_LAT	20M	QPSK	1	0	Left Cheek	0mm	132322	1745	23.50	24.00	1.122	0.06	0.229	0.257
	LTE Band 66_LAT	20M	QPSK	1	0	Left Cheek	0mm	132072	1720	23.48	24.00	1.127	0.11	0.318	0.358
	LTE Band 66_LAT	20M	QPSK	1	0	Left Cheek	0mm	132572	1770	23.49	24.00	1.125	0.1	0.248	0.279
	LTE Band 66_LAT	20M	QPSK	50	0	Left Cheek	0mm	132322	1745	22.48	23.00	1.127	0.14	0.175	0.197
	LTE Band 66_LAT	20M	QPSK	1	0	Left Tilted	0mm	132322	1745	23.50	24.00	1.122	0.16	0.057	0.064
	LTE Band 66_LAT	20M	QPSK	50	0	Left Tilted	0mm	132322	1745	22.48	23.00	1.127	0.18	0.042	0.047

<FDD LTE B71>

WiFi off / WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
16	LTE Band 71_UAT	20M	QPSK	1	0	Right Cheek	0mm	133322	683	24.05	24.50	1.109	0.14	0.898	0.996
	LTE Band 71_UAT	20M	QPSK	50	0	Right Cheek	0mm	133322	683	22.57	23.50	1.239	-0.11	0.634	0.785
	LTE Band 71_UAT	20M	QPSK	100	0	Right Cheek	0mm	133322	683	22.04	23.50	1.400	0.07	0.635	0.889
	LTE Band 71_UAT	20M	QPSK	1	0	Right Tilted	0mm	133322	683	24.05	24.50	1.109	-0.12	0.867	0.962
	LTE Band 71_UAT	20M	QPSK	50	0	Right Tilted	0mm	133322	683	22.57	23.50	1.239	0.01	0.622	0.771
	LTE Band 71_UAT	20M	QPSK	100	0	Right Tilted	0mm	133322	683	22.04	23.50	1.400	0.06	0.618	0.865
	LTE Band 71_UAT	20M	QPSK	1	0	Left Cheek	0mm	133322	683	24.05	24.50	1.109	0.04	0.629	0.698
	LTE Band 71_UAT	20M	QPSK	50	0	Left Cheek	0mm	133322	683	22.57	23.50	1.239	0	0.455	0.564
	LTE Band 71_UAT	20M	QPSK	1	0	Left Tilted	0mm	133322	683	24.05	24.50	1.109	0	0.714	0.792
	LTE Band 71_UAT	20M	QPSK	50	0	Left Tilted	0mm	133322	683	22.57	23.50	1.239	0.03	0.514	0.637
	LTE Band 71_LAT	20M	QPSK	1	0	Right Cheek	0mm	133322	683	24.05	24.50	1.109	-0.02	0.249	0.276
	LTE Band 71_LAT	20M	QPSK	50	0	Right Cheek	0mm	133322	683	22.57	23.50	1.239	-0.07	0.168	0.208
	LTE Band 71_LAT	20M	QPSK	1	0	Right Tilted	0mm	133322	683	24.05	24.50	1.109	-0.06	0.165	0.183
	LTE Band 71_LAT	20M	QPSK	50	0	Right Tilted	0mm	133322	683	22.57	23.50	1.239	-0.08	0.113	0.140
	LTE Band 71_LAT	20M	QPSK	1	0	Left Cheek	0mm	133322	683	24.05	24.50	1.109	0	0.346	0.384
	LTE Band 71_LAT	20M	QPSK	50	0	Left Cheek	0mm	133322	683	22.57	23.50	1.239	-0.02	0.234	0.290
	LTE Band 71_LAT	20M	QPSK	1	0	Left Tilted	0mm	133322	683	24.05	24.50	1.109	0.02	0.204	0.226
	LTE Band 71_LAT	20M	QPSK	50	0	Left Tilted	0mm	133322	683	22.57	23.50	1.239	-0.16	0.140	0.173



FCC SAR TEST REPORT

Report No. : FA820225-02

<TDD LTE B41>

WiFi off																		
Note	Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	17	LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	40185	2549.5	20.57	21.50	1.239	62.9	1.006	-0.09	1.050	1.309
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	39750	2506	20.46	21.50	1.271	62.9	1.006	-0.07	1.020	1.304
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	40620	2593	20.45	21.50	1.274	62.9	1.006	-0.02	0.872	1.117
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	41055	2636.5	20.16	21.50	1.361	62.9	1.006	-0.06	0.756	1.035
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	41490	2680	19.83	21.50	1.469	62.9	1.006	-0.06	0.596	0.881
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	40185	2549.5	20.54	21.50	1.247	62.9	1.006	-0.08	0.955	1.198
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	39750	2506	20.45	21.50	1.274	62.9	1.006	-0.09	1.020	1.307
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	40620	2593	20.49	21.50	1.262	62.9	1.006	-0.02	0.835	1.060
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	41055	2636.5	20.18	21.50	1.355	62.9	1.006	-0.03	0.728	0.992
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	41490	2680	20.50	21.50	1.259	62.9	1.006	0	0.735	0.931
		LTE Band 41_UAT	20M	QPSK	100	0	Right Cheek	0mm	40185	2549.5	20.52	21.50	1.253	62.9	1.006	-0.04	1.030	1.298
		LTE Band 41_UAT	20M	QPSK	1	0	Right Tilted	0mm	40185	2549.5	20.57	21.50	1.239	62.9	1.006	0.04	0.449	0.560
		LTE Band 41_UAT	20M	QPSK	50	0	Right Tilted	0mm	40185	2549.5	20.54	21.50	1.247	62.9	1.006	0.06	0.442	0.555
		LTE Band 41_UAT	20M	QPSK	1	0	Left Cheek	0mm	40185	2549.5	20.57	21.50	1.239	62.9	1.006	0.08	0.334	0.416
		LTE Band 41_UAT	20M	QPSK	50	0	Left Cheek	0mm	40185	2549.5	20.54	21.50	1.247	62.9	1.006	0.04	0.322	0.404
		LTE Band 41_UAT	20M	QPSK	1	0	Left Tilted	0mm	40185	2549.5	20.57	21.50	1.239	62.9	1.006	0.17	0.427	0.532
		LTE Band 41_UAT	20M	QPSK	50	0	Left Tilted	0mm	40185	2549.5	20.54	21.50	1.247	62.9	1.006	0.11	0.424	0.532
HPUE		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	40185	2549.5	21.46	22.50	1.271	42.9	1.009	-0.15	0.935	1.199
WiFi on																		
Note	Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	17	LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	40185	2549.5	20.57	21.00	1.104	62.9	1.006	-0.09	1.050	1.166
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	39750	2506	20.46	21.00	1.132	62.9	1.006	-0.07	1.020	1.162
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	40620	2593	20.45	21.00	1.135	62.9	1.006	-0.02	0.872	0.996
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	41055	2636.5	20.16	21.00	1.213	62.9	1.006	-0.06	0.756	0.923
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	41490	2680	19.83	21.00	1.309	62.9	1.006	-0.06	0.596	0.785
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	40185	2549.5	20.54	21.00	1.112	62.9	1.006	-0.08	0.955	1.068
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	39790	2510	20.46	21.00	1.132	62.9	1.006	-0.09	1.020	1.162
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	40620	2593	20.49	21.00	1.125	62.9	1.006	-0.02	0.835	0.945
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	41055	2636.5	20.18	21.00	1.208	62.9	1.006	-0.03	0.728	0.885
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	41490	2680	20.50	21.00	1.122	62.9	1.006	0	0.735	0.830
		LTE Band 41_UAT	20M	QPSK	100	0	Right Cheek	0mm	40185	2549.5	20.52	21.00	1.117	62.9	1.006	-0.04	1.030	1.157
		LTE Band 41_UAT	20M	QPSK	1	0	Right Tilted	0mm	40185	2549.5	20.57	21.00	1.104	62.9	1.006	0.04	0.449	0.499
		LTE Band 41_UAT	20M	QPSK	50	0	Right Tilted	0mm	40185	2549.5	20.54	21.00	1.112	62.9	1.006	0.06	0.442	0.494
		LTE Band 41_UAT	20M	QPSK	1	0	Left Cheek	0mm	40185	2549.5	20.57	21.00	1.104	62.9	1.006	0.08	0.334	0.371
		LTE Band 41_UAT	20M	QPSK	50	0	Left Cheek	0mm	40185	2549.5	20.54	21.00	1.112	62.9	1.006	0.04	0.322	0.360
		LTE Band 41_UAT	20M	QPSK	1	0	Left Tilted	0mm	40185	2549.5	20.57	21.00	1.104	62.9	1.006	0.17	0.427	0.474
		LTE Band 41_UAT	20M	QPSK	50	0	Left Tilted	0mm	40185	2549.5	20.54	21.00	1.112	62.9	1.006	0.11	0.424	0.474
HPUE		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	40185	2549.5	21.46	22.00	1.132	42.9	1.009	-0.15	0.910	1.040
WiFi off / WiFi on																		
Note	Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		LTE Band 41_LAT	20M	QPSK	1	0	Right Cheek	0mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	0.1	0.153	0.173
		LTE Band 41_LAT	20M	QPSK	1	0	Right Cheek	0mm	39750	2506	24.60	25.20	1.148	62.9	1.006	-0.01	0.137	0.158
		LTE Band 41_LAT	20M	QPSK	1	0	Right Cheek	0mm	40620	2593	24.60	25.20	1.148	62.9	1.006	0.1	0.141	0.163
		LTE Band 41_LAT	20M	QPSK	1	0	Right Cheek	0mm	41055	2636.5	24.59	25.20	1.151	62.9	1.006	0.12	0.108	0.125
		LTE Band 41_LAT	20M	QPSK	1	0	Right Cheek	0mm	41490	2680	24.52	25.20	1.169	62.9	1.006	0.15	0.084	0.099
		LTE Band 41_LAT	20M	QPSK	50	0	Right Cheek	0mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	0.01	0.111	0.126
		LTE Band 41_LAT	20M	QPSK	1	0	Right Tilted	0mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	0.01	0.059	0.067
		LTE Band 41_LAT	20M	QPSK	50	0	Right Tilted	0mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	-0.01	0.046	0.052
		LTE Band 41_LAT	20M	QPSK	1	0	Left Cheek	0mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	0.04	0.101	0.114
		LTE Band 41_LAT	20M	QPSK	50	0	Left Cheek	0mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	0.04	0.083	0.094
		LTE Band 41_LAT	20M	QPSK	1	0	Left Tilted	0mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	-0.15	0.037	0.042
		LTE Band 41_LAT	20M	QPSK	50	0	Left Tilted	0mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	-0.08	0.029	0.033
HPUE		LTE Band 41_LAT	20M	QPSK	1	0	Right Cheek	0mm	40185	2549.5	25.57	27.00	1.390	42.9	1.009	0.19	0.121	0.170



<2.4GHz WLAN SAR>

WWAN off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4	11	2462	13.77	14.00	1.054	100.00	1.000	-0.04	0.240	0.253
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	11	2462	13.77	14.00	1.054	100.00	1.000	-0.06	0.284	0.299
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	11	2462	13.77	14.00	1.054	100.00	1.000	-0.04	0.573	0.604
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	11	2462	13.77	14.00	1.054	100.00	1.000	0.07	0.707	0.745
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 5	1	2412	18.00	18.00	1.000	100.00	1.000	-0.03	0.289	0.289
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 5	1	2412	18.00	18.00	1.000	100.00	1.000	0.01	0.120	0.120
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	1	2412	18.00	18.00	1.000	100.00	1.000	-0.08	1.140	1.140
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	6	2437	17.95	18.00	1.012	100.00	1.000	-0.11	1.140	1.153
18	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	11	2462	17.77	18.00	1.054	100.00	1.000	-0.15	1.240	1.307
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5	1	2412	18.00	18.00	1.000	100.00	1.000	0.01	0.197	0.197
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 5	6	2437	18.00	18.00	1.000	98.31	1.017	-0.03	0.266	0.271
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 5	6	2437	18.00	18.00	1.000	98.31	1.017	0.05	0.111	0.113
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 5	6	2437	18.00	18.00	1.000	98.31	1.017	0.05	1.080	1.098
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 5	1	2412	17.87	18.00	1.030	98.31	1.017	-0.07	0.873	0.915
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 5	11	2462	16.11	17.00	1.227	98.31	1.017	-0.01	0.789	0.985
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 5	6	2437	18.00	18.00	1.000	98.31	1.017	0.01	0.186	0.189
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+5	11	2462	16.00	16.00	1.000	100.00	1.000	0.04	0.479	0.479
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4+5	11	2462	17.20	18.00	1.202	100.00	1.000	0.03	0.283	0.340
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	11	2462	16.00	16.00	1.000	100.00	1.000	0.1	0.652	0.652
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	6	2437	17.20	18.00	1.202	100.00	1.000	0.1	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	1	2412	15.80	16.00	1.047	100.00	1.000	-0.17	1.150	1.150
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	1	2412	17.01	18.00	1.256	100.00	1.000	-0.11	1.080	1.298
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	6	2437	15.80	16.00	1.047	100.00	1.000	-0.17	1.060	1.110
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	1	2412	17.01	18.00	1.256	100.00	1.000	-0.11	0.815	1.024
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	1	2412	15.70	16.00	1.072	100.00	1.000	-0.11	1.000	1.072
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	1	2412	17.14	18.00	1.219	100.00	1.000	-0.11	0.801	0.976
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+5	11	2462	16.00	16.00	1.000	100.00	1.000	-0.11	1.230	1.230
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+5	6	2437	17.20	18.00	1.202	100.00	1.000	-0.11	0.288	0.346
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+5	6	2437	15.80	16.00	1.047	100.00	1.000	-0.07	1.000	1.047
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+5	6	2437	17.01	18.00	1.256	100.00	1.000	-0.07	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+5	1	2412	15.95	16.00	1.012	98.10	1.019	0.1	0.416	0.429
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+5	1	2412	16.65	18.00	1.365	98.10	1.019	0.1	0.209	0.291
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4+5	1	2412	15.95	16.00	1.012	98.10	1.019	0.06	0.402	0.414
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4+5	1	2412	16.65	18.00	1.365	98.10	1.019	0.06	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+5	11	2462	15.69	16.00	1.074	98.10	1.019	-0.04	1.010	1.105
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+5	11	2462	16.55	17.00	1.109	98.10	1.019	-0.04	0.901	1.018
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+5	1	2412	15.95	16.00	1.012	98.10	1.019	-0.06	0.769	0.793
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+5	1	2412	16.65	18.00	1.365	98.10	1.019	-0.06	0.707	0.983
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+5	11	2462	15.69	16.00	1.074	98.10	1.019	0.1	1.160	1.269
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+5	11	2462	16.55	17.00	1.109	98.10	1.019	0.1	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+5	1	2412	15.95	16.00	1.012	98.10	1.019	0.05	0.913	0.941
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+5	1	2412	16.65	18.00	1.365	98.10	1.019	0.05	0.001	0.001
WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4	1	2412	8.25	8.50	1.059	100	1.000	-0.19	0.062	0.066
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	1	2412	8.25	8.50	1.059	100	1.000	0.18	0.065	0.069
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	1	2412	8.25	8.50	1.059	100	1.000	0.04	0.156	0.165
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	1	2412	8.25	8.50	1.059	100	1.000	0.04	0.177	0.187
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 5	1	2412	12.97	13.50	1.130	100	1.000	0	0.085	0.096
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 5	1	2412	12.97	13.50	1.130	100	1.000	-0.02	0.038	0.043
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	1	2412	12.97	13.50	1.130	100	1.000	0.01	0.325	0.367
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5	1	2412	12.97	13.50	1.130	100	1.000	0.07	0.060	0.068
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+5	11	2462	10.77	11.00	1.054	100	1.000	-0.03	0.136	0.143
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+5	11	2462	10.75	11.00	1.059	100	1.000	-0.03	0.057	0.060
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4+5	11	2462	10.77	11.00	1.054	100	1.000	-0.02	0.139	0.147
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4+5	11	2462	10.75	11.00	1.059	100	1.000	-0.02	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	11	2462	10.77	11.00	1.054	100	1.000	-0.14	0.326	0.344
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	11	2462	10.75	11.00	1.059	100	1.000	-0.14	0.220	0.233
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+5	11	2462	10.77	11.00	1.054	100	1.000	0.04	0.362	0.382
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+5	11	2462	10.75	11.00	1.059	100	1.000	0.04	0.001	0.001



<5.2GHz WLAN SAR>

WWAN off																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna		Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 6		46	5230	16.97	17.00	1.007	95.88	1.043	-0.02	0.850	0.893
	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 6		36	5180	16.95	17.00	1.012	98.07	1.020	0	0.870	0.898
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 6		46	5230	16.97	17.00	1.007	95.88	1.043	0.03	0.906	0.952
	WLAN5GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 6		36	5180	16.95	17.00	1.012	98.07	1.020	0.01	0.916	0.945
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6		46	5230	16.97	17.00	1.007	95.88	1.043	0.03	0.986	1.036
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 6		36	5180	16.95	17.00	1.012	98.07	1.020	0.06	0.911	0.940
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6		46	5230	16.97	17.00	1.007	95.88	1.043	-0.11	0.997	1.047
	WLAN5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 6		36	5180	16.95	17.00	1.012	98.07	1.020	-0.03	0.949	0.979
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 6+5	Ant 6 Ant 5	46	5230	14.95	16.00	1.274	95.96	1.042	0.14	0.555	0.736
									15.60	16.00	1.096	95.96	1.042		0.240	0.274
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 6+5	Ant 6 Ant 5	46	5230	14.95	16.00	1.274	95.96	1.042	0.08	0.553	0.734
									15.60	16.00	1.096	95.96	1.042		0.075	0.086
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 6+5	Ant 6 Ant 5	40	5200	14.82	16.00	1.312	98.10	1.019	-0.1	0.648	0.866
									15.71	16.00	1.069	98.10	1.019		0.953	1.038
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6+5	Ant 6 Ant 5	46	5230	14.95	16.00	1.274	95.96	1.042	-0.1	0.832	1.104
									15.60	16.00	1.096	95.96	1.042		0.937	1.071
	WLAN5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 6+5	Ant 6 Ant 5	40	5200	14.82	16.00	1.312	98.10	1.019	-0.18	0.687	0.919
									15.71	16.00	1.069	98.10	1.019		0.158	0.172
19	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6+5	Ant 6 Ant 5	46	5230	14.95	16.00	1.274	95.96	1.042	-0.14	0.872	1.157
									15.60	16.00	1.096	95.96	1.042		0.165	0.189



<5.3GHz WLAN SAR>

WWAN off																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna		Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 6		54	5270	16.71	17.00	1.069	95.88	1.043	0.03	1.000	1.115
	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 6		52	5260	16.89	17.00	1.026	98.07	1.020	0.06	0.946	0.990
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 6		54	5270	16.71	17.00	1.069	95.88	1.043	-0.07	1.090	1.215
	WLAN5GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 6		52	5260	16.89	17.00	1.026	98.07	1.020	-0.03	1.000	1.046
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6		54	5270	16.71	17.00	1.069	95.88	1.043	0	1.110	1.238
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 6		52	5260	16.89	17.00	1.026	98.07	1.020	0.04	1.020	1.067
20	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6		54	5270	16.71	17.00	1.069	95.88	1.043	-0.17	1.200	1.338
	WLAN5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 6		52	5260	16.89	17.00	1.026	98.07	1.020	-0.05	1.030	1.078
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5		58	5290	13.99	14.50	1.125	95.56	1.046	0.19	0.175	0.206
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5		58	5290	13.99	14.50	1.125	95.56	1.046	-0.13	0.054	0.064
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5		58	5290	13.99	14.50	1.125	95.56	1.046	-0.12	0.606	0.713
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5		58	5290	13.99	14.50	1.125	95.56	1.046	-0.07	0.103	0.121
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 6+5	Ant 5	54	5270	15.00	16.00	1.259	95.96	1.042	-0.15	0.794	1.042
									15.21	16.00	1.199	95.96	1.042		0.284	0.355
	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 6+5	Ant 5	56	5280	14.95	16.00	1.274	98.10	1.019	0.15	0.714	0.927
									15.45	16.00	1.135	98.10	1.019		0.294	0.340
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 6+5	Ant 5	54	5270	15.00	16.00	1.259	95.96	1.042	0.13	0.802	1.052
									15.21	16.00	1.199	95.96	1.042		0.091	0.114
	WLAN5GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 6+5	Ant 5	56	5280	14.95	16.00	1.274	98.10	1.019	0	0.704	0.914
									15.45	16.00	1.135	98.10	1.019		0.092	0.106
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6+5	Ant 5	54	5270	15.00	16.00	1.259	95.96	1.042	-0.05	0.908	1.191
									15.21	16.00	1.199	95.96	1.042		0.979	1.224
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 6+5	Ant 5	56	5280	14.95	16.00	1.274	98.10	1.019	-0.03	0.818	1.062
									15.45	16.00	1.135	98.10	1.019		0.910	1.052
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6+5	Ant 5	54	5270	15.00	16.00	1.259	95.96	1.042	-0.17	0.865	1.135
									15.21	16.00	1.199	95.96	1.042		0.170	0.212
	WLAN5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 6+5	Ant 5	56	5280	14.95	16.00	1.274	98.10	1.019	-0.05	0.859	1.115
									15.45	16.00	1.135	98.10	1.019		0.181	0.209
WWAN on																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna		Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6		58	5290	10.90	11.00	1.023	95.56	1.046	-0.02	0.300	0.321
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6		58	5290	10.90	11.00	1.023	95.56	1.046	-0.04	0.298	0.319
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6		58	5290	10.90	11.00	1.023	95.56	1.046	-0.17	0.338	0.362
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6		58	5290	10.90	11.00	1.023	95.56	1.046	-0.09	0.347	0.371
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5		58	5290	8.80	9.00	1.047	95.51	1.047	-0.03	0.033	0.036
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5		58	5290	8.80	9.00	1.047	95.51	1.047	-0.1	0.010	0.011
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5		58	5290	8.80	9.00	1.047	95.51	1.047	-0.05	0.170	0.186
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5		58	5290	8.80	9.00	1.047	95.51	1.047	0.15	0.029	0.032
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+5	Ant 5	58	5290	9.90	11.00	1.288	95.56	1.046	-0.11	0.224	0.302
									10.60	11.00	1.096	95.56	1.046		0.087	0.100
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+5	Ant 5	58	5290	9.90	11.00	1.288	95.56	1.046	0.18	0.254	0.342
									10.60	11.00	1.096	95.56	1.046		0.028	0.032
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+5	Ant 5	58	5290	9.90	11.00	1.288	95.56	1.046	-0.17	0.221	0.298
									10.60	11.00	1.096	95.56	1.046		0.323	0.370
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+5	Ant 5	58	5290	9.90	11.00	1.288	95.56	1.046	-0.07	0.220	0.296
									10.60	11.00	1.096	95.56	1.046		0.047	0.054

**<5.5GHz WLAN SAR>**

WWAN off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	138	5690	14.88	15.00	1.028	95.56	1.046	-0.04	0.865	0.930
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	106	5530	14.50	15.00	1.122	95.56	1.046	-0.01	0.823	0.966
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	138	5690	14.88	15.00	1.028	95.56	1.046	-0.11	0.970	1.043
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	106	5530	14.50	15.00	1.122	95.56	1.046	-0.03	0.887	1.041
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	138	5690	14.88	15.00	1.028	95.56	1.046	0	1.000	1.075
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	106	5530	14.50	15.00	1.122	95.56	1.046	0.04	0.974	1.143
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	138	5690	14.88	15.00	1.028	95.56	1.046	-0.09	1.100	1.183
21	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	106	5530	14.50	15.00	1.122	95.56	1.046	-0.02	1.060	1.244
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	122	5610	14.49	15.00	1.125	95.56	1.046	0.03	1.000	1.176
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	110	5550	14.90	15.00	1.023	95.88	1.043	0.03	1.090	1.163
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	138	5690	14.21	14.50	1.069	95.56	1.046	-0.12	0.173	0.193
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	138	5690	14.21	14.50	1.069	95.56	1.046	0.1	0.039	0.044
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	138	5690	14.21	14.50	1.069	95.56	1.046	0	0.677	0.757
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	106	5530	14.16	14.50	1.081	95.56	1.046	0.11	0.650	0.735
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	138	5690	14.21	14.50	1.069	95.56	1.046	0.18	0.083	0.093
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+5	138	5690	14.71	15.00	1.069	95.56	1.046	0.11	0.622	0.695
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+5	138	5690	15.71	16.50	1.199	95.56	1.046	0.18	0.242	0.304
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+5	138	5690	14.71	15.00	1.069	95.56	1.046	0.18	0.631	0.705
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+5	138	5690	15.71	16.50	1.199	95.56	1.046	0.18	0.075	0.094
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+5	138	5690	14.71	15.00	1.069	95.56	1.046	-0.12	1.040	1.163
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+5	138	5690	15.71	16.50	1.199	95.56	1.046	-0.12	0.865	1.085
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+5	122	5610	14.70	15.00	1.072	95.56	1.046	-0.14	0.958	1.074
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+5	122	5610	15.70	16.50	1.202	95.56	1.046	-0.14	0.912	1.147
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+5	106	5530	14.35	14.50	1.035	95.56	1.046	-0.12	0.933	1.010
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+5	106	5530	14.39	14.50	1.026	95.56	1.046	-0.12	0.979	1.050
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+5	138	5690	14.71	15.00	1.069	95.56	1.046	-0.12	1.040	1.163
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+5	138	5690	15.71	16.50	1.199	95.56	1.046	-0.12	0.196	0.246
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+5	122	5610	14.70	15.00	1.072	95.56	1.046	0.07	1.010	1.132
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+5	122	5610	15.70	16.50	1.202	95.56	1.046	0.07	0.133	0.167
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+5	106	5530	14.35	14.50	1.035	95.56	1.046	-0.12	0.756	0.819
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+5	106	5530	14.39	14.50	1.026	95.56	1.046	-0.12	0.112	0.120
WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	138	5690	9.82	10.00	1.042	95.56	1.046	-0.13	0.253	0.276
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	138	5690	9.82	10.00	1.042	95.56	1.046	-0.16	0.283	0.309
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	138	5690	9.82	10.00	1.042	95.56	1.046	0.17	0.308	0.336
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	138	5690	9.82	10.00	1.042	95.56	1.046	-0.1	0.315	0.343
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	138	5690	7.90	9.00	1.288	95.51	1.047	0.15	0.016	0.022
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	138	5690	7.90	9.00	1.288	95.51	1.047	0	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	138	5690	7.90	9.00	1.288	95.51	1.047	-0.03	0.124	0.167
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	138	5690	7.90	9.00	1.288	95.51	1.047	-0.1	0.008	0.011
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+5	138	5690	9.50	10.00	1.122	95.56	1.046	-0.12	0.256	0.300
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+5	138	5690	10.99	11.00	1.002	95.56	1.046	-0.12	0.099	0.104
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+5	138	5690	9.50	10.00	1.122	95.56	1.046	0.11	0.289	0.339
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+5	138	5690	10.99	11.00	1.002	95.56	1.046	0.11	0.031	0.033
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+5	138	5690	9.50	10.00	1.122	95.56	1.046	-0.08	0.296	0.347
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+5	138	5690	10.99	11.00	1.002	95.56	1.046	-0.08	0.333	0.349
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+5	138	5690	9.50	10.00	1.122	95.56	1.046	0.02	0.308	0.361
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+5	138	5690	10.99	11.00	1.002	95.56	1.046	0.02	0.034	0.036



<5.8GHz WLAN SAR>

WWAN off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	155	5775	16.38	16.50	1.028	95.56	1.046	0.05	0.935	1.005
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 6	151	5755	16.29	16.50	1.050	95.88	1.043	-0.01	0.890	0.974
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	155	5775	16.38	16.50	1.028	95.56	1.046	-0.02	1.040	1.118
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 6	151	5755	16.29	16.50	1.050	95.88	1.043	-0.03	1.010	1.106
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	155	5775	16.38	16.50	1.028	95.56	1.046	-0.12	1.060	1.140
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	151	5755	16.29	16.50	1.050	95.88	1.043	0.06	0.979	1.072
22	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	155	5775	16.38	16.50	1.028	95.56	1.046	-0.09	1.190	1.280
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	151	5755	16.29	16.50	1.050	95.88	1.043	0.07	1.050	1.149
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	155	5775	15.02	15.50	1.117	95.56	1.046	0.04	0.176	0.206
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	155	5775	15.02	15.50	1.117	95.56	1.046	0.05	0.072	0.084
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	155	5775	15.02	15.50	1.117	95.56	1.046	-0.07	0.585	0.683
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	155	5775	15.02	15.50	1.117	95.56	1.046	0.1	0.215	0.251
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+5	Ant 6 Ant 5	155 5775	14.70 15.30	16.00 16.00	1.349 1.175	95.56 95.56	1.046 1.046	0.14	0.550 0.302	0.776 0.371
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+5	Ant 6 Ant 5	155 5775	14.70 15.30	16.00 16.00	1.349 1.175	95.56 95.56	1.046 1.046	0.11	0.506 0.093	0.714 0.114
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+5	Ant 6 Ant 5	155 5775	14.70 15.30	16.00 16.00	1.349 1.175	95.56 95.56	1.046 1.046	0.01	0.835 0.977	1.178 1.201
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6+5	Ant 6 Ant 5	151 5755	14.85 15.49	16.00 16.00	1.303 1.125	95.96 95.96	1.042 1.042	0.03	0.818 0.969	1.111 1.136
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+5	Ant 6 Ant 5	155 5775	14.70 15.30	16.00 16.00	1.349 1.175	95.56 95.56	1.046 1.046	-0.05	0.852 0.115	1.202 0.141
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6+5	Ant 6 Ant 5	151 5755	14.85 15.49	16.00 16.00	1.303 1.125	95.96 95.96	1.042 1.042	-0.02	0.845 0.114	1.147 0.134
WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	155	5775	10.65	11.00	1.084	95.56	1.046	-0.05	0.230	0.261
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	155	5775	10.65	11.00	1.084	95.56	1.046	0.03	0.273	0.310
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	155	5775	10.65	11.00	1.084	95.56	1.046	-0.06	0.280	0.317
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	155	5775	10.65	11.00	1.084	95.56	1.046	-0.12	0.290	0.329
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	155	5775	8.70	9.00	1.072	95.51	1.047	-0.14	0.036	0.040
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	155	5775	8.70	9.00	1.072	95.51	1.047	0.16	0.008	0.008
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	155	5775	8.70	9.00	1.072	95.51	1.047	-0.06	0.164	0.184
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	155	5775	8.70	9.00	1.072	95.51	1.047	-0.13	0.022	0.025
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+5	Ant 6 Ant 5	155 5775	10.90 11.35	11.00 11.50	1.023 1.035	95.56 95.56	1.046 1.046	-0.15	0.269 0.105	0.288 0.114
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+5	Ant 6 Ant 5	155 5775	10.90 11.35	11.00 11.50	1.023 1.035	95.56 95.56	1.046 1.046	0.16	0.301 0.033	0.322 0.036
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+5	Ant 6 Ant 5	155 5775	10.90 11.35	11.00 11.50	1.023 1.035	95.56 95.56	1.046 1.046	-0.13	0.314 0.351	0.336 0.380
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+5	Ant 6 Ant 5	155 5775	10.90 11.35	11.00 11.50	1.023 1.035	95.56 95.56	1.046 1.046	0.14	0.323 0.035	0.346 0.038
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+5	Ant 6 Ant 5	155 5775	10.90 11.35	11.00 11.50	1.023 1.035	95.56 95.56	1.046 1.046	-0.15	0.269 0.105	0.288 0.114



