FCC SAR TEST REPORT

FCC ID	:	**A4RG020G**
Equipment	:	**Smartphone**
Model Name	:	**G020G**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, California, 94043 USA**
Standard	:	**FCC 47 CFR Part 2 (2.1093)** **ANSI/IEEE C95.1-1992** **IEEE 1528-2013**

The product was received on Oct. 28, 2019 and testing was started from Oct. 29, 2019 and completed on Dec. 09, 2019. 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 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.

Cona Huang

Approved by: Cona Huang / Deputy Manager

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History of this test report

Report No.	Version	Description	Issued Date
FA9O2115	01	Initial issue of report	Nov. 15. 2019
FA9O2115	02	Additional SAR testing.	Dec. 12, 2019

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Google LLC, Smartphone, G020G, 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)	Product Specific (Separation 0mm)	
		1g SAR (W/kg)			10g SAR (W/kg)	
Licensed	GSM850	0.36	0.93	0.93		1.48
	GSM1900	0.17	1.01	1.01		
	WCDMA II	0.35	1.03	1.03		
	WCDMA IV	0.24	0.61	0.80		
	WCDMA V	0.29	0.58	0.60		
	CDMA2000 BC0	0.33	0.64	0.63		
	CDMA2000 BC1	0.29	0.84	0.83		
	CDMA2000 BC10	0.20	0.58	0.56		
	LTE Band 7	0.82	0.96	0.96		
	LTE Band 12 / 17	1.15	0.39	0.49		
	LTE Band 13	0.30	0.46	0.58		
	LTE Band 14	0.32	0.69	0.69		
	LTE Band 2 / 25	0.32	1.04	1.04		
	LTE Band 5 / 26	0.29	0.75	0.75		
	LTE Band 30	0.91	1.10	1.10		
	LTE Band 38	0.87	0.88	0.88		
	LTE Band 41	0.73	0.66	0.81		
	LTE Band 4 / 66	0.22	0.67	0.95		
	LTE Band 71	0.73	0.24	0.24		
DTS	2.4GHz WLAN	0.84	0.60	0.60		1.48
NII	5GHz WLAN	0.24	0.65	0.65	1.26	1.36
2.4GHz Band	Bluetooth	0.80	0.24	0.24		1.48
Date of Testing:		2019/10/29 ~ 2019/12/9				

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 for Partial-Body, 4.0 W/kg for Product Specific) 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: Jason Wang

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
- FCC KDB 941225 D07 UMPC Mini Tablet v01r02

3. Equipment Under Test (EUT) Information

3.1 General Information

Product Feature & Specification	
Equipment Name	Smartphone
Model Name	G020G
FCC ID	A4RG020G
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 14: 790.5 MHz ~ 795.5 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/DTM RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA CDMA2000 : 1xRTT/1xEv-Do(Rev.0)/1xEv-Do(Rev.A) LTE: QPSK, 16QAM, 64QAM WLAN: 802.11a/b/g/n/ac HT20 / HT40 / VHT20 / VHT40 / VHT80 Bluetooth BR/EDR/LE NFC:ASK
GSM / (E)GPRS Dual Transfer mode	Class A – EUT can support Packet Switched and Circuit Switched Network simultaneously.
EUT Stage	Production Unit
Remark: 1. This is a Class II permissive change test report and the test plan is included in the operational description.	

3.2 Maximum Tune-up Limit

General Note:

1. For each cellular band, the device has 4 antennas, the antenna selection is based on the connection quality condition, and only one antenna will transmit at a time.
2. The device have several power modes which are determined by the exposure conditions with or without simultaneous transmission in head/hotspot/body-worn conditions, the detailed implementation of the detection of the use cases and the power table control is illustrated in the operational description exhibit.
3. When WWAN single transmitting or WWAN off and WiFi/BT is transmitting which is consider as standalone mode, When WWAN and WLAN/BT transmission at the same time which is consider as simultaneous transmission mode.

WiFi off						
Band		Default Tune up Power (dBm)	Head Mode		Body-Worn	
			Ant-0 Default power	Ant-1 Power table 3	Ant-0 Default power	Ant-1 Default power
GSM850	GSM (GMSK, 1Tx-slot)	34.0 / -3	34.0 / -3	N/A	34.0 / -3	34.0 / -3
	GPRS (GMSK, 1Tx-slot)	34.0 / -3	34.0 / -3	N/A	34.0 / -3	34.0 / -3
	GPRS (GMSK, 2Tx-slot)	32.0 / -3	32.0 / -3	N/A	32.0 / -3	32.0 / -3
	GPRS (GMSK, 3Tx-slot)	30.0 / -3	30.0 / -3	N/A	30.0 / -3	30.0 / -3
	GPRS (GMSK, 4Tx-slot)	29.0 / -3	29.0 / -3	N/A	29.0 / -3	29.0 / -3
	DTM (GMSK, 2Tx-slot)	32.0 / -3	32.0 / -3	N/A	32.0 / -3	32.0 / -3
	DTM (GMSK, 3Tx-slot)	30.0 / -3	30.0 / -3	N/A	30.0 / -3	30.0 / -3
	EDGE (8PSK, 1Tx-slot)	28.0 / -3	28.0 / -3	N/A	28.0 / -3	28.0 / -3
	EDGE (8PSK, 2Tx-slot)	27.0 / -3	27.0 / -3	N/A	27.0 / -3	27.0 / -3
	EDGE (8PSK, 3Tx-slot)	25.0 / -3	25.0 / -3	N/A	25.0 / -3	25.0 / -3
	EDGE (8PSK, 4Tx-slot)	23.0 / -3	23.0 / -3	N/A	23.0 / -3	23.0 / -3
	DTM (8PSK, 2Tx-slot)	27.0 / -3	27.0 / -3	N/A	27.0 / -3	27.0 / -3
	DTM (8PSK, 3Tx-slot)	25.0 / -3	25.0 / -3	N/A	25.0 / -3	25.0 / -3
GSM1900	GSM (GMSK, 1Tx-slot)	31.0 / -3	31.0 / -3	N/A	31.0 / -3	31.0 / -3
	GPRS (GMSK, 1Tx-slot)	31.0 / -3	31.0 / -3	N/A	31.0 / -3	31.0 / -3
	GPRS (GMSK, 2Tx-slot)	29.5 / -3	29.5 / -3	N/A	29.5 / -3	29.5 / -3
	GPRS (GMSK, 3Tx-slot)	27.5 / -3	27.5 / -3	N/A	27.5 / -3	27.5 / -3
	GPRS (GMSK, 4Tx-slot)	26.5 / -3	26.5 / -3	N/A	26.5 / -3	26.5 / -3
	DTM (GMSK, 2Tx-slot)	29.5 / -3	29.5 / -3	N/A	29.5 / -3	29.5 / -3
	DTM (GMSK, 3Tx-slot)	27.5 / -3	27.5 / -3	N/A	27.5 / -3	27.5 / -3
	EDGE (8PSK, 1Tx-slot)	27.0 / -3	27.0 / -3	N/A	27.0 / -3	27.0 / -3
	EDGE (8PSK, 2Tx-slot)	26.0 / -3	26.0 / -3	N/A	26.0 / -3	26.0 / -3
	EDGE (8PSK, 3Tx-slot)	25.0 / -3	25.0 / -3	N/A	25.0 / -3	25.0 / -3
	EDGE (8PSK, 4Tx-slot)	24.0 / -3	24.0 / -3	N/A	24.0 / -3	24.0 / -3
	DTM (8PSK, 2Tx-slot)	26.0 / -3	26.0 / -3	N/A	26.0 / -3	26.0 / -3
	DTM (8PSK, 3Tx-slot)	25.0 / -3	25.0 / -3	N/A	25.0 / -3	25.0 / -3

WiFi off					
Band	Default Tune up Power (dBm)	Head Power Mode		Body-Worn	
		Ant-0 Default power	Ant-1 Power table 3	Ant-0 Default power	Ant-1 Default power
WCDMA Band II	25.7 / -3	25.7 / -3	N/A	N/A	25.7 / -3
WCDMA Band IV	24.0 / -3	24.0 / -3	N/A	24.0 / -3	24.0 / -3
WCDMA Band V	24.5 / -3	24.5 / -3	N/A	24.5 / -3	24.5 / -3
CDMA BC0	25.5 / -3	25.5 / -3	N/A	25.5 / -3	25.5 / -3
CDMA BC1	25.0 / -3	25.0 / -3	N/A	N/A	25.0 / -3
CDMA BC10	25.5 / -3	25.5 / -3	N/A	25.5 / -3	25.5 / -3
LTE 2	25.7 / -3	25.7 / -3	N/A	N/A	25.7 / -3
LTE 4	24.5 / -3	24.5 / -3	N/A	24.5 / -3	24.5 / -3
LTE 5	25.7 / -3	25.7 / -3	N/A	25.7 / -3	25.7 / -3
LTE 12	25.7 / -3	25.7 / -3	25.7 / -3	25.7 / -3	25.7 / -3
LTE 13	25.3 / -3	25.3 / -3	N/A	25.3 / -3	25.3 / -3
LTE 14	25.5 / -3	25.5 / -3	N/A	25.5 / -3	25.5 / -3
LTE 17	25.7 / -3	25.7 / -3	25.7 / -3	25.7 / -3	25.7 / -3
LTE 25	25.7 / -3	25.7 / -3	N/A	N/A	25.7 / -3
LTE 26	25.7 / -3	25.7 / -3	N/A	25.7 / -3	25.7 / -3
LTE 66	24.5 / -3	24.5 / -3	N/A	24.5 / -3	24.5 / -3
LTE 71	24.6 / -3	24.6 / -3	24.6 / -3	24.6 / -3	24.6 / -3

WiFi off					
Band	Default Tune up Power (dBm)	Head Power Mode		Body-Worn	
		Ant-2 Default power	Ant-3 Power table 3	Ant-2 Default power	Ant-3 Default power
LTE 7	24.5 / -3	24.5 / -3	N/A	24.5 / -3	N/A
LTE 30	25.7 / -3	25.7 / -3	N/A	25.7 / -3	25.7 / -3
LTE 38	25.7 / -3	25.7 / -3	N/A	25.7 / -3	N/A
LTE 41 (Power Class 2)	26.5 / -3	26.5 / -3	N/A	26.5 / -3	N/A
LTE 41 (Power Class 3)	25.0 / -3	25.0 / -3	N/A	25.0 / -3	N/A

WiFi on						
Band		Default Tune up Power (dBm)	Head Mode		Body-Worn / Hotspot Mode	
			Ant-0 Default power	Ant-1 Power table 2	Ant-0 Power table 1	Ant-1 Default power
GSM850	GSM (GMSK, 1Tx-slot)	34.0 / -3	34.0 / -3	N/A	29.9 / -3	N/A
	GPRS (GMSK, 1Tx-slot)	34.0 / -3	34.0 / -3	N/A	29.9 / -3	N/A
	GPRS (GMSK, 2Tx-slot)	32.0 / -3	32.0 / -3	N/A	28.0 / -3	N/A
	GPRS (GMSK, 3Tx-slot)	30.0 / -3	30.0 / -3	N/A	26.0 / -3	N/A
	GPRS (GMSK, 4Tx-slot)	29.0 / -3	29.0 / -3	N/A	25.0 / -3	N/A
	DTM (GMSK, 2Tx-slot)	32.0 / -3	32.0 / -3	N/A	28.0 / -3	N/A
	DTM (GMSK, 3Tx-slot)	30.0 / -3	30.0 / -3	N/A	26.0 / -3	N/A
	EDGE (8PSK, 1Tx-slot)	28.0 / -3	28.0 / -3	N/A	24.0 / -3	N/A
	EDGE (8PSK, 2Tx-slot)	27.0 / -3	27.0 / -3	N/A	23.0 / -3	N/A
	EDGE (8PSK, 3Tx-slot)	25.0 / -3	25.0 / -3	N/A	21.0 / -3	N/A
	EDGE (8PSK, 4Tx-slot)	23.0 / -3	23.0 / -3	N/A	19.0 / -3	N/A
	DTM (8PSK, 2Tx-slot)	27.0 / -3	27.0 / -3	N/A	23.0 / -3	N/A
	DTM (8PSK, 3Tx-slot)	25.0 / -3	25.0 / -3	N/A	21.0 / -3	N/A
GSM1900	GSM (GMSK, 1Tx-slot)	31.0 / -3	31.0 / -3	N/A	27.0 / -3	N/A
	GPRS (GMSK, 1Tx-slot)	31.0 / -3	31.0 / -3	N/A	27.0 / -3	N/A
	GPRS (GMSK, 2Tx-slot)	29.5 / -3	29.5 / -3	N/A	25.5 / -3	N/A
	GPRS (GMSK, 3Tx-slot)	27.5 / -3	27.5 / -3	N/A	23.5 / -3	N/A
	GPRS (GMSK, 4Tx-slot)	26.5 / -3	26.5 / -3	N/A	22.5 / -3	N/A
	DTM (GMSK, 2Tx-slot)	29.5 / -3	29.5 / -3	N/A	25.5 / -3	N/A
	DTM (GMSK, 3Tx-slot)	27.5 / -3	27.5 / -3	N/A	23.5 / -3	N/A
	EDGE (8PSK, 1Tx-slot)	27.0 / -3	27.0 / -3	N/A	23.0 / -3	N/A
	EDGE (8PSK, 2Tx-slot)	26.0 / -3	26.0 / -3	N/A	22.0 / -3	N/A
	EDGE (8PSK, 3Tx-slot)	25.0 / -3	25.0 / -3	N/A	21.0 / -3	N/A
	EDGE (8PSK, 4Tx-slot)	24.0 / -3	24.0 / -3	N/A	20.0 / -3	N/A
	DTM (8PSK, 2Tx-slot)	26.0 / -3	26.0 / -3	N/A	22.0 / -3	N/A
	DTM (8PSK, 3Tx-slot)	25.0 / -3	25.0 / -3	N/A	21.0 / -3	N/A

WiFi on					
Band	Default Tune up Power (dBm)	Head Power Mode		Body-Worn / Hotspot Mode	
		Ant-0 Default power	Ant-1 Power table 2	Ant-0 Power table 1	Ant-1 Power table 4
WCDMA Band II	25.7 / -3	25.7 / -3	N/A	N/A	19.6 / -3
WCDMA Band IV	24.0 / -3	24.0 / -3	N/A	19.0 / -3	N/A
WCDMA Band V	24.5 / -3	24.5 / -3	N/A	21.4 / -3	N/A
CDMA BC0	25.5 / -3	25.5 / -3	N/A	21.5 / -3	N/A
CDMA BC1	25.0 / -3	25.0 / -3	N/A	N/A	19.0 / -3
CMA BC10	25.5 / -3	25.5 / -3	N/A	23.5 / -3	N/A
LTE 2	25.7 / -3	25.7 / -3	N/A	N/A	19.7 / -3
LTE 4	24.5 / -3	24.5 / -3	N/A	18.7 / -3	N/A
LTE 5	25.7 / -3	25.7 / -3	N/A	22.7 / -3	N/A
LTE 12	25.7 / -3	25.7 / -3	N/A	22.7 / -3	N/A
LTE 13	25.3 / -3	25.3 / -3	N/A	22.3 / -3	N/A
LTE 14	25.5 / -3	25.5 / -3	N/A	22.5 / -3	N/A
LTE 17	25.7 / -3	25.7 / -3	N/A	22.7 / -3	N/A
LTE 25	25.7 / -3	25.7 / -3	N/A	N/A	19.7 / -3
LTE 26	25.7 / -3	25.7 / -3	N/A	22.7 / -3	N/A
LTE 66	24.5 / -3	24.5 / -3	N/A	18.7 / -3	N/A
LTE 71	24.6 / -3	24.6 / -3	N/A	22.6 / -3	N/A

WiFi on					
Band	Default Tune up Power (dBm)	Head Power Mode		Body-Worn / Hotspot Mode	
		Ant-2 Default power	Ant-3 Power table 2	Ant-2 Power table 1	Ant-3 Power table 4
LTE 7	24.5 / -3	21.0 / -3	N/A	18.5 / -3	N/A
LTE 30	25.7 / -3	22.2 / -3	N/A	20.7 / -3	N/A
LTE 38	25.7 / -3	24.7 / -3	N/A	20.2 / -3	N/A
LTE 41 (Power Class 2)	26.5 / -3	24.0 / -3	N/A	20.0 / -3	N/A
LTE 41 (Power Class 3)	25.0 / -3	24.0 / -3	N/A	20.0 / -3	N/A

WLAN 2.4GHz <SISO>					
Mode	Channel	WWAN OFF/ON			
		Head		Body-Worn / Hotspot	
		SISO Ant-0 Power table 1	SISO Ant-1 Power table 1	SISO Ant-0 Power table 2	SISO Ant-1 Power table 2
802.11b	1	14.5 / -3	14.5 / -3	18.0 / -3	18.0 / -3
	6	14.5 / -3	14.5 / -3	18.0 / -3	18.0 / -3
	11	14.5 / -3	14.5 / -3	18.0 / -3	18.0 / -3
	12	14.5 / -3	14.5 / -3	14.5 / -3	14.5 / -3
	13	6.0 / -3	6.0 / -3	6.0 / -3	6.0 / -3
802.11g	1	14.5 / -3	14.5 / -3	18.0 / -3	18.0 / -3
	6	14.5 / -3	14.5 / -3	18.0 / -3	18.0 / -3
	11	14.5 / -3	14.5 / -3	18.0 / -3	18.0 / -3
	12	14.5 / -3	14.5 / -3	14.5 / -3	14.5 / -3
	13	6.0 / -3	6.0 / -3	6.0 / -3	6.0 / -3
802.11n HT20	1	14.5 / -3	14.5 / -3	18.0 / -3	18.0 / -3
	6	14.5 / -3	14.5 / -3	18.0 / -3	18.0 / -3
	11	14.5 / -3	14.5 / -3	18.0 / -3	18.0 / -3
	12	14.5 / -3	14.5 / -3	14.5 / -3	14.5 / -3
	13	5.0 / -3	5.0 / -3	5.0 / -3	5.0 / -3
802.11ac VHT20	1	14.5 / -3	14.5 / -3	18.0 / -3	18.0 / -3
	6	14.5 / -3	14.5 / -3	18.0 / -3	18.0 / -3
	11	14.5 / -3	14.5 / -3	18.0 / -3	18.0 / -3
	12	14.5 / -3	14.5 / -3	14.5 / -3	14.5 / -3
	13	5.0 / -3	5.0 / -3	5.0 / -3	5.0 / -3

WLAN 2.4GHz <MIMO>							
Mode	Channel	WWAN OFF/ON					
		Head			Body-Worn / Hotspot		
		MIMO Ant-0 Power table 1	MIMO Ant-1 Power table 1	MIMO Ant-0+1 Power table 1	MIMO Ant-0 Power table 2	MIMO Ant-1 Power table 2	MIMO Ant-0+1 Power table 2
802.11b	1	15.5 / -3	15.5 / -3	18.5 / -3	18.0 / -3	18.0 / -3	21.0 / -3
	6	15.5 / -3	15.5 / -3	18.5 / -3	18.0 / -3	18.0 / -3	21.0 / -3
	11	15.5 / -3	15.5 / -3	18.5 / -3	18.0 / -3	18.0 / -3	21.0 / -3
	12	14.5 / -3	14.5 / -3	17.5 / -3	14.5 / -3	14.5 / -3	17.5 / -3
	13	6.0 / -3	6.0 / -3	9.0 / -3	6.0 / -3	6.0 / -3	9.0 / -3
802.11g	1	15.5 / -3	15.5 / -3	18.5 / -3	18.0 / -3	18.0 / -3	21.0 / -3
	6	15.5 / -3	15.5 / -3	18.5 / -3	18.0 / -3	18.0 / -3	21.0 / -3
	11	15.5 / -3	15.5 / -3	18.5 / -3	18.0 / -3	18.0 / -3	21.0 / -3
	12	14.5 / -3	14.5 / -3	17.5 / -3	14.5 / -3	14.5 / -3	17.5 / -3
	13	6.0 / -3	6.0 / -3	9.0 / -3	6.0 / -3	6.0 / -3	9.0 / -3
802.11n HT20	1	15.5 / -3	15.5 / -3	18.5 / -3	18.0 / -3	18.0 / -3	21.0 / -3
	6	15.5 / -3	15.5 / -3	18.5 / -3	18.0 / -3	18.0 / -3	21.0 / -3
	11	15.5 / -3	15.5 / -3	18.5 / -3	18.0 / -3	18.0 / -3	21.0 / -3
	12	14.5 / -3	14.5 / -3	17.5 / -3	14.5 / -3	14.5 / -3	17.5 / -3
	13	5.0 / -3	5.0 / -3	8.0 / -3	5.0 / -3	5.0 / -3	8.0 / -3
802.11ac VHT20	1	15.5 / -3	15.5 / -3	18.5 / -3	18.0 / -3	18.0 / -3	21.0 / -3
	6	15.5 / -3	15.5 / -3	18.5 / -3	18.0 / -3	18.0 / -3	21.0 / -3
	11	15.5 / -3	15.5 / -3	18.5 / -3	18.0 / -3	18.0 / -3	21.0 / -3
	12	14.5 / -3	14.5 / -3	17.5 / -3	14.5 / -3	14.5 / -3	17.5 / -3
	13	5.0 / -3	5.0 / -3	8.0 / -3	5.0 / -3	5.0 / -3	8.0 / -3

WLAN 5.2GHz <SISO>					
Mode	Channel	WWAN OFF/ON			
		Head		Body-Worn / Hotspot	
		SISO Ant-0 Power table 1	SISO Ant-1 Power table 1	SISO Ant-0 Power table 2	SISO Ant-1 Power table 2
802.11a	36	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	40	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	44	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	48	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
802.11n HT20	36	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	40	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	44	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	48	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
802.11n HT40	38	11.5 / -3	12 / -3	13 / -3	13 / -3
	46	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
802.11ac VHT20	36	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	40	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	44	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	48	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
802.11ac VHT40	38	11.5 / -3	12 / -3	13 / -3	13 / -3
	46	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
802.11ac VHT80	42	11.5 / -3	12 / -3	12.5 / -3	12.5 / -3

WLAN 5.2GHz <MIMO>							
Mode	Channel	WWAN OFF/ON					
		Head			Body-Worn / Hotspot		
		MIMO Ant-0 Power table 1	MIMO Ant-1 Power table 1	MIMO Ant-0+1 Power table 1	MIMO Ant-0 Power table 2	MIMO Ant-1 Power table 2	MIMO Ant-0+1 Power table 2
802.11a	36	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	40	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	44	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	48	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11n HT20	36	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	40	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	44	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	48	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11n HT40	38	11 / -3	11 / -3	14 / -3	13 / -3	13 / -3	16 / -3
	46	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11ac VHT20	36	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	40	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	44	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	48	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11ac VHT40	38	11 / -3	11 / -3	14 / -3	13 / -3	13 / -3	16 / -3
	46	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11ac VHT80	42	11 / -3	11 / -3	14 / -3	12.5 / -3	12.5 / -3	15.5 / -3

WLAN 5.3GHz <SISO>						
Mode	Channel	WWAN OFF/ON				
		Head		Body-Worn / Hotspot		
		SISO Ant-0 Power table 1	SISO Ant-1 Power table 1	SISO Ant-0 Power table 2	SISO Ant-1 Power table 2	
802.11a	52	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
	56	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
	60	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
	64	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
802.11n HT20	52	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
	56	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
	60	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
	64	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
802.11n HT40	54	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
	62	11.5 / -3	12 / -3	14 / -3	14 / -3	
802.11ac VHT20	52	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
	56	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
	60	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
	64	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
802.11ac VHT40	54	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3	
	62	11.5 / -3	12 / -3	14 / -3	14 / -3	
802.11ac VHT80	58	11.5 / -3	12 / -3	13.5 / -3	13.5 / -3	

WLAN 5.3GHz <MIMO>							
Mode	Channel	WWAN OFF/ON					
		Head			Body-Worn / Hotspot		
		MIMO Ant-0 Power table 1	MIMO Ant-1 Power table 1	MIMO Ant-0+1 Power table 1	MIMO Ant-0 Power table 2	MIMO Ant-1 Power table 2	MIMO Ant-0+1 Power table 2
802.11a	52	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	56	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	60	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	64	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11n HT20	52	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	56	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	60	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	64	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11n HT40	54	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	62	11 / -3	11 / -3	14 / -3	14 / -3	14 / -3	17 / -3
802.11ac VHT20	52	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	56	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	60	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	64	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11ac VHT40	54	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	62	11 / -3	11 / -3	14 / -3	14 / -3	14 / -3	17 / -3
802.11ac VHT80	58	11 / -3	11 / -3	14 / -3	13.5 / -3	13.5 / -3	16.5 / -3

WLAN 5.6GHz <SISO>					
Mode	Channel	WWAN OFF/ON			
		Head		Body-Worn / Hotspot	
		SISO Ant-0 Power table 1	SISO Ant-1 Power table 1	SISO Ant-0 Power table 2	SISO Ant-1 Power table 2
802.11a	100	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	116	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	132	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	140	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	144	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
802.11n HT20	100	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	116	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	132	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	140	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	144	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
802.11n HT40	102	11.5 / -3	13.5 / -3	13.5 / -3	13.5 / -3
	110	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	134	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	142	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
802.11ac VHT20	100	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	116	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	132	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	140	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	144	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
802.11ac VHT40	102	11.5 / -3	13.5 / -3	13.5 / -3	13.5 / -3
	110	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	134	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
	142	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3
802.11ac VHT80	106	11.5 / -3	13.5 / -3	13.5 / -3	13.5 / -3
	138	11.5 / -3	13.5 / -3	17.5 / -3	17.5 / -3

WLAN 5.6GHz <MIMO>							
Mode	Channel	WWAN OFF/ON					
		Head			Body-Worn / Hotspot		
		MIMO Ant-0 Power table 1	MIMO Ant-1 Power table 1	MIMO Ant-0+1 Power table 1	MIMO Ant-0 Power table 2	MIMO Ant-1 Power table 2	MIMO Ant-0+1 Power table 2
802.11a	100	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	116	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	132	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	140	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	144	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11n HT20	100	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	116	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	132	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	140	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	144	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11n HT40	102	11 / -3	11 / -3	14 / -3	13.5 / -3	13.5 / -3	16.5 / -3
	110	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	134	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	142	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11ac VHT20	100	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	116	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	132	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	140	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	144	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11ac VHT40	102	11 / -3	11 / -3	14 / -3	13.5 / -3	13.5 / -3	16.5 / -3
	110	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	134	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	142	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11ac VHT80	106	11 / -3	11 / -3	14 / -3	13.5 / -3	13.5 / -3	16.5 / -3
	138	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3

WLAN 5.8GHz <SISO>					
Mode	Channel	WWAN OFF/ON			
		Head		Body-Worn / Hotspot	
		SISO Ant-0 Power table 1	SISO Ant-1 Power table 1	SISO Ant-0 Power table 2	SISO Ant-1 Power table 2
802.11a	149	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	153	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	157	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	161	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	165	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
802.11n HT20	149	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	153	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	157	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	161	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	165	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
802.11n HT40	151	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	159	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
802.11ac VHT20	149	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	153	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	157	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	161	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	165	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
802.11ac VHT40	151	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
	159	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3
802.11ac VHT80	155	11.5 / -3	12 / -3	17.5 / -3	17.5 / -3

WLAN 5.8GHz <MIMO>								
Mode	Channel	WWAN OFF/ON						
		Head			Body-Worn / Hotspot			
		MIMO Ant-0 Power table 1	MIMO Ant-1 Power table 1	MIMO Ant-0+1 Power table 1	MIMO Ant-0 Power table 2	MIMO Ant-1 Power table 2	MIMO Ant-0+1 Power table 2
802.11a	149	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	153	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	157	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	161	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	165	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11n HT20	149	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	153	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	157	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	161	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	165	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11n HT40	151	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	159	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11ac VHT20	149	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	153	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	157	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	161	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	165	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11ac VHT40	151	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
	159	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3
802.11ac VHT80	155	11 / -3	11 / -3	14 / -3	17.5 / -3	17.5 / -3	20.5 / -3

Mode	2.4G Bluetooth
Bluetooth DH	18.0 / -4
Bluetooth 2DH	13.0 / -4
Bluetooth 3DH	13.0 / -4
Bluetooth LE	10.0 / -4
Bluetooth 5.0	10.0 / -4

3.3 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05	
FCC ID	A4RG020G
Equipment Name	Smartphone
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 14: 790.5 MHz ~ 795.5 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 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 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
UE Rel and Cat.	Rel11, cat. 11
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 conditions SAR compliance; power selection is determined by the device's positioning and usage scenarios.
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power measurement please referred to page 142
LTE Carrier Aggregation Additional Information	This device supports maximum of 3 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
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	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844
LTE Band 7								
	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	20775	2502.5	20800	2505	20825	2507.5	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560
LTE Band 12								
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 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
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711
LTE Band 13				
	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)
L	23205	779.5	23230	782
M	23230	782		
H	23255	784.5		
LTE Band 14				
	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Channel #	Channel #	Freq.(MHz)
L	23305	790.5	23330	793
M	23330	793		
H	23355	795.5		
LTE Band 17				
	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Freq.(MHz)	Channel #	Freq. (MHz)
L	23755	706.5	23780	709
M	23790	710	23790	710
H	23825	713.5	23800	711
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	
	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
M	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

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	133297	680.5	133297	680.5	133297	680.5	133297	680.5
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:

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

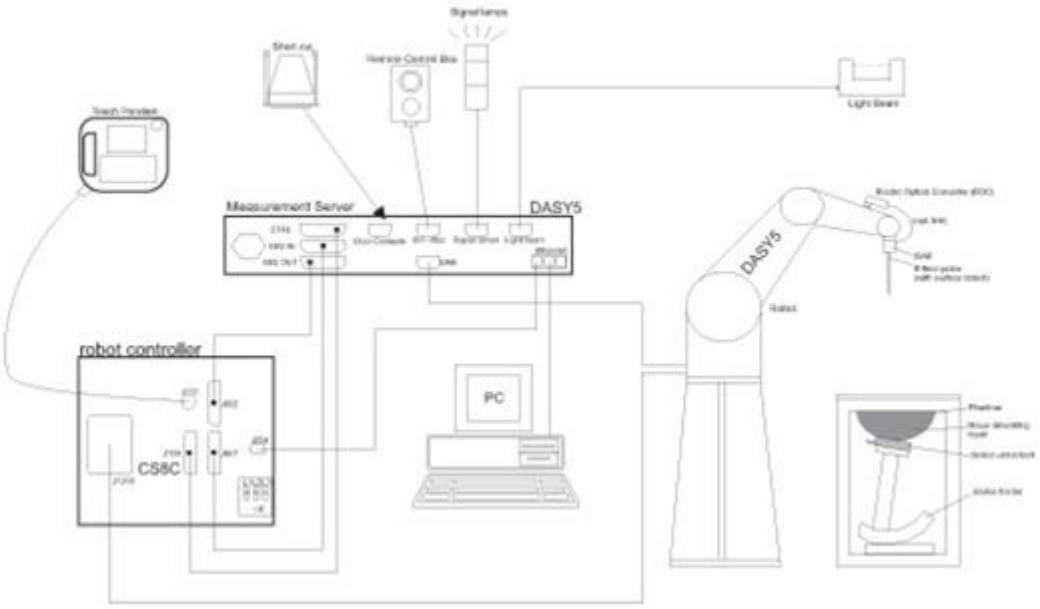
SAR is expressed in units of Watts per kilogram (W/kg)

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

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 µW/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 µW/g – >100 mW/g Linearity: ±0.2 dB (noise: typically <1 µW/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

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.

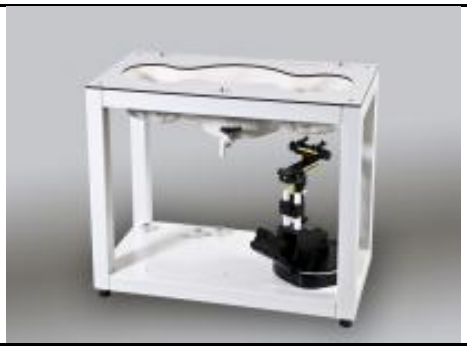
The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

Fig 5.1 Photo of DAE

6.3 Phantom

<SAM Twin Phantom>

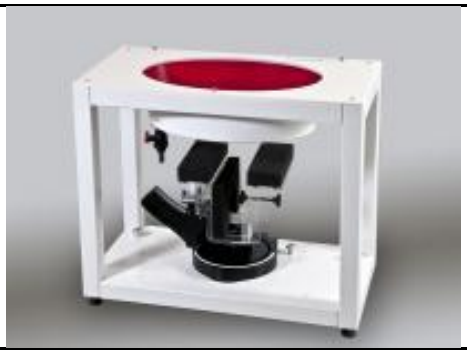
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom



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 form 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	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

7.4 Zoom Scan

Zoom scans are used 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 shoes 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: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

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 *reported* SAR from the *area scan based 1-g SAR estimation* 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 for 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	1012	Sep. 05, 2018	Sep. 04, 2020
SPEAG	835MHz System Validation Kit	D835V2	4d167	Mar. 08, 2019	Mar. 07, 2020
SPEAG	1750MHz System Validation Kit	D1750V2	1112	Mar. 07, 2019	Mar. 06, 2020
SPEAG	1900MHz System Validation Kit	D1900V2	5d041	Sep. 11, 2018	Sep. 10, 2020
SPEAG	1900MHz System Validation Kit	D1900V2	5d185	Mar. 07, 2019	Mar. 06, 2020
SPEAG	2300MHz System Validation Kit	D2300V2	1006	Jan. 28, 2019	Jan. 27, 2020
SPEAG	2450MHz System Validation Kit	D2450V2	736	Aug. 31, 2018	Aug. 30, 2020
SPEAG	2600MHz System Validation Kit	D2600V2	1078	Mar. 06, 2019	Mar. 05, 2020
SPEAG	5GHz System Validation Kit	D5GHzV2	1006	Sep. 27, 2018	Sep. 26, 2020
SPEAG	Data Acquisition Electronics	DAE3	495	May. 21, 2019	May. 20, 2020
SPEAG	Data Acquisition Electronics	DAE3	577	Sep. 17, 2019	Sep. 16, 2020
SPEAG	Data Acquisition Electronics	DAE4	778	May. 21, 2019	May. 20, 2020
SPEAG	Data Acquisition Electronics	DAE4	854	May. 21, 2019	May. 20, 2020
SPEAG	Data Acquisition Electronics	DAE4	1399	Nov. 16, 2018	Nov. 15, 2019
SPEAG	Dosimetric E-Field Probe	ES3DV3	3184	Sep. 25, 2019	Sep. 24, 2020
SPEAG	Dosimetric E-Field Probe	ES3DV3	3270	Sep. 25, 2019	Sep. 24, 2020
SPEAG	Dosimetric E-Field Probe	EX3DV4	3642	Apr. 29, 2019	Apr. 28, 2020
SPEAG	Dosimetric E-Field Probe	EX3DV4	3728	Jan. 15, 2019	Jan. 14, 2020
SPEAG	Dosimetric E-Field Probe	EX3DV4	3925	Sep. 20, 2019	Sep. 19, 2020
SPEAG	Dosimetric E-Field Probe	EX3DV4	3931	Sep. 26, 2019	Sep. 25, 2020
SPEAG	Dosimetric E-Field Probe	EX3DV4	7306	Jul. 22, 2019	Jul. 21, 2020
RCPTWN	Thermometer	HTC-1	TM685-1	Nov. 19, 2018	Nov. 18, 2019
RCPTWN	Thermometer	HTC-1	TM560-2	Nov. 12, 2019	Nov. 11, 2020
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Apr. 21, 2019	Apr. 20, 2020
Agilent	Wireless Communication Test Set	E5515C	MY50266977	May. 27, 2019	May. 26, 2020
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Dec. 11, 2018	Dec. 10, 2019
Agilent	ENA Network Analyzer	E5071C	MY46104758	Sep. 06, 2019	Sep. 05, 2020
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 18, 2019	Sep. 17, 2020
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3169	Sep. 10, 2019	Sep. 09, 2020
Anritsu	Power Meter	ML2495A	1036004	Aug. 08, 2019	Aug. 07, 2020
Anritsu	Power Sensor	MA2411B	1027253	Aug. 08, 2019	Aug. 07, 2020
Anritsu	Power Meter	ML2495A	1419002	May. 29, 2019	May. 28, 2020
Anritsu	Power Sensor	MA2411B	1339124	May. 29, 2019	May. 28, 2020
Agilent	Spectrum Analyzer	E4408B	MY44211028	Aug. 27, 2019	Aug. 26, 2020
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jun. 27, 2019	Jun. 26, 2020
Mini-Circuits	Power Amplifier	ZHL-42W+	321501827	Aug. 12, 2019	Aug. 11, 2020
Mini-Circuits	Power Amplifier	ZHL-42W+	715701915	May. 10, 2019	May. 09, 2020
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:

1. 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.
2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The justification data of dipole D750V3, SN: 1012, D1900V2, SN: 5d041, D2450V2, SN: 736, D5GHzV2, SN: 1006 can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

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.

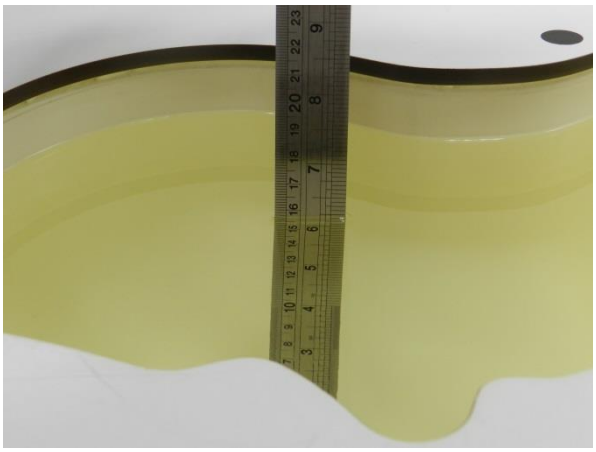


Fig 10.1Photo of Liquid Height for Head SAR

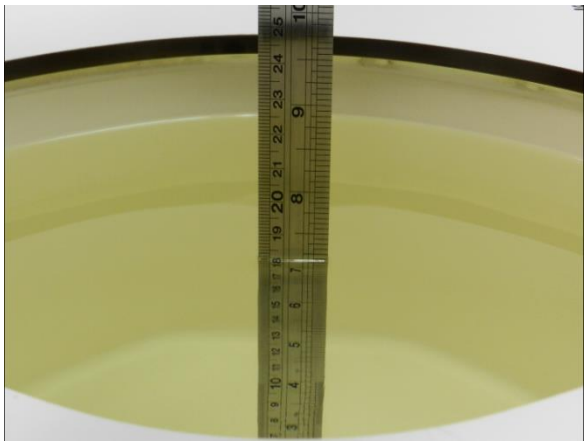


Fig 10.2 Photo of Liquid Height for Body SAR

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 (εr)
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

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)	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε_r)	Conductivity Target (σ)	Permittivity Target (ε_r)	Delta (σ) (%)	Delta (ε_r) (%)	Limit (%)	Date
750	22.5	0.894	42.839	0.89	41.90	0.45	2.24	±5	2019/10/31
750	22.2	0.893	43.172	0.89	41.90	0.34	3.04	±5	2019/11/2
750	22.6	0.904	41.980	0.89	41.90	1.57	0.19	±5	2019/11/7
750	22.5	0.925	43.261	0.89	41.90	3.93	3.25	±5	2019/12/3
750	22.5	0.896	40.602	0.89	41.90	0.67	-3.10	±5	2019/12/3
750	22.7	0.898	41.246	0.89	41.90	0.90	-1.56	±5	2019/12/6
750	22.7	0.923	43.259	0.89	41.90	3.71	3.24	±5	2019/12/8
835	22.5	0.909	41.553	0.90	41.50	1.00	0.13	±5	2019/10/31
835	22.6	0.880	41.991	0.90	41.50	-2.22	1.18	±5	2019/11/4
835	22.7	0.896	42.792	0.90	41.50	-0.44	3.11	±5	2019/12/7
835	22.3	0.913	41.373	0.90	41.50	1.44	-0.31	±5	2019/12/7
835	22.3	0.883	42.557	0.90	41.50	-1.89	2.55	±5	2019/12/8
1750	22.6	1.365	40.175	1.37	40.10	-0.36	0.19	±5	2019/10/29
1750	22.2	1.352	40.045	1.37	40.10	-1.31	-0.14	±5	2019/10/30
1750	22.5	1.377	40.629	1.37	40.10	0.51	1.32	±5	2019/11/2
1750	22.2	1.335	40.340	1.37	40.10	-2.55	0.60	±5	2019/12/5
1900	22.6	1.437	39.497	1.40	40.00	2.64	-1.26	±5	2019/10/29
1900	22.2	1.425	39.387	1.40	40.00	1.79	-1.53	±5	2019/10/30
1900	22.5	1.457	40.811	1.40	40.00	4.07	2.03	±5	2019/11/2
1900	22.6	1.403	40.798	1.40	40.00	0.21	2.00	±5	2019/11/4
1900	22.2	1.386	40.391	1.40	40.00	-1.00	0.98	±5	2019/12/4
1900	22.2	1.407	40.291	1.40	40.00	0.50	0.73	±5	2019/12/5
2300	22.5	1.593	39.435	1.67	39.50	-4.61	-0.16	±5	2019/10/31
2300	22.6	1.621	39.272	1.67	39.50	-2.93	-0.58	±5	2019/12/3
2300	22.4	1.609	39.172	1.67	39.50	-3.65	-0.83	±5	2019/12/4
2450	22.4	1.810	39.091	1.80	39.20	0.56	-0.28	±5	2019/11/1
2450	22.6	1.789	39.119	1.80	39.20	-0.61	-0.21	±5	2019/12/7
2450	22.2	1.813	38.990	1.80	39.20	0.72	-0.54	±5	2019/12/9
2600	22.5	1.909	38.477	1.96	39.00	-2.60	-1.34	±5	2019/10/31
2600	22.4	1.963	38.891	1.96	39.00	0.15	-0.28	±5	2019/11/5
2600	22.4	1.922	37.911	1.96	39.00	-1.94	-2.79	±5	2019/11/6
2600	22.4	1.989	38.243	1.96	39.00	1.48	-1.94	±5	2019/11/7
5250	22.5	4.556	36.022	4.71	35.95	-3.27	0.20	±5	2019/10/29
5250	22.2	4.734	37.432	4.71	35.95	0.51	4.12	±5	2019/11/12
5600	22.5	4.897	35.546	5.07	35.50	-3.41	0.13	±5	2019/10/30
5750	22.5	5.048	35.346	5.22	35.35	-3.30	-0.01	±5	2019/10/31

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)	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 (%)
2019/10/31	750	250	D750V3-1012	ES3DV3 - SN3184	DAE3 Sn495	2.25	8.47	9	6.26
2019/11/2	750	250	D750V3-1012	EX3DV4 - SN7306	DAE4 Sn854	2.21	8.47	8.84	4.37
2019/11/7	750	250	D750V3-1012	EX3DV4 - SN3642	DAE4 Sn1399	2.25	8.47	9	6.26
2019/12/3	750	250	D750V3-1012	EX3DV4 - SN3931	DAE4 Sn778	2.26	8.47	9.04	6.73
2019/12/3	750	250	D750V3-1012	EX3DV4 - SN3931	DAE4 Sn778	2.21	8.47	8.84	4.37
2019/12/6	750	250	D750V3-1012	EX3DV4 - SN3931	DAE4 Sn778	2.23	8.47	8.92	5.31
2019/12/8	750	250	D750V3-1012	EX3DV4 - SN3931	DAE4 Sn778	2.29	8.47	9.16	8.15
2019/10/31	835	250	D835V2-4d167	ES3DV3 - SN3184	DAE3 Sn495	2.32	9.50	9.28	-2.32
2019/11/4	835	250	D835V2-4d167	ES3DV3 - SN3270	DAE3 Sn577	2.25	9.50	9	-5.26
2019/12/7	835	250	D835V2-4d167	EX3DV4 - SN3931	DAE4 Sn778	2.36	9.50	9.44	-0.63
2019/12/7	835	250	D835V2-4d167	EX3DV4 - SN7306	DAE3 Sn495	2.35	9.50	9.4	-1.05
2019/12/8	835	250	D835V2-4d167	EX3DV4 - SN7306	DAE3 Sn495	2.39	9.50	9.56	0.63
2019/10/29	1750	250	D1750V2-1112	ES3DV3 - SN3184	DAE3 Sn495	9.56	36.70	38.24	4.20
2019/10/30	1750	250	D1750V2-1112	ES3DV3 - SN3184	DAE3 Sn495	9.47	36.70	37.88	3.22
2019/11/2	1750	250	D1750V2-1112	ES3DV3 - SN3184	DAE3 Sn495	9.65	36.70	38.6	5.18
2019/12/5	1750	250	D1750V2-1112	EX3DV4 - SN3931	DAE4 Sn778	8.97	36.70	35.88	-2.23
2019/10/29	1900	250	D1900V2-5d041	ES3DV3 - SN3184	DAE3 Sn495	10.50	40.20	42	4.48
2019/10/30	1900	250	D1900V2-5d041	ES3DV3 - SN3184	DAE3 Sn495	10.40	40.20	41.6	3.48
2019/11/2	1900	250	D1900V2-5d041	ES3DV3 - SN3184	DAE3 Sn495	10.60	40.20	42.4	5.47
2019/11/4	1900	250	D1900V2-5d185	ES3DV3 - SN3270	DAE3 Sn577	10.10	39.40	40.4	2.54
2019/12/4	1900	250	D1900V2-5d185	EX3DV4 - SN3931	DAE4 Sn778	9.83	39.40	39.32	-0.20
2019/12/5	1900	250	D1900V2-5d041	EX3DV4 - SN3931	DAE4 Sn778	9.98	40.20	39.92	-0.70
2019/10/31	2300	250	D2300V2-1006	ES3DV3 - SN3184	DAE3 Sn495	11.70	48.70	46.8	-3.90
2019/12/3	2300	250	D2300V2-1006	EX3DV4 - SN3931	DAE4 Sn778	11.90	48.70	47.6	-2.26
2019/12/4	2300	250	D2300V2-1006	EX3DV4 - SN3931	DAE4 Sn778	11.60	48.70	46.4	-4.72
2019/11/1	2450	250	D2450V2-736	EX3DV4 - SN3925	DAE4 Sn1399	12.80	52.70	51.2	-2.85
2019/12/7	2450	250	D2450V2-736	EX3DV4 - SN3728	DAE4 Sn854	13.10	52.70	52.4	-0.57
2019/12/9	2450	250	D2450V2-736	ES3DV3 - SN3270	DAE3 Sn577	13.60	52.70	54.4	3.23
2019/10/31	2600	250	D2600V2-1078	ES3DV3 - SN3184	DAE3 Sn495	13.80	57.60	55.2	-4.17
2019/11/5	2600	250	D2600V2-1078	EX3DV4 - SN3931	DAE4 Sn778	13.20	57.60	52.8	-8.33
2019/11/6	2600	250	D2600V2-1078	EX3DV4 - SN3931	DAE4 Sn778	13.70	57.60	54.8	-4.86
2019/11/7	2600	250	D2600V2-1078	EX3DV4 - SN3931	DAE4 Sn778	14.30	57.60	57.2	-0.69
2019/10/29	5250	100	D5GHzV2-1006-5250	EX3DV4 - SN3925	DAE4 Sn1399	7.75	80.70	77.5	-3.97
2019/11/12	5250	100	D5GHzV2-1006-5250	EX3DV4 - SN3925	DAE4 Sn1399	8.51	80.70	85.1	5.45
2019/10/30	5600	100	D5GHzV2-1006-5600	EX3DV4 - SN3925	DAE4 Sn1399	8.44	83.30	84.4	1.32
2019/10/31	5750	100	D5GHzV2-1006-5750	EX3DV4 - SN3925	DAE4 Sn1399	7.65	80.40	76.5	-4.85

Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2019/11/12	5250	100	D5GHzV2-1006-5250	EX3DV4 - SN3925	DAE4 Sn1399	2.42	23.20	24.2	4.31
2019/10/30	5600	100	D5GHzV2-1006-5600	EX3DV4 - SN3925	DAE4 Sn1399	2.38	23.80	23.8	0.00

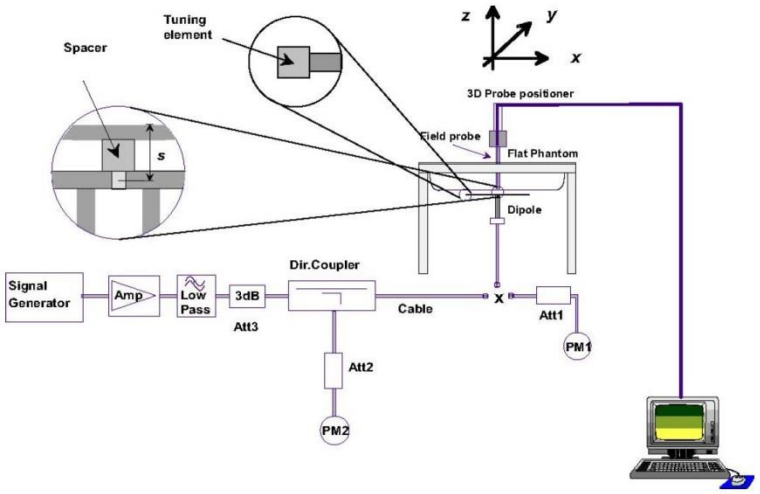


Fig 8.3.1 System Performance Check Setup

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.

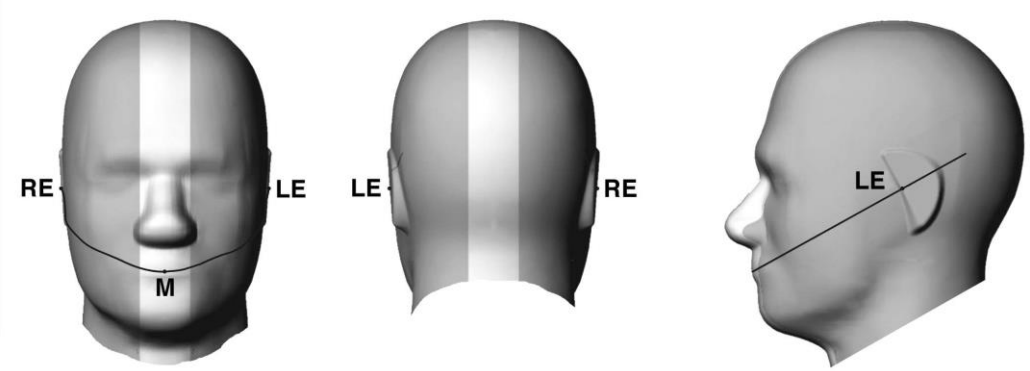


Fig 9.1.1 Front, back, and side views of SAM twin phantom

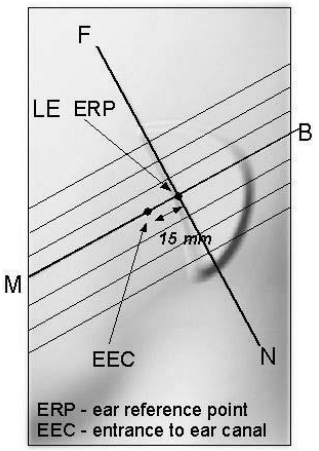


Fig 9.1.2 Close-up side view of phantom showing the ear region.

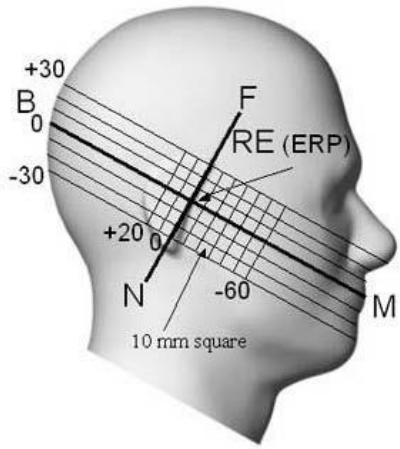


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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 wt 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 wb 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.

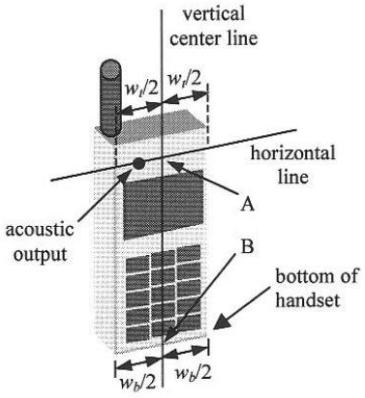


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case

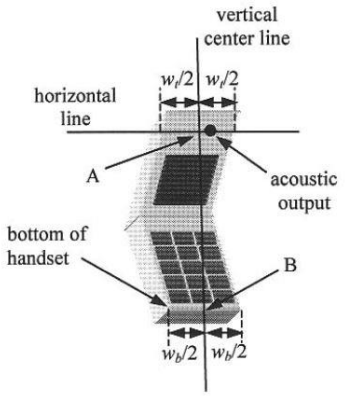


Fig 9.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

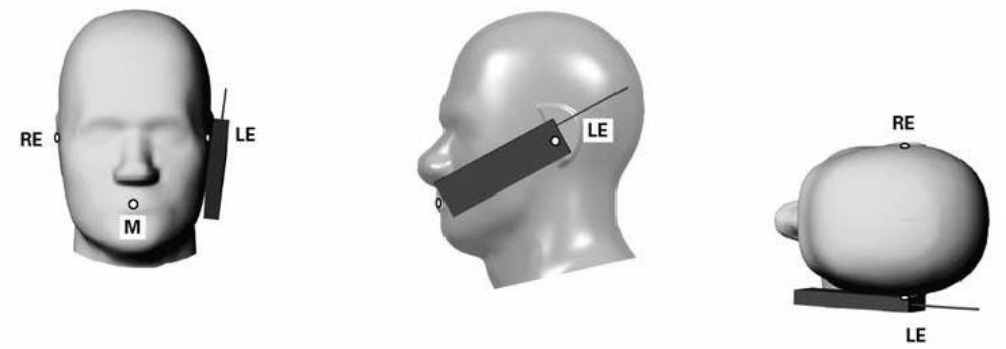


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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

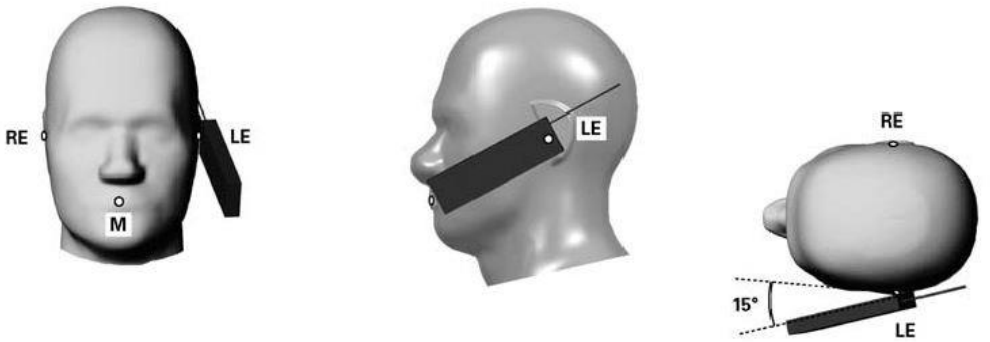


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

10.4 Product Specific Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.

2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.6 The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

10.5 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 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset 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 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-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

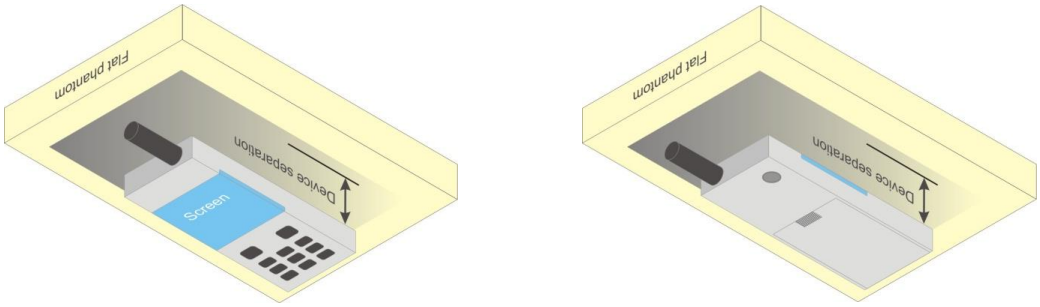


Fig 9.4 Body Worn Position

10.6 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 x W ≥ 9 cm x 5 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 form 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. WiFi off Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

1. For DTM multi-slot class mode, the device was linked with base station simulator (Agilent E5515C) and transmit maximum power on maximum number of TX slots, i.e. one CS timeslot, and additional PS timeslots (1 for DTM class 5 and 9, 2 for DTM class 11) in one TDMA frame.
2. Agilent E5515C was used to setup the device operated under DTM mode for power measurement and SAR testing. For conducted power, the power of the burst for voice and the power of the bursts for data was reported separately in the table below, and the frame-average power is derived below to determine SAR testing.