<Bluetooth SAR>

WWAN off and WIFI off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4	39	2441	15.11	15.50	1.094	76.60	1.087	-0.09	0.194	0.231
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 4	39	2441	15.11	15.50	1.094	76.60	1.087	-0.01	0.207	0.246
23	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	39	2441	15.11	15.50	1.094	76.60	1.087	0.07	0.650	0.773
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	00	2402	14.55	15.50	1.245	76.60	1.087	-0.02	0.410	0.555
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	78	2480	14.43	15.50	1.279	76.60	1.087	-0.16	0.368	0.512
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	39	2441	15.11	15.50	1.094	76.60	1.087	-0.18	0.529	0.629
WWAN on or WIFI on, WWAN and WIFI on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4	78	2480	9.88	10.00	1.028	76.60	1.087	0.13	0.048	0.054
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 4	78	2480	9.88	10.00	1.028	76.60	1.087	0.15	0.049	0.055
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	78	2480	9.88	10.00	1.028	76.60	1.087	0.14	0.109	0.122
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	78	2480	9.88	10.00	1.028	76.60	1.087	0.13	0.201	0.225

13.2 Hotspot SAR

<GSM850>

WiFi off / WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_UAT	GPRS (4 Tx slots)	Front	10mm	189	836.4	27.05	28.00	1.245	-0.11	0.129	0.161
	GSM850_UAT	GPRS (4 Tx slots)	Front	10mm	128	824.2	27.03	28.00	1.250	0.18	0.113	0.141
	GSM850_UAT	GPRS (4 Tx slots)	Front	10mm	251	848.8	27.00	28.00	1.259	0.15	0.133	0.167
	GSM850_UAT	GPRS (4 Tx slots)	Back	10mm	189	836.4	27.05	28.00	1.245	0.09	0.124	0.154
	GSM850_UAT	GPRS (4 Tx slots)	Left Side	10mm	189	836.4	27.05	28.00	1.245	0.12	0.044	0.055
	GSM850_UAT	GPRS (4 Tx slots)	Right Side	10mm	189	836.4	27.05	28.00	1.245	-0.14	0.045	0.056
	GSM850_UAT	GPRS (4 Tx slots)	Top Side	10mm	189	836.4	27.05	28.00	1.245	0.07	0.070	0.087
	GSM850_LAT	GPRS (4 Tx slots)	Front	10mm	189	836.4	27.05	28.00	1.245	-0.08	0.211	0.263
	GSM850_LAT	GPRS (4 Tx slots)	Back	10mm	189	836.4	27.05	28.00	1.245	0	0.212	0.264
24	GSM850_LAT	GPRS (4 Tx slots)	Back	10mm	128	824.2	27.03	28.00	1.250	0	0.212	0.265
	GSM850_LAT	GPRS (4 Tx slots)	Back	10mm	251	848.8	27.00	28.00	1.259	0.04	0.203	0.256
	GSM850_LAT	GPRS (4 Tx slots)	Left Side	10mm	189	836.4	27.05	28.00	1.245	0.03	0.182	0.227
	GSM850_LAT	GPRS (4 Tx slots)	Right Side	10mm	189	836.4	27.05	28.00	1.245	0.05	0.104	0.129
	GSM850_LAT	GPRS (4 Tx slots)	Bottom Side	10mm	189	836.4	27.05	28.00	1.245	0.08	0.059	0.073

<GSM1900>

WiFi off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900_UAT	GPRS (4 Tx slots)	Front	10mm	512	1850.2	24.83	25.50	1.167	0.17	0.451	0.526
	GSM1900_UAT	GPRS (4 Tx slots)	Back	10mm	512	1850.2	24.83	25.50	1.167	-0.01	0.473	0.552
	GSM1900_UAT	GPRS (4 Tx slots)	Left Side	10mm	512	1850.2	24.83	25.50	1.167	0.08	0.250	0.292
	GSM1900_UAT	GPRS (4 Tx slots)	Right Side	10mm	512	1850.2	24.83	25.50	1.167	0.12	0.012	0.014
25	GSM1900_UAT	GPRS (4 Tx slots)	Top Side	10mm	512	1850.2	24.83	25.50	1.167	-0.11	1.040	1.213
	GSM1900_UAT	GPRS (4 Tx slots)	Top Side	10mm	661	1880	24.53	25.50	1.250	-0.04	0.833	1.041
	GSM1900_UAT	GPRS (4 Tx slots)	Top Side	10mm	810	1909.8	24.50	25.50	1.259	-0.1	0.778	0.979
WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900_UAT	GPRS (4 Tx slots)	Front	10mm	512	1850.2	24.83	25.00	1.040	0.17	0.451	0.469
	GSM1900_UAT	GPRS (4 Tx slots)	Back	10mm	512	1850.2	24.83	25.00	1.040	-0.01	0.473	0.492
	GSM1900_UAT	GPRS (4 Tx slots)	Left Side	10mm	512	1850.2	24.83	25.00	1.040	0.08	0.250	0.260
	GSM1900_UAT	GPRS (4 Tx slots)	Right Side	10mm	512	1850.2	24.83	25.00	1.040	0.12	0.012	0.012
	GSM1900_UAT	GPRS (4 Tx slots)	Top Side	10mm	512	1850.2	24.83	25.00	1.040	-0.11	1.040	1.082
	GSM1900_UAT	GPRS (4 Tx slots)	Top Side	10mm	661	1880	24.53	25.00	1.114	-0.04	0.833	0.928
	GSM1900_UAT	GPRS (4 Tx slots)	Top Side	10mm	810	1909.8	24.50	25.00	1.122	-0.1	0.778	0.873
WiFi off / WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900_LAT	GPRS (4 Tx slots)	Front	10mm	512	1850.2	24.83	25.50	1.167	-0.03	0.533	0.622
	GSM1900_LAT	GPRS (4 Tx slots)	Back	10mm	512	1850.2	24.83	25.50	1.167	-0.07	0.545	0.636
	GSM1900_LAT	GPRS (4 Tx slots)	Left Side	10mm	512	1850.2	24.83	25.50	1.167	0.03	0.054	0.063
	GSM1900_LAT	GPRS (4 Tx slots)	Right Side	10mm	512	1850.2	24.83	25.50	1.167	-0.13	0.108	0.126
	GSM1900_LAT	GPRS (4 Tx slots)	Bottom Side	10mm	512	1850.2	24.83	25.50	1.167	-0.05	0.624	0.728
	GSM1900_LAT	GPRS (4 Tx slots)	Bottom Side	10mm	661	1880	24.53	25.50	1.250	-0.11	0.491	0.614
	GSM1900_LAT	GPRS (4 Tx slots)	Bottom Side	10mm	810	1909.8	24.50	25.50	1.259	-0.05	0.477	0.601

<WCDMA II>

WiFi off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_UAT	RMC 12.2Kbps	Front	10mm	9400	1880	21.36	22.00	1.159	-0.02	0.505	0.585
	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	9400	1880	21.36	22.00	1.159	-0.01	0.536	0.621
	WCDMA II_UAT	RMC 12.2Kbps	Left Side	10mm	9400	1880	21.36	22.00	1.159	-0.14	0.273	0.316
	WCDMA II_UAT	RMC 12.2Kbps	Right Side	10mm	9400	1880	21.36	22.00	1.159	0.07	0.017	0.020
26	WCDMA II_UAT	RMC 12.2Kbps	Top Side	10mm	9400	1880	21.36	22.00	1.159	-0.09	1.130	1.309
	WCDMA II_UAT	RMC 12.2Kbps	Top Side	10mm	9262	1852.4	21.24	22.00	1.191	-0.05	1.080	1.287
	WCDMA II_UAT	RMC 12.2Kbps	Top Side	10mm	9538	1907.6	21.33	22.00	1.167	-0.11	1.000	1.167
	WCDMA II_LAT	RMC 12.2Kbps	Front	10mm	9400	1880	22.86	23.50	1.159	0.04	0.836	0.969
	WCDMA II_LAT	RMC 12.2Kbps	Front	10mm	9262	1852.4	22.79	23.50	1.178	-0.07	0.841	0.990
	WCDMA II_LAT	RMC 12.2Kbps	Front	10mm	9538	1907.6	22.61	23.50	1.227	-0.08	0.769	0.944
	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	9400	1880	22.86	23.50	1.159	0.02	0.893	1.035
	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	9262	1852.4	22.79	23.50	1.178	-0.05	0.885	1.042
	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	9538	1907.6	22.61	23.50	1.227	0.02	0.941	1.155
	WCDMA II_LAT	RMC 12.2Kbps	Left Side	10mm	9400	1880	22.86	23.50	1.159	0.02	0.085	0.098
	WCDMA II_LAT	RMC 12.2Kbps	Right Side	10mm	9400	1880	22.86	23.50	1.159	-0.04	0.216	0.250
	WCDMA II_LAT	RMC 12.2Kbps	Bottom Side	10mm	9400	1880	22.86	23.50	1.159	-0.14	1.050	1.217
	WCDMA II_LAT	RMC 12.2Kbps	Bottom Side	10mm	9262	1852.4	22.79	23.50	1.178	0.05	1.090	1.284
	WCDMA II_LAT	RMC 12.2Kbps	Bottom Side	10mm	9538	1907.6	22.61	23.50	1.227	-0.17	1.000	1.227
WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_UAT	RMC 12.2Kbps	Front	10mm	9400	1880	21.36	21.50	1.033	-0.02	0.505	0.522
	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	9400	1880	21.36	21.50	1.033	-0.01	0.536	0.554
	WCDMA II_UAT	RMC 12.2Kbps	Left Side	10mm	9400	1880	21.36	21.50	1.033	-0.14	0.273	0.282
	WCDMA II_UAT	RMC 12.2Kbps	Right Side	10mm	9400	1880	21.36	21.50	1.033	0.07	0.017	0.018
	WCDMA II_UAT	RMC 12.2Kbps	Top Side	10mm	9400	1880	21.36	21.50	1.033	-0.09	1.130	1.167
	WCDMA II_UAT	RMC 12.2Kbps	Top Side	10mm	9262	1852.4	21.24	21.50	1.062	-0.05	1.080	1.147
	WCDMA II_UAT	RMC 12.2Kbps	Top Side	10mm	9538	1907.6	21.33	21.50	1.040	-0.11	1.000	1.040
	WCDMA II_LAT	RMC 12.2Kbps	Front	10mm	9400	1880	22.86	23.00	1.033	0.04	0.836	0.863
	WCDMA II_LAT	RMC 12.2Kbps	Front	10mm	9262	1852.4	22.79	23.00	1.050	-0.07	0.841	0.883
	WCDMA II_LAT	RMC 12.2Kbps	Front	10mm	9538	1907.6	22.61	23.00	1.094	-0.08	0.769	0.841
	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	9400	1880	22.86	23.00	1.033	0.02	0.893	0.922
	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	9262	1852.4	22.79	23.00	1.050	-0.05	0.885	0.929
	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	9538	1907.6	22.61	23.00	1.094	0.02	0.941	1.029
	WCDMA II_LAT	RMC 12.2Kbps	Left Side	10mm	9400	1880	22.86	23.00	1.033	0.02	0.085	0.088
	WCDMA II_LAT	RMC 12.2Kbps	Right Side	10mm	9400	1880	22.86	23.00	1.033	-0.04	0.216	0.223
	WCDMA II_LAT	RMC 12.2Kbps	Bottom Side	10mm	9400	1880	22.86	23.00	1.033	-0.14	1.050	1.084
	WCDMA II_LAT	RMC 12.2Kbps	Bottom Side	10mm	9262	1852.4	22.79	23.00	1.050	0.05	1.090	1.144
	WCDMA II_LAT	RMC 12.2Kbps	Bottom Side	10mm	9538	1907.6	22.61	23.00	1.094	-0.17	1.000	1.094

<WCDMA IV>

WiFi off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_UAT	RMC 12.2Kbps	Front	10mm	1413	1732.6	21.43	22.00	1.140	0	0.623	0.710
	WCDMA IV_UAT	RMC 12.2Kbps	Back	10mm	1413	1732.6	21.43	22.00	1.140	0.09	0.622	0.709
	WCDMA IV_UAT	RMC 12.2Kbps	Left Side	10mm	1413	1732.6	21.43	22.00	1.140	-0.13	0.247	0.282
	WCDMA IV_UAT	RMC 12.2Kbps	Right Side	10mm	1413	1732.6	21.43	22.00	1.140	0.03	0.019	0.022
	WCDMA IV_UAT	RMC 12.2Kbps	Top Side	10mm	1413	1732.6	21.43	22.00	1.140	-0.12	1.030	1.174
	WCDMA IV_UAT	RMC 12.2Kbps	Top Side	10mm	1312	1712.4	21.39	22.00	1.151	-0.1	0.955	1.099
27	WCDMA IV_UAT	RMC 12.2Kbps	Top Side	10mm	1513	1752.6	21.31	22.00	1.172	-0.03	1.140	1.336
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	1413	1732.6	22.58	23.50	1.236	-0.05	0.862	1.065
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	1312	1712.4	22.51	23.50	1.256	-0.04	0.863	1.084
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	1513	1752.6	22.54	23.50	1.247	-0.06	0.848	1.058
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1413	1732.6	22.58	23.50	1.236	0.02	0.881	1.089
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1312	1712.4	22.51	23.50	1.256	0.03	0.869	1.091
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1513	1752.6	22.54	23.50	1.247	0.02	0.864	1.078
	WCDMA IV_LAT	RMC 12.2Kbps	Left Side	10mm	1413	1732.6	22.58	23.50	1.236	0.01	0.094	0.116
	WCDMA IV_LAT	RMC 12.2Kbps	Right Side	10mm	1413	1732.6	22.58	23.50	1.236	-0.03	0.200	0.247
	WCDMA IV_LAT	RMC 12.2Kbps	Bottom Side	10mm	1413	1732.6	22.58	23.50	1.236	-0.02	0.993	1.227
	WCDMA IV_LAT	RMC 12.2Kbps	Bottom Side	10mm	1312	1712.4	22.51	23.50	1.256	-0.01	1.060	1.331
	WCDMA IV_LAT	RMC 12.2Kbps	Bottom Side	10mm	1513	1752.6	22.54	23.50	1.247	-0.05	0.936	1.168
WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_UAT	RMC 12.2Kbps	Front	10mm	1413	1732.6	21.43	21.50	1.016	0	0.623	0.633
	WCDMA IV_UAT	RMC 12.2Kbps	Back	10mm	1413	1732.6	21.43	21.50	1.016	0.09	0.622	0.632
	WCDMA IV_UAT	RMC 12.2Kbps	Left Side	10mm	1413	1732.6	21.43	21.50	1.016	-0.13	0.247	0.251
	WCDMA IV_UAT	RMC 12.2Kbps	Right Side	10mm	1413	1732.6	21.43	21.50	1.016	0.03	0.019	0.019
	WCDMA IV_UAT	RMC 12.2Kbps	Top Side	10mm	1413	1732.6	21.43	21.50	1.016	-0.12	1.030	1.047
	WCDMA IV_UAT	RMC 12.2Kbps	Top Side	10mm	1312	1712.4	21.39	21.50	1.026	-0.1	0.955	0.979
	WCDMA IV_UAT	RMC 12.2Kbps	Top Side	10mm	1513	1752.6	21.42	21.50	1.019	-0.03	1.140	1.161
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	1413	1732.6	22.58	23.00	1.102	-0.05	0.862	0.950
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	1312	1712.4	22.51	23.00	1.119	-0.04	0.863	0.966
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	1513	1752.6	22.54	23.00	1.112	-0.06	0.848	0.943
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1413	1732.6	22.58	23.00	1.102	0.02	0.881	0.970
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1312	1712.4	22.51	23.00	1.119	0.03	0.869	0.973
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1513	1752.6	22.54	23.00	1.112	0.02	0.864	0.961
	WCDMA IV_LAT	RMC 12.2Kbps	Left Side	10mm	1413	1732.6	22.58	23.00	1.102	0.01	0.094	0.104
	WCDMA IV_LAT	RMC 12.2Kbps	Right Side	10mm	1413	1732.6	22.58	23.00	1.102	-0.03	0.200	0.220
	WCDMA IV_LAT	RMC 12.2Kbps	Bottom Side	10mm	1413	1732.6	22.58	23.00	1.102	-0.02	0.993	1.094
	WCDMA IV_LAT	RMC 12.2Kbps	Bottom Side	10mm	1312	1712.4	22.51	23.00	1.119	-0.01	1.060	1.187
	WCDMA IV_LAT	RMC 12.2Kbps	Bottom Side	10mm	1513	1752.6	22.54	23.00	1.112	-0.05	0.936	1.041

<WCDMA V>

WiFi off / WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V_UAT	RMC 12.2Kbps	Front	10mm	4182	836.4	24.00	24.50	1.122	0.01	0.277	0.311
	WCDMA V_UAT	RMC 12.2Kbps	Back	10mm	4182	836.4	24.00	24.50	1.122	-0.04	0.296	0.332
	WCDMA V_UAT	RMC 12.2Kbps	Back	10mm	4132	826.4	23.90	24.50	1.148	-0.04	0.285	0.327
	WCDMA V_UAT	RMC 12.2Kbps	Back	10mm	4233	846.6	23.98	24.50	1.127	-0.04	0.240	0.271
	WCDMA V_UAT	RMC 12.2Kbps	Left Side	10mm	4182	836.4	24.00	24.50	1.122	0	0.119	0.134
	WCDMA V_UAT	RMC 12.2Kbps	Right Side	10mm	4182	836.4	24.00	24.50	1.122	0.01	0.181	0.203
	WCDMA V_UAT	RMC 12.2Kbps	Top Side	10mm	4182	836.4	24.00	24.50	1.122	0.08	0.136	0.153
	WCDMA V_LAT	RMC 12.2Kbps	Front	10mm	4182	836.4	24.00	24.50	1.122	-0.03	0.433	0.486
28	WCDMA V_LAT	RMC 12.2Kbps	Front	10mm	4132	826.4	23.90	24.50	1.148	-0.01	0.434	0.498
	WCDMA V_LAT	RMC 12.2Kbps	Front	10mm	4233	846.6	23.98	24.50	1.127	-0.01	0.420	0.473
	WCDMA V_LAT	RMC 12.2Kbps	Back	10mm	4182	836.4	24.00	24.50	1.122	0.08	0.420	0.471
	WCDMA V_LAT	RMC 12.2Kbps	Left Side	10mm	4182	836.4	24.00	24.50	1.122	0.01	0.331	0.371
	WCDMA V_LAT	RMC 12.2Kbps	Right Side	10mm	4182	836.4	24.00	24.50	1.122	0.1	0.431	0.484
	WCDMA V_LAT	RMC 12.2Kbps	Bottom Side	10mm	4182	836.4	24.00	24.50	1.122	-0.01	0.103	0.116

<CDMA BC0>

WiFi off / WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC0_UAT	RTAP 153.6Kbps	Front	10mm	777	848.31	24.19	24.50	1.074	-0.18	0.268	0.288
	CDMA BC0_UAT	RTAP 153.6Kbps	Back	10mm	777	848.31	24.19	24.50	1.074	-0.13	0.275	0.295
	CDMA BC0_UAT	RTAP 153.6Kbps	Back	10mm	1013	824.7	24.11	24.50	1.094	-0.02	0.287	0.314
	CDMA BC0_UAT	RTAP 153.6Kbps	Back	10mm	384	836.52	24.09	24.50	1.099	-0.09	0.194	0.213
	CDMA BC0_UAT	RTAP 153.6Kbps	Left Side	10mm	777	848.31	24.19	24.50	1.074	0	0.083	0.089
	CDMA BC0_UAT	RTAP 153.6Kbps	Right Side	10mm	777	848.31	24.19	24.50	1.074	0.02	0.157	0.169
	CDMA BC0_UAT	RTAP 153.6Kbps	Top Side	10mm	777	848.31	24.19	24.50	1.074	0.06	0.143	0.154
	CDMA BC0_LAT	RTAP 153.6Kbps	Front	10mm	777	848.31	24.19	24.50	1.074	-0.03	0.439	0.471
	CDMA BC0_LAT	RTAP 153.6Kbps	Back	10mm	777	848.31	24.19	24.50	1.074	0.05	0.454	0.488
	CDMA BC0_LAT	RTAP 153.6Kbps	Left Side	10mm	777	848.31	24.19	24.50	1.074	-0.02	0.363	0.390
29	CDMA BC0_LAT	RTAP 153.6Kbps	Right Side	10mm	777	848.31	24.19	24.50	1.074	-0.02	0.520	0.558
	CDMA BC0_LAT	RTAP 153.6Kbps	Right Side	10mm	1013	824.7	24.11	24.50	1.094	0.04	0.468	0.512
	CDMA BC0_LAT	RTAP 153.6Kbps	Right Side	10mm	384	836.52	24.09	24.50	1.099	-0.03	0.494	0.543
	CDMA BC0_LAT	RTAP 153.6Kbps	Bottom Side	10mm	777	848.31	24.19	24.50	1.074	0.12	0.144	0.155

<CDMA BC1>

WiFi off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_UAT	RTAP 153.6Kbps	Front	10mm	600	1880	19.87	21.00	1.297	-0.05	0.388	0.503
	CDMA BC1_UAT	RTAP 153.6Kbps	Back	10mm	600	1880	19.87	21.00	1.297	-0.07	0.465	0.603
	CDMA BC1_UAT	RTAP 153.6Kbps	Left Side	10mm	600	1880	19.87	21.00	1.297	0	0.224	0.291
	CDMA BC1_UAT	RTAP 153.6Kbps	Right Side	10mm	600	1880	19.87	21.00	1.297	-0.01	0.013	0.017
	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	10mm	600	1880	19.87	21.00	1.297	-0.11	0.895	1.161
30	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	10mm	25	1851.25	19.76	21.00	1.330	-0.15	0.974	1.296
	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	10mm	1175	1908.75	19.63	21.00	1.371	-0.09	0.780	1.069
	CDMA BC1_LAT	RTAP 153.6Kbps	Front	10mm	600	1880	22.39	23.50	1.291	0.06	0.914	1.180
	CDMA BC1_LAT	RTAP 153.6Kbps	Front	10mm	25	1851.25	22.25	23.50	1.334	-0.08	0.916	1.222
	CDMA BC1_LAT	RTAP 153.6Kbps	Front	10mm	1175	1908.75	22.18	23.50	1.355	-0.05	0.789	1.069
	CDMA BC1_LAT	RTAP 153.6Kbps	Back	10mm	600	1880	22.39	23.50	1.291	0.03	0.884	1.141
	CDMA BC1_LAT	RTAP 153.6Kbps	Back	10mm	25	1851.25	22.25	23.50	1.334	0.01	0.869	1.159
	CDMA BC1_LAT	RTAP 153.6Kbps	Back	10mm	1175	1908.75	22.18	23.50	1.355	0.02	0.787	1.067
	CDMA BC1_LAT	RTAP 153.6Kbps	Left Side	10mm	600	1880	22.39	23.50	1.291	0.08	0.096	0.124
	CDMA BC1_LAT	RTAP 153.6Kbps	Right Side	10mm	600	1880	22.39	23.50	1.291	0.17	0.187	0.241
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	10mm	600	1880	22.39	23.50	1.291	-0.19	0.923	1.192
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	10mm	25	1851.25	22.25	23.50	1.334	-0.1	0.886	1.181
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	10mm	1175	1908.75	22.18	23.50	1.355	-0.09	0.879	1.191
WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_UAT	RTAP 153.6Kbps	Front	10mm	600	1880	19.87	20.50	1.156	-0.05	0.388	0.449
	CDMA BC1_UAT	RTAP 153.6Kbps	Back	10mm	600	1880	19.87	20.50	1.156	-0.07	0.465	0.538
	CDMA BC1_UAT	RTAP 153.6Kbps	Left Side	10mm	600	1880	19.87	20.50	1.156	0	0.224	0.259
	CDMA BC1_UAT	RTAP 153.6Kbps	Right Side	10mm	600	1880	19.87	20.50	1.156	-0.01	0.013	0.015
	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	10mm	600	1880	19.87	20.50	1.156	-0.11	0.895	1.035
	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	10mm	25	1851.25	19.76	20.50	1.186	-0.15	0.974	1.155
	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	10mm	1175	1908.75	19.63	20.50	1.222	-0.09	0.780	0.953
	CDMA BC1_LAT	RTAP 153.6Kbps	Front	10mm	600	1880	22.39	23.00	1.151	0.06	0.914	1.052
	CDMA BC1_LAT	RTAP 153.6Kbps	Front	10mm	25	1851.25	22.25	23.00	1.189	-0.08	0.916	1.089
	CDMA BC1_LAT	RTAP 153.6Kbps	Front	10mm	1175	1908.75	22.18	23.00	1.208	-0.05	0.789	0.953
	CDMA BC1_LAT	RTAP 153.6Kbps	Back	10mm	600	1880	22.39	23.00	1.151	0.03	0.884	1.017
	CDMA BC1_LAT	RTAP 153.6Kbps	Back	10mm	25	1851.25	22.25	23.00	1.189	0.01	0.869	1.033
	CDMA BC1_LAT	RTAP 153.6Kbps	Back	10mm	1175	1908.75	22.18	23.00	1.208	0.02	0.787	0.951
	CDMA BC1_LAT	RTAP 153.6Kbps	Left Side	10mm	600	1880	22.39	23.00	1.151	0.08	0.096	0.110
	CDMA BC1_LAT	RTAP 153.6Kbps	Right Side	10mm	600	1880	22.39	23.00	1.151	0.17	0.187	0.215
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	10mm	600	1880	22.39	23.00	1.151	-0.19	0.923	1.062
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	10mm	25	1851.25	22.25	23.00	1.189	-0.1	0.886	1.053
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	10mm	1175	1908.75	22.18	23.00	1.208	-0.09	0.879	1.062

<CDMA BC10>

WiFi off / WiFi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC10_UAT	RTAP 153.6Kbps	Front	10mm	580	820.5	24.17	24.50	1.079	-0.01	0.305	0.329
	CDMA BC10_UAT	RTAP 153.6Kbps	Back	10mm	580	820.5	24.17	24.50	1.079	-0.03	0.313	0.338
	CDMA BC10_UAT	RTAP 153.6Kbps	Left Side	10mm	580	820.5	24.17	24.50	1.079	0.03	0.095	0.102
	CDMA BC10_UAT	RTAP 153.6Kbps	Right Side	10mm	580	820.5	24.17	24.50	1.079	-0.06	0.205	0.221
	CDMA BC10_UAT	RTAP 153.6Kbps	Top Side	10mm	580	820.5	24.17	24.50	1.079	0.09	0.148	0.160
	CDMA BC10_LAT	RTAP 153.6Kbps	Front	10mm	580	820.5	24.17	24.50	1.079	0.01	0.452	0.488
	CDMA BC10_LAT	RTAP 153.6Kbps	Back	10mm	580	820.5	24.17	24.50	1.079	-0.13	0.443	0.478
	CDMA BC10_LAT	RTAP 153.6Kbps	Left Side	10mm	580	820.5	24.17	24.50	1.079	0.01	0.377	0.407
31	CDMA BC10_LAT	RTAP 153.6Kbps	Right Side	10mm	580	820.5	24.17	24.50	1.079	-0.06	0.502	0.542
	CDMA BC10_LAT	RTAP 153.6Kbps	Bottom Side	10mm	580	820.5	24.17	24.50	1.079	0.08	0.117	0.126

<FDD LTE B7>

WiFi off / WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_UAT	20M	QPSK	1	0	Front	10mm	21100	2535	23.63	24.00	1.089	-0.04	0.478	0.521
	LTE Band 7_UAT	20M	QPSK	50	0	Front	10mm	21100	2535	22.61	23.00	1.094	-0.02	0.360	0.394
	LTE Band 7_UAT	20M	QPSK	1	0	Back	10mm	21100	2535	23.63	24.00	1.089	0	0.830	0.904
	LTE Band 7_UAT	20M	QPSK	1	0	Back	10mm	20850	2510	23.55	24.00	1.109	0.03	0.817	0.906
32	LTE Band 7_UAT	20M	QPSK	1	0	Back	10mm	21350	2560	23.51	24.00	1.119	-0.03	0.819	0.917
	LTE Band 7_UAT	20M	QPSK	50	0	Back	10mm	21100	2535	22.61	23.00	1.094	-0.07	0.621	0.679
	LTE Band 7_UAT	20M	QPSK	100	0	Back	10mm	21100	2535	22.48	23.00	1.127	-0.04	0.659	0.743
	LTE Band 7_UAT	20M	QPSK	1	0	Left Side	10mm	21100	2535	23.63	24.00	1.089	0.11	0.631	0.687
	LTE Band 7_UAT	20M	QPSK	50	0	Left Side	10mm	21100	2535	22.61	23.00	1.094	0.11	0.481	0.526
	LTE Band 7_UAT	20M	QPSK	1	0	Right Side	10mm	21100	2535	23.63	24.00	1.089	0.06	0.151	0.164
	LTE Band 7_UAT	20M	QPSK	50	0	Right Side	10mm	21100	2535	22.61	23.00	1.094	0.07	0.114	0.125
	LTE Band 7_UAT	20M	QPSK	1	0	Top Side	10mm	21100	2535	23.63	24.00	1.089	-0.01	0.400	0.436
	LTE Band 7_UAT	20M	QPSK	50	0	Top Side	10mm	21100	2535	22.61	23.00	1.094	-0.16	0.294	0.322
	LTE Band 7_LAT	20M	QPSK	1	0	Front	10mm	21100	2535	23.63	24.00	1.089	0.1	0.632	0.688
	LTE Band 7_LAT	20M	QPSK	50	0	Front	10mm	21100	2535	22.61	23.00	1.094	0.15	0.476	0.521
	LTE Band 7_LAT	20M	QPSK	1	0	Back	10mm	21100	2535	23.63	24.00	1.089	0	0.556	0.605
	LTE Band 7_LAT	20M	QPSK	50	0	Back	10mm	21100	2535	22.61	23.00	1.094	0.05	0.419	0.458
	LTE Band 7_LAT	20M	QPSK	1	0	Left Side	10mm	21100	2535	23.63	24.00	1.089	0.02	0.048	0.052
	LTE Band 7_LAT	20M	QPSK	50	0	Left Side	10mm	21100	2535	22.61	23.00	1.094	-0.05	0.035	0.038
	LTE Band 7_LAT	20M	QPSK	1	0	Right Side	10mm	21100	2535	23.63	24.00	1.089	0.02	0.307	0.334
	LTE Band 7_LAT	20M	QPSK	50	0	Right Side	10mm	21100	2535	22.61	23.00	1.094	-0.04	0.237	0.259
	LTE Band 7_LAT	20M	QPSK	1	0	Bottom Side	10mm	21100	2535	23.63	24.00	1.089	-0.08	0.378	0.412
	LTE Band 7_LAT	20M	QPSK	50	0	Bottom Side	10mm	21100	2535	22.61	23.00	1.094	-0.01	0.288	0.315