   *DTM frame average power (dBm) = 10*log [∑(power of each slot, in mW)/8]*
3. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
4. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE / DTM 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.
5. Other configurations of GSM / GPRS / EDGE / DTM 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 ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary mode

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 / Near body	Ant 0 / Ant 1	GSM 1 Tx slot		33.49	33.40	33.37	34.00	24.49	24.40	24.37	24.90
		GPRS 1 Tx slot		33.51	33.43	33.38	34.00	24.51	24.43	24.38	24.90
		GPRS 2 Tx slots		31.22	30.95	30.94	32.00	25.22	24.95	24.94	26.00
		GPRS 3 Tx slots		29.03	28.62	28.62	30.00	24.77	24.36	24.36	25.74
		GPRS 4 Tx slots		27.81	27.82	28.03	29.00	24.81	24.82	25.03	26.00
		EDGE 1 Tx slot		26.42	26.46	26.37	28.00	17.42	17.46	17.37	19.00
		EDGE 2 Tx slots		25.96	25.88	25.80	27.00	19.96	19.88	19.80	21.00
		EDGE 3 Tx slots		23.82	23.66	23.59	25.00	19.56	19.40	19.33	20.74
		EDGE 4 Tx slots		21.48	21.37	21.41	23.00	18.48	18.37	18.41	20.00
		DTM Multi-slot class 5	GSM 1 Tx slot	31.16	31.04	31.13	32.00	25.08	25.01	25.04	25.98
			GPRS 1 Tx slot	31.04	31.03	30.98	32.00				
		DTM Multi-slot class 9	GSM 1 Tx slot	30.97	31.03	31.10	32.00	24.89	24.94	25.01	25.98
			GPRS 1 Tx slot	30.85	30.90	30.95	32.00				
		DTM Multi-slot class 11	GSM 1 Tx slot	28.60	28.68	28.75	30.00	24.25	24.32	24.39	25.74
			GPRS 2 Tx slots	28.47	28.53	28.60	30.00				
		DTM Multi-slot class 5	GSM 1 Tx slot	30.91	31.01	31.07	32.00	22.98	23.04	23.09	24.16
			EDGE 1 Tx slot	25.53	25.44	25.45	27.00				
		DTM Multi-slot class 9	GSM 1 Tx slot	31.02	31.07	31.15	32.00	23.03	23.06	23.13	24.16
			EDGE 1 Tx slot	25.36	25.28	25.32	27.00				
		DTM Multi-slot class 11	GSM 1 Tx slot	28.53	28.61	28.69	30.00	21.58	21.59	21.64	23.10
			EDGE 2 Tx slots	23.40	23.29	23.30	25.00				

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 / Near body	Ant 0 / Ant 1	GSM 1 Tx slot		30.94	30.99	30.97	31.00	21.94	21.99	21.97	22.00
		GPRS 1 Tx slot		30.95	31.00	30.99	31.00	21.95	22.00	21.99	22.00
		GPRS 2 Tx slots		28.35	28.30	28.24	29.50	22.35	22.30	22.24	23.50
		GPRS 3 Tx slots		26.82	26.73	26.63	27.50	22.56	22.47	22.37	23.24
		GPRS 4 Tx slots		25.64	25.52	25.41	26.50	22.64	22.52	22.41	23.50
		EDGE 1 Tx slot		26.28	26.26	26.25	27.00	17.28	17.26	17.25	18.00
		EDGE 2 Tx slots		25.65	25.36	25.44	26.00	19.65	19.36	19.44	20.00
		EDGE 3 Tx slots		24.56	24.11	24.21	25.00	20.30	19.85	19.95	20.74
		EDGE 4 Tx slots		23.05	22.92	22.80	24.00	20.05	19.92	19.80	21.00
		DTM Multi-slot class 5	GSM 1 Tx slot	28.00	28.26	28.20	29.50	21.92	22.17	22.10	23.48
			GPRS 1 Tx slot	27.88	28.12	28.04	29.50				
		DTM Multi-slot class 9	GSM 1 Tx slot	28.00	28.26	28.18	29.50	21.92	22.17	22.09	23.48
			GPRS 1 Tx slot	27.88	28.11	28.04	29.50				
		DTM Multi-slot class 11	GSM 1 Tx slot	26.44	26.34	26.44	27.50	22.10	21.98	22.07	23.24
			GPRS 2 Tx slots	26.32	26.19	26.28	27.50				
		DTM Multi-slot class 5	GSM 1 Tx slot	27.88	28.13	28.05	29.50	20.80	20.92	20.87	22.07
			EDGE 1 Tx slot	25.41	25.31	25.31	26.00				
		DTM Multi-slot class 9	GSM 1 Tx slot	27.92	28.18	28.20	29.50	20.78	20.91	20.92	22.07
			EDGE 1 Tx slot	25.29	25.18	25.16	26.00				
		DTM Multi-slot class 11	GSM 1 Tx slot	26.24	26.13	26.18	27.50	20.79	20.69	20.67	21.74
			EDGE 2 Tx slots	24.31	24.21	24.13	25.00				

<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} *(Note1, 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 Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_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 Δ_{NACK} = 30/15 with β_{hs} = 30/15 * β_c, and Δ_{CQI} = 24/15 with β_{hs} = 24/15 * β_c.

Note 3: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 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 β_c = 11/15 and β_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} (Note1)	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	209/225	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	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 47/15	4 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 Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c. For sub-test 5, Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 5/15 with β_{hs} = 5/15 * β_c.

Note 2: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c=24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_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: β_c/β_d=2/15
      b). Subtest 2: β_c/β_d=12/15
      c). Subtest 3: β_c/β_d=15/8
      d). Subtest 4: β_c/β_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 Factor 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	Proces ses	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.		

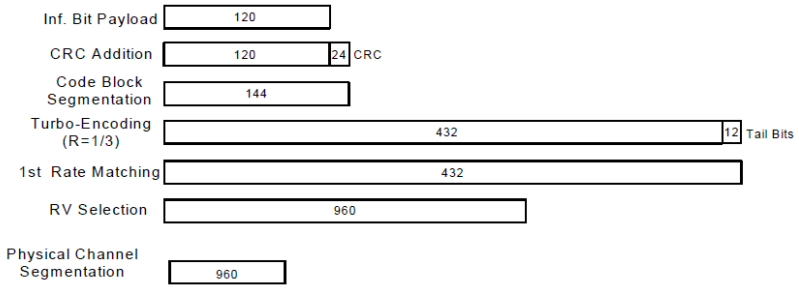


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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 ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

Power Selection	Transmit Antenna	Band		WCDMA IV			WCDMA V		
		TX Channel		1312	1413	1513	4132	4182	4233
		Rx Channel		1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1712.4	1732.6	1752.6	826.4	836.4	846.6
Head / Near body	Ant 0 / Ant 1	Max Power		24			24.5		
		3GPP Rel 99	AMR 12.2Kbps	23.67	23.62	23.50	23.60	23.51	23.39
		3GPP Rel 99	RMC 12.2Kbps	23.68	23.64	23.55	23.62	23.53	23.39
		Max Power		24			23		
		3GPP Rel 6	HSDPA Subtest-1	23.61	23.53	23.45	22.60	22.49	22.42
		3GPP Rel 6	HSDPA Subtest-2	23.61	23.51	23.42	22.63	22.49	22.42
		3GPP Rel 6	HSDPA Subtest-3	23.06	23.02	22.98	22.16	22.01	21.93
		3GPP Rel 6	HSDPA Subtest-4	23.09	23.05	22.92	22.14	22.03	21.92
		Max Power		24			23		
		3GPP Rel 8	DC-HSDPA Subtest-1	23.65	23.60	23.48	22.44	22.40	22.27
		3GPP Rel 8	DC-HSDPA Subtest-2	23.60	23.45	23.30	22.50	22.42	22.26
		3GPP Rel 8	DC-HSDPA Subtest-3	23.04	23.14	23.05	22.10	21.97	21.93
		3GPP Rel 8	DC-HSDPA Subtest-4	23.02	22.82	22.81	22.09	21.96	21.78
		Max Power		24			23		
		3GPP Rel 6	HSUPA Subtest-1	23.57	23.51	23.42	22.62	22.46	22.42
		3GPP Rel 6	HSUPA Subtest-2	21.60	21.53	21.42	20.63	20.43	20.35
		3GPP Rel 6	HSUPA Subtest-3	22.60	22.52	22.47	21.64	21.50	21.36
		3GPP Rel 6	HSUPA Subtest-4	21.56	21.51	21.49	20.63	20.48	20.36
		3GPP Rel 6	HSUPA Subtest-5	23.60	23.50	23.40	22.60	22.50	22.40

Power Selection	Transmit Antenna	Band		WCDMA II		
		TX Channel		9262	9400	9538
		Rx Channel		9662	9800	9938
		Frequency (MHz)		1852.4	1880	1907.6
Head / Near body	Ant 0 / Ant 1	Max Power		25.7		
		3GPP Rel 99	AMR 12.2Kbps	25.40	25.37	25.56
		3GPP Rel 99	RMC 12.2Kbps	25.41	25.40	25.58
		Max Power		25.1		
		3GPP Rel 6	HSDPA Subtest-1	24.54	24.56	24.72
		3GPP Rel 6	HSDPA Subtest-2	24.61	24.57	24.79
		3GPP Rel 6	HSDPA Subtest-3	24.02	24.05	24.30
		3GPP Rel 6	HSDPA Subtest-4	24.01	24.04	24.26
		Max Power		25.1		
		3GPP Rel 8	DC-HSDPA Subtest-1	24.36	24.44	24.67
		3GPP Rel 8	DC-HSDPA Subtest-2	24.47	24.56	24.66
		3GPP Rel 8	DC-HSDPA Subtest-3	23.84	23.87	24.24
		3GPP Rel 8	DC-HSDPA Subtest-4	23.92	23.90	24.09
		Max Power		25.1		
		3GPP Rel 6	HSUPA Subtest-1	24.57	24.58	24.75
		3GPP Rel 6	HSUPA Subtest-2	22.50	22.55	22.74
		3GPP Rel 6	HSUPA Subtest-3	23.56	23.57	23.76
		3GPP Rel 6	HSUPA Subtest-4	22.55	22.52	22.79
		3GPP Rel 6	HSUPA Subtest-5	24.60	24.60	24.80

<CDMA2000 Conducted Power>

General Note:

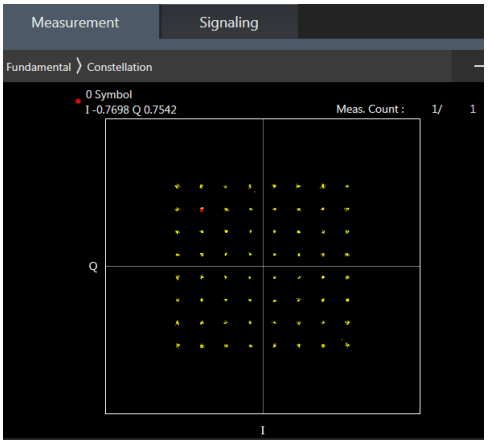
1. Per KDB 941225 D01v03r01, SAR for head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
3. Per KDB 941225 D01v03r01, 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.

Power Selection	Transmit Antenna	Band	CDMA BC0			CDMA BC1			CDMA BC10		
		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
Head / Near body	Ant 0 / Ant 1	Max Power	25.5			25			25.5		
		RC1 SO55	24.57	24.62	24.51	24.90	24.89	24.88	24.46	24.58	24.62
		RC3 SO55	24.61	24.66	24.49	25.00	24.99	24.96	24.47	24.58	24.66
		RC3 SO32 (F+SCH)	24.60	24.66	24.65	24.99	24.98	24.95	24.60	24.58	24.65
		RC3 SO32 (+SCH)	24.62	24.59	24.62	24.97	24.93	24.95	24.55	24.53	24.66
		RTAP 153.6Kbps	24.72	24.62	24.64	24.99	24.98	24.97	24.61	24.59	24.64
		RETAP 4096Bits	24.69	24.60	24.61	25.00	24.99	24.97	24.57	24.54	24.62

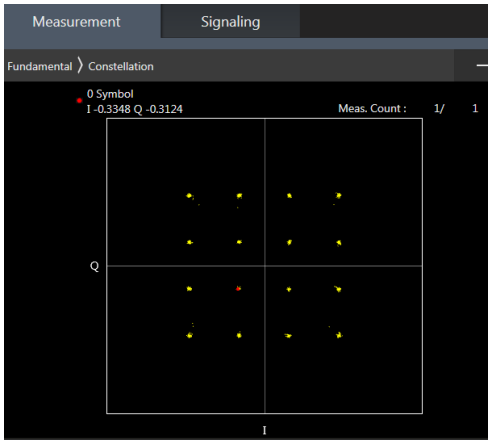
<LTE Conducted Power>

General Note:

1. Anritsu MT8820C 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 ½ 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 ½ 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 B12/38 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 2/5/4/17 SAR test was covered by Band 25/26/66/12; 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 ≤ 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>

Power Selection				Head / Near body		
Transmit Antenna				Ant 0 / Ant 1		
Max. Power				25.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	25.16	25.39	24.96
20	QPSK	1	49	25.19	25.21	25.06
20	QPSK	1	99	25.27	25.20	25.09
20	QPSK	50	0	24.25	24.28	24.14
20	QPSK	50	24	24.30	24.32	24.18
20	QPSK	50	50	24.32	24.26	24.12
20	QPSK	100	0	24.34	24.27	24.16
20	16QAM	1	0	24.53	24.56	24.35
20	16QAM	1	49	24.48	24.53	24.39
20	16QAM	1	99	24.56	24.49	24.37
20	16QAM	50	0	23.34	23.36	23.23
20	16QAM	50	24	23.36	23.41	23.24
20	16QAM	50	50	23.42	23.37	23.23
20	16QAM	100	0	23.42	23.35	23.21
20	64QAM	1	0	23.46	23.48	23.29
20	64QAM	1	49	23.42	23.50	23.27
20	64QAM	1	99	23.47	23.41	23.28
20	64QAM	50	0	22.36	22.40	22.24
20	64QAM	50	24	22.38	22.39	22.28
20	64QAM	50	50	22.46	22.37	22.23
20	64QAM	100	0	22.45	22.35	22.24
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	25.14	25.13	24.81
15	QPSK	1	37	25.04	25.29	24.82
15	QPSK	1	74	25.27	25.18	24.92
15	QPSK	36	0	24.33	24.32	24.10
15	QPSK	36	20	24.15	24.30	23.89
15	QPSK	36	39	24.18	24.25	24.06
15	QPSK	75	0	24.13	24.08	24.05
15	16QAM	1	0	24.63	24.48	24.40
15	16QAM	1	37	24.41	24.23	24.12
15	16QAM	1	74	24.52	24.33	24.14
15	16QAM	36	0	23.14	23.34	23.01
15	16QAM	36	20	23.28	23.38	23.16
15	16QAM	36	39	23.20	23.30	22.93
15	16QAM	75	0	23.15	23.26	23.26
15	64QAM	1	0	23.33	23.24	23.28
15	64QAM	1	37	23.24	23.34	23.28
15	64QAM	1	74	23.56	23.13	23.06
15	64QAM	36	0	22.13	22.26	22.20
15	64QAM	36	20	22.09	22.28	22.03
15	64QAM	36	39	22.35	22.21	21.98
15	64QAM	75	0	22.38	22.42	22.01
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	25.12	25.28	24.92
10	QPSK	1	25	25.10	25.31	24.79

10	QPSK	1	49	25.28	25.06	24.79
10	QPSK	25	0	24.09	24.17	24.14
10	QPSK	25	12	24.39	24.27	23.99
10	QPSK	25	25	24.35	24.15	24.17
10	QPSK	50	0	24.09	24.02	23.98
10	16QAM	1	0	24.31	24.49	24.08
10	16QAM	1	25	24.19	24.31	24.30
10	16QAM	1	49	24.32	24.27	24.32
10	16QAM	25	0	23.40	23.39	23.29
10	16QAM	25	12	23.24	23.13	23.31
10	16QAM	25	25	23.51	23.47	23.10
10	16QAM	50	0	23.37	23.20	23.07
10	64QAM	1	0	23.47	23.32	23.37
10	64QAM	1	25	23.18	23.44	23.26
10	64QAM	1	49	23.56	23.19	23.34
10	64QAM	25	0	22.07	22.16	21.94
10	64QAM	25	12	22.30	22.25	22.35
10	64QAM	25	25	22.42	22.37	22.08
10	64QAM	50	0	22.51	22.42	22.01
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	25.23	25.25	24.94
5	QPSK	1	12	24.92	25.29	24.83
5	QPSK	1	24	25.24	24.91	24.84
5	QPSK	12	0	24.15	24.11	24.16
5	QPSK	12	7	24.30	24.02	23.91
5	QPSK	12	13	24.18	24.35	23.90
5	QPSK	25	0	24.10	24.34	24.18
5	16QAM	1	0	24.60	24.47	24.15
5	16QAM	1	12	24.28	24.28	24.30
5	16QAM	1	24	24.45	24.55	24.10
5	16QAM	12	0	23.20	23.28	23.16
5	16QAM	12	7	23.33	23.45	23.06
5	16QAM	12	13	23.15	23.13	23.17
5	16QAM	25	0	23.29	23.37	22.96
5	64QAM	1	0	23.16	23.38	23.30
5	64QAM	1	12	23.20	23.60	23.34
5	64QAM	1	24	23.43	23.42	23.16
5	64QAM	12	0	22.23	22.23	22.23
5	64QAM	12	7	22.35	22.32	22.28
5	64QAM	12	13	22.24	22.14	22.23
5	64QAM	25	0	22.42	22.45	21.97
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	25.08	25.25	24.83
3	QPSK	1	8	25.06	25.27	24.90
3	QPSK	1	14	25.29	25.07	24.91
3	QPSK	8	0	23.99	24.13	24.00
3	QPSK	8	4	24.37	24.09	24.04
3	QPSK	8	7	24.20	24.05	23.87
3	QPSK	15	0	24.08	24.23	23.92
3	16QAM	1	0	24.44	24.62	24.30
3	16QAM	1	8	24.35	24.23	24.34
3	16QAM	1	14	24.26	24.51	24.21
3	16QAM	8	0	23.43	23.42	23.24
3	16QAM	8	4	23.30	23.31	22.96

3	16QAM	8	7	23.35	23.39	23.12
3	16QAM	15	0	23.38	23.41	23.28
3	64QAM	1	0	23.49	23.47	23.29
3	64QAM	1	8	23.43	23.22	23.03
3	64QAM	1	14	23.45	23.28	23.37
3	64QAM	8	0	22.15	22.21	22.11
3	64QAM	8	4	22.39	22.26	22.24
3	64QAM	8	7	22.26	22.07	22.18
3	64QAM	15	0	22.50	22.18	22.08
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	24.76	25.11	24.94
1.4	QPSK	1	3	24.97	25.11	24.84
1.4	QPSK	1	5	24.87	25.04	24.94
1.4	QPSK	3	0	25.04	24.86	24.88
1.4	QPSK	3	1	24.96	24.97	25.03
1.4	QPSK	3	3	25.08	24.87	24.82
1.4	QPSK	6	0	23.98	24.08	24.14
1.4	16QAM	1	0	24.46	24.09	24.28
1.4	16QAM	1	3	24.50	24.07	23.95
1.4	16QAM	1	5	24.42	23.98	23.91
1.4	16QAM	3	0	24.15	23.88	24.21
1.4	16QAM	3	1	24.32	23.98	24.08
1.4	16QAM	3	3	24.05	23.96	24.14
1.4	16QAM	6	0	22.96	22.92	23.07
1.4	64QAM	1	0	23.19	23.21	23.14
1.4	64QAM	1	3	22.95	23.13	23.12
1.4	64QAM	1	5	22.84	23.15	22.93
1.4	64QAM	3	0	23.23	23.01	23.07
1.4	64QAM	3	1	23.21	22.77	22.81
1.4	64QAM	3	3	22.92	22.94	22.78
1.4	64QAM	6	0	22.18	21.88	22.16

<LTE Band 4>

Power Selection				Head / Near body		
Transmit Antenna				Ant 0 / Ant 1		
Max. Power				24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	24.23	24.17	24.17
20	QPSK	1	49	24.27	24.21	24.17
20	QPSK	1	99	24.20	24.14	24.09
20	QPSK	50	0	23.39	23.30	23.25
20	QPSK	50	24	23.35	23.29	23.29
20	QPSK	50	50	23.31	23.25	23.18
20	QPSK	100	0	23.32	23.27	23.25
20	16QAM	1	0	23.66	23.49	23.47
20	16QAM	1	49	23.60	23.49	23.51
20	16QAM	1	99	23.52	23.49	23.44
20	16QAM	50	0	22.43	22.39	22.34
20	16QAM	50	24	22.44	22.37	22.36
20	16QAM	50	50	22.39	22.32	22.30
20	16QAM	100	0	22.40	22.33	22.28
20	64QAM	1	0	22.59	22.48	22.41
20	64QAM	1	49	22.51	22.43	22.41
20	64QAM	1	99	22.44	22.43	22.39
20	64QAM	50	0	21.43	21.39	21.34
20	64QAM	50	24	21.43	21.42	21.37
20	64QAM	50	50	21.39	21.35	21.29
20	64QAM	100	0	21.41	21.35	21.33
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	24.06	24.06	24.01
15	QPSK	1	37	24.20	24.04	24.12
15	QPSK	1	74	24.15	24.14	24.01
15	QPSK	36	0	23.32	23.20	23.13
15	QPSK	36	20	23.18	23.11	23.13
15	QPSK	36	39	23.24	23.08	23.13
15	QPSK	75	0	23.14	23.24	23.14
15	16QAM	1	0	23.65	23.44	23.40
15	16QAM	1	37	23.48	23.39	23.44
15	16QAM	1	74	23.43	23.48	23.33
15	16QAM	36	0	22.28	22.35	22.31
15	16QAM	36	20	22.24	22.32	22.21
15	16QAM	36	39	22.37	22.29	22.29
15	16QAM	75	0	22.38	22.19	22.12
15	64QAM	1	0	22.43	22.39	22.37
15	64QAM	1	37	22.34	22.29	22.23
15	64QAM	1	74	22.35	22.41	22.39
15	64QAM	36	0	21.25	21.23	21.25
15	64QAM	36	20	21.41	21.25	21.33
15	64QAM	36	39	21.20	21.23	21.21
15	64QAM	75	0	21.39	21.30	21.31
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	24.08	24.04	24.06
10	QPSK	1	25	24.19	24.18	23.97

10	QPSK	1	49	24.18	23.98	24.07
10	QPSK	25	0	23.29	23.23	23.22
10	QPSK	25	12	23.30	23.21	23.29
10	QPSK	25	25	23.23	23.14	23.12
10	QPSK	50	0	23.15	23.17	23.08
10	16QAM	1	0	23.55	23.37	23.34
10	16QAM	1	25	23.45	23.37	23.39
10	16QAM	1	49	23.33	23.30	23.26
10	16QAM	25	0	22.41	22.26	22.30
10	16QAM	25	12	22.34	22.36	22.29
10	16QAM	25	25	22.30	22.12	22.25
10	16QAM	50	0	22.28	22.15	22.15
10	64QAM	1	0	22.49	22.32	22.41
10	64QAM	1	25	22.43	22.40	22.34
10	64QAM	1	49	22.25	22.24	22.30
10	64QAM	25	0	21.29	21.36	21.27
10	64QAM	25	12	21.34	21.40	21.33
10	64QAM	25	25	21.28	21.26	21.27
10	64QAM	50	0	21.41	21.21	21.26
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	24.10	24.09	24.07
5	QPSK	1	12	24.24	24.11	23.98
5	QPSK	1	24	24.11	24.12	24.05
5	QPSK	12	0	23.28	23.14	23.06
5	QPSK	12	7	23.32	23.13	23.14
5	QPSK	12	13	23.28	23.23	23.13
5	QPSK	25	0	23.21	23.12	23.08
5	16QAM	1	0	23.56	23.39	23.40
5	16QAM	1	12	23.57	23.48	23.39
5	16QAM	1	24	23.49	23.31	23.36
5	16QAM	12	0	22.40	22.29	22.21
5	16QAM	12	7	22.41	22.30	22.17
5	16QAM	12	13	22.37	22.20	22.18
5	16QAM	25	0	22.24	22.20	22.09
5	64QAM	1	0	22.41	22.44	22.31
5	64QAM	1	12	22.40	22.41	22.34
5	64QAM	1	24	22.30	22.32	22.33
5	64QAM	12	0	21.41	21.32	21.22
5	64QAM	12	7	21.37	21.33	21.34
5	64QAM	12	13	21.31	21.16	21.15
5	64QAM	25	0	21.37	21.16	21.24
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	24.13	23.98	23.97
3	QPSK	1	8	24.15	24.09	24.16
3	QPSK	1	14	24.12	24.08	23.94
3	QPSK	8	0	23.20	23.10	23.13
3	QPSK	8	4	23.33	23.22	23.15
3	QPSK	8	7	23.28	23.22	22.98
3	QPSK	15	0	23.29	23.09	23.20
3	16QAM	1	0	23.53	23.39	23.28
3	16QAM	1	8	23.58	23.45	23.50
3	16QAM	1	14	23.45	23.29	23.36
3	16QAM	8	0	22.29	22.36	22.25
3	16QAM	8	4	22.32	22.21	22.31

3	16QAM	8	7	22.26	22.13	22.18
3	16QAM	15	0	22.29	22.21	22.17
3	64QAM	1	0	22.49	22.30	22.36
3	64QAM	1	8	22.41	22.24	22.30
3	64QAM	1	14	22.38	22.35	22.24
3	64QAM	8	0	21.34	21.27	21.28
3	64QAM	8	4	21.39	21.27	21.36
3	64QAM	8	7	21.32	21.31	21.23
3	64QAM	15	0	21.26	21.23	21.22
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	24.10	24.17	24.09
1.4	QPSK	1	3	24.25	24.19	24.10
1.4	QPSK	1	5	24.15	24.10	23.94
1.4	QPSK	3	0	24.09	24.00	24.01
1.4	QPSK	3	1	24.25	24.09	24.06
1.4	QPSK	3	3	24.14	24.08	23.98
1.4	QPSK	6	0	23.27	23.10	23.17
1.4	16QAM	1	0	23.54	23.31	23.46
1.4	16QAM	1	3	23.60	23.33	23.32
1.4	16QAM	1	5	23.48	23.33	23.29
1.4	16QAM	3	0	23.46	23.22	23.40
1.4	16QAM	3	1	23.60	23.24	23.25
1.4	16QAM	3	3	23.28	23.13	23.21
1.4	16QAM	6	0	22.22	22.13	22.17
1.4	64QAM	1	0	22.47	22.48	22.25
1.4	64QAM	1	3	22.35	22.23	22.22
1.4	64QAM	1	5	22.24	22.37	22.21
1.4	64QAM	3	0	22.28	22.32	22.22
1.4	64QAM	3	1	22.22	22.15	22.06
1.4	64QAM	3	3	22.13	22.19	22.06
1.4	64QAM	6	0	21.28	21.26	21.28

<LTE Band 5>

Power Selection				Head / Near body		
Transmit Antenna				Ant 0 / Ant 1		
Max. Power				25.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	24.41	24.62	24.52
10	QPSK	1	25	24.45	24.57	24.55
10	QPSK	1	49	24.35	24.36	24.32
10	QPSK	25	0	23.46	23.46	23.48
10	QPSK	25	12	23.48	23.49	23.60
10	QPSK	25	25	23.49	23.62	23.62
10	QPSK	50	0	23.46	23.59	23.77
10	16QAM	1	0	23.69	23.55	23.58
10	16QAM	1	25	23.73	23.70	23.81
10	16QAM	1	49	23.57	23.56	23.66
10	16QAM	25	0	22.45	22.43	22.52
10	16QAM	25	12	22.45	22.46	22.59
10	16QAM	25	25	22.41	22.50	22.55
10	16QAM	50	0	22.60	22.69	22.82
10	64QAM	1	0	22.79	22.79	22.88
10	64QAM	1	25	22.52	22.53	22.63
10	64QAM	1	49	22.59	22.77	22.79
10	64QAM	25	0	21.52	21.54	21.65
10	64QAM	25	12	21.51	21.56	21.67
10	64QAM	25	25	21.57	21.53	21.61
10	64QAM	50	0	21.50	21.58	21.75
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	24.44	24.49	24.55
5	QPSK	1	12	24.47	24.53	24.40
5	QPSK	1	24	24.11	24.27	24.29
5	QPSK	12	0	23.21	23.53	23.50
5	QPSK	12	7	23.24	23.49	23.42
5	QPSK	12	13	23.59	23.67	23.60
5	QPSK	25	0	23.54	23.58	23.49
5	16QAM	1	0	23.77	23.50	23.38
5	16QAM	1	12	23.77	23.52	23.58
5	16QAM	1	24	23.52	23.34	23.58
5	16QAM	12	0	22.52	22.52	22.31
5	16QAM	12	7	22.18	22.54	22.46
5	16QAM	12	13	22.12	22.55	22.26
5	16QAM	25	0	22.37	22.61	22.70
5	64QAM	1	0	22.72	22.73	22.86
5	64QAM	1	12	22.55	22.45	22.33
5	64QAM	1	24	22.66	22.64	22.64
5	64QAM	12	0	21.37	21.55	21.58
5	64QAM	12	7	21.39	21.63	21.74
5	64QAM	12	13	21.58	21.46	21.65
5	64QAM	25	0	21.23	21.35	21.74
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	24.16	24.63	24.47
3	QPSK	1	8	24.27	24.64	24.59

3	QPSK	1	14	24.43	24.37	24.07
3	QPSK	8	0	23.21	23.44	23.19
3	QPSK	8	4	23.58	23.29	23.69
3	QPSK	8	7	23.41	23.68	23.38
3	QPSK	15	0	23.34	23.57	23.86
3	16QAM	1	0	23.42	23.34	23.32
3	16QAM	1	8	23.46	23.63	23.91
3	16QAM	1	14	23.49	23.57	23.70
3	16QAM	8	0	22.42	22.34	22.37
3	16QAM	8	4	22.34	22.41	22.54
3	16QAM	8	7	22.17	22.25	22.44
3	16QAM	15	0	22.57	22.62	22.76
3	64QAM	1	0	22.75	22.83	22.68
3	64QAM	1	8	22.24	22.44	22.62
3	64QAM	1	14	22.29	22.76	22.76
3	64QAM	8	0	21.28	21.58	21.44
3	64QAM	8	4	21.33	21.61	21.54
3	64QAM	8	7	21.46	21.36	21.35
3	64QAM	15	0	21.30	21.35	21.63
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.97	24.27	24.02
1.4	QPSK	1	3	24.23	24.01	23.98
1.4	QPSK	1	5	23.95	23.82	23.94
1.4	QPSK	3	0	23.99	23.75	23.79
1.4	QPSK	3	1	24.06	24.12	23.94
1.4	QPSK	3	3	24.08	24.06	23.77
1.4	QPSK	6	0	23.00	22.82	22.87
1.4	16QAM	1	0	23.49	23.27	23.46
1.4	16QAM	1	3	23.33	23.08	23.42
1.4	16QAM	1	5	23.18	23.41	23.20
1.4	16QAM	3	0	23.17	23.31	23.10
1.4	16QAM	3	1	23.69	23.21	23.32
1.4	16QAM	3	3	23.15	22.86	23.06
1.4	16QAM	6	0	22.12	22.23	21.97
1.4	64QAM	1	0	22.36	22.26	22.30
1.4	64QAM	1	3	22.20	22.32	22.05
1.4	64QAM	1	5	22.27	22.11	22.21
1.4	64QAM	3	0	22.02	22.12	21.96
1.4	64QAM	3	1	21.94	21.97	21.92
1.4	64QAM	3	3	22.08	22.15	21.99
1.4	64QAM	6	0	21.12	21.07	21.21

<LTE Band 7>

Power Selection				Head / Near body		
Transmit Antenna				Ant 2		
Max. Power				24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	24.03	23.94	23.82
20	QPSK	1	49	23.86	23.82	23.68
20	QPSK	1	99	23.89	23.84	23.66
20	QPSK	50	0	22.86	22.86	22.69
20	QPSK	50	24	22.93	22.92	22.76
20	QPSK	50	50	23.01	22.94	22.79
20	QPSK	100	0	22.94	22.90	22.77
20	16QAM	1	0	23.14	23.21	22.97
20	16QAM	1	49	23.15	23.14	22.97
20	16QAM	1	99	23.41	23.28	23.14
20	16QAM	50	0	21.97	21.95	21.82
20	16QAM	50	24	22.04	21.99	21.85
20	16QAM	50	50	22.09	22.04	21.89
20	16QAM	100	0	22.00	21.97	21.80
20	64QAM	1	0	22.14	22.11	21.85
20	64QAM	1	49	22.07	22.07	21.90
20	64QAM	1	99	22.29	22.20	22.05
20	64QAM	50	0	20.99	20.95	20.82
20	64QAM	50	24	21.01	20.97	20.86
20	64QAM	50	50	21.14	21.03	20.88
20	64QAM	100	0	21.03	20.98	20.83
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	23.89	23.88	23.55
15	QPSK	1	37	23.79	23.80	23.65
15	QPSK	1	74	23.92	23.76	23.71
15	QPSK	36	0	22.84	22.66	22.51
15	QPSK	36	20	22.92	22.90	22.60
15	QPSK	36	39	23.01	22.94	22.65
15	QPSK	75	0	22.94	22.86	22.74
15	16QAM	1	0	22.97	23.17	22.92
15	16QAM	1	37	23.15	23.07	22.80
15	16QAM	1	74	23.31	23.28	23.13
15	16QAM	36	0	21.80	21.93	21.78
15	16QAM	36	20	21.85	21.89	21.75
15	16QAM	36	39	21.90	21.86	21.84
15	16QAM	75	0	21.96	21.95	21.60
15	64QAM	1	0	21.97	22.01	21.84
15	64QAM	1	37	22.01	21.98	21.87
15	64QAM	1	74	22.23	22.06	21.96
15	64QAM	36	0	20.85	20.94	20.82
15	64QAM	36	20	20.89	20.91	20.82
15	64QAM	36	39	21.05	20.99	20.78
15	64QAM	75	0	20.89	20.84	20.72
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	23.79	23.71	23.61
10	QPSK	1	25	23.86	23.65	23.58

10	QPSK	1	49	23.97	23.84	23.67
10	QPSK	25	0	22.79	22.71	22.49
10	QPSK	25	12	22.91	22.79	22.76
10	QPSK	25	25	22.95	22.78	22.61
10	QPSK	50	0	22.89	22.72	22.59
10	16QAM	1	0	22.95	23.05	22.86
10	16QAM	1	25	23.04	23.05	22.87
10	16QAM	1	49	23.22	23.15	23.13
10	16QAM	25	0	21.95	21.84	21.74
10	16QAM	25	12	21.85	21.91	21.72
10	16QAM	25	25	21.91	22.04	21.84
10	16QAM	50	0	21.82	21.97	21.71
10	64QAM	1	0	22.02	22.08	21.65
10	64QAM	1	25	21.93	21.89	21.79
10	64QAM	1	49	22.12	22.07	22.03
10	64QAM	25	0	20.93	20.75	20.76
10	64QAM	25	12	20.82	20.92	20.72
10	64QAM	25	25	21.01	20.94	20.88
10	64QAM	50	0	21.02	20.78	20.78
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	23.81	23.72	23.62
5	QPSK	1	12	23.82	23.74	23.50
5	QPSK	1	24	23.84	23.88	23.82
5	QPSK	12	0	22.77	22.67	22.56
5	QPSK	12	7	22.78	22.88	22.74
5	QPSK	12	13	22.92	22.87	22.77
5	QPSK	25	0	22.80	22.85	22.61
5	16QAM	1	0	23.06	23.21	22.84
5	16QAM	1	12	23.04	23.00	22.92
5	16QAM	1	24	23.26	23.19	23.03
5	16QAM	12	0	21.89	21.82	21.76
5	16QAM	12	7	21.98	21.92	21.77
5	16QAM	12	13	22.09	21.89	21.81
5	16QAM	25	0	21.99	21.86	21.68
5	64QAM	1	0	22.07	22.03	21.78
5	64QAM	1	12	21.93	21.99	21.84
5	64QAM	1	24	22.13	22.20	22.03
5	64QAM	12	0	20.98	20.92	20.79
5	64QAM	12	7	20.82	20.97	20.76
5	64QAM	12	13	21.08	21.02	20.86
5	64QAM	25	0	21.02	20.86	20.74

<LTE Band 12>

Power Selection				Head / Near body		
Transmit Antenna				Ant 0 / Ant 1		
Max. Power				25.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	24.73	24.70	24.71
10	QPSK	1	25	24.67	24.69	24.66
10	QPSK	1	49	24.70	24.67	24.49
10	QPSK	25	0	23.77	23.75	23.68
10	QPSK	25	12	23.65	23.74	23.69
10	QPSK	25	25	23.75	23.70	23.68
10	QPSK	50	0	23.78	23.70	23.71
10	16QAM	1	0	23.80	23.94	24.00
10	16QAM	1	25	23.99	24.01	23.96
10	16QAM	1	49	24.03	23.97	24.04
10	16QAM	25	0	22.73	22.83	22.79
10	16QAM	25	12	22.86	22.83	22.80
10	16QAM	25	25	22.84	22.79	22.76
10	16QAM	50	0	22.82	22.79	22.76
10	64QAM	1	0	22.76	22.81	22.89
10	64QAM	1	25	22.88	22.89	22.89
10	64QAM	1	49	22.95	22.92	22.93
10	64QAM	25	0	21.73	21.79	21.76
10	64QAM	25	12	21.86	21.83	21.80
10	64QAM	25	25	21.85	21.79	21.75
10	64QAM	50	0	21.86	21.79	21.78
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	24.40	24.43	24.62
5	QPSK	1	12	24.59	24.52	24.53
5	QPSK	1	24	24.50	24.59	24.62
5	QPSK	12	0	23.62	23.56	23.64
5	QPSK	12	7	23.71	23.62	23.50
5	QPSK	12	13	23.66	23.55	23.67
5	QPSK	25	0	23.74	23.50	23.66
5	16QAM	1	0	23.64	23.94	23.83
5	16QAM	1	12	23.82	23.94	23.91
5	16QAM	1	24	23.93	23.96	23.85
5	16QAM	12	0	22.61	22.80	22.61
5	16QAM	12	7	22.66	22.75	22.80
5	16QAM	12	13	22.73	22.60	22.57
5	16QAM	25	0	22.69	22.69	22.57
5	64QAM	1	0	22.69	22.81	22.76
5	64QAM	1	12	22.80	22.87	22.89
5	64QAM	1	24	22.89	22.78	22.89
5	64QAM	12	0	21.56	21.66	21.65
5	64QAM	12	7	21.70	21.83	21.72
5	64QAM	12	13	21.69	21.64	21.71
5	64QAM	25	0	21.72	21.66	21.75
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	24.36	24.50	24.48
3	QPSK	1	8	24.54	24.68	24.58

3	QPSK	1	14	24.66	24.62	24.67
3	QPSK	8	0	23.45	23.67	23.60
3	QPSK	8	4	23.73	23.69	23.58
3	QPSK	8	7	23.57	23.50	23.56
3	QPSK	15	0	23.63	23.60	23.59
3	16QAM	1	0	23.73	23.75	23.87
3	16QAM	1	8	23.82	23.88	23.92
3	16QAM	1	14	23.99	23.93	24.02
3	16QAM	8	0	22.56	22.82	22.66
3	16QAM	8	4	22.85	22.80	22.77
3	16QAM	8	7	22.79	22.74	22.64
3	16QAM	15	0	22.63	22.69	22.58
3	64QAM	1	0	22.61	22.68	22.81
3	64QAM	1	8	22.73	22.81	22.88
3	64QAM	1	14	22.91	22.83	22.93
3	64QAM	8	0	21.61	21.59	21.67
3	64QAM	8	4	21.83	21.70	21.66
3	64QAM	8	7	21.76	21.63	21.55
3	64QAM	15	0	21.86	21.72	21.66
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	24.66	24.50	24.52
1.4	QPSK	1	3	24.58	24.57	24.63
1.4	QPSK	1	5	24.55	24.56	24.46
1.4	QPSK	3	0	24.49	24.51	24.44
1.4	QPSK	3	1	24.49	24.60	24.48
1.4	QPSK	3	3	24.53	24.56	24.54
1.4	QPSK	6	0	23.62	23.57	23.66
1.4	16QAM	1	0	23.79	23.87	23.82
1.4	16QAM	1	3	23.87	24.01	23.96
1.4	16QAM	1	5	23.55	23.66	23.62
1.4	16QAM	3	0	23.75	23.68	23.54
1.4	16QAM	3	1	23.70	23.63	23.50
1.4	16QAM	3	3	23.80	23.84	23.78
1.4	16QAM	6	0	22.55	22.82	22.77
1.4	64QAM	1	0	22.73	22.64	22.60
1.4	64QAM	1	3	22.74	22.75	22.75
1.4	64QAM	1	5	22.79	22.74	22.73
1.4	64QAM	3	0	22.64	22.73	22.86
1.4	64QAM	3	1	22.80	22.78	22.75
1.4	64QAM	3	3	22.93	22.88	22.86
1.4	64QAM	6	0	21.82	21.59	21.63

<LTE Band 13>

Power Selection				Head / Near body		
Transmit Antenna				Ant 0 / Ant 1		
Max. Power				25.3		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					23230	
Frequency (MHz)					782	
10	QPSK	1	0		24.03	
10	QPSK	1	25		24.01	
10	QPSK	1	49		23.99	
10	QPSK	25	0		23.15	
10	QPSK	25	12		23.15	
10	QPSK	25	25		23.09	
10	QPSK	50	0		23.11	
10	16QAM	1	0		23.24	
10	16QAM	1	25		23.33	
10	16QAM	1	49		23.27	
10	16QAM	25	0		22.22	
10	16QAM	25	12		22.24	
10	16QAM	25	25		22.16	
10	16QAM	50	0		22.20	
10	64QAM	1	0		22.19	
10	64QAM	1	25		22.27	
10	64QAM	1	49		22.20	
10	64QAM	25	0		21.23	
10	64QAM	25	12		21.22	
10	64QAM	25	25		21.16	
10	64QAM	50	0		21.21	
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	23.84	23.84	23.84
5	QPSK	1	12	23.87	23.87	23.87
5	QPSK	1	24	23.81	23.81	23.81
5	QPSK	12	0	23.12	23.12	23.12
5	QPSK	12	7	23.00	23.00	23.00
5	QPSK	12	13	22.93	22.93	22.93
5	QPSK	25	0	23.07	23.07	23.07
5	16QAM	1	0	23.14	23.14	23.14
5	16QAM	1	12	23.18	23.18	23.18
5	16QAM	1	24	23.17	23.17	23.17
5	16QAM	12	0	22.12	22.12	22.12
5	16QAM	12	7	22.19	22.19	22.19
5	16QAM	12	13	21.98	21.98	21.98
5	16QAM	25	0	22.15	22.15	22.15
5	64QAM	1	0	22.03	22.03	22.03
5	64QAM	1	12	22.18	22.18	22.18
5	64QAM	1	24	22.01	22.01	22.01
5	64QAM	12	0	21.18	21.18	21.18
5	64QAM	12	7	21.21	21.21	21.21
5	64QAM	12	13	21.07	21.07	21.07
5	64QAM	25	0	21.08	21.08	21.08

<LTE Band 14>

Power Selection				Head / Near body		
Transmit Antenna				Ant 0 / Ant 1		
Max. Power				25.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					23330	
Frequency (MHz)					793	
10	QPSK	1	0		24.19	
10	QPSK	1	25		24.17	
10	QPSK	1	49		24.05	
10	QPSK	25	0		23.29	
10	QPSK	25	12		23.29	
10	QPSK	25	25		23.24	
10	QPSK	50	0		23.27	
10	16QAM	1	0		23.50	
10	16QAM	1	25		23.55	
10	16QAM	1	49		23.35	
10	16QAM	25	0		22.38	
10	16QAM	25	12		22.40	
10	16QAM	25	25		22.33	
10	16QAM	50	0		22.36	
10	64QAM	1	0		22.40	
10	64QAM	1	25		22.41	
10	64QAM	1	49		22.27	
10	64QAM	25	0		21.40	
10	64QAM	25	12		21.39	
10	64QAM	25	25		21.34	
10	64QAM	50	0		21.40	
Channel				23305	23330	23355
Frequency (MHz)				790.5	793	795.5
5	QPSK	1	0	24.14	24.02	23.98
5	QPSK	1	12	24.12	24.00	24.15
5	QPSK	1	24	23.85	24.02	24.03
5	QPSK	12	0	23.27	23.13	23.25
5	QPSK	12	7	23.17	23.12	23.14
5	QPSK	12	13	23.16	23.23	23.21
5	QPSK	25	0	23.16	23.20	23.15
5	16QAM	1	0	23.40	23.38	23.34
5	16QAM	1	12	23.44	23.35	23.50
5	16QAM	1	24	23.22	23.22	23.35
5	16QAM	12	0	22.25	22.26	22.22
5	16QAM	12	7	22.37	22.25	22.39
5	16QAM	12	13	22.29	22.27	22.16
5	16QAM	25	0	22.17	22.34	22.19
5	64QAM	1	0	22.40	22.23	22.38
5	64QAM	1	12	22.28	22.34	22.27
5	64QAM	1	24	22.18	22.09	22.08
5	64QAM	12	0	21.26	21.23	21.35
5	64QAM	12	7	21.23	21.24	21.29
5	64QAM	12	13	21.20	21.33	21.34
5	64QAM	25	0	21.20	21.38	21.32

<LTE Band 17>

Power Selection				Head / Near body		
Transmit Antenna				Ant 0 / Ant 1		
Max. Power				25.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	24.74	24.72	24.70
10	QPSK	1	25	24.69	24.60	24.60
10	QPSK	1	49	24.60	24.59	24.56
10	QPSK	25	0	23.72	23.75	23.75
10	QPSK	25	12	23.72	23.76	23.72
10	QPSK	25	25	23.73	23.61	23.62
10	QPSK	50	0	23.70	23.71	23.70
10	16QAM	1	0	24.05	24.01	23.99
10	16QAM	1	25	24.00	23.92	23.90
10	16QAM	1	49	23.96	23.85	23.85
10	16QAM	25	0	22.83	22.82	22.80
10	16QAM	25	12	22.85	22.81	22.84
10	16QAM	25	25	22.82	22.73	22.67
10	16QAM	50	0	22.84	22.79	22.81
10	64QAM	1	0	22.93	22.92	22.94
10	64QAM	1	25	22.95	22.84	22.85
10	64QAM	1	49	22.82	22.82	22.80
10	64QAM	25	0	21.80	21.84	21.84
10	64QAM	25	12	21.83	21.85	21.80
10	64QAM	25	25	21.82	21.72	21.69
10	64QAM	50	0	21.83	21.81	21.80
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	24.66	24.69	24.62
5	QPSK	1	12	24.64	24.41	24.48
5	QPSK	1	24	24.45	24.39	24.37
5	QPSK	12	0	23.54	23.65	23.57
5	QPSK	12	7	23.52	23.71	23.58
5	QPSK	12	13	23.65	23.50	23.52
5	QPSK	25	0	23.63	23.63	23.56
5	16QAM	1	0	23.88	23.93	23.85
5	16QAM	1	12	23.80	23.83	23.85
5	16QAM	1	24	23.89	23.73	23.85
5	16QAM	12	0	22.70	22.73	22.76
5	16QAM	12	7	22.67	22.75	22.71
5	16QAM	12	13	22.77	22.56	22.57
5	16QAM	25	0	22.72	22.60	22.67
5	64QAM	1	0	22.80	22.73	22.89
5	64QAM	1	12	22.83	22.66	22.72
5	64QAM	1	24	22.66	22.62	22.78
5	64QAM	12	0	21.78	21.65	21.79
5	64QAM	12	7	21.70	21.75	21.68
5	64QAM	12	13	21.73	21.52	21.56
5	64QAM	25	0	21.65	21.71	21.74

<LTE Band 25>

Power Selection				Head / Near body		
Transmit Antenna				Ant 0 / Ant 1		
Max. Power				25.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590
Frequency (MHz)				1860	1880	1905
20	QPSK	1	0	25.22	25.35	25.17
20	QPSK	1	49	25.18	25.30	25.14
20	QPSK	1	99	25.22	25.30	25.12
20	QPSK	50	0	24.35	24.41	24.32
20	QPSK	50	24	24.33	24.39	24.23
20	QPSK	50	50	24.30	24.33	24.19
20	QPSK	100	0	24.32	24.33	24.21
20	16QAM	1	0	24.49	24.63	24.46
20	16QAM	1	49	24.49	24.60	24.47
20	16QAM	1	99	24.57	24.61	24.42
20	16QAM	50	0	23.34	23.47	23.30
20	16QAM	50	24	23.45	23.45	23.31
20	16QAM	50	50	23.41	23.39	23.30
20	16QAM	100	0	23.39	23.42	23.27
20	64QAM	1	0	23.43	23.53	23.37
20	64QAM	1	49	23.43	23.54	23.33
20	64QAM	1	99	23.46	23.51	23.36
20	64QAM	50	0	22.34	22.45	22.29
20	64QAM	50	24	22.46	22.46	22.32
20	64QAM	50	50	22.39	22.41	22.29
20	64QAM	100	0	22.40	22.41	22.29
Channel				26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5
15	QPSK	1	0	25.22	25.21	25.06
15	QPSK	1	37	25.15	25.23	25.08
15	QPSK	1	74	25.17	25.21	24.95
15	QPSK	36	0	24.20	24.38	24.19
15	QPSK	36	20	24.28	24.31	24.20
15	QPSK	36	39	24.19	24.21	24.18
15	QPSK	75	0	24.30	24.23	24.10
15	16QAM	1	0	24.45	24.60	24.42
15	16QAM	1	37	24.49	24.43	24.41
15	16QAM	1	74	24.39	24.53	24.28
15	16QAM	36	0	23.24	23.43	23.13
15	16QAM	36	20	23.45	23.39	23.19
15	16QAM	36	39	23.30	23.19	23.30
15	16QAM	75	0	23.26	23.38	23.07
15	64QAM	1	0	23.26	23.47	23.26
15	64QAM	1	37	23.40	23.47	23.15
15	64QAM	1	74	23.29	23.45	23.23
15	64QAM	36	0	22.22	22.32	22.11
15	64QAM	36	20	22.42	22.30	22.21
15	64QAM	36	39	22.20	22.34	22.19
15	64QAM	75	0	22.28	22.27	22.27
Channel				26090	26340	26640
Frequency (MHz)				1855	1880	1910
10	QPSK	1	0	25.05	25.26	24.97
10	QPSK	1	25	25.14	25.20	25.02

10	QPSK	1	49	25.05	25.10	25.12
10	QPSK	25	0	24.25	24.33	24.31
10	QPSK	25	12	24.22	24.33	24.13
10	QPSK	25	25	24.20	24.23	24.16
10	QPSK	50	0	24.31	24.14	24.12
10	16QAM	1	0	24.34	24.55	24.26
10	16QAM	1	25	24.47	24.53	24.37
10	16QAM	1	49	24.37	24.53	24.27
10	16QAM	25	0	23.23	23.36	23.14
10	16QAM	25	12	23.39	23.40	23.23
10	16QAM	25	25	23.21	23.20	23.23
10	16QAM	50	0	23.22	23.24	23.19
10	64QAM	1	0	23.39	23.38	23.31
10	64QAM	1	25	23.40	23.50	23.27
10	64QAM	1	49	23.35	23.33	23.27
10	64QAM	25	0	22.14	22.28	22.12
10	64QAM	25	12	22.33	22.38	22.24
10	64QAM	25	25	22.19	22.21	22.23
10	64QAM	50	0	22.25	22.24	22.27
Channel				26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5
5	QPSK	1	0	25.22	25.30	25.05
5	QPSK	1	12	25.12	25.16	25.07
5	QPSK	1	24	25.09	25.13	25.00
5	QPSK	12	0	24.22	24.28	24.22
5	QPSK	12	7	24.32	24.35	24.23
5	QPSK	12	13	24.18	24.24	24.06
5	QPSK	25	0	24.14	24.25	24.18
5	16QAM	1	0	24.41	24.61	24.33
5	16QAM	1	12	24.34	24.60	24.37
5	16QAM	1	24	24.50	24.58	24.23
5	16QAM	12	0	23.21	23.46	23.16
5	16QAM	12	7	23.26	23.43	23.19
5	16QAM	12	13	23.30	23.23	23.13
5	16QAM	25	0	23.27	23.39	23.07
5	64QAM	1	0	23.39	23.53	23.29
5	64QAM	1	12	23.38	23.50	23.17
5	64QAM	1	24	23.31	23.32	23.19
5	64QAM	12	0	22.25	22.26	22.09
5	64QAM	12	7	22.35	22.26	22.13
5	64QAM	12	13	22.31	22.29	22.12
5	64QAM	25	0	22.27	22.33	22.23
Channel				26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5
3	QPSK	1	0	25.06	25.19	24.98
3	QPSK	1	8	25.17	25.15	25.05
3	QPSK	1	14	25.17	25.23	25.12
3	QPSK	8	0	24.30	24.34	24.20
3	QPSK	8	4	24.20	24.19	24.03
3	QPSK	8	7	24.20	24.19	24.09
3	QPSK	15	0	24.18	24.16	24.08
3	16QAM	1	0	24.39	24.44	24.34
3	16QAM	1	8	24.40	24.47	24.41
3	16QAM	1	14	24.42	24.54	24.35
3	16QAM	8	0	23.26	23.32	23.18
3	16QAM	8	4	23.34	23.41	23.23