<FDD LTE B12>

WiFi off / WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12_UAT	10M	QPSK	1	0	Front	10mm	23095	707.5	24.41	24.50	1.021	0.15	0.219	0.224
	LTE Band 12_UAT	10M	QPSK	25	0	Front	10mm	23095	707.5	23.39	23.50	1.026	0.09	0.175	0.179
	LTE Band 12_UAT	10M	QPSK	1	0	Back	10mm	23095	707.5	24.41	24.50	1.021	0.07	0.229	0.234
	LTE Band 12_UAT	10M	QPSK	25	0	Back	10mm	23095	707.5	23.39	23.50	1.026	0.08	0.187	0.192
	LTE Band 12_UAT	10M	QPSK	1	0	Left Side	10mm	23095	707.5	24.41	24.50	1.021	-0.07	0.112	0.114
	LTE Band 12_UAT	10M	QPSK	25	0	Left Side	10mm	23095	707.5	23.39	23.50	1.026	-0.04	0.087	0.089
	LTE Band 12_UAT	10M	QPSK	1	0	Right Side	10mm	23095	707.5	24.41	24.50	1.021	0.01	0.093	0.095
	LTE Band 12_UAT	10M	QPSK	25	0	Right Side	10mm	23095	707.5	23.39	23.50	1.026	-0.09	0.073	0.075
	LTE Band 12_UAT	10M	QPSK	1	0	Top Side	10mm	23095	707.5	24.41	24.50	1.021	0.02	0.074	0.076
	LTE Band 12_UAT	10M	QPSK	25	0	Top Side	10mm	23095	707.5	23.39	23.50	1.026	-0.06	0.061	0.063
33	LTE Band 12_LAT	10M	QPSK	1	0	Front	10mm	23095	707.5	24.41	24.50	1.021	0.05	0.271	0.277
	LTE Band 12_LAT	10M	QPSK	25	0	Front	10mm	23095	707.5	23.39	23.50	1.026	-0.01	0.229	0.235
	LTE Band 12_LAT	10M	QPSK	1	0	Back	10mm	23095	707.5	24.41	24.50	1.021	0.1	0.265	0.271
	LTE Band 12_LAT	10M	QPSK	25	0	Back	10mm	23095	707.5	23.39	23.50	1.026	-0.03	0.224	0.230
	LTE Band 12_LAT	10M	QPSK	1	0	Left Side	10mm	23095	707.5	24.41	24.50	1.021	-0.1	0.242	0.247
	LTE Band 12_LAT	10M	QPSK	25	0	Left Side	10mm	23095	707.5	23.39	23.50	1.026	-0.01	0.203	0.208
	LTE Band 12_LAT	10M	QPSK	1	0	Right Side	10mm	23095	707.5	24.41	24.50	1.021	-0.01	0.187	0.191
	LTE Band 12_LAT	10M	QPSK	25	0	Right Side	10mm	23095	707.5	23.39	23.50	1.026	-0.01	0.160	0.164
	LTE Band 12_LAT	10M	QPSK	1	0	Bottom Side	10mm	23095	707.5	24.41	24.50	1.021	0.15	0.045	0.046
	LTE Band 12_LAT	10M	QPSK	25	0	Bottom Side	10mm	23095	707.5	23.39	23.50	1.026	-0.18	0.037	0.038



<FDD LTE B13>

WiFi off / WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 13_UAT	10M	QPSK	1	0	Front	10mm	23230	782	24.45	24.50	1.012	0.03	0.248	0.251
	LTE Band 13_UAT	10M	QPSK	25	0	Front	10mm	23230	782	23.45	23.50	1.012	0.12	0.201	0.203
	LTE Band 13_UAT	10M	QPSK	1	0	Back	10mm	23230	782	24.45	24.50	1.012	0.11	0.262	0.265
	LTE Band 13_UAT	10M	QPSK	25	0	Back	10mm	23230	782	23.45	23.50	1.012	0.12	0.214	0.216
	LTE Band 13_UAT	10M	QPSK	1	0	Left Side	10mm	23230	782	24.45	24.50	1.012	0.01	0.145	0.147
	LTE Band 13_UAT	10M	QPSK	25	0	Left Side	10mm	23230	782	23.45	23.50	1.012	-0.08	0.122	0.123
	LTE Band 13_UAT	10M	QPSK	1	0	Right Side	10mm	23230	782	24.45	24.50	1.012	0.03	0.126	0.127
	LTE Band 13_UAT	10M	QPSK	25	0	Right Side	10mm	23230	782	23.45	23.50	1.012	-0.06	0.109	0.110
	LTE Band 13_UAT	10M	QPSK	1	0	Top Side	10mm	23230	782	24.45	24.50	1.012	-0.04	0.077	0.078
	LTE Band 13_UAT	10M	QPSK	25	0	Top Side	10mm	23230	782	23.45	23.50	1.012	-0.08	0.063	0.064
34	LTE Band 13_LAT	10M	QPSK	1	0	Front	10mm	23230	782	24.45	24.50	1.012	0.04	0.400	0.405
	LTE Band 13_LAT	10M	QPSK	25	0	Front	10mm	23230	782	23.45	23.50	1.012	-0.08	0.319	0.323
	LTE Band 13_LAT	10M	QPSK	1	0	Back	10mm	23230	782	24.45	24.50	1.012	-0.05	0.382	0.386
	LTE Band 13_LAT	10M	QPSK	25	0	Back	10mm	23230	782	23.45	23.50	1.012	-0.09	0.295	0.298
	LTE Band 13_LAT	10M	QPSK	1	0	Left Side	10mm	23230	782	24.45	24.50	1.012	0	0.339	0.343
	LTE Band 13_LAT	10M	QPSK	25	0	Left Side	10mm	23230	782	23.45	23.50	1.012	0.12	0.286	0.289
	LTE Band 13_LAT	10M	QPSK	1	0	Right Side	10mm	23230	782	24.45	24.50	1.012	0	0.345	0.349
	LTE Band 13_LAT	10M	QPSK	25	0	Right Side	10mm	23230	782	23.45	23.50	1.012	0.04	0.286	0.289
	LTE Band 13_LAT	10M	QPSK	1	0	Bottom Side	10mm	23230	782	24.45	24.50	1.012	0.09	0.073	0.074
	LTE Band 13_LAT	10M	QPSK	25	0	Bottom Side	10mm	23230	782	23.45	23.50	1.012	0.06	0.060	0.061



<FDD LTE B25>

WiFi off															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	26340	1880	19.55	20.50	1.245	0.06	0.430	0.535
	LTE Band 25_UAT	20M	QPSK	50	0	Front	10mm	26340	1880	19.63	20.50	1.222	0.07	0.418	0.511
	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	26340	1880	19.55	20.50	1.245	-0.05	0.465	0.579
	LTE Band 25_UAT	20M	QPSK	50	0	Back	10mm	26340	1880	19.63	20.50	1.222	0	0.449	0.549
	LTE Band 25_UAT	20M	QPSK	1	0	Left Side	10mm	26340	1880	19.55	20.50	1.245	0.07	0.261	0.325
	LTE Band 25_UAT	20M	QPSK	50	0	Left Side	10mm	26340	1880	19.63	20.50	1.222	0.11	0.260	0.318
	LTE Band 25_UAT	20M	QPSK	1	0	Right Side	10mm	26340	1880	19.55	20.50	1.245	0.03	0.013	0.016
	LTE Band 25_UAT	20M	QPSK	50	0	Right Side	10mm	26340	1880	19.63	20.50	1.222	-0.11	0.013	0.016
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26340	1880	19.55	20.50	1.245	-0.18	0.912	1.135
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26140	1860	19.40	20.50	1.288	-0.19	0.962	1.239
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26590	1905	19.54	20.50	1.247	-0.11	0.885	1.104
	LTE Band 25_UAT	20M	QPSK	50	0	Top Side	10mm	26340	1880	19.63	20.50	1.222	-0.14	0.894	1.092
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26140	1860	19.53	20.50	1.250	-0.13	0.953	1.191
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26590	1905	19.56	20.50	1.242	-0.12	0.839	1.042
	LTE Band 25_UAT	20M	QPSK	100	0	Top Side	10mm	26340	1880	19.58	20.50	1.236	-0.13	0.876	1.083
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	26340	1880	22.63	23.50	1.222	-0.01	0.814	0.995
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	26140	1860	22.49	23.50	1.262	-0.03	0.933	1.177
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	26590	1905	22.62	23.50	1.225	-0.04	0.876	1.073
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	26340	1880	22.44	23.00	1.138	0.16	0.812	0.924
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	26140	1860	22.27	23.00	1.183	0.1	0.791	0.936
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	26590	1905	22.43	23.00	1.140	0.05	0.781	0.891
	LTE Band 25_LAT	20M	QPSK	100	0	Front	10mm	26340	1880	22.49	23.00	1.125	0.18	0.782	0.879
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	26340	1880	22.63	23.50	1.222	-0.1	0.917	1.120
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	26140	1860	22.49	23.50	1.262	-0.01	0.913	1.152
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	26590	1905	22.62	23.50	1.225	-0.1	0.882	1.080
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	26340	1880	22.44	23.00	1.138	0.01	0.826	0.940
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	26140	1860	22.27	23.00	1.183	0.04	0.805	0.952
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	26590	1905	22.43	23.00	1.140	0.05	0.812	0.926
	LTE Band 25_LAT	20M	QPSK	100	0	Back	10mm	26340	1880	22.49	23.00	1.125	0.02	0.807	0.908
	LTE Band 25_LAT	20M	QPSK	1	0	Left Side	10mm	26340	1880	22.63	23.50	1.222	0.03	0.093	0.114
	LTE Band 25_LAT	20M	QPSK	50	0	Left Side	10mm	26340	1880	22.44	23.00	1.138	0.03	0.082	0.093
	LTE Band 25_LAT	20M	QPSK	1	0	Right Side	10mm	26340	1880	22.63	23.50	1.222	-0.03	0.183	0.224
	LTE Band 25_LAT	20M	QPSK	50	0	Right Side	10mm	26340	1880	22.44	23.00	1.138	0.01	0.193	0.220
	LTE Band 25_LAT	20M	QPSK	1	0	Bottom Side	10mm	26340	1880	22.63	23.50	1.222	-0.13	0.984	1.202
35	LTE Band 25_LAT	20M	QPSK	1	0	Bottom Side	10mm	26140	1860	22.49	23.50	1.262	-0.1	1.050	1.325
	LTE Band 25_LAT	20M	QPSK	1	0	Bottom Side	10mm	26590	1905	22.62	23.50	1.225	-0.01	1.080	1.323
	LTE Band 25_LAT	20M	QPSK	50	0	Bottom Side	10mm	26340	1880	22.44	23.00	1.138	-0.03	0.946	1.076
	LTE Band 25_LAT	20M	QPSK	50	0	Bottom Side	10mm	26140	1860	22.27	23.00	1.183	-0.11	1.000	1.183
	LTE Band 25_LAT	20M	QPSK	50	0	Bottom Side	10mm	26590	1905	22.43	23.00	1.140	-0.13	0.936	1.067
	LTE Band 25_LAT	20M	QPSK	100	0	Bottom Side	10mm	26340	1880	22.49	23.00	1.125	-0.12	0.921	1.036
WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	26340	1880	19.55	20.00	1.109	0.06	0.430	0.477
	LTE Band 25_UAT	20M	QPSK	50	0	Front	10mm	26340	1880	19.63	20.00	1.089	0.07	0.418	0.455
	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	26340	1880	19.55	20.00	1.109	-0.05	0.465	0.516
	LTE Band 25_UAT	20M	QPSK	50	0	Back	10mm	26340	1880	19.63	20.00	1.089	0	0.449	0.489
	LTE Band 25_UAT	20M	QPSK	1	0	Left Side	10mm	26340	1880	19.55	20.00	1.109	0.07	0.261	0.289
	LTE Band 25_UAT	20M	QPSK	50	0	Left Side	10mm	26340	1880	19.63	20.00	1.089	0.11	0.260	0.283
	LTE Band 25_UAT	20M	QPSK	1	0	Right Side	10mm	26340	1880	19.55	20.00	1.109	0.03	0.013	0.014



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	LTE Band 25_UAT	20M	QPSK	50	0	Right Side	10mm	26340	1880	19.63	20.00	1.089	-0.11	0.013	0.014
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26340	1880	19.55	20.00	1.109	-0.18	0.912	1.012
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26140	1860	19.40	20.00	1.148	-0.19	0.962	1.105
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26590	1905	19.54	20.00	1.112	-0.11	0.885	0.984
	LTE Band 25_UAT	20M	QPSK	50	0	Top Side	10mm	26340	1880	19.63	20.00	1.089	-0.14	0.894	0.974
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26140	1860	19.53	20.00	1.114	-0.13	0.953	1.062
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26590	1905	19.56	20.00	1.107	-0.12	0.839	0.928
	LTE Band 25_UAT	20M	QPSK	100	0	Top Side	10mm	26340	1880	19.58	20.00	1.102	-0.13	0.876	0.965
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	26340	1880	22.63	23.00	1.089	-0.01	0.814	0.886
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	26140	1860	22.49	23.00	1.125	-0.03	0.933	1.049
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	26590	1905	22.62	23.00	1.091	-0.04	0.876	0.956
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	26340	1880	22.44	23.00	1.138	0.16	0.812	0.924
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	26140	1860	22.27	23.00	1.183	0.1	0.791	0.936
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	26590	1905	22.43	23.00	1.140	0.05	0.781	0.891
	LTE Band 25_LAT	20M	QPSK	100	0	Front	10mm	26340	1880	22.49	23.00	1.125	0.18	0.782	0.879
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	26340	1880	22.63	23.00	1.089	-0.1	0.917	0.999
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	26140	1860	22.49	23.00	1.125	-0.01	0.913	1.027
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	26590	1905	22.62	23.00	1.091	-0.1	0.882	0.963
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	26340	1880	22.44	23.00	1.138	0.01	0.826	0.940
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	26140	1860	22.27	23.00	1.183	0.04	0.805	0.952
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	26590	1905	22.43	23.00	1.140	0.05	0.812	0.926
	LTE Band 25_LAT	20M	QPSK	100	0	Back	10mm	26340	1880	22.49	23.00	1.125	0.02	0.807	0.908
	LTE Band 25_LAT	20M	QPSK	1	0	Left Side	10mm	26340	1880	22.63	23.00	1.089	0.03	0.093	0.101
	LTE Band 25_LAT	20M	QPSK	50	0	Left Side	10mm	26340	1880	22.44	23.00	1.138	0.03	0.082	0.093
	LTE Band 25_LAT	20M	QPSK	1	0	Right Side	10mm	26340	1880	22.63	23.00	1.089	-0.03	0.183	0.199
	LTE Band 25_LAT	20M	QPSK	50	0	Right Side	10mm	26340	1880	22.44	23.00	1.138	0.01	0.193	0.220
	LTE Band 25_LAT	20M	QPSK	1	0	Bottom Side	10mm	26340	1880	22.63	23.00	1.089	-0.13	0.984	1.072
	LTE Band 25_LAT	20M	QPSK	1	0	Bottom Side	10mm	26140	1860	22.49	23.00	1.125	-0.1	1.050	1.181
	LTE Band 25_LAT	20M	QPSK	1	0	Bottom Side	10mm	26590	1905	22.62	23.00	1.091	-0.01	1.080	1.179
	LTE Band 25_LAT	20M	QPSK	50	0	Bottom Side	10mm	26340	1880	22.44	23.00	1.138	-0.03	0.946	1.076
	LTE Band 25_LAT	20M	QPSK	50	0	Bottom Side	10mm	26140	1860	22.27	23.00	1.183	-0.11	1.000	1.183
	LTE Band 25_LAT	20M	QPSK	50	0	Bottom Side	10mm	26590	1905	22.43	23.00	1.140	-0.13	0.936	1.067
	LTE Band 25_LAT	20M	QPSK	100	0	Bottom Side	10mm	26340	1880	22.49	23.00	1.125	-0.12	0.921	1.036

**<FDD LTE B26>**

WiFi off / WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 26_UAT	15M	QPSK	1	0	Front	10mm	26865	831.5	24.17	24.50	1.079	0.07	0.266	0.287
	LTE Band 26_UAT	15M	QPSK	36	0	Front	10mm	26865	831.5	22.88	23.50	1.153	0.1	0.200	0.231
	LTE Band 26_UAT	15M	QPSK	1	0	Back	10mm	26865	831.5	24.17	24.50	1.079	0.19	0.290	0.313
	LTE Band 26_UAT	15M	QPSK	36	0	Back	10mm	26865	831.5	22.88	23.50	1.153	-0.07	0.222	0.256
	LTE Band 26_UAT	15M	QPSK	1	0	Left Side	10mm	26865	831.5	24.17	24.50	1.079	0.04	0.127	0.137
	LTE Band 26_UAT	15M	QPSK	36	0	Left Side	10mm	26865	831.5	22.88	23.50	1.153	-0.14	0.092	0.106
	LTE Band 26_UAT	15M	QPSK	1	0	Right Side	10mm	26865	831.5	24.17	24.50	1.079	-0.01	0.193	0.208
	LTE Band 26_UAT	15M	QPSK	36	0	Right Side	10mm	26865	831.5	22.88	23.50	1.153	-0.02	0.142	0.164
	LTE Band 26_UAT	15M	QPSK	1	0	Top Side	10mm	26865	831.5	24.17	24.50	1.079	0.01	0.125	0.135
	LTE Band 26_UAT	15M	QPSK	36	0	Top Side	10mm	26865	831.5	22.88	23.50	1.153	-0.09	0.098	0.113
	LTE Band 26_LAT	15M	QPSK	1	0	Front	10mm	26865	831.5	24.17	24.50	1.079	0.03	0.409	0.441
	LTE Band 26_LAT	15M	QPSK	36	0	Front	10mm	26865	831.5	22.88	23.50	1.153	-0.11	0.306	0.353
	LTE Band 26_LAT	15M	QPSK	1	0	Back	10mm	26865	831.5	24.17	24.50	1.079	-0.02	0.386	0.416
	LTE Band 26_LAT	15M	QPSK	36	0	Back	10mm	26865	831.5	22.88	23.50	1.153	0.02	0.289	0.333
	LTE Band 26_LAT	15M	QPSK	1	0	Left Side	10mm	26865	831.5	24.17	24.50	1.079	-0.05	0.300	0.324
	LTE Band 26_LAT	15M	QPSK	36	0	Left Side	10mm	26865	831.5	22.88	23.50	1.153	0.08	0.241	0.278
36	LTE Band 26_LAT	15M	QPSK	1	0	Right Side	10mm	26865	831.5	24.17	24.50	1.079	-0.07	0.443	0.478
	LTE Band 26_LAT	15M	QPSK	36	0	Right Side	10mm	26865	831.5	22.88	23.50	1.153	-0.02	0.338	0.390
	LTE Band 26_LAT	15M	QPSK	1	0	Bottom Side	10mm	26865	831.5	24.17	24.50	1.079	0.1	0.103	0.111
	LTE Band 26_LAT	15M	QPSK	36	0	Bottom Side	10mm	26865	831.5	22.88	23.50	1.153	-0.11	0.076	0.088

<FDD LTE B30>

WiFi off / WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 30_UAT	10M	QPSK	1	0	Front	10mm	27710	2310	20.55	21.50	1.245	0.02	0.340	0.423
	LTE Band 30_UAT	10M	QPSK	25	0	Front	10mm	27710	2310	20.46	21.50	1.271	0.04	0.338	0.429
	LTE Band 30_UAT	10M	QPSK	1	0	Back	10mm	27710	2310	20.55	21.50	1.245	-0.02	0.325	0.404
	LTE Band 30_UAT	10M	QPSK	25	0	Back	10mm	27710	2310	20.46	21.50	1.271	0	0.329	0.418
	LTE Band 30_UAT	10M	QPSK	1	0	Left Side	10mm	27710	2310	20.55	21.50	1.245	0.12	0.202	0.251
	LTE Band 30_UAT	10M	QPSK	25	0	Left Side	10mm	27710	2310	20.46	21.50	1.271	0.1	0.209	0.266
	LTE Band 30_UAT	10M	QPSK	1	0	Right Side	10mm	27710	2310	20.55	21.50	1.245	0.06	0.064	0.080
	LTE Band 30_UAT	10M	QPSK	25	0	Right Side	10mm	27710	2310	20.46	21.50	1.271	0.02	0.063	0.080
	LTE Band 30_UAT	10M	QPSK	1	0	Top Side	10mm	27710	2310	20.55	21.50	1.245	0.08	0.943	1.174
	LTE Band 30_UAT	10M	QPSK	25	0	Top Side	10mm	27710	2310	20.46	21.50	1.271	0.07	0.932	1.184
37	LTE Band 30_UAT	10M	QPSK	50	0	Top Side	10mm	27710	2310	20.28	21.50	1.324	0.04	0.923	1.222
	LTE Band 30_LAT	10M	QPSK	1	0	Front	10mm	27710	2310	23.49	24.00	1.125	0.01	0.731	0.822
	LTE Band 30_LAT	10M	QPSK	25	0	Front	10mm	27710	2310	22.42	23.00	1.143	0.03	0.573	0.655
	LTE Band 30_LAT	10M	QPSK	50	0	Front	10mm	27710	2310	22.36	23.00	1.159	0.04	0.572	0.663
	LTE Band 30_LAT	10M	QPSK	1	0	Back	10mm	27710	2310	23.49	24.00	1.125	-0.01	0.667	0.750
	LTE Band 30_LAT	10M	QPSK	25	0	Back	10mm	27710	2310	22.42	23.00	1.143	0.05	0.522	0.597
	LTE Band 30_LAT	10M	QPSK	1	0	Left Side	10mm	27710	2310	23.49	24.00	1.125	0.16	0.084	0.094
	LTE Band 30_LAT	10M	QPSK	25	0	Left Side	10mm	27710	2310	22.42	23.00	1.143	0.06	0.065	0.074
	LTE Band 30_LAT	10M	QPSK	1	0	Right Side	10mm	27710	2310	23.49	24.00	1.125	0.08	0.242	0.272
	LTE Band 30_LAT	10M	QPSK	25	0	Right Side	10mm	27710	2310	22.42	23.00	1.143	0.03	0.191	0.218
	LTE Band 30_LAT	10M	QPSK	1	0	Bottom Side	10mm	27710	2310	23.49	24.00	1.125	0.05	0.783	0.881
	LTE Band 30_LAT	10M	QPSK	25	0	Bottom Side	10mm	27710	2310	22.42	23.00	1.143	0.17	0.618	0.706
	LTE Band 30_LAT	10M	QPSK	50	0	Bottom Side	10mm	27710	2310	22.36	23.00	1.159	0.16	0.630	0.730



<FDD LTE B66>

WiFi off															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_UAT	20M	QPSK	1	0	Front	10mm	132322	1745	20.49	21.50	1.262	0.06	0.550	0.694
	LTE Band 66_UAT	20M	QPSK	50	0	Front	10mm	132322	1745	20.44	21.50	1.276	0.05	0.562	0.717
	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	132322	1745	20.49	21.50	1.262	0.04	0.594	0.750
	LTE Band 66_UAT	20M	QPSK	50	0	Back	10mm	132322	1745	20.44	21.50	1.276	0.02	0.593	0.757
	LTE Band 66_UAT	20M	QPSK	1	0	Left Side	10mm	132322	1745	20.49	21.50	1.262	0.12	0.285	0.360
	LTE Band 66_UAT	20M	QPSK	50	0	Left Side	10mm	132322	1745	20.44	21.50	1.276	0.1	0.286	0.365
	LTE Band 66_UAT	20M	QPSK	1	0	Right Side	10mm	132322	1745	20.49	21.50	1.262	0.04	0.022	0.028
	LTE Band 66_UAT	20M	QPSK	50	0	Right Side	10mm	132322	1745	20.44	21.50	1.276	0.04	0.022	0.028
	LTE Band 66_UAT	20M	QPSK	1	0	Top Side	10mm	132322	1745	20.49	21.50	1.262	0.12	0.957	1.208
	LTE Band 66_UAT	20M	QPSK	1	0	Top Side	10mm	132072	1720	20.44	21.50	1.276	0.09	0.929	1.186
38	LTE Band 66_UAT	20M	QPSK	1	0	Top Side	10mm	132572	1770	20.38	21.50	1.294	0.09	1.020	1.320
	LTE Band 66_UAT	20M	QPSK	50	0	Top Side	10mm	132322	1745	20.44	21.50	1.276	0.07	0.966	1.233
	LTE Band 66_UAT	20M	QPSK	50	0	Top Side	10mm	132072	1720	20.38	21.50	1.294	0.07	0.920	1.191
	LTE Band 66_UAT	20M	QPSK	50	0	Top Side	10mm	132572	1770	20.43	21.50	1.279	0.11	1.030	1.318
	LTE Band 66_UAT	20M	QPSK	100	0	Top Side	10mm	132322	1745	20.29	21.50	1.321	0.11	0.959	1.267
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	132322	1745	22.92	23.50	1.143	-0.02	0.878	1.003
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	132072	1720	22.80	23.50	1.175	-0.02	0.912	1.072
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	132572	1770	22.89	23.50	1.151	-0.01	0.839	0.966
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	132322	1745	22.61	23.00	1.094	-0.02	0.821	0.898
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	132072	1720	22.60	23.00	1.096	-0.03	0.893	0.979
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	132572	1770	22.40	23.00	1.148	-0.02	0.805	0.924
	LTE Band 66_LAT	20M	QPSK	100	0	Front	10mm	132322	1745	22.50	23.00	1.122	-0.03	0.805	0.903
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132322	1745	22.92	23.50	1.143	-0.02	0.896	1.024
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132072	1720	22.80	23.50	1.175	0.01	0.918	1.079
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132572	1770	22.89	23.50	1.151	0.02	0.883	1.016
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132322	1745	22.61	23.00	1.094	0.03	0.838	0.917
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132072	1720	22.60	23.00	1.096	0.04	0.864	0.947
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132572	1770	22.40	23.00	1.148	0	0.829	0.952
	LTE Band 66_LAT	20M	QPSK	100	0	Back	10mm	132322	1745	22.50	23.00	1.122	0.03	0.820	0.920
	LTE Band 66_LAT	20M	QPSK	1	0	Left Side	10mm	132322	1745	22.92	23.50	1.143	0.02	0.097	0.111
	LTE Band 66_LAT	20M	QPSK	50	0	Left Side	10mm	132322	1745	22.61	23.00	1.094	0	0.090	0.098
	LTE Band 66_LAT	20M	QPSK	1	0	Right Side	10mm	132322	1745	22.92	23.50	1.143	-0.02	0.175	0.200
	LTE Band 66_LAT	20M	QPSK	50	0	Right Side	10mm	132322	1745	22.61	23.00	1.094	0.02	0.163	0.178
	LTE Band 66_LAT	20M	QPSK	1	0	Bottom Side	10mm	132322	1745	22.92	23.50	1.143	0.04	0.995	1.137
	LTE Band 66_LAT	20M	QPSK	1	0	Bottom Side	10mm	132072	1720	22.80	23.50	1.175	0.07	1.060	1.245
	LTE Band 66_LAT	20M	QPSK	1	0	Bottom Side	10mm	132572	1770	22.89	23.50	1.151	0.07	0.905	1.041
	LTE Band 66_LAT	20M	QPSK	50	0	Bottom Side	10mm	132322	1745	22.61	23.00	1.094	0.08	0.922	1.009
	LTE Band 66_LAT	20M	QPSK	50	0	Bottom Side	10mm	132072	1720	22.60	23.00	1.096	0.14	1.010	1.107
	LTE Band 66_LAT	20M	QPSK	50	0	Bottom Side	10mm	132572	1770	22.40	23.00	1.148	0.03	0.858	0.985
	LTE Band 66_LAT	20M	QPSK	100	0	Bottom Side	10mm	132322	1745	22.50	23.00	1.122	0.03	0.892	1.001
WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_UAT	20M	QPSK	1	0	Front	10mm	132322	1745	20.49	20.50	1.002	0.06	0.550	0.551
	LTE Band 66_UAT	20M	QPSK	50	0	Front	10mm	132322	1745	20.44	20.50	1.014	0.05	0.562	0.570
	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	132322	1745	20.49	20.50	1.002	0.04	0.594	0.595
	LTE Band 66_UAT	20M	QPSK	50	0	Back	10mm	132322	1745	20.44	20.50	1.014	0.02	0.593	0.601
	LTE Band 66_UAT	20M	QPSK	1	0	Left Side	10mm	132322	1745	20.49	20.50	1.002	0.12	0.285	0.286
	LTE Band 66_UAT	20M	QPSK	50	0	Left Side	10mm	132322	1745	20.44	20.50	1.014	0.1	0.286	0.290
	LTE Band 66_UAT	20M	QPSK	1	0	Right Side	10mm	132322	1745	20.49	20.50	1.002	0.04	0.022	0.022



FCC SAR TEST REPORT

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	LTE Band 66_UAT	20M	QPSK	50	0	Right Side	10mm	132322	1745	20.44	20.50	1.014	0.04	0.022	0.022
	LTE Band 66_UAT	20M	QPSK	1	0	Top Side	10mm	132322	1745	20.49	20.50	1.002	0.12	0.957	0.959
	LTE Band 66_UAT	20M	QPSK	1	0	Top Side	10mm	132072	1720	20.44	20.50	1.014	0.09	0.929	0.942
38	LTE Band 66_UAT	20M	QPSK	1	0	Top Side	10mm	132572	1770	20.38	20.50	1.028	0.09	1.020	1.049
	LTE Band 66_UAT	20M	QPSK	50	0	Top Side	10mm	132322	1745	20.44	20.50	1.014	0.07	0.966	0.979
	LTE Band 66_UAT	20M	QPSK	50	0	Top Side	10mm	132072	1720	20.38	20.50	1.028	0.07	0.920	0.946
	LTE Band 66_UAT	20M	QPSK	50	0	Top Side	10mm	132572	1770	20.43	20.50	1.016	0.11	1.030	1.047
	LTE Band 66_UAT	20M	QPSK	100	0	Top Side	10mm	132322	1745	20.29	20.50	1.050	0.11	0.959	1.007
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	132322	1745	22.92	23.00	1.019	-0.02	0.878	0.894
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	132072	1720	22.80	23.00	1.047	-0.02	0.912	0.955
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	132572	1770	22.89	23.00	1.026	-0.01	0.839	0.861
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	132322	1745	22.61	23.00	1.094	-0.02	0.821	0.898
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	132072	1720	22.60	23.00	1.096	-0.03	0.893	0.979
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	132572	1770	22.40	23.00	1.148	-0.02	0.805	0.924
	LTE Band 66_LAT	20M	QPSK	100	0	Front	10mm	132322	1745	22.50	23.00	1.122	-0.03	0.805	0.903
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132322	1745	22.92	23.00	1.019	-0.02	0.896	0.913
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132072	1720	22.80	23.00	1.047	0.01	0.918	0.961
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132572	1770	22.89	23.00	1.026	0.02	0.883	0.906
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132322	1745	22.61	23.00	1.094	0.03	0.838	0.917
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132072	1720	22.60	23.00	1.096	0.04	0.864	0.947
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132572	1770	22.40	23.00	1.148	0	0.829	0.952
	LTE Band 66_LAT	20M	QPSK	100	0	Back	10mm	132322	1745	22.50	23.00	1.122	0.03	0.820	0.920
	LTE Band 66_LAT	20M	QPSK	1	0	Left Side	10mm	132322	1745	22.92	23.00	1.019	0.02	0.097	0.099
	LTE Band 66_LAT	20M	QPSK	50	0	Left Side	10mm	132322	1745	22.61	23.00	1.094	0	0.090	0.098
	LTE Band 66_LAT	20M	QPSK	1	0	Right Side	10mm	132322	1745	22.92	23.00	1.019	-0.02	0.175	0.178
	LTE Band 66_LAT	20M	QPSK	50	0	Right Side	10mm	132322	1745	22.61	23.00	1.094	0.02	0.163	0.178
	LTE Band 66_LAT	20M	QPSK	1	0	Bottom Side	10mm	132322	1745	22.92	23.00	1.019	0.04	0.995	1.013
	LTE Band 66_LAT	20M	QPSK	1	0	Bottom Side	10mm	132072	1720	22.80	23.00	1.047	0.07	1.060	1.110
	LTE Band 66_LAT	20M	QPSK	1	0	Bottom Side	10mm	132572	1770	22.89	23.00	1.026	0.07	0.905	0.928
	LTE Band 66_LAT	20M	QPSK	50	0	Bottom Side	10mm	132322	1745	22.61	23.00	1.094	0.08	0.922	1.009
	LTE Band 66_LAT	20M	QPSK	50	0	Bottom Side	10mm	132072	1720	22.60	23.00	1.096	0.14	1.010	1.107
	LTE Band 66_LAT	20M	QPSK	50	0	Bottom Side	10mm	132572	1770	22.40	23.00	1.148	0.03	0.858	0.985
	LTE Band 66_LAT	20M	QPSK	100	0	Bottom Side	10mm	132322	1745	22.50	23.00	1.122	0.03	0.892	1.001



<FDD LTE B71>

WiFi off / WiFi on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71_UAT	20M	QPSK	1	0	Front	10mm	133322	683	24.05	24.50	1.109	0.09	0.184	0.204
	LTE Band 71_UAT	20M	QPSK	50	0	Front	10mm	133322	683	22.57	23.50	1.239	0	0.156	0.193
	LTE Band 71_UAT	20M	QPSK	1	0	Back	10mm	133322	683	24.05	24.50	1.109	-0.11	0.201	0.223
	LTE Band 71_UAT	20M	QPSK	50	0	Back	10mm	133322	683	22.57	23.50	1.239	-0.07	0.178	0.221
	LTE Band 71_UAT	20M	QPSK	1	0	Left Side	10mm	133322	683	24.05	24.50	1.109	0.18	0.092	0.102
	LTE Band 71_UAT	20M	QPSK	50	0	Left Side	10mm	133322	683	22.57	23.50	1.239	0.04	0.076	0.094
	LTE Band 71_UAT	20M	QPSK	1	0	Right Side	10mm	133322	683	24.05	24.50	1.109	0.12	0.054	0.060
	LTE Band 71_UAT	20M	QPSK	50	0	Right Side	10mm	133322	683	22.57	23.50	1.239	0.07	0.040	0.050
	LTE Band 71_UAT	20M	QPSK	1	0	Top Side	10mm	133322	683	24.05	24.50	1.109	0.07	0.075	0.083
	LTE Band 71_UAT	20M	QPSK	50	0	Top Side	10mm	133322	683	22.57	23.50	1.239	0	0.062	0.077
	LTE Band 71_LAT	20M	QPSK	1	0	Front	10mm	133322	683	24.05	24.50	1.109	0.13	0.512	0.568
	LTE Band 71_LAT	20M	QPSK	50	0	Front	10mm	133322	683	22.57	23.50	1.239	-0.03	0.343	0.425
39	LTE Band 71_LAT	20M	QPSK	1	0	Back	10mm	133322	683	24.05	24.50	1.109	-0.07	0.518	0.575
	LTE Band 71_LAT	20M	QPSK	50	0	Back	10mm	133322	683	22.57	23.50	1.239	0.02	0.343	0.425
	LTE Band 71_LAT	20M	QPSK	1	0	Left Side	10mm	133322	683	24.05	24.50	1.109	0.04	0.380	0.421
	LTE Band 71_LAT	20M	QPSK	50	0	Left Side	10mm	133322	683	22.57	23.50	1.239	0.01	0.242	0.300
	LTE Band 71_LAT	20M	QPSK	1	0	Right Side	10mm	133322	683	24.05	24.50	1.109	0.02	0.321	0.356
	LTE Band 71_LAT	20M	QPSK	50	0	Right Side	10mm	133322	683	22.57	23.50	1.239	-0.18	0.200	0.248
	LTE Band 71_LAT	20M	QPSK	1	0	Bottom Side	10mm	133322	683	24.05	24.50	1.109	0.04	0.111	0.123
	LTE Band 71_LAT	20M	QPSK	50	0	Bottom Side	10mm	133322	683	22.57	23.50	1.239	0.03	0.074	0.092

<TDD LTE B41>

WiFi off / WiFi on																		
Note	Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		LTE Band 41_UAT	20M	QPSK	1	0	Front	10mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	0.11	0.346	0.391
		LTE Band 41_UAT	20M	QPSK	50	0	Front	10mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	0.19	0.276	0.312
		LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	0.1	0.395	0.446
		LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	39750	2506	24.60	25.20	1.148	62.9	1.006	0.08	0.478	0.552
		LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	40620	2593	24.60	25.20	1.148	62.9	1.006	0.18	0.433	0.500
	40	LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	41055	2636.5	24.59	25.20	1.151	62.9	1.006	-0.1	0.480	0.556
		LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	41490	2680	24.52	25.20	1.169	62.9	1.006	-0.1	0.333	0.392
		LTE Band 41_UAT	20M	QPSK	50	0	Back	10mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	0.07	0.383	0.433
		LTE Band 41_UAT	20M	QPSK	1	0	Left Side	10mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	-0.1	0.392	0.442
		LTE Band 41_UAT	20M	QPSK	50	0	Left Side	10mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	-0.08	0.325	0.368
		LTE Band 41_UAT	20M	QPSK	1	0	Right Side	10mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	-0.16	0.140	0.158
		LTE Band 41_UAT	20M	QPSK	50	0	Right Side	10mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	-0.06	0.123	0.139
		LTE Band 41_UAT	20M	QPSK	1	0	Top Side	10mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	-0.18	0.313	0.353
		LTE Band 41_UAT	20M	QPSK	50	0	Top Side	10mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	-0.04	0.227	0.257
HPUE		LTE Band 41_UAT	20M	QPSK	1	49	Back	10mm	41055	2636.5	25.70	27.00	1.349	42.9	1.009	-0.04	0.398	0.542
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	0.11	0.393	0.444
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	39750	2506	24.60	25.20	1.148	62.9	1.006	0.08	0.339	0.392
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	40620	2593	24.60	25.20	1.148	62.9	1.006	0.01	0.438	0.506
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	41055	2636.5	24.59	25.20	1.151	62.9	1.006	0.12	0.366	0.424
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	41490	2680	24.52	25.20	1.169	62.9	1.006	0.04	0.244	0.287
		LTE Band 41_LAT	20M	QPSK	50	0	Front	10mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	-0.11	0.271	0.307
		LTE Band 41_LAT	20M	QPSK	1	0	Back	10mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	-0.01	0.305	0.344
		LTE Band 41_LAT	20M	QPSK	50	0	Back	10mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	-0.01	0.248	0.281
		LTE Band 41_LAT	20M	QPSK	1	0	Left Side	10mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	-0.16	0.032	0.036
		LTE Band 41_LAT	20M	QPSK	50	0	Left Side	10mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	-0.15	0.027	0.031
		LTE Band 41_LAT	20M	QPSK	1	0	Right Side	10mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	-0.01	0.068	0.077
		LTE Band 41_LAT	20M	QPSK	50	0	Right Side	10mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	0.05	0.101	0.114
		LTE Band 41_LAT	20M	QPSK	1	0	Bottom Side	10mm	40185	2549.5	24.70	25.20	1.122	62.9	1.006	0.04	0.106	0.120
		LTE Band 41_LAT	20M	QPSK	50	0	Bottom Side	10mm	40185	2549.5	23.69	24.20	1.125	62.9	1.006	-0.03	0.087	0.098
HPUE		LTE Band 41_LAT	20M	QPSK	1	49	Front	10mm	40620	2593	25.64	27.00	1.368	42.9	1.009	0.08	0.352	0.486



<2.4GHz WLAN SAR>

WWAN off																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	1	2412	19.59	20.00	1.099	100.00	1.000	-0.04	0.369	0.406	
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	1	2412	19.59	20.00	1.099	100.00	1.000	-0.04	0.421	0.463	
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4	1	2412	19.59	20.00	1.099	100.00	1.000	-0.09	0.097	0.107	
41	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	1	2412	19.59	20.00	1.099	100.00	1.000	0.02	0.618	0.679	
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	6	2437	18.00	18.50	1.122	100.00	1.000	-0.09	0.403	0.452	
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	11	2462	13.83	14.50	1.167	100.00	1.000	-0.07	0.448	0.523	
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 5	1	2412	20.00	20.00	1.000	100.00	1.000	-0.04	0.109	0.109	
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	1	2412	20.00	20.00	1.000	100.00	1.000	0.1	0.213	0.213	
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 5	1	2412	20.00	20.00	1.000	100.00	1.000	0.05	0.044	0.044	
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 5	1	2412	20.00	20.00	1.000	100.00	1.000	0.14	0.032	0.032	
WWAN on																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	1	2412	14.33	14.50	1.040	100	1.000	0.11	0.092	0.096	
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	1	2412	14.33	14.50	1.040	100	1.000	-0.03	0.124	0.129	
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4	1	2412	14.33	14.50	1.040	100	1.000	0.04	0.021	0.022	
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	1	2412	14.33	14.50	1.040	100	1.000	-0.04	0.145	0.151	
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 5	1	2412	20.00	20.00	1.000	100	1.000	-0.12	0.105	0.105	
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	1	2412	20.00	20.00	1.000	100	1.000	-0.14	0.167	0.167	
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 5	1	2412	20.00	20.00	1.000	100	1.000	-0.1	0.041	0.041	
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 5	1	2412	20.00	20.00	1.000	100	1.000	-0.11	0.024	0.024	
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4+5	Ant 4	1	2412	18.50	18.50	1.000	100	1.000	0.04	0.338	0.338
					Ant 5	18.94			20.00	1.276	100	1.000	1.042	0.149	0.190	
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4+5	Ant 4	1	2412	18.50	18.50	1.000	100	1.000	0.03	0.375	0.375
					Ant 5	18.94			20.00	1.276	100	1.000	1.042	0.204	0.260	
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4+5	Ant 4	1	2412	18.50	18.50	1.000	100	1.000	0.15	0.082	0.082
					Ant 5	18.94			20.00	1.276	100	1.000	1.042	0.088	0.112	
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4+5	Ant 4	1	2412	18.50	18.50	1.000	100	1.000	-0.17	0.396	0.396
					Ant 5	18.94			20.00	1.276	100	1.000	1.042	0.001	0.001	



<5.2GHz WLAN SAR>

WWAN off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
42	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 6	46	5230	18.11	18.50	1.093	95.88	1.043	0.08	0.206	0.235
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6	46	5230	18.11	18.50	1.093	95.88	1.043	-0.11	0.317	0.361
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6	38	5190	14.29	14.50	1.049	95.88	1.043	-0.11	0.161	0.176
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6	46	5230	18.11	18.50	1.093	95.88	1.043	0.12	0.102	0.116
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 6	46	5230	18.11	18.50	1.093	95.88	1.043	-0.17	0.312	0.356
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	46	5230	17.81	18.50	1.171	95.88	1.043	-0.13	0.220	0.269
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	46	5230	17.81	18.50	1.171	95.88	1.043	0.14	0.101	0.123
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 5	46	5230	17.81	18.50	1.171	95.88	1.043	0.13	0.166	0.203
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 5	46	5230	17.81	18.50	1.171	95.88	1.043	-0.07	0.011	0.013
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	46	5230	16.90	17.00	1.023	95.88	1.043	-0.11	0.177	0.189
WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 6	46	5230	18.11	18.50	1.093	95.88	1.043	0.08	0.206	0.235
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6	46	5230	18.11	18.50	1.093	95.88	1.043	-0.11	0.304	0.347
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6	46	5230	18.11	18.50	1.093	95.88	1.043	0.12	0.102	0.116
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 6	46	5230	18.11	18.50	1.093	95.88	1.043	-0.17	0.312	0.356
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	46	5230	16.90	17.00	1.023	95.88	1.043	-0.11	0.177	0.189
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	46	5230	16.90	17.00	1.023	95.88	1.043	-0.15	0.091	0.097
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 5	46	5230	16.90	17.00	1.023	95.88	1.043	-0.11	0.134	0.143
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 5	46	5230	16.90	17.00	1.023	95.88	1.043	0.1	0.010	0.011
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 6+5	46	5230	17.33	17.50	1.040	95.96	1.042	-0.02	0.301	0.326
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6+5	46	5230	17.80	18.00	1.047	95.96	1.042	0.02	0.324	0.351
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6	46	5230	17.33	17.50	1.040	95.96	1.042	0.08	0.223	0.242
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 6	46	5230	17.33	17.50	1.040	95.96	1.042	-0.02	0.329	0.357
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	46	5230	17.80	18.00	1.047	95.96	1.042	0.02	0.328	0.358
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	46	5230	17.80	18.00	1.047	95.96	1.042	0.02	0.256	0.279



<5.8GHz WLAN SAR>

WWAN off																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 6	151	5755	17.22	18.50	1.342	95.88	1.043	-0.09	0.222	0.310	
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6	151	5755	17.22	18.50	1.342	95.88	1.043	-0.03	0.154	0.215	
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6	151	5755	17.22	18.50	1.342	95.88	1.043	0.13	0.066	0.092	
43	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 6	151	5755	17.22	18.50	1.342	95.88	1.043	-0.09	0.327	0.458	
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	151	5755	17.71	18.50	1.199	95.88	1.043	-0.03	0.165	0.206	
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	151	5755	17.71	18.50	1.199	95.88	1.043	0.08	0.163	0.204	
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 5	151	5755	17.71	18.50	1.199	95.88	1.043	-0.1	0.113	0.141	
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 5	151	5755	17.71	18.50	1.199	95.88	1.043	0.04	0.041	0.051	
WWAN on																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6	155	5775	16.71	18.00	1.347	95.56	1.046	-0.16	0.251	0.354	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6	155	5775	16.71	18.00	1.347	95.56	1.046	-0.13	0.173	0.244	
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6	155	5775	16.71	18.00	1.347	95.56	1.046	0.13	0.076	0.107	
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6	155	5775	16.71	18.00	1.347	95.56	1.046	-0.09	0.267	0.376	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5	155	5775	17.21	18.00	1.200	95.51	1.047	-0.11	0.170	0.214	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	155	5775	17.21	18.00	1.200	95.51	1.047	0.18	0.174	0.219	
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 5	155	5775	17.21	18.00	1.200	95.51	1.047	-0.1	0.128	0.161	
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 5	155	5775	17.21	18.00	1.200	95.51	1.047	0.14	0.047	0.059	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+5	Ant 6	151	5755	15.28	15.50	1.052	95.56	1.046	-0.03	0.224	0.246
					Ant 5	Ant 5	151	5755	15.82	16.00	1.042	95.56	1.046	1.042	0.150	0.164
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+5	Ant 6	151	5755	15.28	15.50	1.052	95.56	1.046	-0.02	0.184	0.202
					Ant 5	Ant 5	151	5755	15.82	16.00	1.042	95.56	1.046	1.042	0.172	0.188
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+5	Ant 6	151	5755	15.28	15.50	1.052	95.56	1.046	0.04	0.145	0.160
					Ant 5	Ant 5	151	5755	15.82	16.00	1.042	95.56	1.046	1.042	0.152	0.166
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+5	Ant 6	151	5755	15.28	15.50	1.052	95.56	1.046	0.15	0.341	0.375
					Ant 5	Ant 5	151	5755	15.82	16.00	1.042	95.56	1.046	1.042	0.221	0.241

<Bluetooth SAR>

WWAN off and WIFI off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	10mm	Ant 4	39	2441	15.11	15.50	1.094	76.60	1.087	-0.12	0.085	0.101
	Bluetooth	1Mbps	Back	10mm	Ant 4	39	2441	15.11	15.50	1.094	76.60	1.087	0	0.094	0.112
	Bluetooth	1Mbps	Right Side	10mm	Ant 4	39	2441	15.11	15.50	1.094	76.60	1.087	0.11	0.014	0.017
	Bluetooth	1Mbps	Top Side	10mm	Ant 4	39	2441	15.11	15.50	1.094	76.60	1.087	-0.13	0.162	0.193
44	Bluetooth	1Mbps	Top Side	10mm	Ant 4	0	2402	14.55	15.50	1.245	76.60	1.087	-0.18	0.164	0.222
	Bluetooth	1Mbps	Top Side	10mm	Ant 4	78	2480	14.43	15.50	1.279	76.60	1.087	-0.13	0.130	0.181
WWAN on or WIFI on, WWAN on and WIFI on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	10mm	Ant 4	78	2480	9.88	10.00	1.028	76.60	1.087	-0.02	0.025	0.028
	Bluetooth	1Mbps	Back	10mm	Ant 4	78	2480	9.88	10.00	1.028	76.60	1.087	-0.02	0.034	0.038
	Bluetooth	1Mbps	Right Side	10mm	Ant 4	78	2480	9.88	10.00	1.028	76.60	1.087	-0.15	0.006	0.007
	Bluetooth	1Mbps	Top Side	10mm	Ant 4	78	2480	9.88	10.00	1.028	76.60	1.087	-0.07	0.040	0.045

13.3 Body Worn Accessory SAR

<GSM850>

WiFi off / WiFi on													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_UAT	GPRS (4 Tx slots)	Front	10mm	-	189	836.4	27.05	28.00	1.245	-0.11	0.129	0.161
	GSM850_UAT	GPRS (4 Tx slots)	Front	10mm	-	128	824.2	27.03	28.00	1.250	0.18	0.113	0.141
	GSM850_UAT	GPRS (4 Tx slots)	Front	10mm	-	251	848.8	27.00	28.00	1.259	0.15	0.133	0.167
	GSM850_UAT	GPRS (4 Tx slots)	Back	10mm	-	189	836.4	27.05	28.00	1.245	0.09	0.124	0.154
	GSM850_LAT	GPRS (4 Tx slots)	Front	10mm	-	189	836.4	27.05	28.00	1.245	-0.08	0.211	0.263
	GSM850_LAT	GPRS (4 Tx slots)	Back	10mm	-	189	836.4	27.05	28.00	1.245	0	0.212	0.264
45	GSM850_LAT	GPRS (4 Tx slots)	Back	10mm	-	128	824.2	27.03	28.00	1.250	0	0.212	0.265
	GSM850_LAT	GPRS (4 Tx slots)	Back	10mm	-	251	848.8	27.00	28.00	1.259	0.04	0.203	0.256

<GSM1900>

WiFi off / WiFi on													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900_UAT	GPRS (4 Tx slots)	Front	10mm	-	512	1850.2	24.83	25.50	1.167	0.17	0.451	0.526
	GSM1900_UAT	GPRS (4 Tx slots)	Back	10mm	-	512	1850.2	24.83	25.50	1.167	-0.01	0.473	0.552
	GSM1900_UAT	GPRS (4 Tx slots)	Back	10mm	-	661	1880	24.53	25.50	1.250	-0.06	0.385	0.481
	GSM1900_UAT	GPRS (4 Tx slots)	Back	10mm	-	810	1909.8	24.50	25.50	1.259	-0.07	0.380	0.478
	GSM1900_LAT	GPRS (4 Tx slots)	Front	10mm	-	512	1850.2	24.83	25.50	1.167	-0.03	0.533	0.622
46	GSM1900_LAT	GPRS (4 Tx slots)	Back	10mm	-	512	1850.2	24.83	25.50	1.167	-0.07	0.545	0.636
	GSM1900_LAT	GPRS (4 Tx slots)	Back	10mm	-	661	1880	24.53	25.50	1.250	-0.05	0.479	0.599
	GSM1900_LAT	GPRS (4 Tx slots)	Back	10mm	-	810	1909.8	24.50	25.50	1.259	-0.05	0.441	0.555

<WCDMA II>

WiFi off / WiFi on													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_UAT	RMC 12.2Kbps	Front	10mm	-	9400	1880	23.54	24.00	1.112	-0.06	0.879	0.977
	WCDMA II_UAT	RMC 12.2Kbps	Front	10mm	-	9262	1852.4	23.29	24.00	1.178	-0.05	0.914	1.076
	WCDMA II_UAT	RMC 12.2Kbps	Front	10mm	-	9538	1907.6	23.02	24.00	1.253	0.09	0.615	0.771
	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	-	9400	1880	23.54	24.00	1.112	-0.1	0.960	1.067
47	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	-	9262	1852.4	23.29	24.00	1.178	-0.08	0.987	1.162
	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	-	9538	1907.6	23.02	24.00	1.253	-0.01	0.506	0.634
	WCDMA II_LAT	RMC 12.2Kbps	Front	10mm	-	9400	1880	23.54	24.00	1.112	-0.05	0.934	1.038
	WCDMA II_LAT	RMC 12.2Kbps	Front	10mm	-	9262	1852.4	23.29	24.00	1.178	-0.08	0.928	1.093
	WCDMA II_LAT	RMC 12.2Kbps	Front	10mm	-	9538	1907.6	23.02	24.00	1.253	0.08	0.719	0.901
	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	-	9400	1880	23.54	24.00	1.112	-0.17	0.930	1.034
	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	-	9262	1852.4	23.29	24.00	1.178	-0.15	0.899	1.059
	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	-	9538	1907.6	23.02	24.00	1.253	-0.17	0.758	0.950

<WCDMA IV>

WiFi off													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_UAT	RMC 12.2Kbps	Front	10mm	-	1413	1732.6	23.50	24.00	1.122	-0.07	0.992	1.113
	WCDMA IV_UAT	RMC 12.2Kbps	Front	10mm	-	1312	1712.4	23.47	24.00	1.130	0.1	0.908	1.026
	WCDMA IV_UAT	RMC 12.2Kbps	Front	10mm	-	1513	1752.6	23.49	24.00	1.125	-0.07	1.110	1.248
	WCDMA IV_UAT	RMC 12.2Kbps	Front	10mm	Headset	1513	1752.6	23.49	24.00	1.125	0.01	1.070	1.203
	WCDMA IV_UAT	RMC 12.2Kbps	Back	10mm	-	1413	1732.6	23.50	24.00	1.122	-0.12	1.000	1.122
	WCDMA IV_UAT	RMC 12.2Kbps	Back	10mm	-	1312	1712.4	23.47	24.00	1.130	0.01	0.908	1.026
48	WCDMA IV_UAT	RMC 12.2Kbps	Back	10mm	-	1513	1752.6	23.49	24.00	1.125	-0.09	1.130	1.271
	WCDMA IV_UAT	RMC 12.2Kbps	Back	10mm	Headset	1513	1752.6	23.49	24.00	1.125	-0.13	1.080	1.215
WiFi on													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_UAT	RMC 12.2Kbps	Front	10mm	-	1413	1732.6	23.50	23.50	1.000	-0.07	0.992	0.992
	WCDMA IV_UAT	RMC 12.2Kbps	Front	10mm	-	1312	1712.4	23.47	23.50	1.007	0.1	0.908	0.914
	WCDMA IV_UAT	RMC 12.2Kbps	Front	10mm	-	1513	1752.6	23.49	23.50	1.002	-0.07	1.110	1.113
	WCDMA IV_UAT	RMC 12.2Kbps	Back	10mm	-	1413	1732.6	23.50	23.50	1.000	-0.12	1.000	1.000
	WCDMA IV_UAT	RMC 12.2Kbps	Back	10mm	-	1312	1712.4	23.47	23.50	1.007	0.01	0.908	0.914
	WCDMA IV_UAT	RMC 12.2Kbps	Back	10mm	-	1513	1752.6	23.49	23.50	1.002	-0.09	1.130	1.133
WiFi off / WiFi on													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	-	1413	1732.6	23.50	23.50	1.000	-0.04	1.060	1.060
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	-	1312	1712.4	23.47	23.50	1.007	-0.13	1.060	1.067
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	-	1513	1752.6	23.49	23.50	1.002	-0.06	1.050	1.052
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	-	1413	1732.6	23.50	23.50	1.000	-0.13	1.050	1.050
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	-	1312	1712.4	23.47	23.50	1.007	-0.13	1.040	1.047
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	-	1513	1752.6	23.49	23.50	1.002	-0.06	1.050	1.052

<WCDMA V>

WiFi off / WiFi on													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V_UAT	RMC 12.2Kbps	Front	10mm	-	4182	836.4	24.00	24.50	1.122	0.01	0.277	0.311
	WCDMA V_UAT	RMC 12.2Kbps	Back	10mm	-	4182	836.4	24.00	24.50	1.122	-0.04	0.296	0.332
	WCDMA V_UAT	RMC 12.2Kbps	Back	10mm	-	4132	826.4	23.90	24.50	1.148	-0.04	0.285	0.327
	WCDMA V_UAT	RMC 12.2Kbps	Back	10mm	-	4233	846.6	23.98	24.50	1.127	-0.04	0.240	0.271
	WCDMA V_LAT	RMC 12.2Kbps	Front	10mm	-	4182	836.4	24.00	24.50	1.122	-0.03	0.433	0.486
49	WCDMA V_LAT	RMC 12.2Kbps	Front	10mm	-	4132	826.4	23.90	24.50	1.148	-0.01	0.434	0.498
	WCDMA V_LAT	RMC 12.2Kbps	Front	10mm	-	4233	846.6	23.98	24.50	1.127	-0.01	0.420	0.473
	WCDMA V_LAT	RMC 12.2Kbps	Back	10mm	-	4182	836.4	24.00	24.50	1.122	0.08	0.420	0.471

<CDMA BC0>

WiFi off / WiFi on													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC0_UAT	1xRTT RC3 SO32	Front	10mm	-	777	848.31	24.22	24.50	1.067	0.04	0.258	0.275
	CDMA BC0_UAT	1xRTT RC3 SO32	Back	10mm	-	777	848.31	24.22	24.50	1.067	0	0.271	0.289
	CDMA BC0_UAT	1xRTT RC3 SO32	Back	10mm	-	1013	824.7	24.10	24.50	1.096	-0.01	0.321	0.352
	CDMA BC0_UAT	1xRTT RC3 SO32	Back	10mm	-	384	836.52	24.05	24.50	1.109	-0.06	0.213	0.236
	CDMA BC0_LAT	1xRTT RC3 SO32	Front	10mm	-	777	848.31	24.22	24.50	1.067	-0.02	0.458	0.489
	CDMA BC0_LAT	1xRTT RC3 SO32	Back	10mm	-	777	848.31	24.22	24.50	1.067	0.01	0.461	0.492
	CDMA BC0_LAT	1xRTT RC3 SO32	Back	10mm	-	1013	824.7	24.10	24.50	1.096	0	0.475	0.521
50	CDMA BC0_LAT	1xRTT RC3 SO32	Back	10mm	-	384	836.52	24.05	24.50	1.109	0.06	0.493	0.547

<CDMA BC1>

WiFi off													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_UAT	1xRTT RC3 SO32	Front	10mm	-	600	1880	23.50	24.00	1.122	-0.07	1.160	1.302
	CDMA BC1_UAT	1xRTT RC3 SO32	Front	10mm	-	25	1851.25	23.50	24.00	1.122	-0.03	1.150	1.290
	CDMA BC1_UAT	1xRTT RC3 SO32	Front	10mm	-	1175	1908.75	23.16	24.00	1.213	-0.03	0.620	0.752
	CDMA BC1_UAT	1xRTT RC3 SO32	Front	10mm	Headset	600	1880	23.50	24.00	1.122	-0.06	1.130	1.268
	CDMA BC1_UAT	1xRTT RC3 SO32	Back	10mm	-	600	1880	23.50	24.00	1.122	0.12	1.150	1.290
	CDMA BC1_UAT	1xRTT RC3 SO32	Back	10mm	-	25	1851.25	23.50	24.00	1.122	-0.13	1.160	1.302
	CDMA BC1_UAT	1xRTT RC3 SO32	Back	10mm	-	1175	1908.75	23.16	24.00	1.213	-0.05	0.811	0.984
	CDMA BC1_UAT	1xRTT RC3 SO32	Back	10mm	Headset	25	1851.25	23.50	24.00	1.122	-0.08	1.120	1.257
	CDMA BC1_LAT	1xRTT RC3 SO32	Front	10mm	-	600	1880	23.50	24.50	1.259	-0.01	0.912	1.148
	CDMA BC1_LAT	1xRTT RC3 SO32	Front	10mm	-	25	1851.25	23.50	24.50	1.259	0.04	0.897	1.129
	CDMA BC1_LAT	1xRTT RC3 SO32	Front	10mm	-	1175	1908.75	23.16	24.50	1.361	0.01	0.801	1.091
51	CDMA BC1_LAT	1xRTT RC3 SO32	Back	10mm	-	600	1880	23.50	24.50	1.259	0.02	1.040	1.309
	CDMA BC1_LAT	1xRTT RC3 SO32	Back	10mm	-	25	1851.25	23.50	24.50	1.259	-0.02	0.910	1.146
	CDMA BC1_LAT	1xRTT RC3 SO32	Back	10mm	-	1175	1908.75	23.16	24.50	1.361	-0.03	0.844	1.149
	CDMA BC1_LAT	1xRTT RC3 SO32	Back	10mm	Headset	600	1880	23.50	24.50	1.259	-0.04	0.535	0.674
WiFi on													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_UAT	1xRTT RC3 SO32	Front	10mm	-	600	1880	23.50	23.50	1.000	-0.07	1.160	1.160
	CDMA BC1_UAT	1xRTT RC3 SO32	Front	10mm	-	25	1851.25	23.50	23.50	1.000	-0.03	1.150	1.150
	CDMA BC1_UAT	1xRTT RC3 SO32	Front	10mm	-	1175	1908.75	23.16	23.50	1.081	-0.03	0.620	0.670
	CDMA BC1_UAT	1xRTT RC3 SO32	Back	10mm	-	600	1880	23.50	23.50	1.000	0.12	1.150	1.150
	CDMA BC1_UAT	1xRTT RC3 SO32	Back	10mm	-	25	1851.25	23.50	23.50	1.000	-0.13	1.160	1.160
	CDMA BC1_UAT	1xRTT RC3 SO32	Back	10mm	-	1175	1908.75	23.16	23.50	1.081	-0.05	0.811	0.877
	CDMA BC1_LAT	1xRTT RC3 SO32	Front	10mm	-	600	1880	23.50	23.50	1.000	-0.01	0.912	0.912
	CDMA BC1_LAT	1xRTT RC3 SO32	Front	10mm	-	25	1851.25	23.50	23.50	1.000	0.04	0.897	0.897
	CDMA BC1_LAT	1xRTT RC3 SO32	Front	10mm	-	1175	1908.75	23.16	23.50	1.081	0.01	0.801	0.866
	CDMA BC1_LAT	1xRTT RC3 SO32	Back	10mm	-	600	1880	23.50	23.50	1.000	0.02	1.040	1.040
	CDMA BC1_LAT	1xRTT RC3 SO32	Back	10mm	-	25	1851.25	23.50	23.50	1.000	-0.02	0.940	0.940
	CDMA BC1_LAT	1xRTT RC3 SO32	Back	10mm	-	1175	1908.75	23.16	23.50	1.081	-0.03	0.844	0.913

<CDMA BC10>

WiFi off / WiFi on													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC10_UAT	1xRTT RC3 SO32	Front	10mm	-	580	820.5	24.17	24.50	1.079	0.04	0.304	0.328
	CDMA BC10_UAT	1xRTT RC3 SO32	Back	10mm	-	580	820.5	24.17	24.50	1.079	-0.05	0.300	0.324
52	CDMA BC10_LAT	1xRTT RC3 SO32	Front	10mm	-	580	820.5	24.17	24.50	1.079	0.12	0.467	0.504
	CDMA BC10_LAT	1xRTT RC3 SO32	Back	10mm	-	580	820.5	24.17	24.50	1.079	0.02	0.459	0.495

<FDD LTE B7>

WiFi off / WiFi on																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_UAT	20M	QPSK	1	0	Front	10mm	-	21100	2535	23.63	24.00	1.089	-0.04	0.478	0.521
	LTE Band 7_UAT	20M	QPSK	50	0	Front	10mm	-	21100	2535	22.61	23.00	1.094	-0.02	0.360	0.394
	LTE Band 7_UAT	20M	QPSK	1	0	Back	10mm	-	21100	2535	23.63	24.00	1.089	0	0.830	0.904
	LTE Band 7_UAT	20M	QPSK	1	0	Back	10mm	-	20850	2510	23.55	24.00	1.109	0.03	0.817	0.906
53	LTE Band 7_UAT	20M	QPSK	1	0	Back	10mm	-	21350	2560	23.51	24.00	1.119	-0.03	0.819	0.917
	LTE Band 7_UAT	20M	QPSK	50	0	Back	10mm	-	21100	2535	22.61	23.00	1.094	-0.07	0.621	0.679
	LTE Band 7_UAT	20M	QPSK	100	0	Back	10mm	-	21100	2535	22.48	23.00	1.127	-0.04	0.659	0.743
	LTE Band 7_LAT	20M	QPSK	1	0	Front	10mm	-	21100	2535	23.63	24.00	1.089	0.1	0.632	0.688
	LTE Band 7_LAT	20M	QPSK	50	0	Front	10mm	-	21100	2535	22.61	23.00	1.094	0.15	0.476	0.521
	LTE Band 7_LAT	20M	QPSK	1	0	Back	10mm	-	21100	2535	23.63	24.00	1.089	0	0.556	0.605
	LTE Band 7_LAT	20M	QPSK	50	0	Back	10mm	-	21100	2535	22.61	23.00	1.094	0.05	0.419	0.458