3	16QAM	8	7	23.32	23.26	23.22
3	16QAM	15	0	23.22	23.28	23.20
3	64QAM	1	0	23.41	23.48	23.35
3	64QAM	1	8	23.40	23.43	23.32
3	64QAM	1	14	23.27	23.40	23.32
3	64QAM	8	0	22.20	22.45	22.25
3	64QAM	8	4	22.35	22.42	22.25
3	64QAM	8	7	22.32	22.28	22.23
3	64QAM	15	0	22.24	22.24	22.25
Channel				26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3
1.4	QPSK	1	0	25.14	25.27	25.12
1.4	QPSK	1	3	24.99	25.23	25.09
1.4	QPSK	1	5	25.20	25.26	24.98
1.4	QPSK	3	0	25.10	25.34	25.13
1.4	QPSK	3	1	25.08	25.21	25.12
1.4	QPSK	3	3	25.07	25.21	25.04
1.4	QPSK	6	0	24.31	24.33	24.14
1.4	16QAM	1	0	24.41	24.59	24.37
1.4	16QAM	1	3	24.38	24.60	24.36
1.4	16QAM	1	5	24.54	24.43	24.30
1.4	16QAM	3	0	24.39	24.58	24.37
1.4	16QAM	3	1	24.45	24.52	24.40
1.4	16QAM	3	3	24.49	24.50	24.22
1.4	16QAM	6	0	23.35	23.37	23.09
1.4	64QAM	1	0	23.41	23.33	23.21
1.4	64QAM	1	3	23.32	23.42	23.23
1.4	64QAM	1	5	23.26	23.33	23.29
1.4	64QAM	3	0	23.26	23.39	23.32
1.4	64QAM	3	1	23.38	23.43	23.27
1.4	64QAM	3	3	23.34	23.47	23.31
1.4	64QAM	6	0	22.27	22.32	22.20

<LTE Band 26>

Power Selection				Head / Near body		
Transmit Antenna				Ant 0 / Ant 1		
Max. Power				25.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26765	26865	26965
Frequency (MHz)				821.5	831.5	841.5
15	QPSK	1	0	24.52	24.60	24.50
15	QPSK	1	37	24.49	24.47	24.42
15	QPSK	1	74	24.45	24.42	24.45
15	QPSK	36	0	23.60	23.62	23.48
15	QPSK	36	20	23.55	23.57	23.45
15	QPSK	36	39	23.57	23.60	23.42
15	QPSK	75	0	23.51	23.55	23.40
15	16QAM	1	0	23.47	23.44	23.35
15	16QAM	1	37	23.49	23.42	23.39
15	16QAM	1	74	23.41	23.41	23.35
15	16QAM	36	0	22.66	22.69	22.57
15	16QAM	36	20	22.65	22.67	22.55
15	16QAM	36	39	22.64	22.65	22.51
15	16QAM	75	0	22.60	22.66	22.47
15	64QAM	1	0	22.52	22.59	22.61
15	64QAM	1	37	22.61	22.57	22.59
15	64QAM	1	74	22.65	22.51	22.53
15	64QAM	36	0	21.72	21.76	21.70
15	64QAM	36	20	21.63	21.69	21.60
15	64QAM	36	39	21.67	21.73	21.62
15	64QAM	75	0	21.65	21.75	21.57
Channel				26740	26865	26990
Frequency (MHz)				819	831.5	844
10	QPSK	1	0	24.59	24.49	24.41
10	QPSK	1	25	24.56	24.55	24.15
10	QPSK	1	49	24.53	24.43	24.16
10	QPSK	25	0	23.70	23.57	23.47
10	QPSK	25	12	23.28	23.60	23.37
10	QPSK	25	25	23.33	23.34	23.51
10	QPSK	50	0	23.51	23.62	23.32
10	16QAM	1	0	23.24	23.45	23.41
10	16QAM	1	25	23.26	23.37	23.35
10	16QAM	1	49	23.42	23.14	23.05
10	16QAM	25	0	22.55	22.72	22.37
10	16QAM	25	12	22.57	22.63	22.52
10	16QAM	25	25	22.63	22.73	22.30
10	16QAM	50	0	22.44	22.52	22.42
10	64QAM	1	0	22.58	22.37	22.71
10	64QAM	1	25	22.60	22.64	22.34
10	64QAM	1	49	22.60	22.58	22.40
10	64QAM	25	0	21.75	21.59	21.64
10	64QAM	25	12	21.54	21.66	21.43
10	64QAM	25	25	21.37	21.72	21.34
10	64QAM	50	0	21.35	21.71	21.64
Channel				26715	26865	27015
Frequency (MHz)				816.5	831.5	846.5
5	QPSK	1	0	24.31	24.59	24.27
5	QPSK	1	12	24.56	24.34	24.51

5	QPSK	1	24	24.40	24.15	24.32
5	QPSK	12	0	23.60	23.36	23.46
5	QPSK	12	7	23.50	23.52	23.23
5	QPSK	12	13	23.43	23.48	23.15
5	QPSK	25	0	23.38	23.29	23.45
5	16QAM	1	0	23.23	23.34	23.39
5	16QAM	1	12	23.34	23.32	23.11
5	16QAM	1	24	23.27	23.24	23.31
5	16QAM	12	0	22.42	22.72	22.39
5	16QAM	12	7	22.35	22.59	22.56
5	16QAM	12	13	22.70	22.72	22.29
5	16QAM	25	0	22.57	22.42	22.48
5	64QAM	1	0	22.27	22.52	22.62
5	64QAM	1	12	22.36	22.29	22.53
5	64QAM	1	24	22.73	22.46	22.36
5	64QAM	12	0	21.51	21.53	21.69
5	64QAM	12	7	21.53	21.57	21.42
5	64QAM	12	13	21.52	21.78	21.43
5	64QAM	25	0	21.75	21.79	21.67
Channel				26705	26865	27025
Frequency (MHz)				815.5	831.5	847.5
3	QPSK	1	0	24.50	24.34	24.38
3	QPSK	1	8	24.44	24.27	24.27
3	QPSK	1	14	24.54	24.12	24.33
3	QPSK	8	0	23.51	23.59	23.54
3	QPSK	8	4	23.55	23.62	23.39
3	QPSK	8	7	23.46	23.40	23.42
3	QPSK	15	0	23.32	23.25	23.42
3	16QAM	1	0	23.42	23.25	23.09
3	16QAM	1	8	23.33	23.38	23.25
3	16QAM	1	14	23.51	23.43	23.22
3	16QAM	8	0	22.76	22.61	22.37
3	16QAM	8	4	22.41	22.74	22.29
3	16QAM	8	7	22.42	22.60	22.25
3	16QAM	15	0	22.30	22.62	22.30
3	64QAM	1	0	22.50	22.42	22.41
3	64QAM	1	8	22.38	22.39	22.41
3	64QAM	1	14	22.43	22.32	22.33
3	64QAM	8	0	21.73	21.59	21.41
3	64QAM	8	4	21.73	21.63	21.42
3	64QAM	8	7	21.48	21.53	21.60
3	64QAM	15	0	21.47	21.46	21.32
Channel				26697	26865	27033
Frequency (MHz)				814.7	831.5	848.3
1.4	QPSK	1	0	24.56	24.36	24.42
1.4	QPSK	1	3	24.42	24.60	24.55
1.4	QPSK	1	5	24.52	24.54	24.39
1.4	QPSK	3	0	24.41	24.28	24.41
1.4	QPSK	3	1	24.29	24.42	24.48
1.4	QPSK	3	3	24.54	24.55	24.57
1.4	QPSK	6	0	23.74	23.60	23.76
1.4	16QAM	1	0	23.77	23.63	23.99
1.4	16QAM	1	3	23.93	24.02	23.75
1.4	16QAM	1	5	23.31	23.62	23.68
1.4	16QAM	3	0	23.53	23.75	23.31
1.4	16QAM	3	1	23.51	23.44	23.33

1.4	16QAM	3	3	23.75	23.72	23.64
1.4	16QAM	6	0	22.41	22.64	22.49
1.4	64QAM	1	0	22.61	22.54	22.52
1.4	64QAM	1	3	22.84	22.63	22.77
1.4	64QAM	1	5	22.80	22.64	22.80
1.4	64QAM	3	0	22.53	22.75	22.81
1.4	64QAM	3	1	22.77	22.62	22.59
1.4	64QAM	3	3	22.83	22.97	22.62
1.4	64QAM	6	0	21.48	21.69	21.55

<LTE Band 30>

Power Selection				Head / Near body		
Transmit Antenna				Ant 2 / Ant 3		
Max. Power				25.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					27710	
Frequency (MHz)					2310	
10	QPSK	1	0		24.76	
10	QPSK	1	25		24.71	
10	QPSK	1	49		24.75	
10	QPSK	25	0		23.78	
10	QPSK	25	12		23.74	
10	QPSK	25	25		23.73	
10	QPSK	50	0		23.74	
10	16QAM	1	0		24.00	
10	16QAM	1	25		23.99	
10	16QAM	1	49		24.05	
10	16QAM	25	0		22.79	
10	16QAM	25	12		22.82	
10	16QAM	25	25		22.81	
10	16QAM	50	0		22.82	
10	64QAM	1	0		22.96	
10	64QAM	1	25		22.91	
10	64QAM	1	49		22.97	
10	64QAM	25	0		21.83	
10	64QAM	25	12		21.82	
10	64QAM	25	25		21.83	
10	64QAM	50	0		21.82	
Channel				27685	27710	27735
Frequency (MHz)				2307.5	2310	2312.5
5	QPSK	1	0	24.67	24.55	24.53
5	QPSK	1	12	24.68	24.60	24.54
5	QPSK	1	24	24.64	24.58	24.62
5	QPSK	12	0	23.68	23.59	23.70
5	QPSK	12	7	23.66	23.60	23.63
5	QPSK	12	13	23.73	23.65	23.71
5	QPSK	25	0	23.73	23.72	23.58
5	16QAM	1	0	23.97	23.83	23.81
5	16QAM	1	12	23.81	23.93	23.92
5	16QAM	1	24	23.98	23.98	23.85
5	16QAM	12	0	22.70	22.65	22.75
5	16QAM	12	7	22.78	22.78	22.74
5	16QAM	12	13	22.70	22.62	22.79
5	16QAM	25	0	22.74	22.77	22.73
5	64QAM	1	0	22.83	22.89	22.85
5	64QAM	1	12	22.84	22.87	22.91
5	64QAM	1	24	22.96	22.94	22.84
5	64QAM	12	0	21.63	21.75	21.68
5	64QAM	12	7	21.66	21.76	21.68
5	64QAM	12	13	21.76	21.65	21.76
5	64QAM	25	0	21.79	21.64	21.75

<LTE Band 66>

Power Selection				Head / Near body		
Transmit Antenna				Ant 0 / Ant 1		
Max. Power				24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	24.36	24.46	24.22
20	QPSK	1	49	24.15	24.15	24.18
20	QPSK	1	99	24.04	23.99	24.05
20	QPSK	50	0	23.05	23.22	23.14
20	QPSK	50	24	23.07	23.04	23.06
20	QPSK	50	50	23.00	23.01	23.06
20	QPSK	100	0	23.04	23.05	23.09
20	16QAM	1	0	23.43	23.46	23.35
20	16QAM	1	49	23.45	23.42	23.47
20	16QAM	1	99	23.36	23.28	23.35
20	16QAM	50	0	22.17	22.18	22.19
20	16QAM	50	24	22.11	22.13	22.17
20	16QAM	50	50	22.10	22.09	22.15
20	16QAM	100	0	22.13	22.10	22.15
20	64QAM	1	0	22.37	22.33	22.42
20	64QAM	1	49	22.41	22.43	22.45
20	64QAM	1	99	22.30	22.28	22.27
20	64QAM	50	0	21.20	21.20	21.21
20	64QAM	50	24	21.11	21.14	21.18
20	64QAM	50	50	21.12	21.10	21.15
20	64QAM	100	0	21.14	21.14	21.19
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	24.29	24.39	24.14
15	QPSK	1	37	24.00	24.03	24.15
15	QPSK	1	74	23.93	23.81	23.88
15	QPSK	36	0	23.01	23.18	23.02
15	QPSK	36	20	22.91	22.93	22.89
15	QPSK	36	39	22.90	23.01	22.99
15	QPSK	75	0	22.84	22.90	22.89
15	16QAM	1	0	23.30	23.39	23.15
15	16QAM	1	37	23.45	23.25	23.47
15	16QAM	1	74	23.24	23.27	23.27
15	16QAM	36	0	22.12	22.10	22.19
15	16QAM	36	20	21.98	21.95	21.98
15	16QAM	36	39	22.01	22.03	21.99
15	16QAM	75	0	22.00	21.97	21.99
15	64QAM	1	0	22.35	22.29	22.29
15	64QAM	1	37	22.26	22.24	22.32
15	64QAM	1	74	22.12	22.16	22.09
15	64QAM	36	0	21.19	21.18	21.09
15	64QAM	36	20	20.96	21.09	21.17
15	64QAM	36	39	21.02	21.01	21.06
15	64QAM	75	0	21.12	21.02	21.04
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	24.30	24.26	24.04
10	QPSK	1	25	24.00	24.10	24.01

10	QPSK	1	49	23.90	23.83	23.92
10	QPSK	25	0	23.00	23.12	23.09
10	QPSK	25	12	22.90	22.97	22.94
10	QPSK	25	25	22.82	22.92	22.91
10	QPSK	50	0	23.03	23.00	22.97
10	16QAM	1	0	23.37	23.32	23.21
10	16QAM	1	25	23.36	23.39	23.42
10	16QAM	1	49	23.16	23.22	23.25
10	16QAM	25	0	22.07	21.98	22.08
10	16QAM	25	12	22.11	22.00	22.05
10	16QAM	25	25	22.03	21.99	22.07
10	16QAM	50	0	21.97	21.98	21.96
10	64QAM	1	0	22.28	22.16	22.39
10	64QAM	1	25	22.22	22.35	22.39
10	64QAM	1	49	22.20	22.28	22.16
10	64QAM	25	0	21.18	21.20	21.14
10	64QAM	25	12	21.03	21.09	21.12
10	64QAM	25	25	20.95	21.09	21.12
10	64QAM	50	0	20.96	21.04	21.08
Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	24.18	24.39	24.10
5	QPSK	1	12	24.02	23.95	23.98
5	QPSK	1	24	23.89	23.90	23.92
5	QPSK	12	0	22.95	23.13	23.09
5	QPSK	12	7	22.95	22.95	22.87
5	QPSK	12	13	22.83	22.81	22.89
5	QPSK	25	0	22.99	22.96	23.04
5	16QAM	1	0	23.36	23.43	23.24
5	16QAM	1	12	23.35	23.34	23.37
5	16QAM	1	24	23.35	23.08	23.32
5	16QAM	12	0	22.01	22.09	22.05
5	16QAM	12	7	22.03	22.07	22.07
5	16QAM	12	13	21.95	22.09	22.10
5	16QAM	25	0	22.02	22.03	22.05
5	64QAM	1	0	22.24	22.16	22.32
5	64QAM	1	12	22.26	22.34	22.41
5	64QAM	1	24	22.15	22.26	22.08
5	64QAM	12	0	21.04	21.08	21.08
5	64QAM	12	7	20.99	21.00	21.08
5	64QAM	12	13	21.05	21.04	21.14
5	64QAM	25	0	20.98	21.00	21.19
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	24.33	24.32	24.02
3	QPSK	1	8	24.01	24.09	24.15
3	QPSK	1	14	23.99	23.79	23.88
3	QPSK	8	0	23.03	23.12	23.05
3	QPSK	8	4	22.93	22.99	22.89
3	QPSK	8	7	22.95	22.92	23.00
3	QPSK	15	0	22.93	22.94	23.00
3	16QAM	1	0	23.27	23.46	23.34
3	16QAM	1	8	23.27	23.32	23.37
3	16QAM	1	14	23.22	23.12	23.34
3	16QAM	8	0	22.12	22.10	22.18
3	16QAM	8	4	22.08	22.09	21.99

3	16QAM	8	7	22.05	22.00	22.09
3	16QAM	15	0	21.93	21.92	22.11
3	64QAM	1	0	22.27	22.32	22.31
3	64QAM	1	8	22.38	22.38	22.32
3	64QAM	1	14	22.23	22.25	22.24
3	64QAM	8	0	21.13	21.17	21.21
3	64QAM	8	4	20.97	20.94	21.07
3	64QAM	8	7	21.09	20.90	20.97
3	64QAM	15	0	21.14	21.04	21.02
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	24.18	24.33	24.17
1.4	QPSK	1	3	23.96	24.07	24.08
1.4	QPSK	1	5	24.04	23.92	23.86
1.4	QPSK	3	0	24.35	24.45	24.08
1.4	QPSK	3	1	24.00	23.97	23.99
1.4	QPSK	3	3	23.94	23.95	23.90
1.4	QPSK	6	0	22.96	22.99	22.89
1.4	16QAM	1	0	23.31	23.39	23.23
1.4	16QAM	1	3	23.29	23.28	23.43
1.4	16QAM	1	5	23.36	23.17	23.35
1.4	16QAM	3	0	23.42	23.45	23.23
1.4	16QAM	3	1	23.25	23.25	23.32
1.4	16QAM	3	3	23.35	23.28	23.22
1.4	16QAM	6	0	21.95	21.95	21.96
1.4	64QAM	1	0	22.22	22.13	22.29
1.4	64QAM	1	3	22.28	22.33	22.34
1.4	64QAM	1	5	22.20	22.09	22.22
1.4	64QAM	3	0	22.28	22.29	22.40
1.4	64QAM	3	1	22.41	22.37	22.36
1.4	64QAM	3	3	22.29	22.24	22.24
1.4	64QAM	6	0	21.14	21.31	21.26

<LTE Band 71>

Power Selection				Head / Near body		
Transmit Antenna				Ant 0 / Ant 1		
Max. Power				24.6		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				133222	133322	133372
Frequency (MHz)				673	683	688
20	QPSK	1	0	23.62	23.71	23.57
20	QPSK	1	49	23.57	23.61	23.55
20	QPSK	1	99	23.52	23.55	23.49
20	QPSK	50	0	22.55	22.67	22.48
20	QPSK	50	24	22.51	22.59	22.42
20	QPSK	50	50	22.49	22.61	22.45
20	QPSK	100	0	22.55	22.57	22.35
20	16QAM	1	0	22.66	22.56	22.44
20	16QAM	1	49	22.57	22.52	22.43
20	16QAM	1	99	22.56	22.51	22.42
20	16QAM	50	0	21.74	21.66	21.57
20	16QAM	50	24	21.72	21.65	21.52
20	16QAM	50	50	21.70	21.61	21.50
20	16QAM	100	0	21.69	21.60	21.42
20	64QAM	1	0	21.71	21.59	21.53
20	64QAM	1	49	21.62	21.57	21.39
20	64QAM	1	99	21.49	21.52	21.42
20	64QAM	50	0	20.77	20.68	20.62
20	64QAM	50	24	20.72	20.62	20.59
20	64QAM	50	50	20.75	20.62	20.58
20	64QAM	100	0	20.69	20.59	20.55
Channel				133197	133297	133397
Frequency (MHz)				670.5	680.5	690.5
15	QPSK	1	0	23.53	23.65	23.56
15	QPSK	1	37	23.40	23.68	23.56
15	QPSK	1	74	23.24	23.54	23.38
15	QPSK	36	0	22.64	22.59	22.18
15	QPSK	36	20	22.31	22.60	22.34
15	QPSK	36	39	22.53	22.21	22.28
15	QPSK	75	0	22.60	22.27	22.22
15	16QAM	1	0	22.50	22.30	22.32
15	16QAM	1	37	22.49	22.32	22.53
15	16QAM	1	74	22.37	22.48	22.39
15	16QAM	36	0	21.65	21.62	21.39
15	16QAM	36	20	21.75	21.43	21.56
15	16QAM	36	39	21.40	21.35	21.46
15	16QAM	75	0	21.41	21.49	21.52
15	64QAM	1	0	21.50	21.54	21.26
15	64QAM	1	37	21.44	21.48	21.12
15	64QAM	1	74	21.58	21.25	21.50
15	64QAM	36	0	20.78	20.39	20.44
15	64QAM	36	20	20.60	20.45	20.55
15	64QAM	36	39	20.53	20.43	20.53
15	64QAM	75	0	20.62	20.33	20.44
Channel				133172	133272	133422
Frequency (MHz)				668	678	693
10	QPSK	1	0	23.69	23.43	23.58
10	QPSK	1	25	23.59	23.40	23.35

10	QPSK	1	49	23.26	23.54	23.39
10	QPSK	25	0	22.41	22.44	22.48
10	QPSK	25	12	22.34	22.41	22.28
10	QPSK	25	25	22.48	22.27	22.36
10	QPSK	50	0	22.26	22.60	22.16
10	16QAM	1	0	22.63	22.26	22.32
10	16QAM	1	25	22.27	22.44	22.42
10	16QAM	1	49	22.65	22.45	22.52
10	16QAM	25	0	21.69	21.56	21.63
10	16QAM	25	12	21.81	21.54	21.42
10	16QAM	25	25	21.76	21.58	21.44
10	16QAM	50	0	21.73	21.49	21.30
10	64QAM	1	0	21.62	21.55	21.35
10	64QAM	1	25	21.54	21.62	21.10
10	64QAM	1	49	21.44	21.32	21.48
10	64QAM	25	0	20.47	20.62	20.51
10	64QAM	25	12	20.59	20.44	20.58
10	64QAM	25	25	20.82	20.46	20.43
10	64QAM	50	0	20.66	20.66	20.33
Channel				133147	133247	133447
Frequency (MHz)				665.5	675.5	695.5
5	QPSK	1	0	23.70	23.33	23.29
5	QPSK	1	12	23.58	23.68	23.45
5	QPSK	1	24	23.54	23.36	23.56
5	QPSK	12	0	22.49	22.33	22.56
5	QPSK	12	7	22.52	22.30	22.48
5	QPSK	12	13	22.48	22.53	22.45
5	QPSK	25	0	22.30	22.30	22.33
5	16QAM	1	0	22.67	22.30	22.33
5	16QAM	1	12	22.45	22.37	22.24
5	16QAM	1	24	22.50	22.40	22.15
5	16QAM	12	0	21.74	21.38	21.29
5	16QAM	12	7	21.76	21.74	21.45
5	16QAM	12	13	21.40	21.71	21.50
5	16QAM	25	0	21.74	21.39	21.45
5	64QAM	1	0	21.42	21.59	21.51
5	64QAM	1	12	21.64	21.30	21.36
5	64QAM	1	24	21.50	21.22	21.28
5	64QAM	12	0	20.72	20.44	20.39
5	64QAM	12	7	20.61	20.42	20.47
5	64QAM	12	13	20.70	20.69	20.50
5	64QAM	25	0	20.57	20.65	20.43

<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.

a. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
b. "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
c. 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.

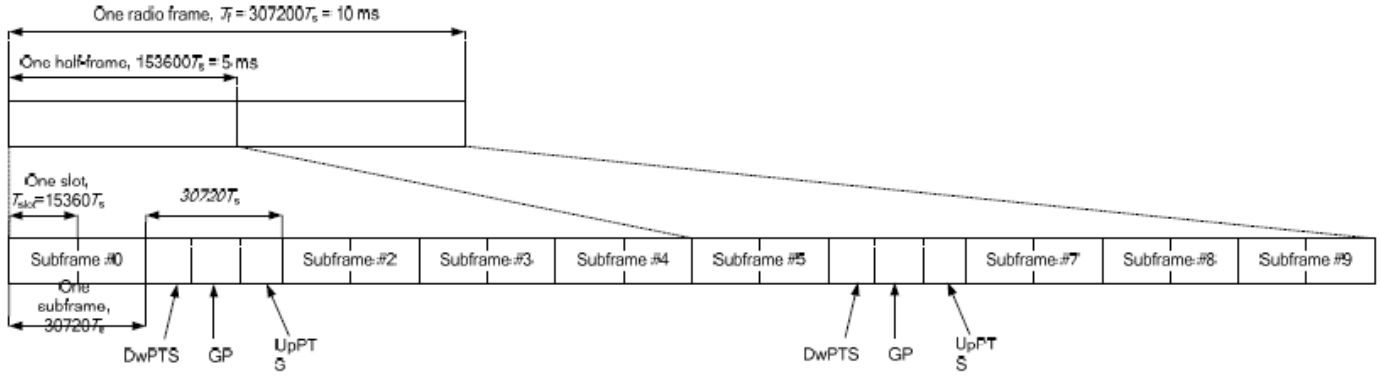


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
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:

i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subfames, uplink operation is in 3 uplink subframes and 1 special subframe.

ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink

iii. 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%

iv. 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%

v. 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.