<FDD LTE B12>

WiFi off / WiFi on																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12_UAT	10M	QPSK	1	0	Front	10mm	-	23095	707.5	24.41	24.50	1.021	0.15	0.219	0.224
	LTE Band 12_UAT	10M	QPSK	25	0	Front	10mm	-	23095	707.5	23.39	23.50	1.026	0.09	0.175	0.179
	LTE Band 12_UAT	10M	QPSK	1	0	Back	10mm	-	23095	707.5	24.41	24.50	1.021	0.07	0.229	0.234
	LTE Band 12_UAT	10M	QPSK	25	0	Back	10mm	-	23095	707.5	23.39	23.50	1.026	0.08	0.187	0.192
54	LTE Band 12_LAT	10M	QPSK	1	0	Front	10mm	-	23095	707.5	24.41	24.50	1.021	0.05	0.271	0.277
	LTE Band 12_LAT	10M	QPSK	25	0	Front	10mm	-	23095	707.5	23.39	23.50	1.026	-0.01	0.229	0.235
	LTE Band 12_LAT	10M	QPSK	1	0	Back	10mm	-	23095	707.5	24.41	24.50	1.021	0.1	0.265	0.271
	LTE Band 12_LAT	10M	QPSK	25	0	Back	10mm	-	23095	707.5	23.39	23.50	1.026	-0.03	0.224	0.230

<FDD LTE B13>

WiFi off / WiFi on																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 13_UAT	10M	QPSK	1	0	Front	10mm	-	23230	782	24.45	24.50	1.012	0.03	0.248	0.251
	LTE Band 13_UAT	10M	QPSK	25	0	Front	10mm	-	23230	782	23.45	23.50	1.012	0.12	0.201	0.203
	LTE Band 13_UAT	10M	QPSK	1	0	Back	10mm	-	23230	782	24.45	24.50	1.012	0.11	0.262	0.265
	LTE Band 13_UAT	10M	QPSK	25	0	Back	10mm	-	23230	782	23.45	23.50	1.012	0.12	0.214	0.216
55	LTE Band 13_LAT	10M	QPSK	1	0	Front	10mm	-	23230	782	24.45	24.50	1.012	0.04	0.400	0.405
	LTE Band 13_LAT	10M	QPSK	25	0	Front	10mm	-	23230	782	23.45	23.50	1.012	-0.08	0.319	0.323
	LTE Band 13_LAT	10M	QPSK	1	0	Back	10mm	-	23230	782	24.45	24.50	1.012	-0.05	0.382	0.386
	LTE Band 13_LAT	10M	QPSK	25	0	Back	10mm	-	23230	782	23.45	23.50	1.012	-0.09	0.295	0.298



<FDD LTE B25>

WiFi off																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	-	26340	1880	23.50	24.00	1.122	0.16	1.030	1.156
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	-	26140	1860	23.45	24.00	1.135	0.07	1.070	1.214
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	-	26590	1905	23.49	24.00	1.125	0.05	0.905	1.018
	LTE Band 25_UAT	20M	QPSK	50	0	Front	10mm	-	26340	1880	22.49	23.00	1.125	0.06	0.864	0.972
	LTE Band 25_UAT	20M	QPSK	50	0	Front	10mm	-	26140	1860	22.33	23.00	1.167	0.06	0.953	1.112
	LTE Band 25_UAT	20M	QPSK	50	0	Front	10mm	-	26590	1905	22.44	23.00	1.138	0.06	0.803	0.914
	LTE Band 25_UAT	20M	QPSK	100	0	Front	10mm	-	26340	1880	22.49	23.00	1.125	0.07	0.834	0.938
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	Headset	26140	1860	23.45	24.00	1.135	0.01	0.971	1.102
	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	-	26340	1880	23.50	24.00	1.122	0.04	1.110	1.245
56	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	-	26140	1860	23.45	24.00	1.135	0.02	1.180	1.339
	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	-	26590	1905	23.49	24.00	1.125	0.05	1.050	1.181
	LTE Band 25_UAT	20M	QPSK	50	0	Back	10mm	-	26340	1880	22.49	23.00	1.125	-0.08	0.799	0.899
	LTE Band 25_UAT	20M	QPSK	50	0	Back	10mm	-	26140	1860	22.33	23.00	1.167	-0.08	0.869	1.014
	LTE Band 25_UAT	20M	QPSK	50	0	Back	10mm	-	26590	1905	22.44	23.00	1.138	-0.04	0.759	0.863
	LTE Band 25_UAT	20M	QPSK	100	0	Back	10mm	-	26340	1880	22.49	23.00	1.125	-0.09	0.784	0.882
	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	Headset	26140	1860	23.45	24.00	1.135	-0.05	1.080	1.226
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	-	26340	1880	23.50	24.50	1.259	0.15	1.050	1.322
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	-	26140	1860	23.45	24.50	1.274	0.12	1.050	1.337
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	-	26590	1905	23.49	24.50	1.262	0.19	1.010	1.274
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	-	26340	1880	22.49	23.50	1.262	0.16	0.812	1.025
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	-	26140	1860	22.33	23.50	1.309	0.1	0.791	1.036
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	-	26590	1905	22.44	23.50	1.276	0.05	0.781	0.997
	LTE Band 25_LAT	20M	QPSK	100	0	Front	10mm	-	26340	1880	22.49	23.50	1.262	0.18	0.782	0.987
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	Headset	26140	1860	23.45	24.50	1.274	0.16	0.962	1.225
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	-	26340	1880	23.50	24.50	1.259	0.02	1.050	1.322
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	-	26140	1860	23.45	24.50	1.274	0.01	1.040	1.324
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	-	26590	1905	23.49	24.50	1.262	-0.03	1.030	1.300
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	-	26340	1880	22.49	23.50	1.262	0.01	0.826	1.042
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	-	26140	1860	22.33	23.50	1.309	0.04	0.805	1.054
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	-	26590	1905	22.44	23.50	1.276	0.05	0.812	1.036
	LTE Band 25_LAT	20M	QPSK	100	0	Back	10mm	-	26340	1880	22.49	23.50	1.262	0.02	0.807	1.018
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	Headset	26140	1860	23.45	24.50	1.274	0.13	0.957	1.219
WiFi on																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	-	26340	1880	23.50	23.50	1.000	0.16	1.030	1.030
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	-	26140	1860	23.50	23.50	1.000	0.07	1.070	1.070
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	-	26590	1905	23.49	23.50	1.002	0.05	0.905	0.907
	LTE Band 25_UAT	20M	QPSK	50	0	Front	10mm	-	26340	1880	22.49	23.00	1.125	0.06	0.864	0.972
	LTE Band 25_UAT	20M	QPSK	50	0	Front	10mm	-	26140	1860	22.33	23.00	1.167	0.06	0.953	1.112
	LTE Band 25_UAT	20M	QPSK	50	0	Front	10mm	-	26590	1905	22.44	23.00	1.138	0.06	0.803	0.914
	LTE Band 25_UAT	20M	QPSK	100	0	Front	10mm	-	26340	1880	22.49	23.00	1.125	0.07	0.834	0.938
	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	-	26340	1880	23.50	23.50	1.000	0.04	1.110	1.110
56	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	-	26140	1860	23.50	23.50	1.000	0.02	1.180	1.180
	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	-	26590	1905	23.49	23.50	1.002	0.05	1.050	1.052
	LTE Band 25_UAT	20M	QPSK	50	0	Back	10mm	-	26340	1880	22.49	23.00	1.125	-0.08	0.799	0.899
	LTE Band 25_UAT	20M	QPSK	50	0	Back	10mm	-	26140	1860	22.33	23.00	1.167	-0.08	0.869	1.014
	LTE Band 25_UAT	20M	QPSK	50	0	Back	10mm	-	26590	1905	22.44	23.00	1.138	-0.04	0.759	0.863
	LTE Band 25_UAT	20M	QPSK	100	0	Back	10mm	-	26340	1880	22.49	23.00	1.125	-0.09	0.784	0.882
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	-	26340	1880	23.50	24.00	1.122	0.15	1.050	1.178
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	-	26140	1860	23.50	24.00	1.122	0.12	1.050	1.178
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	-	26590	1905	23.49	24.00	1.125	0.19	1.010	1.136
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	-	26340	1880	22.49	23.00	1.125	0.16	0.812	0.913
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	-	26140	1860	22.33	23.00	1.167	0.1	0.791	0.923
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	-	26590	1905	22.44	23.00	1.138	0.05	0.781	0.888
	LTE Band 25_LAT	20M	QPSK	100	0	Front	10mm	-	26340	1880	22.49	23.00	1.125	0.18	0.782	0.879
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	-	26340	1880	23.50	24.00	1.122	0.02	1.050	1.178
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	-	26140	1860	23.50	24.00	1.122	0.01	1.040	1.167
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	-	26590	1905	23.49	24.00	1.125	-0.03	1.030	1.158
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	-	26340	1880	22.49	23.00	1.125	0.01	0.826	0.929
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	-	26140	1860	22.33	23.00	1.167	0.04	0.805	0.939
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	-	26590	1905	22.44	23.00	1.138	0.05	0.812	0.924
	LTE Band 25_LAT	20M	QPSK	100	0	Back	10mm	-	26340	1880	22.49	23.00	1.125	0.02	0.807	0.908

<FDD LTE B26>

WiFi off / WiFi on																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 26_UAT	15M	QPSK	1	0	Front	10mm	-	26865	831.5	24.17	24.50	1.079	0.07	0.266	0.287
	LTE Band 26_UAT	15M	QPSK	36	0	Front	10mm	-	26865	831.5	22.88	23.50	1.153	0.1	0.200	0.231
	LTE Band 26_UAT	15M	QPSK	1	0	Back	10mm	-	26865	831.5	24.17	24.50	1.079	0.19	0.290	0.313
	LTE Band 26_UAT	15M	QPSK	36	0	Back	10mm	-	26865	831.5	22.88	23.50	1.153	-0.07	0.222	0.256
57	LTE Band 26_LAT	15M	QPSK	1	0	Front	10mm	-	26865	831.5	24.17	24.50	1.079	0.03	0.409	0.441
	LTE Band 26_LAT	15M	QPSK	36	0	Front	10mm	-	26865	831.5	22.88	23.50	1.153	-0.11	0.306	0.353
	LTE Band 26_LAT	15M	QPSK	1	0	Back	10mm	-	26865	831.5	24.17	24.50	1.079	-0.02	0.386	0.416
	LTE Band 26_LAT	15M	QPSK	36	0	Back	10mm	-	26865	831.5	22.88	23.50	1.153	0.02	0.289	0.333

<FDD LTE B30>

WiFi off / WiFi on																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 30_UAT	10M	QPSK	1	0	Front	10mm	-	27710	2310	23.49	24.00	1.125	-0.02	0.571	0.642
	LTE Band 30_UAT	10M	QPSK	25	0	Front	10mm	-	27710	2310	22.42	23.00	1.143	0.04	0.449	0.513
	LTE Band 30_UAT	10M	QPSK	1	0	Back	10mm	-	27710	2310	23.49	24.00	1.125	-0.11	0.654	0.735
	LTE Band 30_UAT	10M	QPSK	25	0	Back	10mm	-	27710	2310	22.42	23.00	1.143	-0.04	0.516	0.590
58	LTE Band 30_LAT	10M	QPSK	1	0	Front	10mm	-	27710	2310	23.49	24.00	1.125	0.01	0.731	0.822
	LTE Band 30_LAT	10M	QPSK	25	0	Front	10mm	-	27710	2310	22.42	23.00	1.143	0.03	0.573	0.655
	LTE Band 30_LAT	10M	QPSK	50	0	Front	10mm	-	27710	2310	22.36	23.00	1.159	0.04	0.572	0.663
	LTE Band 30_LAT	10M	QPSK	1	0	Back	10mm	-	27710	2310	23.49	24.00	1.125	-0.01	0.667	0.750
	LTE Band 30_LAT	10M	QPSK	25	0	Back	10mm	-	27710	2310	22.42	23.00	1.143	0.05	0.522	0.597



<FDD LTE B66>

WiFi off																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_UAT	20M	QPSK	1	0	Front	10mm	-	132322	1745	23.50	24.00	1.122	0.11	1.120	1.257
	LTE Band 66_UAT	20M	QPSK	1	0	Front	10mm	-	132072	1720	23.48	24.00	1.127	0.11	1.060	1.195
	LTE Band 66_UAT	20M	QPSK	1	0	Front	10mm	-	132572	1770	23.49	24.00	1.125	0.06	1.160	1.305
	LTE Band 66_UAT	20M	QPSK	50	0	Front	10mm	-	132322	1745	22.48	23.00	1.127	0.13	0.893	1.007
	LTE Band 66_UAT	20M	QPSK	50	0	Front	10mm	-	132072	1720	22.47	23.00	1.130	0.14	0.833	0.941
	LTE Band 66_UAT	20M	QPSK	50	0	Front	10mm	-	132572	1770	22.44	23.00	1.138	0.13	0.947	1.077
	LTE Band 66_UAT	20M	QPSK	100	0	Front	10mm	-	132322	1745	22.35	23.00	1.161	0.12	0.898	1.043
	LTE Band 66_UAT	20M	QPSK	1	0	Front	10mm	Headset	132572	1770	23.49	24.00	1.125	0.1	1.130	1.271
	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	-	132322	1745	23.50	24.00	1.122	0.06	1.160	1.302
	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	-	132072	1720	23.48	24.00	1.127	0.01	1.150	1.296
59	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	-	132572	1770	23.49	24.00	1.125	0.01	1.170	1.316
	LTE Band 66_UAT	20M	QPSK	50	0	Back	10mm	-	132322	1745	22.48	23.00	1.127	0.02	0.930	1.048
	LTE Band 66_UAT	20M	QPSK	50	0	Back	10mm	-	132072	1720	22.47	23.00	1.130	0	0.879	0.993
	LTE Band 66_UAT	20M	QPSK	50	0	Back	10mm	-	132572	1770	22.44	23.00	1.138	0.03	1.000	1.138
	LTE Band 66_UAT	20M	QPSK	100	0	Back	10mm	-	132322	1745	22.35	23.00	1.161	-0.01	0.942	1.094
	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	Headset	132572	1770	23.49	24.00	1.125	-0.05	1.160	1.305
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	-	132322	1745	23.50	24.00	1.122	0.03	1.040	1.167
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	-	132072	1720	23.48	24.00	1.127	0	1.100	1.240
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	-	132572	1770	23.49	24.00	1.125	0.02	1.030	1.158
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	-	132322	1745	22.48	23.00	1.127	-0.02	0.821	0.925
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	-	132072	1720	22.47	23.00	1.130	-0.03	0.893	1.009
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	-	132572	1770	22.44	23.00	1.138	-0.02	0.805	0.916
	LTE Band 66_LAT	20M	QPSK	100	0	Front	10mm	-	132322	1745	22.35	23.00	1.161	-0.03	0.805	0.935
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	Headset	132572	1720	23.48	24.00	1.127	0.05	0.765	0.862
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	-	132322	1745	23.50	24.00	1.122	0.01	1.100	1.234
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	-	132072	1720	23.48	24.00	1.127	0.03	1.110	1.251
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	-	132572	1770	23.49	24.00	1.125	-0.02	1.060	1.192
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	-	132322	1745	22.48	23.00	1.127	0.03	0.838	0.945
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	-	132072	1720	22.47	23.00	1.130	0.04	0.864	0.976
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	-	132572	1770	22.44	23.00	1.138	0	0.829	0.943
	LTE Band 66_LAT	20M	QPSK	100	0	Back	10mm	-	132322	1745	22.35	23.00	1.161	0.03	0.820	0.952
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	Headset	132072	1720	23.48	24.00	1.127	0.01	0.588	0.663
WiFi on																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_UAT	20M	QPSK	1	0	Front	10mm	-	132322	1745	23.50	23.50	1.000	0.11	1.120	1.120
	LTE Band 66_UAT	20M	QPSK	1	0	Front	10mm	-	132072	1720	23.48	23.50	1.005	0.11	1.060	1.065
	LTE Band 66_UAT	20M	QPSK	1	0	Front	10mm	-	132572	1770	23.49	23.50	1.002	0.06	1.160	1.163
	LTE Band 66_UAT	20M	QPSK	50	0	Front	10mm	-	132322	1745	22.48	23.00	1.127	0.13	0.893	1.007
	LTE Band 66_UAT	20M	QPSK	50	0	Front	10mm	-	132072	1720	22.47	23.00	1.130	0.14	0.833	0.941
	LTE Band 66_UAT	20M	QPSK	50	0	Front	10mm	-	132572	1770	22.44	23.00	1.138	0.13	0.947	1.077
	LTE Band 66_UAT	20M	QPSK	100	0	Front	10mm	-	132322	1745	22.35	23.00	1.161	0.12	0.898	1.043
	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	-	132322	1745	23.50	23.50	1.000	0.06	1.160	1.160
	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	-	132072	1720	23.48	23.50	1.005	0.01	1.150	1.155
59	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	-	132572	1770	23.49	23.50	1.002	0.01	1.170	1.173
	LTE Band 66_UAT	20M	QPSK	50	0	Back	10mm	-	132322	1745	22.48	23.00	1.127	0.02	0.930	1.048
	LTE Band 66_UAT	20M	QPSK	50	0	Back	10mm	-	132072	1720	22.47	23.00	1.130	0	0.879	0.993
	LTE Band 66_UAT	20M	QPSK	50	0	Back	10mm	-	132572	1770	22.44	23.00	1.138	0.03	1.000	1.138
	LTE Band 66_UAT	20M	QPSK	100	0	Back	10mm	-	132322	1745	22.35	23.00	1.161	-0.01	0.942	1.094
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	-	132322	1745	23.50	23.50	1.000	0.03	1.040	1.040
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	-	132072	1720	23.48	23.50	1.005	0	1.100	1.105
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	-	132572	1770	23.49	23.50	1.002	0.02	1.030	1.032
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	-	132322	1745	22.48	23.00	1.127	-0.02	0.821	0.925
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	-	132072	1720	22.47	23.00	1.130	-0.03	0.893	1.009
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	-	132572	1770	22.44	23.00	1.138	-0.02	0.805	0.916
	LTE Band 66_LAT	20M	QPSK	100	0	Front	10mm	-	132322	1745	22.35	23.00	1.161	-0.03	0.805	0.935
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	-	132322	1745	23.50	23.50	1.000	0.01	1.100	1.100
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	-	132072	1720	23.48	23.50	1.005	0.03	1.110	1.115
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	-	132572	1770	23.49	23.50	1.002	-0.02	1.060	1.062
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	-	132322	1745	22.48	23.00	1.127	0.03	0.838	0.945
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	-	132072	1720	22.47	23.00	1.130	0.04	0.864	0.976
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	-	132572	1770	22.44	23.00	1.138	0	0.829	0.943
	LTE Band 66_LAT	20M	QPSK	100	0	Back	10mm	-	132322	1745	22.35	23.00	1.161	0.03	0.820	0.952

<FDD LTE B71>

WiFi off / WiFi on																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71_UAT	20M	QPSK	1	0	Front	10mm	-	133322	683	24.05	24.50	1.109	0.09	0.184	0.204
	LTE Band 71_UAT	20M	QPSK	50	0	Front	10mm	-	133322	683	22.57	23.50	1.239	0	0.156	0.193
	LTE Band 71_UAT	20M	QPSK	1	0	Back	10mm	-	133322	683	24.05	24.50	1.109	-0.11	0.201	0.223
	LTE Band 71_UAT	20M	QPSK	50	0	Back	10mm	-	133322	683	22.57	23.50	1.239	-0.07	0.178	0.221
	LTE Band 71_LAT	20M	QPSK	1	0	Front	10mm	-	133322	683	24.05	24.50	1.109	0.13	0.512	0.568
	LTE Band 71_LAT	20M	QPSK	50	0	Front	10mm	-	133322	683	22.57	23.50	1.239	-0.03	0.343	0.425
60	LTE Band 71_LAT	20M	QPSK	1	0	Back	10mm	-	133322	683	24.05	24.50	1.109	-0.07	0.518	0.575
	LTE Band 71_LAT	20M	QPSK	50	0	Back	10mm	-	133322	683	22.57	23.50	1.239	0.02	0.343	0.425

<TDD LTE B41>

WiFi off / WiFi on																			
Note	Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		LTE Band 41_UAT	20M	QPSK	1	0	Front	10mm	-	40185	2549.5	24.70	25.20	1.122	62.9	1.006	0.11	0.346	0.391
		LTE Band 41_UAT	20M	QPSK	50	0	Front	10mm	-	40185	2549.5	23.69	24.20	1.125	62.9	1.006	0.19	0.276	0.312
		LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	-	40185	2549.5	24.70	25.20	1.122	62.9	1.006	0.1	0.395	0.446
		LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	-	39750	2506	24.60	25.20	1.148	62.9	1.006	0.08	0.478	0.552
		LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	-	40620	2593	24.60	25.20	1.148	62.9	1.006	0.18	0.433	0.500
	61	LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	-	41055	2636.5	24.59	25.20	1.151	62.9	1.006	-0.1	0.480	0.556
		LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	-	41490	2680	24.52	25.20	1.169	62.9	1.006	-0.1	0.333	0.392
		LTE Band 41_UAT	20M	QPSK	50	0	Back	10mm	-	40185	2549.5	23.69	24.20	1.125	62.9	1.006	0.07	0.383	0.433
HPUE		LTE Band 41_UAT	20M	QPSK	1	49	Back	10mm	-	41055	2636.5	25.70	27.00	1.349	42.9	1.009	-0.04	0.398	0.542
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	-	40185	2549.5	24.70	25.20	1.122	62.9	1.006	0.11	0.393	0.444
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	-	39750	2506	24.60	25.20	1.148	62.9	1.006	0.08	0.339	0.392
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	-	40620	2593	24.60	25.20	1.148	62.9	1.006	0.01	0.438	0.506
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	-	41055	2636.5	24.59	25.20	1.151	62.9	1.006	0.12	0.366	0.424
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	-	41490	2680	24.52	25.20	1.169	62.9	1.006	0.04	0.244	0.287
		LTE Band 41_LAT	20M	QPSK	50	0	Front	10mm	-	40185	2549.5	23.69	24.20	1.125	62.9	1.006	-0.11	0.271	0.307
		LTE Band 41_LAT	20M	QPSK	1	0	Back	10mm	-	40185	2549.5	24.70	25.20	1.122	62.9	1.006	-0.01	0.305	0.344
		LTE Band 41_LAT	20M	QPSK	50	0	Back	10mm	-	40185	2549.5	23.69	24.20	1.125	62.9	1.006	-0.01	0.248	0.281
HPUE		LTE Band 41_LAT	20M	QPSK	1	49	Front	10mm	-	40620	2593	25.64	27.00	1.368	42.9	1.009	0.08	0.352	0.486



<2.4GHz WLAN SAR>

WWAN off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	1	2412	19.59	20.00	1.099	100.00	1.000	-0.04	0.369	0.406
62	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	1	2412	19.59	20.00	1.099	100.00	1.000	-0.04	0.421	0.463
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 5	1	2412	20.00	20.00	1.000	100.00	1.000	-0.04	0.109	0.109
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	1	2412	20.00	20.00	1.000	100.00	1.000	0.1	0.213	0.213
WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	1	2412	14.33	14.50	1.040	100	1.000	0.11	0.092	0.096
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	1	2412	14.33	14.50	1.040	100	1.000	-0.03	0.124	0.129
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 5	1	2412	20.00	20.00	1.000	100	1.000	-0.12	0.105	0.105
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	1	2412	20.00	20.00	1.000	100	1.000	-0.14	0.167	0.167
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4+5	1	2412	18.50	18.50	1.000	100	1.000	0.04	0.338	0.338
					Ant 5			18.94	20.00	1.276	100	1.000	1.042	0.149	0.190
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4+5	1	2412	18.50	18.50	1.000	100	1.000	0.03	0.375	0.375
					Ant 5			18.94	20.00	1.276	100	1.000	1.042	0.204	0.260

<5.3GHz WLAN SAR>

WWAN off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 6	54	5270	18.46	18.50	1.009	95.88	1.043	0.19	0.231	0.243
63	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6	54	5270	18.46	18.50	1.009	95.88	1.043	-0.11	0.372	0.391
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6	62	5310	14.96	15.00	1.009	95.88	1.043	-0.15	0.175	0.184
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	54	5270	18.39	18.50	1.025	95.88	1.043	-0.18	0.225	0.241
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	54	5270	18.39	18.50	1.025	95.88	1.043	0	0.153	0.164
WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 6	54	5270	17.99	18.00	1.002	95.88	1.043	0.13	0.253	0.264
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6	54	5270	17.99	18.00	1.002	95.88	1.043	0.16	0.359	0.375
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	54	5270	16.95	17.00	1.012	95.88	1.043	-0.14	0.179	0.189
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	54	5270	16.95	17.00	1.012	95.88	1.043	-0.18	0.109	0.115
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 6+5	54	5270	18.50	18.50	1.000	95.96	1.042	-0.11	0.222	0.231
					Ant 5			18.41	18.50	1.021	95.96	1.042	1.042	0.362	0.385
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6+5	54	5270	18.50	18.50	1.000	95.96	1.042	0.16	0.356	0.371
					Ant 5			18.41	18.50	1.021	95.96	1.042	1.042	0.257	0.273



<5.5GHz WLAN SAR>

WWAN off																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
64	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6	138	5690	17.45	18.50	1.274	95.56	1.046	0.08	0.419	0.558	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6	106	5530	14.11	15.00	1.228	95.56	1.046	0.16	0.179	0.230	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6	138	5690	17.45	18.50	1.274	95.56	1.046	-0.13	0.354	0.472	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5	138	5690	17.13	18.50	1.371	95.51	1.047	-0.06	0.199	0.286	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	138	5690	17.13	18.50	1.371	95.51	1.047	0.06	0.205	0.294	
WWAN on																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6	138	5690	17.45	17.50	1.012	95.56	1.046	-0.07	0.344	0.364	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6	138	5690	17.45	17.50	1.012	95.56	1.046	-0.12	0.299	0.316	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5	138	5690	17.13	17.50	1.089	95.51	1.047	-0.1	0.137	0.156	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	138	5690	17.13	17.50	1.089	95.51	1.047	-0.01	0.161	0.184	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+5	Ant 6	138	5690	16.56	17.00	1.107	95.56	1.046	0.12	0.327	0.379
					Ant 5											
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+5	Ant 6	138	5690	16.56	17.00	1.107	95.56	1.046	0.1	0.298	0.345
					Ant 5											

<5.8GHz WLAN SAR>

WWAN off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
65	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 6	151	5755	17.22	18.50	1.342	95.88	1.043	-0.09	0.222	0.310
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6	151	5755	17.22	18.50	1.342	95.88	1.043	-0.03	0.154	0.215
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	151	5755	17.71	18.50	1.199	95.88	1.043	-0.03	0.165	0.206
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	151	5755	17.71	18.50	1.199	95.88	1.043	0.08	0.163	0.204
WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6	155	5775	16.71	18.00	1.347	95.56	1.046	-0.16	0.251	0.354
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6	155	5775	16.71	18.00	1.347	95.56	1.046	-0.13	0.173	0.244
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5	155	5775	17.21	18.00	1.200	95.51	1.047	-0.11	0.170	0.214
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	155	5775	17.21	18.00	1.200	95.51	1.047	0.18	0.174	0.219
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+5	155	5775	15.28	15.50	1.052	95.56	1.046	-0.03	0.224	0.246
					Ant 5			15.82	16.00	1.042	95.56	1.046	1.042	0.150	0.164
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+5	155	5775	15.28	15.50	1.052	95.56	1.046	-0.02	0.184	0.202
					Ant 5			15.82	16.00	1.042	95.56	1.046	1.042	0.172	0.188

<Bluetooth SAR>

WWAN off and WLAN off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	10mm	Ant 4	39	2441	15.11	15.50	1.094	76.60	1.087	-0.12	0.085	0.101
66	Bluetooth	1Mbps	Back	10mm	Ant 4	39	2441	15.11	15.50	1.094	76.60	1.087	0	0.094	0.112
	Bluetooth	1Mbps	Back	10mm	Ant 4	0	2402	14.55	15.50	1.245	76.60	1.087	-0.1	0.078	0.106
	Bluetooth	1Mbps	Back	10mm	Ant 4	78	2480	14.43	15.50	1.279	76.60	1.087	-0.01	0.080	0.111
WWAN on or WLAN on, WWAN on and WLAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	10mm	Ant 4	78	2480	9.88	10.00	1.028	76.60	1.087	-0.02	0.025	0.028
	Bluetooth	1Mbps	Back	10mm	Ant 4	78	2480	9.88	10.00	1.028	76.60	1.087	-0.02	0.034	0.038

13.4 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required

<LTE Band 41 Linearity Data for Head>

	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	21.5	22.5
Reported 1g SAR (W/kg)	1.309	1.199
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	89.41	77.00
Linearity SAR(W/kg)	1.13	
% deviation from expected linearity		6.36%

<LTE Band 41 Linearity Data for Hotspot and Body-worn>

	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	25.2	27
Reported 1g SAR (W/kg)	0.556	0.542
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	209.61	217.01
Linearity SAR(W/kg)	0.58	
% deviation from expected linearity		-5.85%

13.5 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Ant	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 7_UAT	20M_QPSK_1_0	Right Cheek	0mm	-	20850	2510	18.18	19.00	1.208	-	-	0.19	1.060		1.280
2nd	LTE Band 7_UAT	20M_QPSK_1_0	Right Cheek	0mm	-	20850	2510	18.18	19.00	1.208	-	-	-0.08	0.978	1.08	1.181
1st	LTE Band 26_UAT	15M_QPSK_1_0	Right Cheek	0mm	-	26865	831.5	24.17	24.50	1.079	-	-	-0.1	1.100		1.187
2nd	LTE Band 26_UAT	15M_QPSK_1_0	Right Cheek	0mm	-	26865	831.5	24.17	24.50	1.079	-	-	0.12	1.040	1.06	1.122
1st	LTE Band 30_UAT	10M_QPSK_25_0	Right Tilted	0mm	-	27710	2310	19.07	20.00	1.239	-	-	0.02	1.080		1.338
2nd	LTE Band 30_UAT	10M_QPSK_25_0	Right Tilted	0mm	-	27710	2310	19.07	20.00	1.239	-	-	0.02	1.020	1.06	1.264
1st	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	11	2462	17.77	18.00	1.054	100.00	1.000	-0.15	1.240		1.307
2nd	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	11	2462	17.77	18.00	1.054	100.00	1.000	-0.15	1.170	1.06	1.234
1st	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	46	5230	16.97	17.00	1.007	95.88	1.043	-0.11	0.997		1.047
2nd	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	46	5230	16.97	17.00	1.007	95.88	1.043	0.05	0.965	1.03	1.013
1st	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	54	5270	16.71	17.00	1.069	95.88	1.043	-0.17	1.200		1.338
2nd	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	54	5270	16.71	17.00	1.069	95.88	1.043	0.02	1.190	1.01	1.327
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	138	5690	14.88	15.00	1.028	95.56	1.046	-0.09	1.100		1.183
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	138	5690	14.88	15.00	1.028	95.56	1.046	-0.11	1.050	1.05	1.129
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	155	5775	16.38	16.50	1.028	95.56	1.046	-0.09	1.190		1.280
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	155	5775	16.38	16.50	1.028	95.56	1.046	-0.01	1.080	1.10	1.161
1st	WCDMA IV_UAT	RMC 12.2Kbps	Top Side	10mm	-	1513	1752.6	21.31	22.00	1.172	-	-	-0.03	1.140		1.336
2nd	WCDMA IV_UAT	RMC 12.2Kbps	Top Side	10mm	-	1513	1752.6	21.31	22.00	1.172	-	-	-0.17	1.130	1.01	1.325
1st	LTE Band 25_UAT	20M_QPSK_1_0	Back	10mm	-	26140	1860	23.45	24.00	1.135	-	-	0.02	1.180		1.339
2nd	LTE Band 25_UAT	20M_QPSK_1_0	Back	10mm	-	26140	1860	23.45	24.00	1.135	-	-	-0.03	1.090	1.08	1.237
1st	LTE Band 66_UAT	20M_QPSK_1_0	Back	10mm	-	132572	1770	23.49	24.00	1.125	-	-	0.01	1.170		1.316
2nd	LTE Band 66_UAT	20M_QPSK_1_0	Back	10mm	-	132572	1770	23.49	24.00	1.125	-	-	-0.04	1.160	1.01	1.305

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.
3. The ratio is the difference in percentage between original and repeated *measured SAR*.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

14. Simultaneous Transmission Analysis

RF Exposure Conditions	Item	Simultaneous Transmission Configurations		Remark
Head / Body-worn / Hotspot	1	WWAN off (Cellular off)	(Ant 5)WIFI 5G SISO +(Ant 4) Bluetooth	
	2		(Ant 6)WIFI 5G SISO+(Ant 4) Bluetooth	
	3		WIFI 5G MIMO+(Ant 4) Bluetooth	
	4		(Ant 5)WIFI 5G SISO	
	5		(Ant 6)WIFI 5G SISO	
	6		WIFI 5G MIMO	
	7		(Ant 4) WIFI 2.4G SISO	
	8		(Ant 5) WIFI 2.4G SISO +(Ant 4) Bluetooth	
	9		WIFI 2.4G MIMO	
	10		(Ant 5) WIFI 5G SISO+(Ant 4) WIFI 2.4G SISO	
	11	WWAN off (Cellular on)	+(Ant 5) WIFI 5G SISO +(Ant 4) Bluetooth	
	12		+(Ant 6) WIFI 5G SISO+(Ant 4) Bluetooth	
	13		+WIFI 5G MIMO+(Ant 4) Bluetooth	
	14		+(Ant 5) WIFI 5G SISO	
	15		+(Ant 6) WIFI 5G SISO	
	16		+WIFI 5G MIMO	
	17		+(Ant 4) WIFI 2.4G SISO	
	18		+(Ant 5) WIFI 2.4G SISO +(Ant 4) Bluetooth	
	19		+WIFI 2.4G MIMO	
	20		+(Ant 5) WIFI 5G SISO+ (Ant 4) WIFI 2.4G SISO	
	21		+(Ant 4) Bluetooth	

General Note:

- This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
- The worst case WLAN reported SAR for each configuration was used for SAR summation, regardless of whether the WLAN channel has WiFi Direct and Hotspot capability. Therefore, the following summations represent the absolute worst cases for simultaneous transmission with WLAN.
- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation < 1.6W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$ for 1g SAR, if $SPLSR < 0.1$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
 - For each cellular band, the device has 2 antennas (LAT antenna located in the bottom, UAT antenna located in the top edge), the antenna selection is based on the connection quality condition, and only one antenna will transmit at a time. The device has several power modes which are determined by the exposure conditions for head/hotspot/body-worn and also the simultaneous transmission conditions, the detailed implementation of the detection of the use cases and the power table control is illustrated in the operational description exhibit

**14.1 Head Exposure Conditions****<WWAN on with WiFi on and Bluetooth Power >**

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+5+6 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+8 Summed 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+6 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 4 1g SAR (W/kg)	2.4GHz WLAN Ant 5 1g SAR (W/kg)	5GHz WLAN Ant 6 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	2.4GHz WLAN Ant 4+5 1g SAR (W/kg)	5GHz WLAN Ant 6+5 1g SAR (W/kg)											
GSM850_UAT	Right Cheek	0.589	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.663	0.944	0.925	0.910	0.629	0.891	0.655	0.719	0.746	0.695	0.623
	Right Tilted	0.458	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.508	0.816	0.839	0.777	0.469	0.800	0.527	0.540	0.618	0.538	0.497
	Left Cheek	0.322	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.588	0.764	0.782	0.684	0.508	0.702	0.487	0.769	0.698	0.673	0.402
	Left Tilted	0.301	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.423	0.762	0.752	0.672	0.333	0.662	0.488	0.459	0.719	0.520	0.391
GSM1900_UAT	Right Cheek	0.901	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.975	1.256	1.237	1.222	0.941	1.203	0.967	1.031	1.058	1.007	0.935
	Right Tilted	1.195	0.069	0.043	0.319	0.011	0.039	0.160	0.342	1.245	1.553	1.576	1.514	1.206	1.537	1.264	1.277	1.355	1.275	1.234
	Left Cheek	0.521	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.787	0.963	0.981	0.883	0.707	0.901	0.686	0.968	0.897	0.872	0.601
	Left Tilted	0.768	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.890	1.229	1.219	1.139	0.800	1.129	0.955	0.926	1.186	0.987	0.858
WCDMA II_UAT	Right Cheek	0.941	0.066	0.096	0.321	0.040	0.034	0.157	0.302	1.015	1.296	1.277	1.262	0.981	1.243	1.007	1.071	1.098	1.047	0.975
	Right Tilted	1.172	0.069	0.043	0.319	0.011	0.039	0.160	0.342	1.222	1.530	1.553	1.491	1.183	1.514	1.241	1.254	1.332	1.252	1.211
	Left Cheek	0.479	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.745	0.921	0.939	0.841	0.665	0.859	0.644	0.926	0.855	0.830	0.559
	Left Tilted	0.842	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.964	1.303	1.293	1.213	0.874	1.203	1.029	1.000	1.260	1.061	0.932
WCDMA IV_UAT	Right Cheek	0.886	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.960	1.241	1.222	1.207	0.926	1.188	0.952	1.016	1.043	0.992	0.920
	Right Tilted	1.195	0.069	0.043	0.319	0.011	0.039	0.160	0.342	1.245	1.553	1.576	1.514	1.206	1.537	1.264	1.277	1.355	1.275	1.234
	Left Cheek	0.561	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.827	1.003	1.021	0.923	0.747	0.941	0.726	1.008	0.937	0.912	0.641
	Left Tilted	0.878	0.187	0.068	0.371	0.032	0.090	0.418	0.361	1.000	1.339	1.329	1.249	0.910	1.239	1.065	1.036	1.296	1.097	0.968
WCDMA V_UAT	Right Cheek	1.065	0.066	0.096	0.321	0.040	0.034	0.157	0.302	1.139	1.420	1.401	1.386	1.105	1.367	1.131	1.195	1.222	1.171	1.099
	Right Tilted	0.981	0.069	0.043	0.319	0.011	0.039	0.160	0.342	1.031	1.339	1.362	1.300	0.992	1.323	1.050	1.063	1.141	1.061	1.020
	Left Cheek	0.615	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.881	1.057	1.075	0.977	0.801	0.995	0.780	1.062	0.991	0.966	0.695
	Left Tilted	0.579	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.701	1.040	1.030	0.950	0.611	0.940	0.766	0.737	0.997	0.798	0.669
CDMA BC0_UAT	Right Cheek	1.181	0.066	0.096	0.321	0.040	0.034	0.157	0.302	1.255	1.536	1.517	1.502	1.221	1.483	1.247	1.311	1.338	1.287	1.215
	Right Tilted	0.945	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.995	1.303	1.326	1.264	0.956	1.287	1.014	1.027	1.105	1.025	0.984
	Left Cheek	0.688	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.954	1.130	1.148	1.050	0.874	1.068	0.853	1.135	1.064	1.039	0.768
	Left Tilted	0.742	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.864	1.203	1.193	1.113	0.774	1.103	0.929	0.900	1.160	0.961	0.832
CDMA BC1_UAT	Right Cheek	0.920	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.994	1.275	1.256	1.241	0.960	1.222	0.986	1.050	1.077	1.026	0.954
	Right Tilted	1.182	0.069	0.043	0.319	0.011	0.039	0.160	0.342	1.232	1.540	1.563	1.501	1.193	1.524	1.251	1.264	1.342	1.262	1.221
	Left Cheek	0.508	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.774	0.950	0.968	0.870	0.694	0.888	0.673	0.955	0.884	0.859	0.588
	Left Tilted	0.724	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.846	1.185	1.175	1.095	0.756	1.085	0.911	0.882	1.142	0.943	0.814
CDMA BC10_UAT	Right Cheek	1.098	0.066	0.096	0.321	0.040	0.034	0.157	0.302	1.172	1.453	1.434	1.419	1.138	1.400	1.164	1.228	1.255	1.204	1.132
	Right Tilted	0.961	0.069	0.043	0.319	0.011	0.039	0.160	0.342	1.011	1.319	1.342	1.280	0.972	1.303	1.030	1.043	1.121	1.041	1.000
	Left Cheek	0.744	0.165	0.367	0.362	0.186	0.080	0.376	0.380	1.010	1.186	1.204	1.106	0.930	1.124	0.909	1.191	1.120	1.095	0.824
	Left Tilted	0.807	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.929	1.268	1.258	1.178	0.839	1.168	0.994	0.965	1.225	1.026	0.897
LTE Band 7_UAT	Right Cheek	1.141	0.066	0.096	0.321	0.040	0.034	0.157	0.302	1.215	1.496	1.477	1.462	1.181	1.443	1.207	1.271	1.298	1.247	1.175
	Right Tilted	0.640	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.690	0.998	1.021	0.959	0.651	0.982	0.709	0.722	0.800	0.720	0.679
	Left Cheek	0.449	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.715	0.891	0.909	0.811	0.635	0.829	0.614	0.896	0.825	0.800	0.529
	Left Tilted	0.605	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.727	1.066	1.056	0.976	0.637	0.966	0.792	0.763	1.023	0.824	0.695
LTE Band 12_UAT	Right Cheek	1.154	0.066	0.096	0.321	0.040	0.034	0.157	0.302	1.228	1.509	1.490	1.475	1.194	1.456	1.220	1.284	1.311	1.260	1.188
	Right Tilted	1.005	0.069	0.043	0.319	0.011	0.039	0.160	0.342	1.055	1.363	1.386	1.324	1.016	1.347	1.074	1.087	1.165	1.085	1.044
	Left Cheek	0.886	0.165	0.367	0.362	0.186	0.080	0.376	0.380	1.152	1.328	1.346	1.248	1.072	1.266	1.051	1.333	1.262	1.237	0.966
	Left Tilted	0.879	0.187	0.068	0.371	0.032	0.090	0.418	0.361	1.001	1.340	1.330	1.250	0.911	1.240	1.066	1.037	1.297	1.098	0.969
LTE Band 13_UAT	Right Cheek	1.163	0.066	0.096	0.321	0.040	0.034	0.157	0.302	1.237	1.518	1.499	1.484	1.203	1.465	1.229	1.293	1.320	1.269	1.197
	Right Tilted	1.133	0.069	0.043	0.319	0.011	0.039	0.160	0.342	1.183	1.491	1.514	1.452	1.144	1.475	1.202	1.215	1.293	1.213	1.172
	Left Cheek	0.901	0.165	0.367	0.362	0.186	0.080	0.376	0.380	1.167	1.343	1.361	1.263	1.087	1.281	1.066	1.348	1.277	1.252	0.981
	Left Tilted	0.825	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.947	1.286	1.276	1.196	0.857	1.186	1.012	0.983	1.243	1.044	0.915
LTE Band 25_UAT	Right Cheek	0.912	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.986	1.267	1.248	1.233	0.952	1.214	0.978	1.042	1.069	1.018	0.946
	Right Tilted	1.130	0.069	0.043	0.319	0.011	0.039	0.160	0.342	1.180	1.488	1.511	1.449	1.141	1.472	1.199	1.212	1.290	1.210	1.169
	Left Cheek	0.471	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.737	0.913	0.931	0.833	0.657	0.851	0.636	0.918	0.847	0.822	0.551
	Left Tilted	0.692	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.814	1.153	1.143	1.063	0.724	1.053	0.879	0.850	1.110	0.911	0.782



FCC SAR TEST REPORT

Report No. : FA820225-02

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+5+6	1+4+6	1+6+8	1+4	1+5	1+8	1+2	1+3+6	1+7	1+2+5	1+6
		WWAN	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6	5GHz WLAN Ant 5	Bluetooth Ant 4	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 6+5	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 26_UAT	Right Cheek	1.187	0.066	0.096	0.321	0.040	0.034	0.157	0.302	1.261	1.542	1.523	1.508	1.227	1.489	1.253	1.317	1.344	1.293	1.221
	Right Tilted	0.997	0.069	0.043	0.319	0.011	0.039	0.160	0.342	1.047	1.355	1.378	1.316	1.008	1.339	1.066	1.079	1.157	1.077	1.036
	Left Cheek	0.788	0.165	0.367	0.362	0.186	0.080	0.376	0.380	1.054	1.230	1.248	1.150	0.974	1.168	0.953	1.235	1.164	1.139	0.868
	Left Tilted	0.712	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.834	1.173	1.163	1.083	0.744	1.073	0.899	0.870	1.130	0.931	0.802
LTE Band 30_UAT	Right Cheek	0.831	0.066	0.096	0.321	0.040	0.054	0.157	0.302	0.925	1.206	1.187	1.152	0.871	1.133	0.897	0.981	0.988	0.937	0.885
	Right Tilted	1.115	0.069	0.043	0.319	0.011	0.055	0.160	0.342	1.181	1.489	1.512	1.434	1.126	1.457	1.184	1.213	1.275	1.195	1.170
	Left Cheek	0.716	0.165	0.367	0.362	0.186	0.122	0.376	0.380	1.024	1.200	1.218	1.078	0.902	1.096	0.881	1.205	1.092	1.067	0.838
	Left Tilted	0.950	0.187	0.068	0.371	0.032	0.225	0.418	0.361	1.207	1.546	1.536	1.321	0.982	1.311	1.137	1.243	1.368	1.169	1.175
LTE Band 41_UAT	Right Cheek	1.166	0.066	0.096	0.321	0.040	0.034	0.157	0.302	1.240	1.521	1.502	1.487	1.206	1.468	1.232	1.296	1.323	1.272	1.200
	Right Tilted	0.499	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.549	0.857	0.880	0.818	0.510	0.841	0.568	0.581	0.659	0.579	0.538
	Left Cheek	0.371	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.637	0.813	0.831	0.733	0.557	0.751	0.536	0.818	0.747	0.722	0.451
	Left Tilted	0.474	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.596	0.935	0.925	0.845	0.506	0.835	0.661	0.632	0.892	0.693	0.564
LTE Band 66_UAT	Right Cheek	0.847	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.921	1.202	1.183	1.168	0.887	1.149	0.913	0.977	1.004	0.953	0.881
	Right Tilted	1.089	0.069	0.043	0.319	0.011	0.039	0.160	0.342	1.139	1.447	1.470	1.408	1.100	1.431	1.158	1.171	1.249	1.169	1.128
	Left Cheek	0.497	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.763	0.939	0.957	0.859	0.683	0.877	0.662	0.944	0.873	0.848	0.577
	Left Tilted	0.801	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.923	1.262	1.252	1.172	0.833	1.162	0.988	0.959	1.219	1.020	0.891
LTE Band 71_UAT	Right Cheek	0.996	0.066	0.096	0.321	0.040	0.034	0.157	0.302	1.070	1.351	1.332	1.317	1.036	1.298	1.062	1.126	1.153	1.102	1.030
	Right Tilted	0.962	0.069	0.043	0.319	0.011	0.039	0.160	0.342	1.012	1.320	1.343	1.281	0.973	1.304	1.031	1.044	1.122	1.042	1.001
	Left Cheek	0.698	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.964	1.140	1.158	1.060	0.884	1.078	0.863	1.145	1.074	1.049	0.778
	Left Tilted	0.792	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.914	1.253	1.243	1.163	0.824	1.153	0.979	0.950	1.210	1.011	0.882



FCC SAR TEST REPORT

Report No. : FA820225-02

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+5+6 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+8 Summed 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+6 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6	5GHz WLAN Ant 5	Bluetooth Ant 4	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 6+5											
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)											
GSM850_LAT	Right Cheek	0.230	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.304	0.585	0.566	0.551	0.270	0.532	0.296	0.360	0.387	0.336	0.264
	Right Tilted	0.131	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.181	0.489	0.512	0.450	0.142	0.473	0.200	0.213	0.291	0.211	0.170
	Left Cheek	0.217	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.483	0.659	0.677	0.579	0.403	0.597	0.382	0.664	0.593	0.568	0.297
	Left Tilted	0.132	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.254	0.593	0.583	0.503	0.164	0.493	0.319	0.290	0.550	0.351	0.222
GSM1900_LAT	Right Cheek	0.110	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.184	0.465	0.446	0.431	0.150	0.412	0.176	0.240	0.267	0.216	0.144
	Right Tilted	0.054	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.104	0.412	0.435	0.373	0.065	0.396	0.123	0.136	0.214	0.134	0.093
	Left Cheek	0.216	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.482	0.658	0.676	0.578	0.402	0.596	0.381	0.663	0.592	0.567	0.296
	Left Tilted	0.051	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.173	0.512	0.502	0.422	0.083	0.412	0.238	0.209	0.469	0.270	0.141
WCDMA II_LAT	Right Cheek	0.147	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.221	0.502	0.483	0.468	0.187	0.449	0.213	0.277	0.304	0.253	0.181
	Right Tilted	0.063	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.113	0.421	0.444	0.382	0.074	0.405	0.132	0.145	0.223	0.143	0.102
	Left Cheek	0.277	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.543	0.719	0.737	0.639	0.463	0.657	0.442	0.724	0.653	0.628	0.357
	Left Tilted	0.080	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.202	0.541	0.531	0.451	0.112	0.441	0.267	0.238	0.498	0.299	0.170
WCDMA IV_LAT	Right Cheek	0.166	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.240	0.521	0.502	0.487	0.206	0.468	0.232	0.296	0.323	0.272	0.200
	Right Tilted	0.081	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.131	0.439	0.462	0.400	0.092	0.423	0.150	0.163	0.241	0.161	0.120
	Left Cheek	0.369	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.635	0.811	0.829	0.731	0.555	0.749	0.534	0.816	0.745	0.720	0.449
	Left Tilted	0.099	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.221	0.560	0.550	0.470	0.131	0.460	0.286	0.257	0.517	0.318	0.189
WCDMA V_LAT	Right Cheek	0.350	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.424	0.705	0.686	0.671	0.390	0.652	0.416	0.480	0.507	0.456	0.384
	Right Tilted	0.214	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.264	0.572	0.595	0.533	0.225	0.556	0.283	0.296	0.374	0.294	0.253
	Left Cheek	0.361	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.627	0.803	0.821	0.723	0.547	0.741	0.526	0.808	0.737	0.712	0.441
	Left Tilted	0.241	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.363	0.702	0.692	0.612	0.273	0.602	0.428	0.399	0.659	0.460	0.331
CDMA BC0_LAT	Right Cheek	0.506	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.580	0.861	0.842	0.827	0.546	0.808	0.572	0.636	0.663	0.612	0.540
	Right Tilted	0.227	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.277	0.585	0.608	0.546	0.238	0.569	0.296	0.309	0.387	0.307	0.266
	Left Cheek	0.394	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.660	0.836	0.854	0.756	0.580	0.774	0.559	0.841	0.770	0.745	0.474
	Left Tilted	0.224	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.346	0.685	0.675	0.595	0.256	0.585	0.411	0.382	0.642	0.443	0.314
CDMA BC1_LAT	Right Cheek	0.203	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.277	0.558	0.539	0.524	0.243	0.505	0.269	0.333	0.360	0.309	0.237
	Right Tilted	0.113	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.163	0.471	0.494	0.432	0.124	0.455	0.182	0.195	0.273	0.193	0.152
	Left Cheek	0.319	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.585	0.761	0.779	0.681	0.505	0.699	0.484	0.766	0.695	0.670	0.399
	Left Tilted	0.094	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.216	0.555	0.545	0.465	0.126	0.455	0.281	0.252	0.512	0.313	0.184
CDMA BC10_LAT	Right Cheek	0.402	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.476	0.757	0.738	0.723	0.442	0.704	0.468	0.532	0.559	0.508	0.436
	Right Tilted	0.217	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.267	0.575	0.598	0.536	0.228	0.559	0.286	0.299	0.377	0.297	0.256
	Left Cheek	0.375	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.641	0.817	0.835	0.737	0.561	0.755	0.540	0.822	0.751	0.726	0.455
	Left Tilted	0.230	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.352	0.691	0.681	0.601	0.262	0.591	0.417	0.388	0.648	0.449	0.320
LTE Band 7_LAT	Right Cheek	0.309	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.383	0.664	0.645	0.630	0.349	0.611	0.375	0.439	0.466	0.415	0.343
	Right Tilted	0.083	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.133	0.441	0.464	0.402	0.094	0.425	0.152	0.165	0.243	0.163	0.122
	Left Cheek	0.159	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.425	0.601	0.619	0.521	0.345	0.539	0.324	0.606	0.535	0.510	0.239
	Left Tilted	0.160	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.282	0.621	0.611	0.531	0.192	0.521	0.347	0.318	0.578	0.379	0.250
LTE Band 12_LAT	Right Cheek	0.163	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.237	0.518	0.499	0.484	0.203	0.465	0.229	0.293	0.320	0.269	0.197
	Right Tilted	0.086	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.136	0.444	0.467	0.405	0.097	0.428	0.155	0.168	0.246	0.166	0.125
	Left Cheek	0.168	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.434	0.610	0.628	0.530	0.354	0.548	0.333	0.615	0.544	0.519	0.248
	Left Tilted	0.089	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.211	0.550	0.540	0.460	0.121	0.450	0.276	0.247	0.507	0.308	0.179
LTE Band 13_LAT	Right Cheek	0.265	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.339	0.620	0.601	0.586	0.305	0.567	0.331	0.395	0.422	0.371	0.299
	Right Tilted	0.164	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.214	0.522	0.545	0.483	0.175	0.506	0.233	0.246	0.324	0.244	0.203
	Left Cheek	0.261	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.527	0.703	0.721	0.623	0.447	0.641	0.426	0.708	0.637	0.612	0.341
	Left Tilted	0.181	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.303	0.642	0.632	0.552	0.213	0.542	0.368	0.339	0.599	0.400	0.271
LTE Band 25_LAT	Right Cheek	0.142	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.216	0.497	0.478	0.463	0.182	0.444	0.208	0.272	0.299	0.248	0.176
	Right Tilted	0.080	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.130	0.438	0.461	0.399	0.091	0.422	0.149	0.162	0.240	0.160	0.119
	Left Cheek	0.291	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.557	0.733	0.751	0.653	0.477	0.671	0.456	0.738	0.667	0.642	0.371
	Left Tilted	0.088	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.210	0.549	0.539	0.459	0.120	0.449	0.275	0.246	0.506	0.307	0.178



FCC SAR TEST REPORT

Report No. : FA820225-02

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+5+6	1+4+6	1+6+8	1+4	1+5	1+8	1+2	1+3+6	1+7	1+2+5	1+6
		WWAN	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6	5GHz WLAN Ant 5	Bluetooth Ant 4	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 6+5	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 26_LAT	Right Cheek	0.365	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.439	0.720	0.701	0.686	0.405	0.667	0.431	0.495	0.522	0.471	0.399
	Right Tilted	0.216	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.266	0.574	0.597	0.535	0.227	0.558	0.285	0.298	0.376	0.296	0.255
	Left Cheek	0.320	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.586	0.762	0.780	0.682	0.506	0.700	0.485	0.767	0.696	0.671	0.400
	Left Tilted	0.222	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.344	0.683	0.673	0.593	0.254	0.583	0.409	0.380	0.640	0.441	0.312
LTE Band 30_LAT	Right Cheek	0.246	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.320	0.601	0.582	0.567	0.286	0.548	0.312	0.376	0.403	0.352	0.280
	Right Tilted	0.081	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.131	0.439	0.462	0.400	0.092	0.423	0.150	0.163	0.241	0.161	0.120
	Left Cheek	0.153	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.419	0.595	0.613	0.515	0.339	0.533	0.318	0.600	0.529	0.504	0.233
	Left Tilted	0.119	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.241	0.580	0.570	0.490	0.151	0.480	0.306	0.277	0.537	0.338	0.209
LTE Band 41_LAT	Right Cheek	0.173	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.247	0.528	0.509	0.494	0.213	0.475	0.239	0.303	0.330	0.279	0.207
	Right Tilted	0.067	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.117	0.425	0.448	0.386	0.078	0.409	0.136	0.149	0.227	0.147	0.106
	Left Cheek	0.114	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.380	0.556	0.574	0.476	0.300	0.494	0.279	0.561	0.490	0.465	0.194
	Left Tilted	0.042	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.164	0.503	0.493	0.413	0.074	0.403	0.229	0.200	0.460	0.261	0.132
LTE Band 66_LAT	Right Cheek	0.128	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.202	0.483	0.464	0.449	0.168	0.430	0.194	0.258	0.285	0.234	0.162
	Right Tilted	0.085	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.135	0.443	0.466	0.404	0.096	0.427	0.154	0.167	0.245	0.165	0.124
	Left Cheek	0.358	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.624	0.800	0.818	0.720	0.544	0.738	0.523	0.805	0.734	0.709	0.438
	Left Tilted	0.064	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.186	0.525	0.515	0.435	0.096	0.425	0.251	0.222	0.482	0.283	0.154
LTE Band 71_LAT	Right Cheek	0.276	0.066	0.096	0.321	0.040	0.034	0.157	0.302	0.350	0.631	0.612	0.597	0.316	0.578	0.342	0.406	0.433	0.382	0.310
	Right Tilted	0.183	0.069	0.043	0.319	0.011	0.039	0.160	0.342	0.233	0.541	0.564	0.502	0.194	0.525	0.252	0.265	0.343	0.263	0.222
	Left Cheek	0.384	0.165	0.367	0.362	0.186	0.080	0.376	0.380	0.650	0.826	0.844	0.746	0.570	0.764	0.549	0.831	0.760	0.735	0.464
	Left Tilted	0.226	0.187	0.068	0.371	0.032	0.090	0.418	0.361	0.348	0.687	0.677	0.597	0.258	0.587	0.413	0.384	0.644	0.445	0.316



<Bluetooth Power with WiFi off>

WWAN Band	Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
		WWAN	Bluetooth Ant 4	
		1g SAR (W/kg)	1g SAR (W/kg)	
GSM850_UAT	Right Cheek	0.589	0.054	0.643
	Right Tilted	0.458	0.055	0.513
	Left Cheek	0.322	0.122	0.444
	Left Tilted	0.301	0.225	0.526
GSM1900_UAT	Right Cheek	1.011	0.054	1.065
	Right Tilted	1.341	0.055	1.396
	Left Cheek	0.584	0.122	0.706
	Left Tilted	0.861	0.225	1.086
WCDMA II_UAT	Right Cheek	1.056	0.054	1.110
	Right Tilted	1.315	0.055	1.370
	Left Cheek	0.538	0.122	0.660
	Left Tilted	0.945	0.225	1.170
WCDMA IV_UAT	Right Cheek	0.994	0.054	1.048
	Right Tilted	1.341	0.055	1.396
	Left Cheek	0.629	0.122	0.751
	Left Tilted	0.985	0.225	1.210
WCDMA V_UAT	Right Cheek	1.065	0.054	1.119
	Right Tilted	0.981	0.055	1.036
	Left Cheek	0.615	0.122	0.737
	Left Tilted	0.579	0.225	0.804
CDMA BC0_UAT	Right Cheek	1.181	0.054	1.235
	Right Tilted	0.945	0.055	1.000
	Left Cheek	0.688	0.122	0.810
	Left Tilted	0.742	0.225	0.967
CDMA BC1_UAT	Right Cheek	1.032	0.054	1.086
	Right Tilted	1.326	0.055	1.381
	Left Cheek	0.570	0.122	0.692
	Left Tilted	0.793	0.225	1.018
CDMA BC10_UAT	Right Cheek	1.098	0.054	1.152
	Right Tilted	0.961	0.055	1.016
	Left Cheek	0.744	0.122	0.866
	Left Tilted	0.807	0.225	1.032
LTE Band 7_UAT	Right Cheek	1.280	0.054	1.334
	Right Tilted	0.640	0.055	0.695
	Left Cheek	0.449	0.122	0.571
	Left Tilted	0.605	0.225	0.830
LTE Band 12_UAT	Right Cheek	1.154	0.054	1.208
	Right Tilted	1.005	0.055	1.060
	Left Cheek	0.886	0.122	1.008
	Left Tilted	0.879	0.225	1.104
LTE Band 13_UAT	Right Cheek	1.163	0.054	1.217
	Right Tilted	1.133	0.055	1.188
	Left Cheek	0.901	0.122	1.023
	Left Tilted	0.825	0.225	1.050
LTE Band 25_UAT	Right Cheek	1.024	0.054	1.078
	Right Tilted	1.268	0.055	1.323
	Left Cheek	0.529	0.122	0.651
	Left Tilted	0.776	0.225	1.001

WWAN Band	Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
		WWAN	Bluetooth Ant 4	
		1g SAR (W/kg)	1g SAR (W/kg)	
LTE Band 26_UAT	Right Cheek	1.187	0.054	1.241
	Right Tilted	0.997	0.055	1.052
	Left Cheek	0.788	0.122	0.910
	Left Tilted	0.712	0.225	0.937
LTE Band 30_UAT	Right Cheek	0.997	0.054	1.051
	Right Tilted	1.338	0.055	1.393
	Left Cheek	0.858	0.122	0.980
	Left Tilted	1.139	0.225	1.364
LTE Band 41_UAT	Right Cheek	1.309	0.054	1.363
	Right Tilted	0.560	0.055	0.615
	Left Cheek	0.416	0.122	0.538
	Left Tilted	0.532	0.225	0.757
LTE Band 66_UAT	Right Cheek	0.951	0.054	1.005
	Right Tilted	1.222	0.055	1.277
	Left Cheek	0.557	0.122	0.679
	Left Tilted	0.899	0.225	1.124
LTE Band 71_UAT	Right Cheek	0.996	0.054	1.050
	Right Tilted	0.962	0.055	1.017
	Left Cheek	0.698	0.122	0.820
	Left Tilted	0.792	0.225	1.017



WWAN Band	Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
		WWAN	Bluetooth Ant 4	
		1g SAR (W/kg)	1g SAR (W/kg)	
GSM850_LAT	Right Cheek	0.230	0.054	0.284
	Right Tilted	0.131	0.055	0.186
	Left Cheek	0.217	0.122	0.339
	Left Tilted	0.132	0.225	0.357
GSM1900_LAT	Right Cheek	0.110	0.054	0.164
	Right Tilted	0.054	0.055	0.109
	Left Cheek	0.216	0.122	0.338
	Left Tilted	0.051	0.225	0.276
WCDMA II_LAT	Right Cheek	0.147	0.054	0.201
	Right Tilted	0.063	0.055	0.118
	Left Cheek	0.277	0.122	0.399
	Left Tilted	0.080	0.225	0.305
WCDMA IV_LAT	Right Cheek	0.166	0.054	0.220
	Right Tilted	0.081	0.055	0.136
	Left Cheek	0.369	0.122	0.491
	Left Tilted	0.099	0.225	0.324
WCDMA V_LAT	Right Cheek	0.350	0.054	0.404
	Right Tilted	0.214	0.055	0.269
	Left Cheek	0.361	0.122	0.483
	Left Tilted	0.241	0.225	0.466
CDMA BC0_LAT	Right Cheek	0.506	0.054	0.560
	Right Tilted	0.227	0.055	0.282
	Left Cheek	0.394	0.122	0.516
	Left Tilted	0.224	0.225	0.449
CDMA BC1_LAT	Right Cheek	0.228	0.054	0.282
	Right Tilted	0.127	0.055	0.182
	Left Cheek	0.358	0.122	0.480
	Left Tilted	0.106	0.225	0.331
CDMA BC10_LAT	Right Cheek	0.402	0.054	0.456
	Right Tilted	0.217	0.055	0.272
	Left Cheek	0.375	0.122	0.497
	Left Tilted	0.230	0.225	0.455
LTE Band 7_LAT	Right Cheek	0.309	0.054	0.363
	Right Tilted	0.083	0.055	0.138
	Left Cheek	0.159	0.122	0.281
	Left Tilted	0.160	0.225	0.385
LTE Band 12_LAT	Right Cheek	0.163	0.054	0.217
	Right Tilted	0.086	0.055	0.141
	Left Cheek	0.168	0.122	0.290
	Left Tilted	0.089	0.225	0.314
LTE Band 13_LAT	Right Cheek	0.265	0.054	0.319
	Right Tilted	0.164	0.055	0.219
	Left Cheek	0.261	0.122	0.383
	Left Tilted	0.181	0.225	0.406
LTE Band 25_LAT	Right Cheek	0.160	0.054	0.214
	Right Tilted	0.089	0.055	0.144
	Left Cheek	0.326	0.122	0.448
	Left Tilted	0.098	0.225	0.323