<LTE Band 38>

Power Selection				Head			Near body		
Transmit Antenna				Ant 2			Ant 2		
Max. Power				25.7			25.7		
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				37850	38000	38150	37850	38000	38150
Frequency (MHz)				2580	2595	2610	2580	2595	2610
20	QPSK	1	0	23.91	23.99	23.92	24.92	24.96	24.91
20	QPSK	1	49	23.74	23.76	23.75	24.84	24.90	24.83
20	QPSK	1	99	23.85	23.92	23.66	24.86	24.93	24.89
20	QPSK	50	0	22.88	22.91	22.90	23.92	23.96	23.91
20	QPSK	50	24	22.85	22.85	22.84	23.92	23.98	23.89
20	QPSK	50	50	22.83	22.82	22.85	23.96	24.00	23.92
20	QPSK	100	0	22.86	22.87	22.84	23.94	23.99	23.97
20	16QAM	1	0	23.07	23.11	22.99	24.02	24.05	24.07
20	16QAM	1	49	23.06	23.06	23.01	24.00	24.01	23.96
20	16QAM	1	99	23.24	23.28	23.20	24.03	24.05	23.97
20	16QAM	50	0	21.88	21.90	21.90	23.00	23.08	23.06
20	16QAM	50	24	21.90	21.92	21.83	23.04	23.04	23.07
20	16QAM	50	50	21.98	21.98	21.97	23.02	23.04	22.98
20	16QAM	100	0	21.93	21.91	21.90	23.01	23.03	23.06
20	64QAM	1	0	21.93	21.97	21.95	22.72	22.76	22.79
20	64QAM	1	49	22.00	21.99	21.96	22.71	22.73	22.69
20	64QAM	1	99	22.17	22.17	22.06	22.76	22.78	22.72
20	64QAM	50	0	20.91	20.89	20.80	21.99	22.04	22.05
20	64QAM	50	24	20.95	20.95	20.84	22.03	22.06	22.04
20	64QAM	50	50	20.97	20.98	20.87	22.02	22.05	21.96
20	64QAM	100	0	20.94	20.95	20.84	22.01	22.03	22.06
Channel				37825	38000	38175	37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5	2577.5	2595	2612.5
15	QPSK	1	0	23.85	23.76	23.70	24.82	24.90	24.87
15	QPSK	1	37	23.82	23.75	23.83	24.68	24.71	24.80
15	QPSK	1	74	23.85	23.95	23.95	24.79	24.82	24.73
15	QPSK	36	0	22.74	22.84	22.91	23.80	23.93	23.89
15	QPSK	36	20	22.77	22.84	22.81	23.88	23.89	23.80
15	QPSK	36	39	22.90	22.86	22.95	23.96	23.85	23.85
15	QPSK	75	0	22.81	22.93	22.79	23.85	23.82	23.85
15	16QAM	1	0	23.13	23.04	22.96	23.95	24.04	23.89
15	16QAM	1	37	23.12	23.04	23.07	23.99	23.91	23.96
15	16QAM	1	74	23.14	23.33	23.11	23.88	23.96	23.94
15	16QAM	36	0	21.80	21.84	21.84	22.85	22.98	22.88
15	16QAM	36	20	21.81	22.02	21.88	23.00	22.99	22.95
15	16QAM	36	39	22.01	21.96	22.06	22.92	23.04	22.85
15	16QAM	75	0	21.92	21.90	21.98	23.00	22.88	23.06
15	64QAM	1	0	21.90	21.89	21.93	22.63	22.66	22.61
15	64QAM	1	37	21.91	22.05	21.89	22.65	22.62	22.57
15	64QAM	1	74	22.12	22.22	22.05	22.67	22.62	22.54
15	64QAM	36	0	20.87	20.91	20.81	21.79	21.91	21.91
15	64QAM	36	20	20.92	20.86	20.86	21.97	22.06	22.00
15	64QAM	36	39	20.99	21.07	20.86	21.91	21.98	21.80
15	64QAM	75	0	20.97	20.92	20.82	21.91	21.94	21.89
Channel				37800	38000	38200	37800	38000	38200
Frequency (MHz)				2575	2595	2615	2575	2595	2615
10	QPSK	1	0	23.71	23.72	23.81	24.67	24.79	24.79
10	QPSK	1	25	23.75	23.72	23.75	24.72	24.75	24.69

10	QPSK	1	49	23.98	23.95	23.90	24.80	24.90	24.78
10	QPSK	25	0	22.74	22.72	22.80	23.89	23.82	23.82
10	QPSK	25	12	22.87	22.84	22.94	23.86	23.88	23.96
10	QPSK	25	25	22.97	22.91	22.85	23.90	23.92	23.73
10	QPSK	50	0	22.76	22.85	22.90	23.83	23.83	23.93
10	16QAM	1	0	23.12	23.17	22.97	23.93	23.85	23.94
10	16QAM	1	25	23.05	23.07	22.95	23.88	24.00	23.89
10	16QAM	1	49	23.31	23.25	23.24	23.98	23.85	23.95
10	16QAM	25	0	21.81	21.88	21.94	22.93	23.06	22.97
10	16QAM	25	12	21.87	21.83	21.86	22.88	22.96	23.00
10	16QAM	25	25	22.05	22.07	21.89	22.83	22.91	22.98
10	16QAM	50	0	21.90	22.00	21.98	22.87	22.96	23.01
10	64QAM	1	0	21.87	21.90	22.05	22.69	22.73	22.79
10	64QAM	1	25	22.02	22.00	22.02	22.56	22.68	22.65
10	64QAM	1	49	22.25	22.12	22.06	22.74	22.66	22.53
10	64QAM	25	0	20.84	20.79	20.70	21.84	21.85	21.93
10	64QAM	25	12	20.93	20.98	20.87	21.96	21.94	21.85
10	64QAM	25	25	21.04	20.89	20.81	21.87	22.00	21.80
10	64QAM	50	0	20.87	20.96	20.93	21.99	21.94	21.91
Channel				37775	38000	38225	37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5	2572.5	2595	2617.5
5	QPSK	1	0	23.73	23.76	23.76	24.86	24.72	24.87
5	QPSK	1	12	23.84	23.74	23.83	24.75	24.89	24.79
5	QPSK	1	24	23.97	23.91	23.96	24.72	24.91	24.88
5	QPSK	12	0	22.84	22.91	22.84	23.79	23.94	23.91
5	QPSK	12	7	22.84	22.86	22.77	23.88	23.85	23.89
5	QPSK	12	13	22.81	22.87	22.93	23.89	23.84	23.74
5	QPSK	25	0	22.85	22.83	22.79	23.83	23.89	23.87
5	16QAM	1	0	23.10	23.17	23.01	24.01	23.86	24.01
5	16QAM	1	12	23.10	23.13	23.13	23.96	23.83	23.89
5	16QAM	1	24	23.35	23.33	23.21	23.89	23.88	23.85
5	16QAM	12	0	21.89	21.84	21.83	22.83	22.99	23.05
5	16QAM	12	7	21.88	21.84	21.79	22.89	22.97	22.96
5	16QAM	12	13	21.97	21.95	21.99	22.98	22.96	22.97
5	16QAM	25	0	22.03	21.97	21.90	22.82	22.96	22.91
5	64QAM	1	0	21.88	22.06	22.01	22.67	22.62	22.60
5	64QAM	1	12	22.11	22.00	22.08	22.60	22.60	22.51
5	64QAM	1	24	22.29	22.15	21.99	22.68	22.75	22.62
5	64QAM	12	0	20.92	21.01	20.89	21.82	21.97	22.02
5	64QAM	12	7	20.88	20.89	20.79	22.02	21.96	21.94
5	64QAM	12	13	21.04	21.01	20.93	21.92	21.97	21.85
5	64QAM	25	0	20.91	20.95	20.86	21.97	21.84	21.97

<LTE Band 41>

Power Selection				Head / Near body				
Transmit Antenna				Ant 2				
Max. Power				25				
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.
Channel				39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	24.17	24.18	24.26	24.44	24.41
20	QPSK	1	49	24.16	24.25	24.21	24.43	24.44
20	QPSK	1	99	24.29	24.36	24.55	24.45	24.35
20	QPSK	50	0	23.32	23.42	23.56	23.54	23.53
20	QPSK	50	24	23.29	23.28	23.36	23.47	23.38
20	QPSK	50	50	23.25	23.26	23.32	23.51	23.49
20	QPSK	100	0	23.27	23.28	23.51	23.44	23.35
20	16QAM	1	0	23.38	23.47	23.47	23.55	23.67
20	16QAM	1	49	23.26	23.35	23.29	23.55	23.52
20	16QAM	1	99	23.28	23.26	23.31	23.52	23.49
20	16QAM	50	0	22.39	22.46	22.43	22.58	22.64
20	16QAM	50	24	22.38	22.38	22.42	22.61	22.59
20	16QAM	50	50	22.34	22.32	22.39	22.57	22.54
20	16QAM	100	0	22.35	22.35	22.42	22.52	22.59
20	64QAM	1	0	22.11	22.21	22.19	22.30	22.42
20	64QAM	1	49	22.01	22.10	22.04	22.27	22.28
20	64QAM	1	99	22.01	22.00	22.07	22.28	22.21
20	64QAM	50	0	21.37	21.47	21.43	21.56	21.64
20	64QAM	50	24	21.36	21.33	21.43	21.62	21.60
20	64QAM	50	50	21.32	21.31	21.40	21.57	21.54
20	64QAM	100	0	21.35	21.33	21.41	21.51	21.60
Channel				39725	40173	40620	41068	41515
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5
15	QPSK	1	0	24.11	24.27	24.33	24.44	24.50
15	QPSK	1	37	24.15	24.15	24.18	24.28	24.29
15	QPSK	1	74	24.08	24.11	24.17	24.34	24.41
15	QPSK	36	0	23.24	23.22	23.22	23.39	23.42
15	QPSK	36	20	23.28	23.23	23.17	23.36	23.37
15	QPSK	36	39	23.11	23.06	23.16	23.49	23.44
15	QPSK	75	0	23.24	23.17	23.18	23.29	23.35
15	16QAM	1	0	23.35	23.28	23.39	23.51	23.49
15	16QAM	1	37	23.23	23.16	23.23	23.52	23.49
15	16QAM	1	74	23.09	23.18	23.12	23.51	23.35
15	16QAM	36	0	22.37	22.35	22.41	22.55	22.62
15	16QAM	36	20	22.27	22.34	22.33	22.60	22.39
15	16QAM	36	39	22.25	22.29	22.24	22.50	22.46
15	16QAM	75	0	22.30	22.34	22.25	22.36	22.57
15	64QAM	1	0	21.91	22.16	22.03	22.24	22.38
15	64QAM	1	37	21.95	22.03	21.96	22.15	22.11
15	64QAM	1	74	21.95	21.94	22.06	22.08	22.14
15	64QAM	36	0	21.19	21.38	21.33	21.45	21.56
15	64QAM	36	20	21.35	21.17	21.34	21.57	21.49
15	64QAM	36	39	21.32	21.12	21.25	21.53	21.47
15	64QAM	75	0	21.31	21.21	21.32	21.38	21.49
Channel				39700	40160	40620	41080	41540
Frequency (MHz)				2501	2547	2593	2639	2685
10	QPSK	1	0	24.12	24.29	24.31	24.43	24.45
10	QPSK	1	25	24.13	24.13	24.07	24.26	24.29

10	QPSK	1	49	24.14	24.02	24.25	24.38	24.24
10	QPSK	25	0	23.21	23.28	23.27	23.41	23.56
10	QPSK	25	12	23.09	23.23	23.24	23.38	23.46
10	QPSK	25	25	23.11	23.14	23.27	23.49	23.32
10	QPSK	50	0	23.10	23.23	23.34	23.40	23.41
10	16QAM	1	0	23.25	23.36	23.33	23.44	23.54
10	16QAM	1	25	23.12	23.33	23.13	23.53	23.42
10	16QAM	1	49	23.23	23.10	23.23	23.40	23.44
10	16QAM	25	0	22.21	22.27	22.32	22.52	22.50
10	16QAM	25	12	22.19	22.25	22.25	22.43	22.49
10	16QAM	25	25	22.21	22.16	22.34	22.45	22.37
10	16QAM	50	0	22.32	22.25	22.29	22.38	22.46
10	64QAM	1	0	21.94	22.13	22.08	22.13	22.29
10	64QAM	1	25	21.87	22.07	21.86	22.08	22.26
10	64QAM	1	49	21.96	21.80	22.04	22.13	22.14
10	64QAM	25	0	21.24	21.27	21.35	21.42	21.48
10	64QAM	25	12	21.23	21.30	21.38	21.60	21.49
10	64QAM	25	25	21.26	21.19	21.23	21.49	21.47
10	64QAM	50	0	21.22	21.15	21.33	21.40	21.40
Channel				39675	40148	40620	41093	41565
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5
5	QPSK	1	0	24.18	24.36	24.20	24.32	24.51
5	QPSK	1	12	24.07	24.15	24.01	24.30	24.37
5	QPSK	1	24	24.06	23.99	24.11	24.38	24.25
5	QPSK	12	0	23.26	23.33	23.32	23.47	23.45
5	QPSK	12	7	23.16	23.14	23.36	23.44	23.40
5	QPSK	12	13	23.09	23.08	23.13	23.47	23.30
5	QPSK	25	0	23.16	23.08	23.33	23.35	23.44
5	16QAM	1	0	23.38	23.43	23.45	23.39	23.67
5	16QAM	1	12	23.17	23.23	23.13	23.44	23.52
5	16QAM	1	24	23.17	23.15	23.28	23.48	23.47
5	16QAM	12	0	22.38	22.38	22.27	22.52	22.63
5	16QAM	12	7	22.36	22.29	22.26	22.52	22.45
5	16QAM	12	13	22.31	22.23	22.36	22.51	22.47
5	16QAM	25	0	22.25	22.27	22.26	22.35	22.59
5	64QAM	1	0	21.99	22.14	22.03	22.26	22.29
5	64QAM	1	12	21.81	21.99	21.98	22.25	22.18
5	64QAM	1	24	21.85	21.89	22.01	22.26	22.08
5	64QAM	12	0	21.31	21.39	21.39	21.48	21.45
5	64QAM	12	7	21.16	21.25	21.34	21.48	21.47
5	64QAM	12	13	21.21	21.25	21.32	21.54	21.43
5	64QAM	25	0	21.22	21.28	21.36	21.31	21.43

<LTE Band 41 HPUE>

Power Selection				Head / Near body				
Transmit Antenna				Ant 2				
Max. Power				26.5				
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.
Channel				39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	25.83	25.91	25.87	25.98	26.08
20	QPSK	1	49	25.68	25.80	25.80	25.98	25.92
20	QPSK	1	99	25.74	25.72	25.77	25.96	25.92
20	QPSK	50	0	24.90	25.01	24.99	25.10	25.14
20	QPSK	50	24	24.92	24.92	24.96	25.13	25.09
20	QPSK	50	50	24.90	24.86	24.94	25.10	25.07
20	QPSK	100	0	24.90	24.86	24.95	25.01	25.10
20	16QAM	1	0	25.12	25.18	25.16	25.30	25.39
20	16QAM	1	49	25.01	25.07	25.04	25.30	25.26
20	16QAM	1	99	25.02	24.97	25.04	25.25	25.20
20	16QAM	50	0	23.99	24.09	24.05	24.15	24.20
20	16QAM	50	24	24.00	23.99	24.04	24.21	24.17
20	16QAM	50	50	23.94	23.96	24.02	24.15	24.13
20	16QAM	100	0	23.95	23.98	24.04	24.11	24.14
20	64QAM	1	0	24.04	24.10	24.04	24.15	24.30
20	64QAM	1	49	23.88	23.96	23.94	24.16	24.14
20	64QAM	1	99	23.88	23.91	23.95	24.12	24.09
20	64QAM	50	0	22.98	23.06	23.04	23.13	23.19
20	64QAM	50	24	22.98	22.93	23.01	23.21	23.18
20	64QAM	50	50	22.93	22.92	23.00	23.17	23.10
20	64QAM	100	0	22.98	22.97	23.01	23.10	23.17
Channel				39725	40173	40620	41068	41515
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5
15	QPSK	1	0	25.76	25.88	25.84	25.85	25.93
15	QPSK	1	37	25.48	25.72	25.71	25.80	25.85
15	QPSK	1	74	25.68	25.62	25.72	25.93	25.79
15	QPSK	36	0	24.78	25.00	24.99	24.95	25.11
15	QPSK	36	20	24.73	24.82	24.93	25.09	25.07
15	QPSK	36	39	24.77	24.82	24.87	25.10	25.02
15	QPSK	75	0	24.79	24.77	24.86	25.00	25.08
15	16QAM	1	0	24.98	25.17	24.96	25.28	25.19
15	16QAM	1	37	24.93	24.88	24.90	25.26	25.19
15	16QAM	1	74	24.93	24.92	24.96	25.17	25.11
15	16QAM	36	0	23.93	23.92	23.87	23.95	24.09
15	16QAM	36	20	23.82	23.80	24.04	24.18	24.12
15	16QAM	36	39	23.81	23.82	23.97	24.00	24.08
15	16QAM	75	0	23.94	23.92	24.01	24.08	24.01
15	64QAM	1	0	24.01	23.93	23.99	24.14	24.24
15	64QAM	1	37	23.72	23.80	23.74	24.10	24.08
15	64QAM	1	74	23.77	23.86	23.78	23.93	23.99
15	64QAM	36	0	22.91	23.00	22.98	23.04	23.02
15	64QAM	36	20	22.84	22.84	22.96	23.17	23.12
15	64QAM	36	39	22.88	22.77	22.90	23.06	22.93
15	64QAM	75	0	22.87	22.87	22.99	22.94	23.00
Channel				39700	40160	40620	41080	41540
Frequency (MHz)				2501	2547	2593	2639	2685
10	QPSK	1	0	25.66	25.85	25.81	25.97	25.96
10	QPSK	1	25	25.63	25.76	25.80	25.97	25.90

10	QPSK	1	49	25.59	25.67	25.66	25.81	25.82
10	QPSK	25	0	24.81	24.85	24.94	24.98	25.11
10	QPSK	25	12	24.83	24.79	24.86	24.98	25.07
10	QPSK	25	25	24.83	24.78	24.77	25.10	25.03
10	QPSK	50	0	24.80	24.86	24.94	24.98	24.98
10	16QAM	1	0	25.02	25.18	24.97	25.26	25.29
10	16QAM	1	25	25.01	25.00	24.97	25.19	25.23
10	16QAM	1	49	24.89	24.94	25.00	25.13	25.20
10	16QAM	25	0	23.99	24.00	24.04	24.06	24.06
10	16QAM	25	12	23.91	23.88	23.96	24.16	24.03
10	16QAM	25	25	23.83	23.93	23.93	24.11	23.99
10	16QAM	50	0	23.88	23.84	24.03	24.07	24.00
10	64QAM	1	0	23.86	24.02	23.85	24.07	24.24
10	64QAM	1	25	23.74	23.86	23.78	23.99	24.00
10	64QAM	1	49	23.84	23.76	23.75	23.97	24.05
10	64QAM	25	0	22.90	22.98	22.98	22.95	23.01
10	64QAM	25	12	22.87	22.80	22.99	23.21	23.12
10	64QAM	25	25	22.93	22.76	22.93	23.04	22.96
10	64QAM	50	0	22.82	22.90	22.98	23.04	23.01
Channel				39675	40148	40620	41093	41565
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5
5	QPSK	1	0	25.73	25.82	25.69	25.95	25.92
5	QPSK	1	12	25.53	25.63	25.63	25.80	25.74
5	QPSK	1	24	25.60	25.59	25.74	25.88	25.92
5	QPSK	12	0	24.74	24.89	24.83	24.93	24.95
5	QPSK	12	7	24.85	24.86	24.87	24.93	25.01
5	QPSK	12	13	24.83	24.76	24.78	25.10	24.93
5	QPSK	25	0	24.74	24.75	24.89	24.96	25.06
5	16QAM	1	0	24.94	25.16	25.11	25.26	25.28
5	16QAM	1	12	24.85	25.05	24.93	25.29	25.12
5	16QAM	1	24	24.91	24.96	25.00	25.19	25.06
5	16QAM	12	0	23.86	23.99	23.92	24.03	24.10
5	16QAM	12	7	23.98	23.79	23.97	24.21	23.98
5	16QAM	12	13	23.82	23.76	23.87	24.07	24.10
5	16QAM	25	0	23.78	23.91	24.01	23.91	24.07
5	64QAM	1	0	23.99	23.95	23.93	24.04	24.11
5	64QAM	1	12	23.88	23.93	23.90	23.96	24.02
5	64QAM	1	24	23.88	23.85	23.88	23.94	23.98
5	64QAM	12	0	22.98	22.92	23.04	23.03	23.19
5	64QAM	12	7	22.92	22.73	22.95	23.05	23.12
5	64QAM	12	13	22.84	22.89	22.87	22.97	22.98
5	64QAM	25	0	22.93	22.82	22.95	23.01	22.97

12. WiFi on Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

1. For DTM multi-slot class mode, the device was linked with base station simulator (Agilent E5515C) and transmit maximum power on maximum number of TX slots, i.e. one CS timeslot, and additional PS timeslots (1 for DTM class 5 and 9, 2 for DTM class 11) in one TDMA frame.
2. Agilent E5515C was used to setup the device operated under DTM mode for power measurement and SAR testing. For conducted power, the power of the burst for voice and the power of the bursts for data was reported separately in the table below, and the frame-average power is derived below to determine SAR testing.

   *DTM frame average power (dBm) = 10*log [∑(power of each slot, in mW)/8]*
3. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
4. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE / DTM 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.
5. Other configurations of GSM / GPRS / EDGE / DTM 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 ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary mode

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	Ant 0	GSM 1 Tx slot		33.49	33.40	33.37	34.00	24.49	24.40	24.37	25.00
		GPRS 1 Tx slot		33.51	33.43	33.38	34.00	24.51	24.43	24.38	25.00
		GPRS 2 Tx slots		31.22	30.95	30.94	32.00	25.22	24.95	24.94	26.00
		GPRS 3 Tx slots		29.03	28.62	28.62	30.00	24.77	24.36	24.36	25.74
		GPRS 4 Tx slots		27.81	27.82	28.03	29.00	24.81	24.82	25.03	26.00
		EDGE 1 Tx slot		26.42	26.46	26.37	28.00	17.42	17.46	17.37	19.00
		EDGE 2 Tx slots		25.96	25.88	25.80	27.00	19.96	19.88	19.80	21.00
		EDGE 3 Tx slots		23.82	23.66	23.59	25.00	19.56	19.40	19.33	20.74
		EDGE 4 Tx slots		21.48	21.37	21.41	23.00	18.48	18.37	18.41	20.00
		DTM Multi-slot class 5	GSM 1 Tx slot	31.16	31.04	31.13	32.00	25.08	25.01	25.04	25.98
			GPRS 1 Tx slot	31.04	31.03	30.98	32.00				
		DTM Multi-slot class 9	GSM 1 Tx slot	30.97	31.03	31.10	32.00	24.89	24.94	25.01	25.98
			GPRS 1 Tx slot	30.85	30.90	30.95	32.00				
		DTM Multi-slot class 11	GSM 1 Tx slot	28.60	28.68	28.75	30.00	24.25	24.32	24.39	25.74
			GPRS 2 Tx slots	28.47	28.53	28.60	30.00				
		DTM Multi-slot class 5	GSM 1 Tx slot	30.91	31.01	31.07	32.00	22.98	23.04	23.09	24.16
			EDGE 1 Tx slot	25.53	25.44	25.45	27.00				
		DTM Multi-slot class 9	GSM 1 Tx slot	31.02	31.07	31.15	32.00	23.03	23.06	23.13	24.16
			EDGE 1 Tx slot	25.36	25.28	25.32	27.00				
		DTM Multi-slot class 11	GSM 1 Tx slot	28.53	28.61	28.69	30.00	21.58	21.59	21.64	23.10
			EDGE 2 Tx slots	23.40	23.29	23.30	25.00				

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	
Hotspot / Near body	Ant 0	GSM 1 Tx slot		28.19	28.40	28.40	29.90	19.19	19.40	19.40	20.90
		GPRS 1 Tx slot		28.24	28.47	28.35	29.90	19.24	19.47	19.35	20.90
		GPRS 2 Tx slots		26.40	26.59	26.65	28.00	20.40	20.59	20.65	22.00
		GPRS 3 Tx slots		24.44	24.63	24.58	26.00	20.18	20.37	20.32	21.74
		GPRS 4 Tx slots		23.41	23.57	23.61	25.00	20.41	20.57	20.61	22.00
		EDGE 1 Tx slot		23.11	23.10	23.05	24.00	14.11	14.10	14.05	15.00
		EDGE 2 Tx slots		22.18	22.15	22.07	23.00	16.18	16.15	16.07	17.00
		EDGE 3 Tx slots		20.15	20.19	20.17	21.00	15.89	15.93	15.91	16.74
		EDGE 4 Tx slots		18.27	18.25	18.24	19.00	15.27	15.25	15.24	16.00
		DTM Multi-slot class 5	GSM 1 Tx slot	26.40	26.47	26.55	28.00	20.34	20.44	20.47	21.98
			GPRS 1 Tx slot	26.32	26.45	26.43	28.00				
		DTM Multi-slot class 9	GSM 1 Tx slot	26.39	26.45	26.54	28.00	20.33	20.42	20.46	21.98
			GPRS 1 Tx slot	26.31	26.44	26.42	28.00				
		DTM Multi-slot class 11	GSM 1 Tx slot	24.41	24.39	24.45	26.00	20.13	20.10	20.15	21.74
			GPRS 2 Tx slots	24.38	24.35	24.39	26.00				
		DTM Multi-slot class 5	GSM 1 Tx slot	26.42	26.55	26.62	28.00	18.70	18.81	18.88	20.16
			EDGE 1 Tx slot	21.89	21.95	22.01	23.00				
		DTM Multi-slot class 9	GSM 1 Tx slot	26.39	26.49	26.57	28.00	18.68	18.76	18.83	20.16
			EDGE 1 Tx slot	21.88	21.92	21.95	23.00				
		DTM Multi-slot class 11	GSM 1 Tx slot	24.47	24.53	24.55	26.00	17.81	17.85	17.83	19.10
			EDGE 2 Tx slots	20.06	20.09	20.01	21.00				

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	Ant 0	GSM 1 Tx slot		30.94	30.99	30.97	31.00	21.94	21.99	21.97	22.00
		GPRS 1 Tx slot		30.95	31.00	30.99	31.00	21.95	22.00	21.99	22.00
		GPRS 2 Tx slots		28.35	28.30	28.24	29.50	22.35	22.30	22.24	23.50
		GPRS 3 Tx slots		26.82	26.73	26.63	27.50	22.56	22.47	22.37	23.24
		GPRS 4 Tx slots		25.64	25.52	25.41	26.50	22.64	22.52	22.41	23.50
		EDGE 1 Tx slot		26.28	26.26	26.25	27.00	17.28	17.26	17.25	18.00
		EDGE 2 Tx slots		25.65	25.36	25.44	26.00	19.65	19.36	19.44	20.00
		EDGE 3 Tx slots		24.56	24.11	24.21	25.00	20.30	19.85	19.95	20.74
		EDGE 4 Tx slots		23.05	22.92	22.80	24.00	20.05	19.92	19.80	21.00
		DTM Multi-slot class 5	GSM 1 Tx slot	28.00	28.26	28.20	29.50	21.92	22.17	22.10	23.48
			GPRS 1 Tx slot	27.88	28.12	28.04	29.50				
		DTM Multi-slot class 9	GSM 1 Tx slot	28.00	28.26	28.18	29.50	21.92	22.17	22.09	23.48
			GPRS 1 Tx slot	27.88	28.11	28.04	29.50				
		DTM Multi-slot class 11	GSM 1 Tx slot	26.44	26.34	26.44	27.50	22.10	21.98	22.07	23.24
			GPRS 2 Tx slots	26.32	26.19	26.28	27.50				
		DTM Multi-slot class 5	GSM 1 Tx slot	27.88	28.13	28.05	29.50	20.80	20.92	20.87	22.07
			EDGE 1 Tx slot	25.41	25.31	25.31	26.00				
		DTM Multi-slot class 9	GSM 1 Tx slot	27.92	28.18	28.20	29.50	20.78	20.91	20.92	22.07
			EDGE 1 Tx slot	25.29	25.18	25.16	26.00				
		DTM Multi-slot class 11	GSM 1 Tx slot	26.24	26.13	26.18	27.50	20.79	20.69	20.67	21.74
			EDGE 2 Tx slots	24.31	24.21	24.13	25.00				

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 / Near body	Ant 0	GSM 1 Tx slot		26.38	26.33	26.12	27.00	17.38	17.33	17.12	18.00
		GPRS 1 Tx slot		26.48	26.43	26.19	27.00	17.48	17.43	17.19	18.00
		GPRS 2 Tx slots		24.99	24.86	24.71	25.50	18.99	18.86	18.71	19.50
		GPRS 3 Tx slots		22.93	22.87	22.69	23.50	18.67	18.61	18.43	19.24
		GPRS 4 Tx slots		21.97	21.85	21.72	22.50	18.97	18.85	18.72	19.50
		EDGE 1 Tx slot		22.35	22.32	22.13	23.00	13.35	13.32	13.13	14.00
		EDGE 2 Tx slots		21.37	21.39	21.07	22.00	15.37	15.39	15.07	16.00
		EDGE 3 Tx slots		20.39	20.50	20.11	21.00	16.13	16.24	15.85	16.74
		EDGE 4 Tx slots		18.91	18.88	19.01	20.00	15.91	15.88	16.01	17.00
		DTM Multi-slot class 5	GSM 1 Tx slot	24.89	24.72	24.62	25.50	18.84	18.68	18.58	19.48
			GPRS 1 Tx slot	24.83	24.69	24.59	25.50				
		DTM Multi-slot class 9	GSM 1 Tx slot	24.88	24.70	24.61	25.50	18.82	18.68	18.56	19.48
			GPRS 1 Tx slot	24.81	24.70	24.55	25.50				
		DTM Multi-slot class 11	GSM 1 Tx slot	22.71	22.62	22.70	23.50	18.41	18.27	18.35	19.24
			GPRS 2 Tx slots	22.65	22.49	22.57	23.50				
		DTM Multi-slot class 5	GSM 1 Tx slot	24.44	24.39	24.35	25.50	17.14	17.08	17.06	18.07
			EDGE 1 Tx slot	21.35	21.25	21.29	22.00				
		DTM Multi-slot class 9	GSM 1 Tx slot	24.29	24.30	24.32	25.50	17.01	17.04	17.07	18.07
			EDGE 1 Tx slot	21.25	21.31	21.37	22.00				
		DTM Multi-slot class 11	GSM 1 Tx slot	22.56	22.46	22.57	23.50	16.79	16.73	16.81	17.74
			EDGE 2 Tx slots	20.04	20.01	20.07	21.00				

<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:

e. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
f. The RF path losses were compensated into the measurements.
g. A call was established between EUT and Base Station with following setting:
   xii. Set Gain Factors (β_c and β_d) and parameters were set according to each
   xiii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
   xiv. Set RMC 12.2Kbps + HSDPA mode.
   xv. Set Cell Power = -86 dBm
   xvi. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
   xvii. Select HSDPA Uplink Parameters
   xviii. Set Delta ACK, Delta NACK and Delta CQI = 8
   xix. Set Ack-Nack Repetition Factor to 3
   xx. Set CQI Feedback Cycle (k) to 4 ms
   xxi. Set CQI Repetition Factor to 2
   xxii. Power Ctrl Mode = All Up bits
h. 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} *(Note1, 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 Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_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 Δ_{NACK} = 30/15 with β_{hs} = 30/15 * β_c, and Δ_{CQI} = 24/15 with β_{hs} = 24/15 * β_c.

Note 3: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 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 β_c = 11/15 and β_d = 15/15.

Setup Configuration

HSUPA Setup Configuration:

e. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
f. The RF path losses were compensated into the measurements.
g. A call was established between EUT and Base Station with following setting * :
   ix. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
   x. 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
   xi. Set Cell Power = -86 dBm
   xii. Set Channel Type = 12.2k + HSPA
   xiii. Set UE Target Power
   xiv. Power Ctrl Mode= Alternating bits
   xv. Set and observe the E-TFCI
   xvi. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
h. 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} (Note1)	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	209/225	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	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 47/15	4 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 Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c. For sub-test 5, Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 5/15 with β_{hs} = 5/15 * β_c.

Note 2: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c=24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_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:

e. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration below
f. The RF path losses were compensated into the measurements.
g. A call was established between EUT and Base Station with following setting:
   xi. Set RMC 12.2Kbps + HSDPA mode.
   xii. Set Cell Power = -25 dBm
   xiii. Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
   xiv. Select HSDPA Uplink Parameters
   xv. 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: β_c/β_d=2/15
      b). Subtest 2: β_c/β_d=12/15
      c). Subtest 3: β_c/β_d=15/8
      d). Subtest 4: β_c/β_d=15/4
   xvi. Set Delta ACK, Delta NACK and Delta CQI = 8
   xvii. Set Ack-Nack Repetition Factor to 3
   xviii. Set CQI Feedback Cycle (k) to 4 ms
   xix. Set CQI Repetition Factor to 2
   xx. Power Ctrl Mode = All Up bits
h. 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	Proces ses	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.		

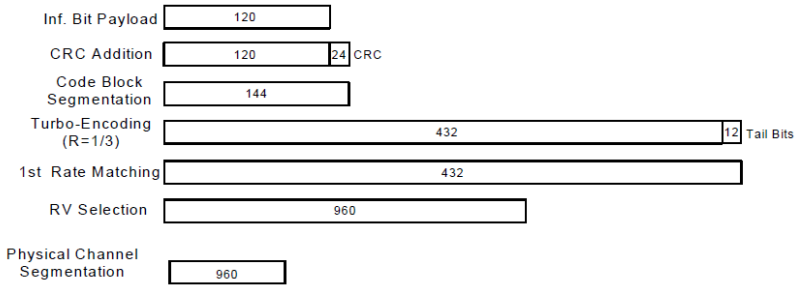


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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 ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

Power Selection	Transmit Antenna	Band		WCDMA IV			WCDMA V		
		TX Channel		1312	1413	1513	4132	4182	4233
		Rx Channel		1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1712.4	1732.6	1752.6	826.4	836.4	846.6
Head	Ant 0	Max Power		24			24.5		
		3GPP Rel 99	AMR 12.2Kbps	23.67	23.62	23.50	23.60	23.51	23.39
		3GPP Rel 99	RMC 12.2Kbps	23.68	23.64	23.55	23.62	23.53	23.39
		Max Power		24			23		
		3GPP Rel 6	HSDPA Subtest-1	23.61	23.53	23.45	22.60	22.49	22.42
		3GPP Rel 6	HSDPA Subtest-2	23.61	23.51	23.42	22.63	22.49	22.42
		3GPP Rel 6	HSDPA Subtest-3	23.06	23.02	22.98	22.16	22.01	21.93
		3GPP Rel 6	HSDPA Subtest-4	23.09	23.05	22.92	22.14	22.03	21.92
		Max Power		24			23		
		3GPP Rel 8	DC-HSDPA Subtest-1	23.65	23.60	23.48	22.44	22.40	22.27
		3GPP Rel 8	DC-HSDPA Subtest-2	23.60	23.45	23.30	22.50	22.42	22.26
		3GPP Rel 8	DC-HSDPA Subtest-3	23.04	23.14	23.05	22.10	21.97	21.93
		3GPP Rel 8	DC-HSDPA Subtest-4	23.02	22.82	22.81	22.09	21.96	21.78
		Max Power		24			23		
		3GPP Rel 6	HSUPA Subtest-1	23.57	23.51	23.42	22.62	22.46	22.42
		3GPP Rel 6	HSUPA Subtest-2	21.60	21.53	21.42	20.63	20.43	20.35
		3GPP Rel 6	HSUPA Subtest-3	22.60	22.52	22.47	21.64	21.50	21.36
		3GPP Rel 6	HSUPA Subtest-4	21.56	21.51	21.49	20.63	20.48	20.36
		3GPP Rel 6	HSUPA Subtest-5	23.60	23.50	23.40	22.60	22.50	22.40

Power Selection	Transmit Antenna	Band		WCDMA IV			WCDMA V		
		TX Channel		1312	1413	1513	4132	4182	4233
		Rx Channel		1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1712.4	1732.6	1752.6	826.4	836.4	846.6
Hotspot / Near body	Ant 0	Max Power		19			21.4		
		3GPP Rel 99	AMR 12.2Kbps	18.70	18.65	18.65	19.66	19.55	19.47
		3GPP Rel 99	RMC 12.2Kbps	18.72	18.65	18.66	19.68	19.56	19.47
		Max Power							
		3GPP Rel 6	HSDPA Subtest-1	18.58	18.51	18.65	19.52	19.46	19.39
		3GPP Rel 6	HSDPA Subtest-2	18.67	18.55	18.63	19.51	19.45	19.32
		3GPP Rel 6	HSDPA Subtest-3	18.65	18.50	18.65	19.48	19.39	19.30
		3GPP Rel 6	HSDPA Subtest-4	18.70	18.50	18.49	19.50	19.43	19.40
		Max Power							
		3GPP Rel 8	DC-HSDPA Subtest-1	18.69	18.63	18.50	19.55	19.40	19.34
		3GPP Rel 8	DC-HSDPA Subtest-2	18.65	18.58	18.51	19.57	19.56	19.35
		3GPP Rel 8	DC-HSDPA Subtest-3	18.68	18.65	18.52	19.49	19.55	19.41
		3GPP Rel 8	DC-HSDPA Subtest-4	18.69	18.53	18.47	19.56	19.51	19.46
		Max Power							
		3GPP Rel 6	HSUPA Subtest-1	18.56	18.60	18.48	19.50	19.44	19.34
		3GPP Rel 6	HSUPA Subtest-2	18.55	18.64	18.65	19.55	19.48	19.38
		3GPP Rel 6	HSUPA Subtest-3	18.70	18.56	18.51	19.67	19.47	19.38
		3GPP Rel 6	HSUPA Subtest-4	18.56	18.55	18.56	19.61	19.51	19.47
		3GPP Rel 6	HSUPA Subtest-5	18.61	18.61	18.58	19.64	19.43	19.34

Power Selection	Transmit Antenna	Band		WCDMA II		
		TX Channel		9262	9400	9538
		Rx Channel		9662	9800	9938
		Frequency (MHz)		1852.4	1880	1907.6
Head	Ant 0	Max Power		25.7		
		3GPP Rel 99	AMR 12.2Kbps	25.40	25.37	25.56
		3GPP Rel 99	RMC 12.2Kbps	25.41	25.40	25.58
		Max Power		25.1		
		3GPP Rel 6	HSDPA Subtest-1	24.54	24.56	24.72
		3GPP Rel 6	HSDPA Subtest-2	24.61	24.57	24.79
		3GPP Rel 6	HSDPA Subtest-3	24.02	24.05	24.30
		3GPP Rel 6	HSDPA Subtest-4	24.01	24.04	24.26
		Max Power		25.1		
		3GPP Rel 8	DC-HSDPA Subtest-1	24.36	24.44	24.67
		3GPP Rel 8	DC-HSDPA Subtest-2	24.47	24.56	24.66
		3GPP Rel 8	DC-HSDPA Subtest-3	23.84	23.87	24.24
		3GPP Rel 8	DC-HSDPA Subtest-4	23.92	23.90	24.09
		Max Power		25.1		
		3GPP Rel 6	HSUPA Subtest-1	24.57	24.58	24.75
		3GPP Rel 6	HSUPA Subtest-2	22.50	22.55	22.74
		3GPP Rel 6	HSUPA Subtest-3	23.56	23.57	23.76
		3GPP Rel 6	HSUPA Subtest-4	22.55	22.52	22.79
		3GPP Rel 6	HSUPA Subtest-5	24.60	24.60	24.80

Power Selection	Transmit Antenna	Band		WCDMA II		
		TX Channel		9262	9400	9538
		Rx Channel		9662	9800	9938
		Frequency (MHz)		1852.4	1880	1907.6
Hotspot / Near body	Ant 1	Max Power		19.6		
		3GPP Rel 99	AMR 12.2Kbps	19.40	19.40	19.55
		3GPP Rel 99	RMC 12.2Kbps	19.42	19.40	19.60
		Max Power		19.6		
		3GPP Rel 6	HSDPA Subtest-1	19.26	19.20	19.40
		3GPP Rel 6	HSDPA Subtest-2	19.28	19.28	19.55
		3GPP Rel 6	HSDPA Subtest-3	19.22	19.40	19.56
		3GPP Rel 6	HSDPA Subtest-4	19.42	19.20	19.53
		Max Power		19.6		
		3GPP Rel 8	DC-HSDPA Subtest-1	19.40	19.29	19.44
		3GPP Rel 8	DC-HSDPA Subtest-2	19.27	19.40	19.57
		3GPP Rel 8	DC-HSDPA Subtest-3	19.34	19.33	19.52
		3GPP Rel 8	DC-HSDPA Subtest-4	19.33	19.23	19.49
		Max Power		19.6		
		3GPP Rel 6	HSUPA Subtest-1	19.32	19.36	19.53
		3GPP Rel 6	HSUPA Subtest-2	19.41	19.24	19.45
		3GPP Rel 6	HSUPA Subtest-3	19.30	19.25	19.59
		3GPP Rel 6	HSUPA Subtest-4	19.25	19.32	19.44
		3GPP Rel 6	HSUPA Subtest-5	19.29	19.40	19.47

<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.

Power Selection	Transmit Antenna	Band	CDMA BC0			CDMA BC1			CDMA BC10		
		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
Head	Ant 0	Max Power	25.5			25			25.5		
		RC1 SO55	24.57	24.62	24.51	24.90	24.89	24.88	24.46	24.58	24.62
		RC3 SO55	24.61	24.66	24.49	25.00	24.99	24.96	24.47	24.58	24.66
		RC3 SO32 (F+SCH)	24.60	24.66	24.65	24.99	24.98	24.95	24.60	24.58	24.65
		RC3 SO32 (+SCH)	24.62	24.59	24.62	24.97	24.93	24.95	24.55	24.53	24.66
		RTAP 153.6Kbps	24.72	24.62	24.64	24.99	24.98	24.97	24.61	24.59	24.64
		RETAP 4096Bits	24.69	24.60	24.61	25.00	24.99	24.97	24.57	24.54	24.62

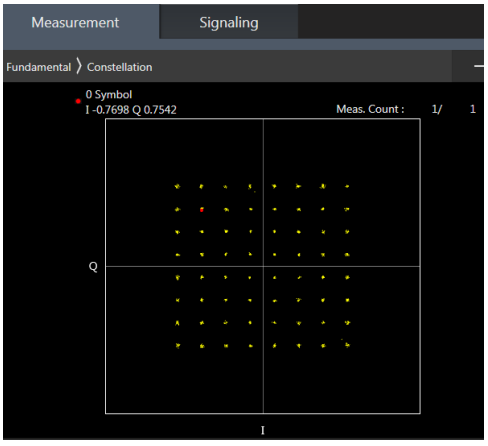
Power Selection	Transmit Antenna	Band	CDMA BC0			CDMA BC10		
		TX Channel	1013	384	777	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	817.9	820.5	823.1
Near body / Hotspot	Ant 0	Max Power	21.5			23.5		
		RC1 SO55	20.44	20.30	20.26	22.31	22.40	22.37
		RC3 SO55	20.45	20.32	20.28	22.25	22.41	22.36
		RC3 SO32 (F+SCH)	20.57	20.32	20.34	22.31	22.35	22.36
		RC3 SO32 (+SCH)	20.50	20.27	20.36	22.29	22.34	22.17
		RTAP 153.6Kbps	20.48	20.30	20.32	22.35	22.33	22.40
		RETAP 4096Bits	20.49	20.33	20.40	22.28	22.37	22.25

Power Selection	Transmit Antenna	Band	CDMA BC1		
		TX Channel	25	600	1175
		Frequency (MHz)	1851.25	1880	1908.75
Near body / Hotspot	Ant 1	Max Power	19		
		RC1 SO55	18.81	18.77	18.86
		RC3 SO55	18.94	18.84	18.77
		RC3 SO32 (F+SCH)	18.93	18.83	18.87
		RC3 SO32 (+SCH)	18.94	18.81	18.79
		RTAP 153.6Kbps	18.97	18.89	18.88
		RETAP 4096Bits	18.89	18.71	18.82

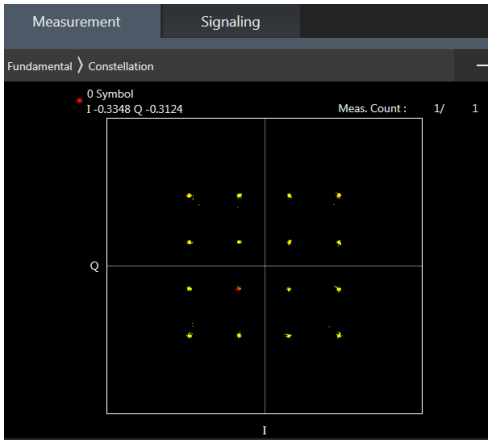
<LTE Conducted Power>

General Note:

1. Anritsu MT8820C 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 ½ 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 ½ 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 B12/38 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 2/5/4/17 SAR test was covered by Band 25/26/66/12; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
   c. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
   d. 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>

Power Selection				Head		
Transmit Antenna				Ant 0		
Max. Power				25.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	25.16	25.39	24.96
20	QPSK	1	49	25.19	25.21	25.06
20	QPSK	1	99	25.27	25.20	25.09
20	QPSK	50	0	24.25	24.28	24.14
20	QPSK	50	24	24.30	24.32	24.18
20	QPSK	50	50	24.32	24.26	24.12
20	QPSK	100	0	24.34	24.27	24.16
20	16QAM	1	0	24.53	24.56	24.35
20	16QAM	1	49	24.48	24.53	24.39
20	16QAM	1	99	24.56	24.49	24.37
20	16QAM	50	0	23.34	23.36	23.23
20	16QAM	50	24	23.36	23.41	23.24
20	16QAM	50	50	23.42	23.37	23.23
20	16QAM	100	0	23.42	23.35	23.21
20	64QAM	1	0	23.46	23.48	23.29
20	64QAM	1	49	23.42	23.50	23.27
20	64QAM	1	99	23.47	23.41	23.28
20	64QAM	50	0	22.36	22.40	22.24
20	64QAM	50	24	22.38	22.39	22.28
20	64QAM	50	50	22.46	22.37	22.23
20	64QAM	100	0	22.45	22.35	22.24
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	25.14	25.13	24.81
15	QPSK	1	37	25.04	25.29	24.82
15	QPSK	1	74	25.27	25.18	24.92
15	QPSK	36	0	24.33	24.32	24.10
15	QPSK	36	20	24.15	24.30	23.89
15	QPSK	36	39	24.18	24.25	24.06
15	QPSK	75	0	24.13	24.08	24.05
15	16QAM	1	0	24.63	24.48	24.40
15	16QAM	1	37	24.41	24.23	24.12
15	16QAM	1	74	24.52	24.33	24.14
15	16QAM	36	0	23.14	23.34	23.01
15	16QAM	36	20	23.28	23.38	23.16
15	16QAM	36	39	23.20	23.30	22.93
15	16QAM	75	0	23.15	23.26	23.26
15	64QAM	1	0	23.33	23.24	23.28
15	64QAM	1	37	23.24	23.34	23.28
15	64QAM	1	74	23.56	23.13	23.06
15	64QAM	36	0	22.13	22.26	22.20
15	64QAM	36	20	22.09	22.28	22.03
15	64QAM	36	39	22.35	22.21	21.98
15	64QAM	75	0	22.38	22.42	22.01
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	25.12	25.28	24.92
10	QPSK	1	25	25.10	25.31	24.79

10	QPSK	1	49	25.28	25.06	24.79
10	QPSK	25	0	24.09	24.17	24.14
10	QPSK	25	12	24.39	24.27	23.99
10	QPSK	25	25	24.35	24.15	24.17
10	QPSK	50	0	24.09	24.02	23.98
10	16QAM	1	0	24.31	24.49	24.08
10	16QAM	1	25	24.19	24.31	24.30
10	16QAM	1	49	24.32	24.27	24.32
10	16QAM	25	0	23.40	23.39	23.29
10	16QAM	25	12	23.24	23.13	23.31
10	16QAM	25	25	23.51	23.47	23.10
10	16QAM	50	0	23.37	23.20	23.07
10	64QAM	1	0	23.47	23.32	23.37
10	64QAM	1	25	23.18	23.44	23.26
10	64QAM	1	49	23.56	23.19	23.34
10	64QAM	25	0	22.07	22.16	21.94
10	64QAM	25	12	22.30	22.25	22.35
10	64QAM	25	25	22.42	22.37	22.08
10	64QAM	50	0	22.51	22.42	22.01
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	25.23	25.25	24.94
5	QPSK	1	12	24.92	25.29	24.83
5	QPSK	1	24	25.24	24.91	24.84
5	QPSK	12	0	24.15	24.11	24.16
5	QPSK	12	7	24.30	24.02	23.91
5	QPSK	12	13	24.18	24.35	23.90
5	QPSK	25	0	24.10	24.34	24.18
5	16QAM	1	0	24.60	24.47	24.15
5	16QAM	1	12	24.28	24.28	24.30
5	16QAM	1	24	24.45	24.55	24.10
5	16QAM	12	0	23.20	23.28	23.16
5	16QAM	12	7	23.33	23.45	23.06
5	16QAM	12	13	23.15	23.13	23.17
5	16QAM	25	0	23.29	23.37	22.96
5	64QAM	1	0	23.16	23.38	23.30
5	64QAM	1	12	23.20	23.60	23.34
5	64QAM	1	24	23.43	23.42	23.16
5	64QAM	12	0	22.23	22.23	22.23
5	64QAM	12	7	22.35	22.32	22.28
5	64QAM	12	13	22.24	22.14	22.23
5	64QAM	25	0	22.42	22.45	21.97
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	25.08	25.25	24.83
3	QPSK	1	8	25.06	25.27	24.90
3	QPSK	1	14	25.29	25.07	24.91
3	QPSK	8	0	23.99	24.13	24.00
3	QPSK	8	4	24.37	24.09	24.04
3	QPSK	8	7	24.20	24.05	23.87
3	QPSK	15	0	24.08	24.23	23.92
3	16QAM	1	0	24.44	24.62	24.30
3	16QAM	1	8	24.35	24.23	24.34
3	16QAM	1	14	24.26	24.51	24.21
3	16QAM	8	0	23.43	23.42	23.24
3	16QAM	8	4	23.30	23.31	22.96

3	16QAM	8	7	23.35	23.39	23.12
3	16QAM	15	0	23.38	23.41	23.28
3	64QAM	1	0	23.49	23.47	23.29
3	64QAM	1	8	23.43	23.22	23.03
3	64QAM	1	14	23.45	23.28	23.37
3	64QAM	8	0	22.15	22.21	22.11
3	64QAM	8	4	22.39	22.26	22.24
3	64QAM	8	7	22.26	22.07	22.18
3	64QAM	15	0	22.50	22.18	22.08
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	24.76	25.11	24.94
1.4	QPSK	1	3	24.97	25.11	24.84
1.4	QPSK	1	5	24.87	25.04	24.94
1.4	QPSK	3	0	25.04	24.86	24.88
1.4	QPSK	3	1	24.96	24.97	25.03
1.4	QPSK	3	3	25.08	24.87	24.82
1.4	QPSK	6	0	23.98	24.08	24.14
1.4	16QAM	1	0	24.46	24.09	24.28
1.4	16QAM	1	3	24.50	24.07	23.95
1.4	16QAM	1	5	24.42	23.98	23.91
1.4	16QAM	3	0	24.15	23.88	24.21
1.4	16QAM	3	1	24.32	23.98	24.08
1.4	16QAM	3	3	24.05	23.96	24.14
1.4	16QAM	6	0	22.96	22.92	23.07
1.4	64QAM	1	0	23.19	23.21	23.14
1.4	64QAM	1	3	22.95	23.13	23.12
1.4	64QAM	1	5	22.84	23.15	22.93
1.4	64QAM	3	0	23.23	23.01	23.07
1.4	64QAM	3	1	23.21	22.77	22.81
1.4	64QAM	3	3	22.92	22.94	22.78
1.4	64QAM	6	0	22.18	21.88	22.16

Power Selection				Near body / Hotspot		
Transmit Antenna				Ant 1		
Max. Power				19.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	19.02	19.09	18.73
20	QPSK	1	49	18.96	18.98	18.79
20	QPSK	1	99	18.94	19.04	18.86
20	QPSK	50	0	18.88	18.96	18.88
20	QPSK	50	24	18.95	18.93	18.83
20	QPSK	50	50	18.90	19.00	18.49
20	QPSK	100	0	18.86	19.06	18.74
20	16QAM	1	0	18.79	19.02	18.70
20	16QAM	1	49	18.88	19.04	18.86
20	16QAM	1	99	18.91	19.05	18.67
20	16QAM	50	0	18.86	18.87	18.56
20	16QAM	50	24	18.70	19.02	18.67
20	16QAM	50	50	18.83	18.96	18.70
20	16QAM	100	0	18.89	18.95	18.67
20	64QAM	1	0	18.65	19.06	18.75
20	64QAM	1	49	18.82	18.91	18.61
20	64QAM	1	99	18.74	18.88	18.88
20	64QAM	50	0	18.95	18.80	18.74
20	64QAM	50	24	18.87	18.79	18.54
20	64QAM	50	50	18.91	19.04	18.63
20	64QAM	100	0	18.83	18.92	18.59
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	18.94	19.05	18.78
15	QPSK	1	37	18.86	19.02	18.83
15	QPSK	1	74	18.99	18.97	18.78
15	QPSK	36	0	18.88	18.93	18.77
15	QPSK	36	20	18.82	18.93	18.79
15	QPSK	36	39	18.68	18.97	18.62
15	QPSK	75	0	18.86	19.09	18.75
15	16QAM	1	0	18.83	19.01	18.68
15	16QAM	1	37	18.95	18.97	18.81
15	16QAM	1	74	18.89	19.07	18.61
15	16QAM	36	0	18.84	18.92	18.66
15	16QAM	36	20	18.71	18.97	18.76
15	16QAM	36	39	18.93	18.91	18.79
15	16QAM	75	0	18.93	18.97	18.64
15	64QAM	1	0	18.76	19.06	18.71
15	64QAM	1	37	18.85	18.86	18.60
15	64QAM	1	74	18.93	18.90	18.71
15	64QAM	36	0	18.87	18.87	18.61
15	64QAM	36	20	18.91	18.79	18.63
15	64QAM	36	39	18.90	19.01	18.74
15	64QAM	75	0	18.79	19.02	18.70
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	18.93	19.06	18.75
10	QPSK	1	25	18.93	18.98	18.85

10	QPSK	1	49	19.05	19.00	18.68
10	QPSK	25	0	18.91	19.04	18.87
10	QPSK	25	12	18.98	18.94	18.84
10	QPSK	25	25	18.82	18.98	18.51
10	QPSK	50	0	18.78	19.08	18.81
10	16QAM	1	0	18.85	19.05	18.73
10	16QAM	1	25	18.85	18.96	18.68
10	16QAM	1	49	18.82	18.93	18.70
10	16QAM	25	0	18.81	18.91	18.63
10	16QAM	25	12	18.68	19.03	18.80
10	16QAM	25	25	18.97	18.83	18.63
10	16QAM	50	0	18.96	18.98	18.61
10	64QAM	1	0	18.67	18.96	18.78
10	64QAM	1	25	18.79	18.81	18.53
10	64QAM	1	49	18.92	18.76	18.83
10	64QAM	25	0	18.91	18.97	18.76
10	64QAM	25	12	18.87	18.86	18.61
10	64QAM	25	25	18.89	19.00	18.83
10	64QAM	50	0	18.78	18.91	18.71
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	18.97	19.03	18.88
5	QPSK	1	12	18.87	19.03	18.74
5	QPSK	1	24	18.93	19.02	18.75
5	QPSK	12	0	18.94	18.98	18.78
5	QPSK	12	7	18.80	19.03	18.91
5	QPSK	12	13	18.99	18.84	18.68
5	QPSK	25	0	18.74	18.96	18.77
5	16QAM	1	0	18.92	18.91	18.79
5	16QAM	1	12	18.82	19.03	18.74
5	16QAM	1	24	18.76	19.03	18.56
5	16QAM	12	0	18.89	18.95	18.72
5	16QAM	12	7	18.80	18.89	18.85
5	16QAM	12	13	18.81	18.82	18.82
5	16QAM	25	0	18.91	18.94	18.69
5	64QAM	1	0	18.83	18.93	18.62
5	64QAM	1	12	18.93	18.91	18.58
5	64QAM	1	24	18.91	18.91	18.82
5	64QAM	12	0	18.83	18.91	18.64
5	64QAM	12	7	18.96	18.89	18.61
5	64QAM	12	13	18.99	19.00	18.66
5	64QAM	25	0	18.79	19.02	18.60
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	18.89	18.95	18.85
3	QPSK	1	8	18.80	18.99	18.87
3	QPSK	1	14	18.96	19.00	18.88
3	QPSK	8	0	18.92	19.04	18.85
3	QPSK	8	4	18.98	19.02	18.73
3	QPSK	8	7	18.77	18.98	18.62
3	QPSK	15	0	18.80	19.07	18.67
3	16QAM	1	0	18.89	18.94	18.79
3	16QAM	1	8	18.85	19.09	18.77
3	16QAM	1	14	18.73	19.05	18.65
3	16QAM	8	0	18.92	18.92	18.56
3	16QAM	8	4	18.70	19.03	18.77

3	16QAM	8	7	18.85	18.87	18.67
3	16QAM	15	0	18.98	18.85	18.74
3	64QAM	1	0	18.85	18.95	18.75
3	64QAM	1	8	18.75	18.86	18.51
3	64QAM	1	14	18.93	18.80	18.75
3	64QAM	8	0	18.96	18.84	18.63
3	64QAM	8	4	18.93	18.94	18.52
3	64QAM	8	7	18.93	19.01	18.66
3	64QAM	15	0	18.80	18.96	18.68
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	18.91	19.05	18.77
1.4	QPSK	1	3	18.78	18.91	18.90
1.4	QPSK	1	5	18.97	19.01	18.71
1.4	QPSK	3	0	19.05	19.02	18.85
1.4	QPSK	3	1	18.95	19.04	18.89
1.4	QPSK	3	3	18.77	18.94	18.54
1.4	QPSK	6	0	18.80	19.03	18.76
1.4	16QAM	1	0	18.90	18.99	18.72
1.4	16QAM	1	3	18.79	19.04	18.76
1.4	16QAM	1	5	18.89	18.98	18.67
1.4	16QAM	3	0	18.99	18.90	18.58
1.4	16QAM	3	1	18.84	19.04	18.77
1.4	16QAM	3	3	18.80	18.89	18.66
1.4	16QAM	6	0	18.83	18.90	18.60
1.4	64QAM	1	0	18.75	18.94	18.77
1.4	64QAM	1	3	18.92	18.77	18.62
1.4	64QAM	1	5	18.78	18.88	18.72
1.4	64QAM	3	0	18.97	18.99	18.75
1.4	64QAM	3	1	18.98	18.79	18.69
1.4	64QAM	3	3	18.98	19.00	18.77
1.4	64QAM	6	0	18.87	18.83	18.70