WWAN Band	Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
		WWAN	Bluetooth Ant 4	
		1g SAR (W/kg)	1g SAR (W/kg)	
LTE Band 26_LAT	Right Cheek	0.365	0.054	0.419
	Right Tilted	0.216	0.055	0.271
	Left Cheek	0.320	0.122	0.442
	Left Tilted	0.222	0.225	0.447
LTE Band 30_LAT	Right Cheek	0.246	0.054	0.300
	Right Tilted	0.081	0.055	0.136
	Left Cheek	0.153	0.122	0.275
	Left Tilted	0.119	0.225	0.344
LTE Band 41_LAT	Right Cheek	0.173	0.054	0.227
	Right Tilted	0.067	0.055	0.122
	Left Cheek	0.114	0.122	0.236
	Left Tilted	0.042	0.225	0.267
LTE Band 66_LAT	Right Cheek	0.128	0.054	0.182
	Right Tilted	0.085	0.055	0.140
	Left Cheek	0.358	0.122	0.480
	Left Tilted	0.064	0.225	0.289
LTE Band 71_LAT	Right Cheek	0.276	0.054	0.330
	Right Tilted	0.183	0.055	0.238
	Left Cheek	0.384	0.122	0.506
	Left Tilted	0.226	0.225	0.451

<Bluetooth Power with WWAN off>

Exposure Position	2	3	4	5	6	7	8	2+5 Summed 1g SAR (W/kg)	3+6 Summed 1g SAR (W/kg)	4+6 Summed 1g SAR (W/kg)	5+6 Summed 1g SAR (W/kg)	6+8 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6	5GHz WLAN Ant 5	Bluetooth Ant 4	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 6+5					
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
Right Cheek	0.253	0.289	1.115	0.206	0.054	0.479	1.042	0.459	0.343	1.169	0.260	1.096
Right Tilted	0.299	0.120	1.215	0.084	0.055	0.652	1.052	0.383	0.175	1.270	0.139	1.107
Left Cheek	0.604	1.307	1.238	0.757	0.122	1.298	1.224	1.361	1.429	1.360	0.879	1.346
Left Tilted	0.745	0.197	1.338	0.251	0.225	1.230	1.202	0.996	0.422	1.563	0.476	1.427

**14.2 Hotspot Exposure Conditions****<WWAN on with WiFi on and Bluetooth Power >**

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+5+6 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+8 Summed 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 4 1g SAR (W/kg)	2.4GHz WLAN Ant 5 1g SAR (W/kg)	5GHz WLAN Ant 6 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	2.4GHz WLAN Ant 4+5 1g SAR (W/kg)	5GHz WLAN Ant 6+5 1g SAR (W/kg)											
GSM850_UAT	Front	0.167	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.389	0.529	0.533	0.521	0.381	0.525	0.263	0.280	0.505	0.477	0.175
	Back	0.154	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.385	0.513	0.517	0.501	0.373	0.505	0.283	0.333	0.529	0.502	0.166
	Left side	0.055								0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
	Right side	0.056	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.220	0.175	0.416	0.172	0.217	0.413	0.078	0.100	0.168	0.239	0.059
	Top side	0.087	0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.159	0.476	0.475	0.463	0.146	0.462	0.238	0.124	0.483	0.297	0.100
GSM1900_UAT	Front	0.469	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.691	0.831	0.835	0.823	0.683	0.827	0.565	0.582	0.807	0.779	0.477
	Back	0.492	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.723	0.851	0.855	0.839	0.711	0.843	0.621	0.671	0.867	0.840	0.504
	Left side	0.260								0.260	0.260	0.260	0.260	0.260	0.260	0.260	0.260	0.260	0.260	0.260
	Right side	0.012	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.176	0.131	0.372	0.128	0.173	0.369	0.034	0.056	0.124	0.195	0.015
	Top side	1.082	0.151	0.024	0.376	0.059	0.013	0.396	0.357	1.154	1.471	1.452	1.458	1.141	1.439	1.233	1.119	1.478	1.292	1.095
WCDMA II_UAT	Front	0.522	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.744	0.884	0.888	0.876	0.736	0.880	0.618	0.635	0.860	0.832	0.530
	Back	0.554	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.785	0.913	0.917	0.901	0.773	0.905	0.683	0.733	0.929	0.902	0.566
	Left side	0.282								0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282
	Right side	0.018	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.182	0.137	0.378	0.134	0.179	0.375	0.040	0.062	0.130	0.201	0.021
	Top side	1.167	0.151	0.024	0.376	0.059	0.013	0.396	0.357	1.239	1.556	1.537	1.543	1.226	1.524	1.318	1.204	1.563	1.377	1.180
WCDMA IV_UAT	Front	0.633	0.096	0.105	0.354	0.214	0.028	0.338	0.358	0.875	1.015	1.019	0.987	0.847	0.991	0.729	0.766	0.971	0.943	0.661
	Back	0.632	0.129	0.167	0.347	0.219	0.038	0.375	0.351	0.889	1.017	1.021	0.979	0.851	0.983	0.761	0.837	1.007	0.980	0.670
	Left side	0.251								0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251
	Right side	0.019	0.022	0.041	0.116	0.161	0.007	0.112	0.357	0.187	0.142	0.383	0.135	0.180	0.376	0.041	0.067	0.131	0.202	0.026
	Top side	1.161	0.151	0.024	0.376	0.059	0.045	0.396	0.357	1.265	1.582	1.563	1.537	1.220	1.518	1.312	1.230	1.557	1.371	1.206
WCDMA V_UAT	Front	0.311	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.533	0.673	0.677	0.665	0.525	0.669	0.407	0.424	0.649	0.621	0.319
	Back	0.332	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.563	0.691	0.695	0.679	0.551	0.683	0.461	0.511	0.707	0.680	0.344
	Left side	0.134								0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134
	Right side	0.203	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.367	0.322	0.563	0.319	0.364	0.560	0.225	0.247	0.315	0.386	0.206
	Top side	0.153	0.151	0.024	0.376	0.059	0.013	0.396	0.357	0.225	0.542	0.523	0.529	0.212	0.510	0.304	0.190	0.549	0.363	0.166
CDMA BC0_UAT	Front	0.288	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.510	0.650	0.654	0.642	0.502	0.646	0.384	0.401	0.626	0.598	0.296
	Back	0.314	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.545	0.673	0.677	0.661	0.533	0.665	0.443	0.493	0.689	0.662	0.326
	Left side	0.089								0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089
	Right side	0.169	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.333	0.288	0.529	0.285	0.330	0.526	0.191	0.213	0.281	0.352	0.172
	Top side	0.154	0.151	0.024	0.376	0.059	0.013	0.396	0.357	0.226	0.543	0.524	0.530	0.213	0.511	0.305	0.191	0.550	0.364	0.167
CDMA BC1_UAT	Front	0.449	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.671	0.811	0.815	0.803	0.663	0.807	0.545	0.562	0.787	0.759	0.457
	Back	0.538	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.769	0.897	0.901	0.885	0.757	0.889	0.667	0.717	0.913	0.886	0.550
	Left side	0.259								0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259
	Right side	0.015	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.179	0.134	0.375	0.131	0.176	0.372	0.037	0.059	0.127	0.198	0.018
	Top side	1.155	0.151	0.024	0.376	0.059	0.013	0.396	0.357	1.227	1.544	1.525	1.531	1.214	1.512	1.306	1.192	1.551	1.365	1.168
CDMA BC10_UAT	Front	0.329	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.551	0.691	0.695	0.683	0.543	0.687	0.425	0.442	0.667	0.639	0.337
	Back	0.338	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.569	0.697	0.701	0.685	0.557	0.689	0.467	0.517	0.713	0.686	0.350
	Left side	0.102								0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102
	Right side	0.221	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.385	0.340	0.581	0.337	0.382	0.578	0.243	0.265	0.333	0.404	0.224
	Top side	0.160	0.151	0.024	0.376	0.059	0.013	0.396	0.357	0.232	0.549	0.530	0.536	0.219	0.517	0.311	0.197	0.556	0.370	0.173
LTE Band 7_UAT	Front	0.521	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.743	0.883	0.887	0.875	0.735	0.879	0.617	0.634	0.859	0.831	0.529
	Back	0.917	0.129	0.167	0.347	0.219	0.012	0.375	0.351	1.148	1.276	1.280	1.264	1.136	1.268	1.046	1.096	1.292	1.265	0.929
	Left side	0.687								0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687
	Right side	0.164	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.328	0.283	0.524	0.280	0.325	0.521	0.186	0.208	0.276	0.347	0.167
	Top side	0.436	0.151	0.024	0.376	0.059	0.013	0.396	0.357	0.508	0.825	0.806	0.812	0.495	0.793	0.587	0.473	0.832	0.646	0.449



FCC SAR TEST REPORT

Report No. : FA820225-02

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+5+6 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+8 Summed 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 4 1g SAR (W/kg)	2.4GHz WLAN Ant 5 1g SAR (W/kg)	5GHz WLAN Ant 6 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	2.4GHz WLAN Ant 4+5 1g SAR (W/kg)	5GHz WLAN Ant 6+5 1g SAR (W/kg)											
LTE Band 12_UAT	Front	0.224	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.446	0.586	0.590	0.578	0.438	0.582	0.320	0.337	0.562	0.534	0.232
	Back	0.234	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.465	0.593	0.597	0.581	0.453	0.585	0.363	0.413	0.609	0.582	0.246
	Left side	0.114								0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114
	Right side	0.095	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.259	0.214	0.455	0.211	0.256	0.452	0.117	0.139	0.207	0.278	0.098
	Top side	0.076	0.151	0.024	0.376	0.059	0.013	0.396	0.357	0.148	0.465	0.446	0.452	0.135	0.433	0.227	0.113	0.472	0.286	0.089
LTE Band 13_UAT	Front	0.251	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.473	0.613	0.617	0.605	0.465	0.609	0.347	0.364	0.589	0.561	0.259
	Back	0.265	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.496	0.624	0.628	0.612	0.484	0.616	0.394	0.444	0.640	0.613	0.277
	Left side	0.147								0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147
	Right side	0.127	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.291	0.246	0.487	0.243	0.288	0.484	0.149	0.171	0.239	0.310	0.130
	Top side	0.078	0.151	0.024	0.376	0.059	0.013	0.396	0.357	0.150	0.467	0.448	0.454	0.137	0.435	0.229	0.115	0.474	0.288	0.091
LTE Band 25_UAT	Front	0.477	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.699	0.839	0.843	0.831	0.691	0.835	0.573	0.590	0.815	0.787	0.485
	Back	0.516	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.747	0.875	0.879	0.863	0.735	0.867	0.645	0.695	0.891	0.864	0.528
	Left side	0.289								0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289	0.289
	Right side	0.014	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.178	0.133	0.374	0.130	0.175	0.371	0.036	0.058	0.126	0.197	0.017
	Top side	1.105	0.151	0.024	0.376	0.059	0.013	0.396	0.357	1.177	1.494	1.475	1.481	1.164	1.462	1.256	1.142	1.501	1.315	1.118
LTE Band 26_UAT	Front	0.287	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.509	0.649	0.653	0.641	0.501	0.645	0.383	0.400	0.625	0.597	0.295
	Back	0.313	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.544	0.672	0.676	0.660	0.532	0.664	0.442	0.492	0.688	0.661	0.325
	Left side	0.137								0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137
	Right side	0.208	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.372	0.327	0.568	0.324	0.369	0.565	0.230	0.252	0.320	0.391	0.211
	Top side	0.135	0.151	0.024	0.376	0.059	0.013	0.396	0.357	0.207	0.524	0.505	0.511	0.194	0.492	0.286	0.172	0.531	0.345	0.148
LTE Band 30_UAT	Front	0.383	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.605	0.745	0.749	0.737	0.597	0.741	0.479	0.496	0.721	0.693	0.391
	Back	0.373	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.604	0.732	0.736	0.720	0.592	0.724	0.502	0.552	0.748	0.721	0.385
	Left side	0.237								0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237
	Right side	0.071	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.235	0.190	0.431	0.187	0.232	0.428	0.093	0.115	0.183	0.254	0.074
	Top side	1.089	0.151	0.024	0.376	0.059	0.013	0.396	0.357	1.161	1.478	1.459	1.465	1.148	1.446	1.240	1.126	1.485	1.299	1.102
LTE Band 41_UAT	Front	0.391	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.613	0.753	0.757	0.745	0.605	0.749	0.487	0.504	0.729	0.701	0.399
	Back	0.556	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.787	0.915	0.919	0.903	0.775	0.907	0.685	0.735	0.931	0.904	0.568
	Left side	0.442								0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
	Right side	0.158	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.322	0.277	0.518	0.274	0.319	0.515	0.180	0.202	0.270	0.341	0.161
	Top side	0.353	0.151	0.024	0.376	0.059	0.013	0.396	0.357	0.425	0.742	0.723	0.729	0.412	0.710	0.504	0.390	0.749	0.563	0.366
LTE Band 66_UAT	Front	0.570	0.096	0.105	0.354	0.214	0.028	0.338	0.358	0.812	0.952	0.956	0.924	0.784	0.928	0.666	0.703	0.908	0.880	0.598
	Back	0.601	0.129	0.167	0.347	0.219	0.038	0.375	0.351	0.858	0.986	0.990	0.948	0.820	0.952	0.730	0.806	0.976	0.949	0.639
	Left side	0.290								0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290
	Right side	0.022	0.022	0.041	0.116	0.161	0.007	0.112	0.357	0.190	0.145	0.386	0.138	0.183	0.379	0.044	0.070	0.134	0.205	0.029
	Top side	1.049	0.151	0.024	0.376	0.059	0.045	0.396	0.357	1.153	1.470	1.451	1.425	1.108	1.406	1.200	1.118	1.445	1.259	1.094
LTE Band 71_UAT	Front	0.204	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.426	0.566	0.570	0.558	0.418	0.562	0.300	0.317	0.542	0.514	0.212
	Back	0.223	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.454	0.582	0.586	0.570	0.442	0.574	0.352	0.402	0.598	0.571	0.235
	Left side	0.102								0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102
	Right side	0.060	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.224	0.179	0.420	0.176	0.221	0.417	0.082	0.104	0.172	0.243	0.063
	Top side	0.083	0.151	0.024	0.376	0.059	0.013	0.396	0.357	0.155	0.472	0.453	0.459	0.142	0.440	0.234	0.120	0.479	0.293	0.096



FCC SAR TEST REPORT

Report No. : FA820225-02

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+5+6 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+8 Summed 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+6 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6	5GHz WLAN Ant 5	Bluetooth Ant 4	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 6+5											
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)											
GSM850_LAT	Front	0.263	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.485	0.625	0.629	0.617	0.477	0.621	0.359	0.376	0.601	0.573	0.271
	Back	0.265	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.496	0.624	0.628	0.612	0.484	0.616	0.394	0.444	0.640	0.613	0.277
	Left side	0.227								0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227
	Right side	0.129	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.293	0.248	0.489	0.245	0.290	0.486	0.151	0.173	0.241	0.312	0.132
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	0.073								0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
GSM1900_LAT	Front	0.622	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.844	0.984	0.988	0.976	0.836	0.980	0.718	0.735	0.960	0.932	0.630
	Back	0.636	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.867	0.995	0.999	0.983	0.855	0.987	0.765	0.815	1.011	0.984	0.648
	Left side	0.063								0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
	Right side	0.126	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.290	0.245	0.486	0.242	0.287	0.483	0.148	0.170	0.238	0.309	0.129
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	0.728								0.728	0.728	0.728	0.728	0.728	0.728	0.728	0.728	0.728	0.728	0.728
WCDMA II_LAT	Front	0.883	0.096	0.105	0.354	0.214	0.008	0.338	0.358	1.105	1.245	1.249	1.237	1.097	1.241	0.979	0.996	1.221	1.193	0.891
	Back	1.029	0.129	0.167	0.347	0.219	0.012	0.375	0.351	1.260	1.388	1.392	1.376	1.248	1.380	1.158	1.208	1.404	1.377	1.041
	Left side	0.088								0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088
	Right side	0.223	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.387	0.342	0.583	0.339	0.384	0.580	0.245	0.267	0.335	0.406	0.226
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	1.144								1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144
WCDMA IV_LAT	Front	0.966	0.096	0.105	0.354	0.214	0.008	0.338	0.358	1.188	1.328	1.332	1.320	1.180	1.324	1.062	1.079	1.304	1.276	0.974
	Back	0.973	0.129	0.167	0.347	0.219	0.012	0.375	0.351	1.204	1.332	1.336	1.320	1.192	1.324	1.102	1.152	1.348	1.321	0.985
	Left side	0.104								0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104
	Right side	0.220	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.384	0.339	0.580	0.336	0.381	0.577	0.242	0.264	0.332	0.403	0.223
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	1.187								1.187	1.187	1.187	1.187	1.187	1.187	1.187	1.187	1.187	1.187	1.187
WCDMA V_LAT	Front	0.498	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.720	0.860	0.864	0.852	0.712	0.856	0.594	0.611	0.836	0.808	0.506
	Back	0.471	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.702	0.830	0.834	0.818	0.690	0.822	0.600	0.650	0.846	0.819	0.483
	Left side	0.371								0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371
	Right side	0.484	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.648	0.603	0.844	0.600	0.645	0.841	0.506	0.528	0.596	0.667	0.487
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	0.116								0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116
CDMA BC0_LAT	Front	0.471	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.693	0.833	0.837	0.825	0.685	0.829	0.567	0.584	0.809	0.781	0.479
	Back	0.488	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.719	0.847	0.851	0.835	0.707	0.839	0.617	0.667	0.863	0.836	0.500
	Left side	0.390								0.390	0.390	0.390	0.390	0.390	0.390	0.390	0.390	0.390	0.390	0.390
	Right side	0.558	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.722	0.677	0.918	0.674	0.719	0.915	0.580	0.602	0.670	0.741	0.561
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	0.155								0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155
CDMA BC1_LAT	Front	1.089	0.096	0.105	0.354	0.214	0.008	0.338	0.358	1.311	1.451	1.455	1.443	1.303	1.447	1.185	1.202	1.427	1.399	1.097
	Back	1.033	0.129	0.167	0.347	0.219	0.012	0.375	0.351	1.264	1.392	1.396	1.380	1.252	1.384	1.162	1.212	1.408	1.381	1.045
	Left side	0.110								0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110
	Right side	0.215	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.379	0.334	0.575	0.331	0.376	0.572	0.237	0.259	0.327	0.398	0.218
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	1.062								1.062	1.062	1.062	1.062	1.062	1.062	1.062	1.062	1.062	1.062	1.062
CDMA BC10_LAT	Front	0.488	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.710	0.850	0.854	0.842	0.702	0.846	0.584	0.601	0.826	0.798	0.496
	Back	0.478	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.709	0.837	0.841	0.825	0.697	0.829	0.607	0.657	0.853	0.826	0.490
	Left side	0.407								0.407	0.407	0.407	0.407	0.407	0.407	0.407	0.407	0.407	0.407	0.407
	Right side	0.542	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.706	0.661	0.902	0.658	0.703	0.899	0.564	0.586	0.654	0.725	0.545
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	0.126								0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126
LTE Band 7_LAT	Front	0.688	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.910	1.050	1.054	1.042	0.902	1.046	0.784	0.801	1.026	0.998	0.696
	Back	0.605	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.836	0.964	0.968	0.952	0.824	0.956	0.734	0.784	0.980	0.953	0.617
	Left side	0.052								0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052
	Right side	0.334	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.498	0.453	0.694	0.450	0.495	0.691	0.356	0.378	0.446	0.517	0.337
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	0.412								0.412	0.412	0.412	0.412	0.412	0.412	0.412	0.412	0.412	0.412	0.412



FCC SAR TEST REPORT

Report No. : FA820225-02

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+5+6	1+4+6	1+6+8	1+4	1+5	1+8	1+2	1+3+6	1+7	1+2+5	1+6
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 4 1g SAR (W/kg)	2.4GHz WLAN Ant 5 1g SAR (W/kg)	5GHz WLAN Ant 6 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	2.4GHz WLAN Ant 4+5 1g SAR (W/kg)	5GHz WLAN Ant 6+5 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
LTE Band 12_LAT	Front	0.277	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.499	0.639	0.643	0.631	0.491	0.635	0.373	0.390	0.615	0.587	0.285
	Back	0.271	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.502	0.630	0.634	0.618	0.490	0.622	0.400	0.450	0.646	0.619	0.283
	Left side	0.247								0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247
	Right side	0.191	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.355	0.310	0.551	0.307	0.352	0.548	0.213	0.235	0.303	0.374	0.194
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	0.046								0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
LTE Band 13_LAT	Front	0.405	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.627	0.767	0.771	0.759	0.619	0.763	0.501	0.518	0.743	0.715	0.413
	Back	0.386	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.617	0.745	0.749	0.733	0.605	0.737	0.515	0.565	0.761	0.734	0.398
	Left side	0.343								0.343	0.343	0.343	0.343	0.343	0.343	0.343	0.343	0.343	0.343	0.343
	Right side	0.349	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.513	0.468	0.709	0.465	0.510	0.706	0.371	0.393	0.461	0.532	0.352
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	0.074								0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074
LTE Band 25_LAT	Front	1.049	0.096	0.105	0.354	0.214	0.008	0.338	0.358	1.271	1.411	1.415	1.403	1.263	1.407	1.145	1.162	1.387	1.359	1.057
	Back	1.027	0.129	0.167	0.347	0.219	0.012	0.375	0.351	1.258	1.386	1.390	1.374	1.246	1.378	1.156	1.206	1.402	1.375	1.039
	Left side	0.101								0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101
	Right side	0.220	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.384	0.339	0.580	0.336	0.381	0.577	0.242	0.264	0.332	0.403	0.223
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	1.183								1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183
LTE Band 26_LAT	Front	0.441	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.663	0.803	0.807	0.795	0.655	0.799	0.537	0.554	0.779	0.751	0.449
	Back	0.416	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.647	0.775	0.779	0.763	0.635	0.767	0.545	0.595	0.791	0.764	0.428
	Left side	0.324								0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324	0.324
	Right side	0.478	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.642	0.597	0.838	0.594	0.639	0.835	0.500	0.522	0.590	0.661	0.481
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	0.111								0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111
LTE Band 30_LAT	Front	0.822	0.096	0.105	0.354	0.214	0.008	0.338	0.358	1.044	1.184	1.188	1.176	1.036	1.180	0.918	0.935	1.160	1.132	0.830
	Back	0.750	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.981	1.109	1.113	1.097	0.969	1.101	0.879	0.929	1.125	1.098	0.762
	Left side	0.094								0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
	Right side	0.272	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.436	0.391	0.632	0.388	0.433	0.629	0.294	0.316	0.384	0.455	0.275
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	0.881								0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881
LTE Band 41_LAT	Front	0.506	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.728	0.868	0.872	0.860	0.720	0.864	0.602	0.619	0.844	0.816	0.514
	Back	0.344	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.575	0.703	0.707	0.691	0.563	0.695	0.473	0.523	0.719	0.692	0.356
	Left side	0.036								0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
	Right side	0.114	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.278	0.233	0.474	0.230	0.275	0.471	0.136	0.158	0.226	0.297	0.117
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	0.120								0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120
LTE Band 66_LAT	Front	0.979	0.096	0.105	0.354	0.214	0.008	0.338	0.358	1.201	1.341	1.345	1.333	1.193	1.337	1.075	1.092	1.317	1.289	0.987
	Back	0.961	0.129	0.167	0.347	0.219	0.012	0.375	0.351	1.192	1.320	1.324	1.308	1.180	1.312	1.090	1.140	1.336	1.309	0.973
	Left side	0.099								0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099
	Right side	0.178	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.342	0.297	0.538	0.294	0.339	0.535	0.200	0.222	0.290	0.361	0.181
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	1.110								1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110
LTE Band 71_LAT	Front	0.568	0.096	0.105	0.354	0.214	0.008	0.338	0.358	0.790	0.930	0.934	0.922	0.782	0.926	0.664	0.681	0.906	0.878	0.576
	Back	0.575	0.129	0.167	0.347	0.219	0.012	0.375	0.351	0.806	0.934	0.938	0.922	0.794	0.926	0.704	0.754	0.950	0.923	0.587
	Left side	0.421								0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421
	Right side	0.356	0.022	0.041	0.116	0.161	0.003	0.112	0.357	0.520	0.475	0.716	0.472	0.517	0.713	0.378	0.400	0.468	0.539	0.359
	Top side		0.151	0.024	0.376	0.059	0.013	0.396	0.375	0.072	0.389	0.388	0.376	0.059	0.375	0.151	0.037	0.396	0.210	0.013
	Bottom side	0.123								0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123

<Bluetooth Power with WiFi off>

WWAN Band	Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
		WWAN	Bluetooth Ant 4	
		1g SAR (W/kg)	1g SAR (W/kg)	
GSM850_UAT	Front	0.167	0.028	0.195
	Back	0.154	0.038	0.192
	Left side	0.055		0.055
	Right side	0.056	0.007	0.063
	Top side	0.087	0.045	0.132
GSM1900_UAT	Front	0.526	0.028	0.554
	Back	0.552	0.038	0.590
	Left side	0.292		0.292
	Right side	0.014	0.007	0.021
	Top side	1.213	0.045	1.258
WCDMA II_UAT	Front	0.585	0.028	0.613
	Back	0.621	0.038	0.659
	Left side	0.316		0.316
	Right side	0.020	0.007	0.027
	Top side	1.309	0.045	1.354
WCDMA IV_UAT	Front	0.710	0.028	0.738
	Back	0.709	0.038	0.747
	Left side	0.282		0.282
	Right side	0.022	0.007	0.029
	Top side	1.336	0.045	1.381
WCDMA V_UAT	Front	0.311	0.028	0.339
	Back	0.332	0.038	0.370
	Left side	0.134		0.134
	Right side	0.203	0.007	0.210
	Top side	0.153	0.045	0.198
CDMA BC0_UAT	Front	0.288	0.028	0.316
	Back	0.314	0.038	0.352
	Left side	0.089		0.089
	Right side	0.169	0.007	0.176
	Top side	0.154	0.045	0.199
CDMA BC1_UAT	Front	0.503	0.028	0.531
	Back	0.603	0.038	0.641
	Left side	0.291		0.291
	Right side	0.017	0.007	0.024
	Top side	1.296	0.045	1.341
CDMA BC10_UAT	Front	0.329	0.028	0.357
	Back	0.338	0.038	0.376
	Left side	0.102		0.102
	Right side	0.221	0.007	0.228
	Top side	0.160	0.045	0.205
LTE Band 7_UAT	Front	0.521	0.028	0.549
	Back	0.917	0.038	0.955
	Left side	0.687		0.687
	Right side	0.164	0.007	0.171
	Top side	0.436	0.045	0.481

WWAN Band	Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
		WWAN	Bluetooth Ant 4	
		1g SAR (W/kg)	1g SAR (W/kg)	
LTE Band 12_UAT	Front	0.224	0.028	0.252
	Back	0.234	0.038	0.272
	Left side	0.114		0.114
	Right side	0.095	0.007	0.102
	Top side	0.076	0.045	0.121
LTE Band 13_UAT	Front	0.251	0.028	0.279
	Back	0.265	0.038	0.303
	Left side	0.147		0.147
	Right side	0.127	0.007	0.134
	Top side	0.078	0.045	0.123
LTE Band 25_UAT	Front	0.535	0.028	0.563
	Back	0.579	0.038	0.617
	Left side	0.325		0.325
	Right side	0.016	0.007	0.023
	Top side	1.239	0.045	1.284
LTE Band 26_UAT	Front	0.287	0.028	0.315
	Back	0.313	0.038	0.351
	Left side	0.137		0.137
	Right side	0.208	0.007	0.215
	Top side	0.135	0.045	0.180
LTE Band 30_UAT	Front	0.429	0.028	0.457
	Back	0.418	0.038	0.456
	Left side	0.266		0.266
	Right side	0.080	0.007	0.087
	Top side	1.222	0.045	1.267
LTE Band 41_UAT	Front	0.391	0.028	0.419
	Back	0.556	0.038	0.594
	Left side	0.442		0.442
	Right side	0.158	0.007	0.165
	Top side	0.353	0.045	0.398
LTE Band 66_UAT	Front	0.717	0.028	0.745
	Back	0.757	0.038	0.795
	Left side	0.365		0.365
	Right side	0.028	0.007	0.035
	Top side	1.320	0.045	1.365
LTE Band 71_UAT	Front	0.204	0.028	0.232
	Back	0.223	0.038	0.261
	Left side	0.102		0.102
	Right side	0.060	0.007	0.067
	Top side	0.083	0.045	0.128

WWAN Band	Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
		WWAN	Bluetooth Ant 4	
		1g SAR (W/kg)	1g SAR (W/kg)	
GSM850_LAT	Front	0.263	0.028	0.291
	Back	0.265	0.038	0.303
	Left side	0.227		0.227
	Right side	0.129	0.007	0.136
	Top side		0.045	0.045
	Bottom side	0.073		0.073
GSM1900_LAT	Front	0.622	0.028	0.650
	Back	0.636	0.038	0.674
	Left side	0.063		0.063
	Right side	0.126	0.007	0.133
	Top side		0.045	0.045
	Bottom side	0.728		0.728
WCDMA II_LAT	Front	0.990	0.028	1.018
	Back	1.155	0.038	1.193
	Left side	0.098		0.098
	Right side	0.250	0.007	0.257
	Top side		0.045	0.045
	Bottom side	1.284		1.284
WCDMA IV_LAT	Front	1.084	0.028	1.112
	Back	1.091	0.038	1.129
	Left side	0.116		0.116
	Right side	0.247	0.007	0.254
	Top side		0.045	0.045
	Bottom side	1.331		1.331
WCDMA V_LAT	Front	0.498	0.028	0.526
	Back	0.471	0.038	0.509
	Left side	0.371		0.371
	Right side	0.484	0.007	0.491
	Top side		0.045	0.045
	Bottom side	0.116		0.116
CDMA BC0_LAT	Front	0.471	0.028	0.499
	Back	0.488	0.038	0.526
	Left side	0.390		0.390
	Right side	0.558	0.007	0.565
	Top side		0.045	0.045
	Bottom side	0.155		0.155
CDMA BC1_LAT	Front	1.222	0.028	1.250
	Back	1.159	0.038	1.197
	Left side	0.124		0.124
	Right side	0.241	0.007	0.248
	Top side		0.045	0.045
	Bottom side	1.192		1.192
CDMA BC10_LAT	Front	0.488	0.028	0.516
	Back	0.478	0.038	0.516
	Left side	0.407		0.407
	Right side	0.542	0.007	0.549
	Top side		0.045	0.045
	Bottom side	0.126		0.126
LTE Band 7_LAT	Front	0.688	0.028	0.716
	Back	0.605	0.038	0.643
	Left side	0.052		0.052
	Right side	0.334	0.007	0.341
	Top side		0.045	0.045
	Bottom side	0.412		0.412



WWAN Band	Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
		WWAN	Bluetooth Ant 4	
		1g SAR (W/kg)	1g SAR (W/kg)	
LTE Band 12_LAT	Front	0.277	0.028	0.305
	Back	0.271	0.038	0.309
	Left side	0.247		0.247
	Right side	0.191	0.007	0.198
	Top side		0.045	0.045
	Bottom side	0.046		0.046
LTE Band 13_LAT	Front	0.405	0.028	0.433
	Back	0.386	0.038	0.424
	Left side	0.343		0.343
	Right side	0.349	0.007	0.356
	Top side		0.045	0.045
	Bottom side	0.074		0.074
LTE Band 25_LAT	Front	1.177	0.028	1.205
	Back	1.152	0.038	1.190
	Left side	0.114		0.114
	Right side	0.224	0.007	0.231
	Top side		0.045	0.045
	Bottom side	1.325		1.325
LTE Band 26_LAT	Front	0.441	0.028	0.469
	Back	0.416	0.038	0.454
	Left side	0.324		0.324
	Right side	0.478	0.007	0.485
	Top side		0.045	0.045
	Bottom side	0.111		0.111
LTE Band 30_LAT	Front	0.822	0.028	0.850
	Back	0.750	0.038	0.788
	Left side	0.094		0.094
	Right side	0.272	0.007	0.279
	Top side		0.045	0.045
	Bottom side	0.881		0.881
LTE Band 41_LAT	Front	0.506	0.028	0.534
	Back	0.344	0.038	0.382
	Left side	0.036		0.036
	Right side	0.114	0.007	0.121
	Top side		0.045	0.045
	Bottom side	0.120		0.120
LTE Band 66_LAT	Front	1.072	0.028	1.100
	Back	1.079	0.038	1.117
	Left side	0.111		0.111
	Right side	0.200	0.007	0.207
	Top side		0.045	0.045
	Bottom side	1.245		1.245
LTE Band 71_LAT	Front	0.568	0.028	0.596
	Back	0.575	0.038	0.613
	Left side	0.421		0.421
	Right side	0.356	0.007	0.363
	Top side		0.045	0.045
	Bottom side	0.123		0.123

<Bluetooth Power with WWAN off>

Exposure Position	2	3	4	5	6	2+5 Summed 1g SAR (W/kg)	3+6 Summed 1g SAR (W/kg)	4+6 Summed 1g SAR (W/kg)	5+6 Summed 1g SAR (W/kg)	2+3 Summed 1g SAR (W/kg)	4+5 Summed 1g SAR (W/kg)	4+5+6 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 4 1g SAR (W/kg)	2.4GHz WLAN Ant 5 1g SAR (W/kg)	5GHz WLAN Ant 6 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)							
Front	0.406	0.109	0.310	0.269	0.028	0.675	0.137	0.338	0.297	0.515	0.579	0.607
Back	0.463	0.213	0.361	0.204	0.038	0.667	0.251	0.399	0.242	0.676	0.565	0.603
Right side	0.107	0.044	0.116	0.203	0.007	0.310	0.051	0.123	0.210	0.151	0.319	0.326
Top side	0.679	0.032	0.458	0.051	0.045	0.730	0.077	0.503	0.096	0.711	0.509	0.554

**14.3 Body-Worn Accessory Exposure Conditions****<WWAN on with WiFi on and Bluetooth Power >**

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+5+6 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+8 Summed 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+6 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 4 1g SAR (W/kg)	2.4GHz WLAN Ant 5 1g SAR (W/kg)	5GHz WLAN Ant 6 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	2.4GHz WLAN Ant 4+5 1g SAR (W/kg)	5GHz WLAN Ant 6+5 1g SAR (W/kg)											
GSM850_UAT	Front	0.167	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.389	0.539	0.560	0.531	0.381	0.552	0.263	0.280	0.505	0.477	0.175
	Back	0.154	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.385	0.541	0.537	0.529	0.373	0.525	0.283	0.333	0.529	0.502	0.166
GSM1900_UAT	Front	0.526	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.748	0.898	0.919	0.890	0.740	0.911	0.622	0.639	0.864	0.836	0.534
	Back	0.552	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.783	0.939	0.935	0.927	0.771	0.923	0.681	0.731	0.927	0.900	0.564
WCDMA II_UAT	Front	1.076	0.096	0.105	0.364	0.214	0.008	0.338	0.385	1.298	1.448	1.469	1.440	1.290	1.461	1.172	1.189	1.414	1.386	1.084
	Back	1.162	0.129	0.167	0.375	0.219	0.012	0.375	0.371	1.393	1.549	1.545	1.537	1.381	1.533	1.291	1.341	1.537	1.510	1.174
WCDMA IV_UAT	Front	1.113	0.096	0.105	0.364	0.214	0.008	0.338	0.385	1.335	1.485	1.506	1.477	1.327	1.498	1.209	1.226	1.451	1.423	1.121
	Back	1.133	0.129	0.167	0.375	0.219	0.012	0.375	0.371	1.364	1.520	1.516	1.508	1.352	1.504	1.262	1.312	1.508	1.481	1.145
WCDMA V_UAT	Front	0.311	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.533	0.683	0.704	0.675	0.525	0.696	0.407	0.424	0.649	0.621	0.319
	Back	0.332	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.563	0.719	0.715	0.707	0.551	0.703	0.461	0.511	0.707	0.680	0.344
CDMA BC0_UAT	Front	0.275	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.497	0.647	0.668	0.639	0.489	0.660	0.371	0.388	0.613	0.585	0.283
	Back	0.352	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.583	0.739	0.735	0.727	0.571	0.723	0.481	0.531	0.727	0.700	0.364
CDMA BC1_UAT	Front	1.160	0.096	0.105	0.364	0.214	0.008	0.338	0.385	1.382	1.532	1.553	1.524	1.374	1.545	1.256	1.273	1.498	1.470	1.168
	Back	1.160	0.129	0.167	0.375	0.219	0.012	0.375	0.371	1.391	1.547	1.543	1.535	1.379	1.531	1.289	1.339	1.535	1.508	1.172
CDMA BC10_UAT	Front	0.328	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.550	0.700	0.721	0.692	0.542	0.713	0.424	0.441	0.666	0.638	0.336
	Back	0.324	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.555	0.711	0.707	0.699	0.543	0.695	0.453	0.503	0.699	0.672	0.336
LTE Band 7_UAT	Front	0.521	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.743	0.893	0.914	0.885	0.735	0.906	0.617	0.634	0.859	0.831	0.529
	Back	0.917	0.129	0.167	0.375	0.219	0.012	0.375	0.371	1.148	1.304	1.300	1.292	1.136	1.288	1.046	1.096	1.292	1.265	0.929
LTE Band 12_UAT	Front	0.224	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.446	0.596	0.617	0.588	0.438	0.609	0.320	0.337	0.562	0.534	0.232
	Back	0.234	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.465	0.621	0.617	0.609	0.453	0.605	0.363	0.413	0.609	0.582	0.246
LTE Band 13_UAT	Front	0.251	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.473	0.623	0.644	0.615	0.465	0.636	0.347	0.364	0.589	0.561	0.259
	Back	0.265	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.496	0.652	0.648	0.640	0.484	0.636	0.394	0.444	0.640	0.613	0.277
LTE Band 25_UAT	Front	1.112	0.096	0.105	0.364	0.214	0.028	0.338	0.385	1.354	1.504	1.525	1.476	1.326	1.497	1.208	1.245	1.450	1.422	1.140
	Back	1.180	0.129	0.167	0.375	0.219	0.038	0.375	0.371	1.437	1.593	1.589	1.555	1.399	1.551	1.309	1.385	1.555	1.528	1.218
LTE Band 26_UAT	Front	0.287	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.509	0.659	0.680	0.651	0.501	0.672	0.383	0.400	0.625	0.597	0.295
	Back	0.313	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.544	0.700	0.696	0.688	0.532	0.684	0.442	0.492	0.688	0.661	0.325
LTE Band 30_UAT	Front	0.642	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.864	1.014	1.035	1.006	0.856	1.027	0.738	0.755	0.980	0.952	0.650
	Back	0.735	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.966	1.122	1.118	1.110	0.954	1.106	0.864	0.914	1.110	1.083	0.747
LTE Band 41_UAT	Front	0.391	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.613	0.763	0.784	0.755	0.605	0.776	0.487	0.504	0.729	0.701	0.399
	Back	0.556	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.787	0.943	0.939	0.931	0.775	0.927	0.685	0.735	0.931	0.904	0.568
LTE Band 66_UAT	Front	1.163	0.096	0.105	0.364	0.214	0.008	0.338	0.385	1.385	1.535	1.556	1.527	1.377	1.548	1.259	1.276	1.501	1.473	1.171
	Back	1.173	0.129	0.167	0.375	0.219	0.012	0.375	0.371	1.404	1.560	1.556	1.548	1.392	1.544	1.302	1.352	1.548	1.521	1.185
LTE Band 71_UAT	Front	0.204	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.426	0.576	0.597	0.568	0.418	0.589	0.300	0.317	0.542	0.514	0.212
	Back	0.223	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.454	0.610	0.606	0.598	0.442	0.594	0.352	0.402	0.598	0.571	0.235



FCC SAR TEST REPORT

Report No. : FA820225-02

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+5+6 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+8 Summed 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+6 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6	5GHz WLAN Ant 5	Bluetooth Ant 4	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 6+5											
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)											
GSM850_LAT	Front	0.263	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.485	0.635	0.656	0.627	0.477	0.648	0.359	0.376	0.601	0.573	0.271
	Back	0.265	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.496	0.652	0.648	0.640	0.484	0.636	0.394	0.444	0.640	0.613	0.277
GSM1900_LAT	Front	0.622	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.844	0.994	1.015	0.986	0.836	1.007	0.718	0.735	0.960	0.932	0.630
	Back	0.636	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.867	1.023	1.019	1.011	0.855	1.007	0.765	0.815	1.011	0.984	0.648
WCDMA II_LAT	Front	1.093	0.096	0.105	0.364	0.214	0.008	0.338	0.385	1.315	1.465	1.486	1.457	1.307	1.478	1.189	1.206	1.431	1.403	1.101
	Back	1.059	0.129	0.167	0.375	0.219	0.012	0.375	0.371	1.290	1.446	1.442	1.434	1.278	1.430	1.188	1.238	1.434	1.407	1.071
WCDMA IV_LAT	Front	1.198	0.096	0.105	0.364	0.214	0.008	0.338	0.385	1.420	1.570	1.591	1.562	1.412	1.583	1.294	1.311	1.536	1.508	1.206
	Back	1.181	0.129	0.167	0.375	0.219	0.012	0.375	0.371	1.412	1.568	1.564	1.556	1.400	1.552	1.310	1.360	1.556	1.529	1.193
WCDMA V_LAT	Front	0.498	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.720	0.870	0.891	0.862	0.712	0.883	0.594	0.611	0.836	0.808	0.506
	Back	0.471	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.702	0.858	0.854	0.846	0.690	0.842	0.600	0.650	0.846	0.819	0.483
CDMA BC0_LAT	Front	0.489	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.711	0.861	0.882	0.853	0.703	0.874	0.585	0.602	0.827	0.799	0.497
	Back	0.547	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.778	0.934	0.930	0.922	0.766	0.918	0.676	0.726	0.922	0.895	0.559
CDMA BC1_LAT	Front	0.912	0.096	0.105	0.364	0.214	0.008	0.338	0.385	1.134	1.284	1.305	1.276	1.126	1.297	1.008	1.025	1.250	1.222	0.920
	Back	1.040	0.129	0.167	0.375	0.219	0.012	0.375	0.371	1.271	1.427	1.423	1.415	1.259	1.411	1.169	1.219	1.415	1.388	1.052
CDMA BC10_LAT	Front	0.504	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.726	0.876	0.897	0.868	0.718	0.889	0.600	0.617	0.842	0.814	0.512
	Back	0.495	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.726	0.882	0.878	0.870	0.714	0.866	0.624	0.674	0.870	0.843	0.507
LTE Band 7_LAT	Front	0.688	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.910	1.060	1.081	1.052	0.902	1.073	0.784	0.801	1.026	0.998	0.696
	Back	0.605	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.836	0.992	0.988	0.980	0.824	0.976	0.734	0.784	0.980	0.953	0.617
LTE Band 12_LAT	Front	0.277	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.499	0.649	0.670	0.641	0.491	0.662	0.373	0.390	0.615	0.587	0.285
	Back	0.271	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.502	0.658	0.654	0.646	0.490	0.642	0.400	0.450	0.646	0.619	0.283
LTE Band 13_LAT	Front	0.405	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.627	0.777	0.798	0.769	0.619	0.790	0.501	0.518	0.743	0.715	0.413
	Back	0.386	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.617	0.773	0.769	0.761	0.605	0.757	0.515	0.565	0.761	0.734	0.398
LTE Band 25_LAT	Front	1.178	0.096	0.105	0.364	0.214	0.028	0.338	0.385	1.420	1.570	1.591	1.542	1.392	1.563	1.274	1.311	1.516	1.488	1.206
	Back	1.178	0.129	0.167	0.375	0.219	0.038	0.375	0.371	1.435	1.591	1.587	1.553	1.397	1.549	1.307	1.383	1.553	1.526	1.216
LTE Band 26_LAT	Front	0.441	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.663	0.813	0.834	0.805	0.655	0.826	0.537	0.554	0.779	0.751	0.449
	Back	0.353	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.584	0.740	0.736	0.728	0.572	0.724	0.482	0.532	0.728	0.701	0.365
LTE Band 30_LAT	Front	0.822	0.096	0.105	0.364	0.214	0.008	0.338	0.385	1.044	1.194	1.215	1.186	1.036	1.207	0.918	0.935	1.160	1.132	0.830
	Back	0.750	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.981	1.137	1.133	1.125	0.969	1.121	0.879	0.929	1.125	1.098	0.762
LTE Band 41_LAT	Front	0.506	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.728	0.878	0.899	0.870	0.720	0.891	0.602	0.619	0.844	0.816	0.514
	Back	0.344	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.575	0.731	0.727	0.719	0.563	0.715	0.473	0.523	0.719	0.692	0.356
LTE Band 66_LAT	Front	1.105	0.096	0.105	0.364	0.214	0.008	0.338	0.385	1.327	1.477	1.498	1.469	1.319	1.490	1.201	1.218	1.443	1.415	1.113
	Back	1.115	0.129	0.167	0.375	0.219	0.012	0.375	0.371	1.346	1.502	1.498	1.490	1.334	1.486	1.244	1.294	1.490	1.463	1.127
LTE Band 71_LAT	Front	0.568	0.096	0.105	0.364	0.214	0.008	0.338	0.385	0.790	0.940	0.961	0.932	0.782	0.953	0.664	0.681	0.906	0.878	0.576
	Back	0.575	0.129	0.167	0.375	0.219	0.012	0.375	0.371	0.806	0.962	0.958	0.950	0.794	0.946	0.704	0.754	0.950	0.923	0.587

<Bluetooth Power with WiFi off>

WWAN Band	Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
		WWAN	Bluetooth Ant 4	
		1g SAR (W/kg)	1g SAR (W/kg)	
GSM850_UAT	Front	0.167	0.028	0.195
	Back	0.154	0.038	0.192
GSM1900_UAT	Front	0.526	0.028	0.554
	Back	0.552	0.038	0.590
WCDMA II_UAT	Front	1.076	0.028	1.104
	Back	1.162	0.038	1.200
WCDMA IV_UAT	Front	1.248	0.028	1.276
	Back	1.271	0.038	1.309
	Front with Headset	1.203	0.028	1.231
	Back with Headset	1.215	0.038	1.253
WCDMA V_UAT	Front	0.311	0.028	0.339
	Back	0.332	0.038	0.370
CDMA BC0_UAT	Front	0.275	0.028	0.303
	Back	0.352	0.038	0.390
CDMA BC1_UAT	Front	1.302	0.028	1.330
	Back	1.302	0.038	1.340
	Front with Headset	1.268	0.028	1.296
	Back with Headset	1.257	0.038	1.295
CDMA BC10_UAT	Front	0.328	0.028	0.356
	Back	0.324	0.038	0.362
LTE Band 7_UAT	Front	0.521	0.028	0.549
	Back	0.917	0.038	0.955
LTE Band 12_UAT	Front	0.224	0.028	0.252
	Back	0.234	0.038	0.272
LTE Band 13_UAT	Front	0.251	0.028	0.279
	Back	0.265	0.038	0.303
LTE Band 25_UAT	Front	1.214	0.028	1.242
	Back	1.339	0.038	1.377
	Front with Headset	1.102	0.028	1.130
	Back with Headset	1.226	0.038	1.264
LTE Band 26_UAT	Front	0.287	0.028	0.315
	Back	0.313	0.038	0.351
LTE Band 30_UAT	Front	0.642	0.028	0.670
	Back	0.735	0.038	0.773
LTE Band 41_UAT	Front	0.391	0.028	0.419
	Back	0.556	0.038	0.594
LTE Band 66_UAT	Front	1.305	0.028	1.333
	Back	1.316	0.038	1.354
	Front with Headset	1.271	0.028	1.299
	Back with Headset	1.305	0.038	1.343
LTE Band 71_UAT	Front	0.204	0.028	0.232
	Back	0.223	0.038	0.261



WWAN Band	Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
		WWAN	Bluetooth Ant 4	
		1g SAR (W/kg)	1g SAR (W/kg)	
GSM850_LAT	Front	0.263	0.028	0.291
	Back	0.265	0.038	0.303
GSM1900_LAT	Front	0.622	0.028	0.650
	Back	0.636	0.038	0.674
WCDMA II_LAT	Front	1.093	0.028	1.121
	Back	1.059	0.038	1.097
WCDMA IV_LAT	Front	1.198	0.028	1.226
	Back	1.181	0.038	1.219
WCDMA V_LAT	Front	0.498	0.028	0.526
	Back	0.471	0.038	0.509
CDMA BC0_LAT	Front	0.489	0.028	0.517
	Back	0.547	0.038	0.585
CDMA BC1_LAT	Front	1.148	0.028	1.176
	Back	1.309	0.038	1.347
	Back with Headset	0.674	0.038	0.712
CDMA BC10_LAT	Front	0.504	0.028	0.532
	Back	0.495	0.038	0.533
LTE Band 7_LAT	Front	0.688	0.028	0.716
	Back	0.605	0.038	0.643
LTE Band 12_LAT	Front	0.277	0.028	0.305
	Back	0.271	0.038	0.309
LTE Band 13_LAT	Front	0.405	0.028	0.433
	Back	0.386	0.038	0.424
LTE Band 25_LAT	Front	1.337	0.028	1.365
	Back	1.324	0.038	1.362
	Front with Headset	1.225	0.028	1.253
	Back with Headset	1.219	0.038	1.257
LTE Band 26_LAT	Front	0.441	0.028	0.469
	Back	0.416	0.038	0.454
LTE Band 30_LAT	Front	0.822	0.028	0.850
	Back	0.750	0.038	0.788
LTE Band 41_LAT	Front	0.506	0.028	0.534
	Back	0.344	0.038	0.382
LTE Band 66_LAT	Front	1.240	0.028	1.268
	Back	1.251	0.038	1.289
	Front with Headset	0.862	0.028	0.890
	Back with Headset	0.663	0.038	0.701
LTE Band 71_LAT	Front	0.568	0.028	0.596
	Back	0.575	0.038	0.613

<Bluetooth Power with WWAN off>

Exposure Position	2	3	4	5	6	2+5 Summed 1g SAR (W/kg)	3+6 Summed 1g SAR (W/kg)	4+6 Summed 1g SAR (W/kg)	5+6 Summed 1g SAR (W/kg)	2+3 Summed 1g SAR (W/kg)	4+5 Summed 1g SAR (W/kg)	4+5+6 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6	5GHz WLAN Ant 5	Bluetooth Ant 4							
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
Front	0.406	0.109	0.558	0.286	0.028	0.692	0.137	0.586	0.314	0.515	0.844	0.872
Back	0.463	0.213	0.472	0.294	0.038	0.757	0.251	0.510	0.332	0.676	0.766	0.804

15. Supplemental tuner tests results

General Note:

1. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
2. To evaluate all of the tuner states, the 96 tuner states are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination. The bands which are dynamically tuned are split into two separate antennas, so each antenna system will have its own test plan to cover the corresponding 96 tuner states.
3. Per FCC guidance, several bands/modes were combined to be treated as a single aggregate band, for CEMA BC0 and BC10 is evaluated separation reported SAR configuration per exposure conditions were considered for point SAR measurements. For LTE B2/B25, B4/B66, B5/B26 and B12/B17 pair, the highest reported SAR configuration per exposure condition was evaluated.
4. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

Head (LAT)														
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 11)	0	28	57	85	17
GSM850	GPRS (4 Tx slots)	836.4	189	N/A	N/A	Right Cheek	0 mm	0.185	0.192	0	0.02	0.012	0.025	0.003
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State x)	1	29	58	86	18
GSM1900	GPRS (4 Tx slots)	1880	661	N/A	N/A	Left Cheek	0 mm	0.173	0.0189	0.037	0.094	0.069	0.097	0.075
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 29)	2	30	59	87	19
WCDMA II	RMC12.2kbps	1852.4	9262	N/A	N/A	Left Cheek	0 mm	0.235	0.304	0.123	0.218	0.186	0.218	0.205
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 4)	3	31	60	88	20
WCDMA IV	RMC12.2kbps	1712.4	1312	N/A	N/A	Left Cheek	0 mm	0.327	0.424	0.395	0.21	0.206	0.177	0.214
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 23)	4	32	61	89	21
WCDMA V	RMC12.2kbps	836.4	4182	N/A	N/A	Left Cheek	0 mm	0.322	0.362	0.004	0.071	0.031	0.073	0.035
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 9)	5	33	62	90	22
CDMA BC0	1xRTT RC3 SO55	836.52	384	N/A	N/A	Right Cheek	0 mm	0.458	0.489	0.007	0.081	0.049	0.082	0.051
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 29)	6	34	63	91	23
CDMA BC1	1xRTT RC3 SO55	1851.25	25	N/A	N/A	Left Cheek	0 mm	0.284	0.327	0.235	0.163	0.261	0.245	0.277
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 11)	7	35	64	92	24
CDMA BC10	1xRTT RC3 SO55	820.5	580	N/A	N/A	Right Cheek	0 mm	0.373	0.402	0.008	0.0007	0.031	0.013	0.035
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 11)	8	36	65	93	25
LTE Band 12	QPSK	707.5	23095	1	0	Left Cheek	0 mm	0.165	0.178	0.02	0.004	0.043	0.007	0.043
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 11)	9	37	66	94	26
LTE Band 13	QPSK	782	23230	1	0	Right Cheek	0 mm	0.262	0.295	0.039	0.008	0.088	0.051	0.086
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 41)	10	38	67	95	27
LTE Band 25	QPSK	1860	26140	1	0	Left Cheek	0 mm	0.256	0.334	0.247	0.121	0.239	0.328	0.263
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 23)	11	39	68	0	28
LTE Band 26	QPSK	831.5	26865	1	0	Right Cheek	0 mm	0.338	0.391	0.021	0.005	0.078	0.06	0.079
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 7)	12	40	69	1	29
LTE Band 66	QPSK	1720	132072	1	0	Left Cheek	0 mm	0.318	0.404	0.325	0.301	0.359	0.175	0.123
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 11)	13	41	70	2	30
LTE Band 71	QPSK	683	133322	1	0	Left Cheek	0 mm	0.346	0.372	0.006	0.028	0.006	0.054	0.008

Body (LAT)														
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 11)	14	42	71	3	31
GSM850	GPRS (4 Tx slots)	836.4	189	N/A	N/A	Back	10mm	0.213	0.228	0.003	0.032	0.009	0.003	0.041
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State x)	15	43	72	4	32
GSM1900	GPRS (4 Tx slots)	1850.2	512	N/A	N/A	Bottom Side	10mm	0.624	0.786	0.271	0.641	0.304	0.354	0.667
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 30)	16	44	73	5	33
WCDMA II	RMC12.2kbps	1852.4	9262	N/A	N/A	Bottom Side	10mm	1.09	1.32	0.608	1.136	0.768	0.774	1.116
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 8)	17	45	74	6	34
WCDMA IV	RMC12.2kbps	1712.4	1312	N/A	N/A	Bottom Side	10mm	1.06	1.283	1.227	0.816	0.804	1.245	0.645
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 23)	18	46	75	7	35
WCDMA V	RMC12.2kbps	826.4	4132	N/A	N/A	Front	10mm	0.434	0.516	0.023	0.137	0.072	0.026	0.138
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 11)	19	47	76	8	36
CDMA BC0	RTAP 153.6Kbps	848.31	777	N/A	N/A	Right Side	10mm	0.52	0.589	0.022	0.098	0.054	0.021	0.029
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 29)	20	48	77	9	37
CDMA BC1	RTAP 153.6Kbps	1851.25	25	N/A	N/A	Front	10mm	0.916	1.031	0.618	0.301	0.789	0.678	0.742
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 11)	21	49	78	10	38
CDMA BC10	RTAP 153.6Kbps	820.5	580	N/A	N/A	Right Side	10mm	0.502	0.561	0.017	0.003	0.041	0.019	0.024
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 11)	22	50	79	11	39
LTE Band 12	QPSK	707.5	23095	1	0	Front	10mm	0.271	0.335	0.109	0.011	0.097	0.112	0.024
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 11)	23	51	80	12	40
LTE Band 13	QPSK	782	23230	1	0	Front	10mm	0.4	0.47	0.096	0.017	0.157	0.007	0.121
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 31)	24	52	81	13	0
LTE Band 25	QPSK	1860	26140	1	0	Bottom Side	10mm	1.05	1.302	0.448	0.404	1.004	0.478	0.493
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 23)	25	53	82	14	1
LTE Band 26	QPSK	831.5	26865	1	0	Right Side	10mm	0.443	0.567	0.073	0.015	0.139	0.008	0.007
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 3)	26	54	83	15	2
LTE Band 66	QPSK	1720	132072	1	0	Back	10mm	1.11	1.306	0.531	1.094	0.775	1.264	1.285
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 11)	27	55	84	16	3
LTE Band 71	QPSK	683	133322	1	0	Back	10mm	0.518	0.699	0.081	0.118	0.026	0.057	0.041

Head (UAT)														
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 42)	0	28	56	84	16
GSM850	GPRS (4 Tx slots)	848.8	251	N/A	N/A	Right Cheek	0 mm	0.468	0.616	0.023	0.614	0.008	0.553	0.009
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 56)	1	29	57	85	17
GSM1900	GPRS (4 Tx slots)	1850.2	512	N/A	N/A	Right Tilted	0 mm	1.01	1.387	0.762	0.097	0.099	0.093	0.095
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 58)	2	30	58	86	18
WCDMA II	RMC12.2kbps	1852.4	9262	N/A	N/A	Right Tilted	0 mm	1.04	1.386	0.623	0.181	0.211	0.175	0.205
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 63)	3	31	59	87	19
WCDMA IV	RMC12.2kbps	1752.6	1513	N/A	N/A	Right Tilted	0 mm	1.07	1.375	0.961	0.186	0.341	0.178	0.325
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 41)	4	32	60	88	20
WCDMA V	RMC12.2kbps	846.6	4233	N/A	N/A	Right Cheek	0 mm	0.945	1.579	0.539	0.456	0.173	0.523	0.224
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 41)	5	33	61	89	21
CDMA BC0	1xRTT RC3 SO55	824.7	1013	N/A	N/A	Right Cheek	0 mm	1.08	1.91	1.549	0.701	0.973	1.23	1.062
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 58)	6	34	62	90	22
CDMA BC1	1xRTT RC3 SO55	1851.25	25	N/A	N/A	Right Tilted	0 mm	1.15	1.45	0.93	0.248	0.36	0.104	0.352
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 41)	7	35	63	91	23
CDMA BC10	1xRTT RC3 SO55	820.5	580	N/A	N/A	Right Cheek	0 mm	1.02	1.65	1.3	0.03	0.918	0.014	0.759
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 57)	8	36	64	92	24
LTE Band 12	QPSK	707.5	23095	1	0	Right Cheek	0 mm	1.13	1.424	1.085	0.08	1.022	0.03	1.179
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 44)	9	37	65	93	25
LTE Band 13	QPSK	782	23230	1	0	Right Cheek	0 mm	1.15	1.497	0.979	0.058	0.93	0.085	0.793
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 58)	10	38	66	94	26
LTE Band 25	QPSK	1860	26140	1	0	Right Tilted	0 mm	0.966	1.291	0.837	1.13	0.291	0.136	0.287
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 42)	11	39	67	95	27
LTE Band 26	QPSK	831.5	26865	1	0	Right Cheek	0 mm	1.1	1.942	0.349	0.272	0.19	1.215	0.207
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 49)	12	40	68	0	28
LTE Band 66	QPSK	1745	132322	100	0	Right Tilted	0 mm	1	1.347	0.643	1.237	0.642	0.189	0.215
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 57)	13	41	69	1	29
LTE Band 71	QPSK	683	133322	1	0	Right Cheek	0 mm	0.898	1.07	0.022	0.507	0.014	0.231	0.012



Body (UAT)														
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 42)	14	42	70	2	30
GSM850	GPRS (4 Tx slots)	848.8	251	N/A	N/A	Front	10mm	0.133	0.15	0.017	0.149	0.018	0.019	0.125
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 56)	15	43	71	3	31
GSM1900	GPRS (4 Tx slots)	1850.2	512	N/A	N/A	Top Side	10mm	1.04	1.328	0.498	0.123	1.325	0.489	0.125
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 58)	16	44	72	4	32
WCDMA II	RMC12.2kbps	1880	9400	N/A	N/A	Top Side	10mm	1.13	1.42	0.792	0.219	0.158	0.769	0.214
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 63)	17	45	73	5	33
WCDMA IV	RMC12.2kbps	1752.6	1513	N/A	N/A	Top Side	10mm	1.14	1.437	1.122	0.178	0.259	1.089	0.177
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 41)	18	46	74	6	34
WCDMA V	RMC12.2kbps	836.4	4182	N/A	N/A	Back	10mm	0.296	0.381	0.379	0.128	0.019	0.363	0.146
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 41)	19	47	75	7	35
CDMA BC0	1xRTT RC3 SO32	824.7	1013	N/A	N/A	Back	10mm	0.321	0.37	0.377	0.129	0.028	0.362	0.146
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 58)	20	48	76	8	36
CDMA BC1	1xRTT RC3 SO32	1851.25	25	N/A	N/A	Back	10mm	1.16	1.59	1.066	0.898	0.336	1.019	0.114
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 41)	21	49	77	9	37
CDMA BC10	RTAP 153.6Kbps	820.5	580	N/A	N/A	Back	10mm	0.313	0.363	0.218	0.007	0.105	0.207	0.029
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 57)	22	50	78	10	38
LTE Band 12	QPSK	707.5	23095	1	0	Back	10mm	0.229	0.305	0.144	0.022	0.124	0.031	0.186
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 44)	23	51	79	11	39
LTE Band 13	QPSK	782	23230	1	0	Back	10mm	0.262	0.346	0.058	0.027	0.063	0.039	0.043
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 58)	24	52	80	12	40
LTE Band 25	QPSK	1860	26140	1	0	Back	10mm	1.18	1.47	0.791	1.205	0.305	0.412	0.147
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 43)	25	53	81	13	41
LTE Band 26	QPSK	831.5	26865	1	0	Back	10mm	0.29	0.381	0.032	0.139	0.007	0.105	0.009
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 52)	26	54	82	14	42
LTE Band 66	QPSK	1770	132572	1	0	Back	10mm	1.17	1.535	0.142	1.523	0.334	0.838	0.164
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 57)	27	55	83	15	43
LTE Band 71	QPSK	683	133322	1	0	Back	10mm	0.201	0.227	0.004	0.199	0.003	0.225	0.004

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16. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg. Therefore, the measurement uncertainty table is not required in this report.

17. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [9] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [10] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [11] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [12] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [13] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.