<LTE Band 4>

Power Selection				Head			Hotspot / Near body		
Transmit Antenna				Ant 0			Ant 0		
Max. Power				24.5			18.7		
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				20050	20175	20300	20050	20175	20300
Frequency (MHz)				1720	1732.5	1745	1720	1732.5	1745
20	QPSK	1	0	24.03	23.97	23.97	18.12	18.09	18.06
20	QPSK	1	49	24.07	24.01	23.97	18.11	18.08	18.01
20	QPSK	1	99	24.00	23.94	23.89	18.22	18.23	18.00
20	QPSK	50	0	23.19	23.10	23.05	17.82	17.99	17.89
20	QPSK	50	24	23.15	23.09	23.09	17.92	18.01	18.06
20	QPSK	50	50	23.11	23.05	22.98	18.01	18.11	18.01
20	QPSK	100	0	23.12	23.07	23.05	18.01	18.23	18.06
20	16QAM	1	0	23.46	23.29	23.27	17.92	18.09	18.21
20	16QAM	1	49	23.40	23.29	23.31	18.21	18.00	18.15
20	16QAM	1	99	23.32	23.29	23.24	18.10	18.37	18.11
20	16QAM	50	0	22.23	22.19	22.14	17.79	18.06	17.93
20	16QAM	50	24	22.24	22.17	22.16	18.07	18.04	18.12
20	16QAM	50	50	22.19	22.12	22.10	18.11	17.98	18.03
20	16QAM	100	0	22.20	22.13	22.08	17.82	18.38	18.00
20	64QAM	1	0	22.39	22.28	22.21	18.09	18.22	17.86
20	64QAM	1	49	22.31	22.23	22.21	17.92	18.09	17.93
20	64QAM	1	99	22.24	22.23	22.19	18.27	18.34	18.19
20	64QAM	50	0	21.23	21.19	21.14	17.98	18.18	17.77
20	64QAM	50	24	21.23	21.22	21.17	18.04	17.85	18.11
20	64QAM	50	50	21.19	21.15	21.09	17.84	18.13	18.19
20	64QAM	100	0	21.21	21.15	21.13	17.89	18.33	18.04
Channel				20025	20175	20325	20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5	1717.5	1732.5	1747.5
15	QPSK	1	0	23.86	23.86	23.81	18.05	18.01	17.86
15	QPSK	1	37	24.00	23.84	23.92	17.94	17.97	17.93
15	QPSK	1	74	23.95	23.94	23.81	18.18	18.13	17.82
15	QPSK	36	0	23.12	23.00	22.93	17.66	17.88	17.75
15	QPSK	36	20	22.98	22.91	22.93	17.86	17.94	18.04
15	QPSK	36	39	23.04	22.88	22.93	17.88	17.95	18.01
15	QPSK	75	0	22.94	23.04	22.94	17.96	18.07	17.93
15	16QAM	1	0	23.45	23.24	23.20	17.73	18.02	18.13
15	16QAM	1	37	23.28	23.19	23.24	18.17	17.89	18.10
15	16QAM	1	74	23.23	23.28	23.13	18.00	18.24	18.00
15	16QAM	36	0	22.08	22.15	22.11	17.64	17.93	17.84
15	16QAM	36	20	22.04	22.12	22.01	17.96	18.00	17.95
15	16QAM	36	39	22.17	22.09	22.09	18.01	17.85	17.86
15	16QAM	75	0	22.18	21.99	21.92	17.75	18.31	17.93
15	64QAM	1	0	22.23	22.19	22.17	17.92	18.22	17.85
15	64QAM	1	37	22.14	22.09	22.03	17.78	18.09	17.79
15	64QAM	1	74	22.15	22.21	22.19	18.25	18.27	18.10
15	64QAM	36	0	21.05	21.03	21.05	17.86	18.05	17.58
15	64QAM	36	20	21.21	21.05	21.13	17.88	17.83	18.04
15	64QAM	36	39	21.00	21.03	21.01	17.66	18.05	17.99
15	64QAM	75	0	21.19	21.10	21.11	17.74	18.31	17.89
Channel				20000	20175	20350	20000	20175	20350
Frequency (MHz)				1715	1732.5	1750	1715	1732.5	1750
10	QPSK	1	0	23.88	23.84	23.86	18.03	17.89	17.93
10	QPSK	1	25	23.99	23.98	23.77	17.99	17.99	17.95

10	QPSK	1	49	23.98	23.78	23.87	18.15	18.03	17.95
10	QPSK	25	0	23.09	23.03	23.02	17.79	17.96	17.72
10	QPSK	25	12	23.10	23.01	23.09	17.76	17.92	17.87
10	QPSK	25	25	23.03	22.94	22.92	18.01	17.93	17.98
10	QPSK	50	0	22.95	22.97	22.88	17.84	18.15	17.99
10	16QAM	1	0	23.35	23.17	23.14	17.92	17.91	18.08
10	16QAM	1	25	23.25	23.17	23.19	18.16	17.82	18.00
10	16QAM	1	49	23.13	23.10	23.06	18.03	18.20	17.99
10	16QAM	25	0	22.21	22.06	22.10	17.68	17.96	17.88
10	16QAM	25	12	22.14	22.16	22.09	18.02	18.04	18.07
10	16QAM	25	25	22.10	21.92	22.05	17.99	17.78	17.85
10	16QAM	50	0	22.08	21.95	21.95	17.71	18.24	17.82
10	64QAM	1	0	22.29	22.12	22.21	17.91	18.17	17.73
10	64QAM	1	25	22.23	22.20	22.14	17.75	17.95	17.76
10	64QAM	1	49	22.05	22.04	22.10	18.09	18.16	18.18
10	64QAM	25	0	21.09	21.16	21.07	17.93	18.13	17.70
10	64QAM	25	12	21.14	21.20	21.13	18.02	17.82	18.00
10	64QAM	25	25	21.08	21.06	21.07	17.82	17.97	18.16
10	64QAM	50	0	21.21	21.01	21.06	17.71	18.21	18.01
Channel				19975	20175	20375	19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5	1712.5	1732.5	1752.5
5	QPSK	1	0	23.90	23.89	23.87	17.93	17.93	18.03
5	QPSK	1	12	24.04	23.91	23.78	18.04	17.99	17.94
5	QPSK	1	24	23.91	23.92	23.85	18.13	18.13	17.95
5	QPSK	12	0	23.08	22.94	22.86	17.79	17.90	17.83
5	QPSK	12	7	23.12	22.93	22.94	17.91	17.94	17.96
5	QPSK	12	13	23.08	23.03	22.93	17.91	17.95	17.95
5	QPSK	25	0	23.01	22.92	22.88	17.86	18.07	17.86
5	16QAM	1	0	23.36	23.19	23.20	17.89	17.89	18.21
5	16QAM	1	12	23.37	23.28	23.19	18.06	17.87	18.10
5	16QAM	1	24	23.29	23.11	23.16	18.01	18.36	17.95
5	16QAM	12	0	22.20	22.09	22.01	17.70	18.03	17.77
5	16QAM	12	7	22.21	22.10	21.97	17.97	18.04	18.00
5	16QAM	12	13	22.17	22.00	21.98	18.02	17.80	17.83
5	16QAM	25	0	22.04	22.00	21.89	17.78	18.33	17.95
5	64QAM	1	0	22.21	22.24	22.11	18.05	18.21	17.76
5	64QAM	1	12	22.20	22.21	22.14	17.86	17.89	17.84
5	64QAM	1	24	22.10	22.12	22.13	18.24	18.17	18.19
5	64QAM	12	0	21.21	21.12	21.02	17.90	18.11	17.64
5	64QAM	12	7	21.17	21.13	21.14	17.86	17.70	17.98
5	64QAM	12	13	21.11	20.96	20.95	17.75	18.01	18.10
5	64QAM	25	0	21.17	20.96	21.04	17.73	18.15	17.88
Channel				19965	20175	20385	19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5	1711.5	1732.5	1753.5
3	QPSK	1	0	23.93	23.78	23.77	18.07	17.89	18.01
3	QPSK	1	8	23.95	23.89	23.96	17.91	17.90	17.91
3	QPSK	1	14	23.92	23.88	23.74	18.10	18.04	17.91
3	QPSK	8	0	23.00	22.90	22.93	17.76	17.99	17.88
3	QPSK	8	4	23.13	23.02	22.95	17.80	17.91	17.98
3	QPSK	8	7	23.08	23.02	22.78	17.82	17.98	17.99
3	QPSK	15	0	23.09	22.89	23.00	17.99	18.05	18.06
3	16QAM	1	0	23.33	23.19	23.08	17.78	18.09	18.03
3	16QAM	1	8	23.38	23.25	23.30	18.17	17.91	18.10
3	16QAM	1	14	23.25	23.09	23.16	17.97	18.36	18.02
3	16QAM	8	0	22.09	22.16	22.05	17.73	17.97	17.87
3	16QAM	8	4	22.12	22.01	22.11	17.88	17.93	18.09

3	16QAM	8	7	22.06	21.93	21.98	17.91	17.98	18.01
3	16QAM	15	0	22.09	22.01	21.97	17.81	18.18	17.82
3	64QAM	1	0	22.29	22.10	22.16	17.94	18.12	17.77
3	64QAM	1	8	22.21	22.04	22.10	17.80	18.00	17.80
3	64QAM	1	14	22.18	22.15	22.04	18.13	18.21	18.11
3	64QAM	8	0	21.14	21.07	21.08	17.88	18.17	17.74
3	64QAM	8	4	21.19	21.07	21.16	17.92	17.85	18.05
3	64QAM	8	7	21.12	21.11	21.03	17.84	18.12	18.17
3	64QAM	15	0	21.06	21.03	21.02	17.88	18.16	18.01
Channel				19957	20175	20393	19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3	1710.7	1732.5	1754.3
1.4	QPSK	1	0	23.90	23.97	23.89	17.92	17.96	18.01
1.4	QPSK	1	3	24.05	23.99	23.90	18.03	17.99	17.81
1.4	QPSK	1	5	23.95	23.90	23.74	18.07	18.17	17.95
1.4	QPSK	3	0	23.89	23.80	23.81	17.79	17.83	17.82
1.4	QPSK	3	1	24.05	23.89	23.86	17.82	17.88	18.05
1.4	QPSK	3	3	23.94	23.88	23.78	17.88	18.09	17.81
1.4	QPSK	6	0	23.07	22.90	22.97	17.82	18.08	17.93
1.4	16QAM	1	0	23.34	23.11	23.26	17.83	18.07	18.16
1.4	16QAM	1	3	23.40	23.13	23.12	18.17	17.83	17.99
1.4	16QAM	1	5	23.28	23.13	23.09	17.96	18.25	18.04
1.4	16QAM	3	0	23.26	23.02	23.20	17.69	18.02	17.81
1.4	16QAM	3	1	23.40	23.04	23.05	17.95	17.88	18.02
1.4	16QAM	3	3	23.08	22.93	23.01	18.11	17.96	18.00
1.4	16QAM	6	0	22.02	21.93	21.97	17.74	18.36	17.82
1.4	64QAM	1	0	22.27	22.28	22.05	18.03	18.08	17.68
1.4	64QAM	1	3	22.15	22.03	22.02	17.88	17.97	17.79
1.4	64QAM	1	5	22.04	22.17	22.01	18.13	18.21	18.01
1.4	64QAM	3	0	22.08	22.12	22.02	17.87	18.10	17.57
1.4	64QAM	3	1	22.02	21.95	21.86	17.95	17.73	18.01
1.4	64QAM	3	3	21.93	21.99	21.86	17.68	18.13	18.10
1.4	64QAM	6	0	21.08	21.06	21.08	17.78	18.14	17.96

<LTE Band 5>

Power Selection				Head		
Transmit Antenna				Ant 0		
Max. Power				25.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	24.41	24.62	24.52
10	QPSK	1	25	24.45	24.57	24.55
10	QPSK	1	49	24.35	24.36	24.32
10	QPSK	25	0	23.46	23.46	23.48
10	QPSK	25	12	23.48	23.49	23.60
10	QPSK	25	25	23.49	23.62	23.62
10	QPSK	50	0	23.46	23.59	23.77
10	16QAM	1	0	23.69	23.55	23.58
10	16QAM	1	25	23.73	23.70	23.81
10	16QAM	1	49	23.57	23.56	23.66
10	16QAM	25	0	22.45	22.43	22.52
10	16QAM	25	12	22.45	22.46	22.59
10	16QAM	25	25	22.41	22.50	22.55
10	16QAM	50	0	22.60	22.69	22.82
10	64QAM	1	0	22.79	22.79	22.88
10	64QAM	1	25	22.52	22.53	22.63
10	64QAM	1	49	22.59	22.77	22.79
10	64QAM	25	0	21.52	21.54	21.65
10	64QAM	25	12	21.51	21.56	21.67
10	64QAM	25	25	21.57	21.53	21.61
10	64QAM	50	0	21.50	21.58	21.75
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	24.44	24.49	24.55
5	QPSK	1	12	24.47	24.53	24.40
5	QPSK	1	24	24.11	24.27	24.29
5	QPSK	12	0	23.21	23.53	23.50
5	QPSK	12	7	23.24	23.49	23.42
5	QPSK	12	13	23.59	23.67	23.60
5	QPSK	25	0	23.54	23.58	23.49
5	16QAM	1	0	23.77	23.50	23.38
5	16QAM	1	12	23.77	23.52	23.58
5	16QAM	1	24	23.52	23.34	23.58
5	16QAM	12	0	22.52	22.52	22.31
5	16QAM	12	7	22.18	22.54	22.46
5	16QAM	12	13	22.12	22.55	22.26
5	16QAM	25	0	22.37	22.61	22.70
5	64QAM	1	0	22.72	22.73	22.86
5	64QAM	1	12	22.55	22.45	22.33
5	64QAM	1	24	22.66	22.64	22.64
5	64QAM	12	0	21.37	21.55	21.58
5	64QAM	12	7	21.39	21.63	21.74
5	64QAM	12	13	21.58	21.46	21.65
5	64QAM	25	0	21.23	21.35	21.74
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	24.16	24.63	24.47
3	QPSK	1	8	24.27	24.64	24.59

3	QPSK	1	14	24.43	24.37	24.07
3	QPSK	8	0	23.21	23.44	23.19
3	QPSK	8	4	23.58	23.29	23.69
3	QPSK	8	7	23.41	23.68	23.38
3	QPSK	15	0	23.34	23.57	23.86
3	16QAM	1	0	23.42	23.34	23.32
3	16QAM	1	8	23.46	23.63	23.91
3	16QAM	1	14	23.49	23.57	23.70
3	16QAM	8	0	22.42	22.34	22.37
3	16QAM	8	4	22.34	22.41	22.54
3	16QAM	8	7	22.17	22.25	22.44
3	16QAM	15	0	22.57	22.62	22.76
3	64QAM	1	0	22.75	22.83	22.68
3	64QAM	1	8	22.24	22.44	22.62
3	64QAM	1	14	22.29	22.76	22.76
3	64QAM	8	0	21.28	21.58	21.44
3	64QAM	8	4	21.33	21.61	21.54
3	64QAM	8	7	21.46	21.36	21.35
3	64QAM	15	0	21.30	21.35	21.63
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.97	24.27	24.02
1.4	QPSK	1	3	24.23	24.01	23.98
1.4	QPSK	1	5	23.95	23.82	23.94
1.4	QPSK	3	0	23.99	23.75	23.79
1.4	QPSK	3	1	24.06	24.12	23.94
1.4	QPSK	3	3	24.08	24.06	23.77
1.4	QPSK	6	0	23.00	22.82	22.87
1.4	16QAM	1	0	23.49	23.27	23.46
1.4	16QAM	1	3	23.33	23.08	23.42
1.4	16QAM	1	5	23.18	23.41	23.20
1.4	16QAM	3	0	23.17	23.31	23.10
1.4	16QAM	3	1	23.69	23.21	23.32
1.4	16QAM	3	3	23.15	22.86	23.06
1.4	16QAM	6	0	22.12	22.23	21.97
1.4	64QAM	1	0	22.36	22.26	22.30
1.4	64QAM	1	3	22.20	22.32	22.05
1.4	64QAM	1	5	22.27	22.11	22.21
1.4	64QAM	3	0	22.02	22.12	21.96
1.4	64QAM	3	1	21.94	21.97	21.92
1.4	64QAM	3	3	22.08	22.15	21.99
1.4	64QAM	6	0	21.12	21.07	21.21

Power Selection				Hotspot / Near body		
Transmit Antenna				Ant 0		
Max. Power				22.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	21.68	21.58	21.64
10	QPSK	1	25	21.64	21.57	21.60
10	QPSK	1	49	21.60	21.56	21.55
10	QPSK	25	0	21.47	21.50	21.41
10	QPSK	25	12	21.50	21.50	21.43
10	QPSK	25	25	21.53	21.50	21.38
10	QPSK	50	0	21.46	21.47	21.40
10	16QAM	1	0	21.49	21.49	21.57
10	16QAM	1	25	21.58	21.58	21.51
10	16QAM	1	49	21.62	21.53	21.52
10	16QAM	25	0	21.50	21.48	21.42
10	16QAM	25	12	21.51	21.51	21.42
10	16QAM	25	25	21.55	21.44	21.38
10	16QAM	50	0	21.48	21.51	21.41
10	64QAM	1	0	21.27	21.28	21.32
10	64QAM	1	25	21.29	21.35	21.26
10	64QAM	1	49	21.40	21.29	21.21
10	64QAM	25	0	21.34	21.40	21.32
10	64QAM	25	12	21.37	21.41	21.31
10	64QAM	25	25	21.46	21.40	21.28
10	64QAM	50	0	21.37	21.41	21.31
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	21.60	21.43	21.63
5	QPSK	1	12	21.57	21.48	21.47
5	QPSK	1	24	21.54	21.55	21.49
5	QPSK	12	0	21.41	21.40	21.38
5	QPSK	12	7	21.30	21.34	21.37
5	QPSK	12	13	21.49	21.49	21.19
5	QPSK	25	0	21.26	21.39	21.38
5	16QAM	1	0	21.33	21.38	21.52
5	16QAM	1	12	21.44	21.42	21.48
5	16QAM	1	24	21.52	21.33	21.39
5	16QAM	12	0	21.45	21.46	21.37
5	16QAM	12	7	21.44	21.40	21.27
5	16QAM	12	13	21.43	21.35	21.20
5	16QAM	25	0	21.35	21.38	21.39
5	64QAM	1	0	21.24	21.28	21.26
5	64QAM	1	12	21.13	21.26	21.20
5	64QAM	1	24	21.34	21.25	21.19
5	64QAM	12	0	21.32	21.30	21.22
5	64QAM	12	7	21.24	21.39	21.26
5	64QAM	12	13	21.38	21.25	21.11
5	64QAM	25	0	21.20	21.27	21.11
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	21.67	21.40	21.59
3	QPSK	1	8	21.58	21.42	21.58

3	QPSK	1	14	21.43	21.54	21.47
3	QPSK	8	0	21.42	21.40	21.31
3	QPSK	8	4	21.43	21.48	21.23
3	QPSK	8	7	21.36	21.38	21.32
3	QPSK	15	0	21.29	21.43	21.35
3	16QAM	1	0	21.47	21.43	21.39
3	16QAM	1	8	21.44	21.54	21.41
3	16QAM	1	14	21.44	21.46	21.50
3	16QAM	8	0	21.31	21.33	21.34
3	16QAM	8	4	21.36	21.35	21.27
3	16QAM	8	7	21.37	21.43	21.30
3	16QAM	15	0	21.38	21.48	21.27
3	64QAM	1	0	21.10	21.20	21.22
3	64QAM	1	8	21.22	21.18	21.16
3	64QAM	1	14	21.40	21.21	21.12
3	64QAM	8	0	21.23	21.20	21.23
3	64QAM	8	4	21.22	21.39	21.26
3	64QAM	8	7	21.39	21.22	21.09
3	64QAM	15	0	21.22	21.41	21.12
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	21.54	21.56	21.58
1.4	QPSK	1	3	21.45	21.52	21.41
1.4	QPSK	1	5	21.54	21.39	21.37
1.4	QPSK	3	0	21.31	21.46	21.23
1.4	QPSK	3	1	21.33	21.48	21.23
1.4	QPSK	3	3	21.35	21.32	21.29
1.4	QPSK	6	0	21.42	21.43	21.33
1.4	16QAM	1	0	21.40	21.34	21.56
1.4	16QAM	1	3	21.38	21.54	21.34
1.4	16QAM	1	5	21.50	21.53	21.38
1.4	16QAM	3	0	21.42	21.33	21.23
1.4	16QAM	3	1	21.46	21.49	21.38
1.4	16QAM	3	3	21.38	21.27	21.33
1.4	16QAM	6	0	21.45	21.38	21.29
1.4	64QAM	1	0	21.13	21.09	21.28
1.4	64QAM	1	3	21.17	21.33	21.24
1.4	64QAM	1	5	21.24	21.12	21.14
1.4	64QAM	3	0	21.28	21.26	21.29
1.4	64QAM	3	1	21.20	21.36	21.25
1.4	64QAM	3	3	21.27	21.24	21.12
1.4	64QAM	6	0	21.26	21.32	21.26

<LTE Band 7>

Power Selection				Head			Hotspot / Near body		
Transmit Antenna				Ant 2			Ant 2		
Max. Power				21			18.5		
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				20850	21100	21350	20850	21100	21350
Frequency (MHz)				2510	2535	2560	2510	2535	2560
20	QPSK	1	0	20.71	20.51	20.44	18.18	18.01	17.95
20	QPSK	1	49	20.64	20.53	20.40	18.14	17.95	17.94
20	QPSK	1	99	20.67	20.65	20.61	18.11	17.96	17.93
20	QPSK	50	0	20.38	20.30	20.30	17.85	17.70	17.70
20	QPSK	50	24	20.46	20.36	20.33	17.91	17.75	17.75
20	QPSK	50	50	20.52	20.41	20.36	17.92	17.79	17.78
20	QPSK	100	0	20.43	20.33	20.32	17.85	17.78	17.72
20	16QAM	1	0	20.53	20.47	20.39	18.02	17.93	17.83
20	16QAM	1	49	20.58	20.45	20.41	18.11	17.89	17.81
20	16QAM	1	99	20.55	20.58	20.54	18.03	17.93	17.82
20	16QAM	50	0	20.38	20.28	20.30	17.92	17.72	17.69
20	16QAM	50	24	20.50	20.36	20.31	18.00	17.76	17.72
20	16QAM	50	50	20.59	20.39	20.39	17.86	17.81	17.78
20	16QAM	100	0	20.48	20.35	20.33	17.80	17.75	17.73
20	64QAM	1	0	20.28	20.26	20.14	17.71	17.67	17.59
20	64QAM	1	49	20.32	20.20	20.16	17.81	17.67	17.64
20	64QAM	1	99	20.51	20.33	20.30	17.75	17.66	17.60
20	64QAM	50	0	20.32	20.24	20.24	17.78	17.62	17.66
20	64QAM	50	24	20.39	20.31	20.25	17.85	17.68	17.69
20	64QAM	50	50	20.48	20.37	20.31	17.77	17.70	17.72
20	64QAM	100	0	20.38	20.30	20.24	17.73	17.70	17.67
Channel				20825	21100	21375	20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5	2507.5	2535	2562.5
15	QPSK	1	0	20.55	20.35	20.29	18.01	17.82	17.86
15	QPSK	1	37	20.61	20.38	20.37	18.09	17.82	17.92
15	QPSK	1	74	20.55	20.62	20.45	17.96	17.78	17.76
15	QPSK	36	0	20.29	20.21	20.10	17.82	17.60	17.58
15	QPSK	36	20	20.34	20.19	20.27	17.79	17.65	17.71
15	QPSK	36	39	20.32	20.24	20.18	17.73	17.77	17.78
15	QPSK	75	0	20.27	20.29	20.25	17.67	17.62	17.62
15	16QAM	1	0	20.46	20.36	20.37	17.93	17.74	17.69
15	16QAM	1	37	20.49	20.45	20.41	17.93	17.85	17.76
15	16QAM	1	74	20.37	20.39	20.49	18.03	17.87	17.69
15	16QAM	36	0	20.21	20.13	20.22	17.85	17.58	17.62
15	16QAM	36	20	20.35	20.29	20.21	17.99	17.56	17.53
15	16QAM	36	39	20.55	20.35	20.23	17.75	17.81	17.65
15	16QAM	75	0	20.33	20.32	20.21	17.64	17.59	17.72
15	64QAM	1	0	20.12	20.15	19.95	17.71	17.53	17.40
15	64QAM	1	37	20.15	20.19	20.16	17.67	17.67	17.47
15	64QAM	1	74	20.33	20.20	20.29	17.56	17.61	17.54
15	64QAM	36	0	20.15	20.13	20.10	17.66	17.61	17.65
15	64QAM	36	20	20.24	20.31	20.14	17.67	17.67	17.53
15	64QAM	36	39	20.42	20.33	20.12	17.72	17.51	17.56
15	64QAM	75	0	20.21	20.16	20.23	17.65	17.61	17.56
Channel				20800	21100	21400	20800	21100	21400
Frequency (MHz)				2505	2535	2565	2505	2535	2565
10	QPSK	1	0	20.61	20.36	20.40	18.02	17.83	17.89
10	QPSK	1	25	20.58	20.46	20.30	17.98	17.80	17.87

10	QPSK	1	49	20.53	20.46	20.58	17.93	17.93	17.79
10	QPSK	25	0	20.32	20.19	20.29	17.73	17.56	17.69
10	QPSK	25	12	20.35	20.26	20.16	17.91	17.68	17.67
10	QPSK	25	25	20.32	20.28	20.33	17.84	17.71	17.77
10	QPSK	50	0	20.40	20.22	20.31	17.80	17.65	17.54
10	16QAM	1	0	20.44	20.32	20.31	17.88	17.90	17.69
10	16QAM	1	25	20.42	20.31	20.21	17.96	17.77	17.66
10	16QAM	1	49	20.52	20.52	20.54	17.90	17.81	17.69
10	16QAM	25	0	20.35	20.26	20.27	17.72	17.66	17.68
10	16QAM	25	12	20.40	20.36	20.13	17.96	17.64	17.54
10	16QAM	25	25	20.51	20.32	20.33	17.75	17.73	17.68
10	16QAM	50	0	20.28	20.26	20.21	17.60	17.64	17.53
10	64QAM	1	0	20.22	20.15	19.95	17.71	17.54	17.57
10	64QAM	1	25	20.30	20.04	19.96	17.62	17.48	17.48
10	64QAM	1	49	20.49	20.31	20.19	17.69	17.52	17.59
10	64QAM	25	0	20.27	20.17	20.21	17.60	17.53	17.55
10	64QAM	25	12	20.22	20.26	20.17	17.78	17.59	17.53
10	64QAM	25	25	20.37	20.36	20.12	17.72	17.50	17.66
10	64QAM	50	0	20.27	20.18	20.22	17.72	17.69	17.64
Channel				20775	21100	21425	20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5	2502.5	2535	2567.5
5	QPSK	1	0	20.57	20.38	20.44	17.98	17.91	17.80
5	QPSK	1	12	20.57	20.35	20.30	17.96	17.85	17.91
5	QPSK	1	24	20.60	20.52	20.53	18.02	17.77	17.82
5	QPSK	12	0	20.20	20.30	20.19	17.68	17.69	17.66
5	QPSK	12	7	20.38	20.20	20.33	17.72	17.72	17.55
5	QPSK	12	13	20.36	20.32	20.35	17.80	17.78	17.63
5	QPSK	25	0	20.25	20.29	20.25	17.66	17.61	17.54
5	16QAM	1	0	20.52	20.38	20.23	17.97	17.78	17.65
5	16QAM	1	12	20.38	20.43	20.30	17.92	17.75	17.74
5	16QAM	1	24	20.43	20.57	20.43	17.86	17.73	17.69
5	16QAM	12	0	20.35	20.18	20.24	17.78	17.66	17.68
5	16QAM	12	7	20.30	20.30	20.22	17.91	17.64	17.53
5	16QAM	12	13	20.58	20.37	20.24	17.77	17.71	17.62
5	16QAM	25	0	20.47	20.26	20.28	17.73	17.57	17.72
5	64QAM	1	0	20.10	20.24	20.01	17.60	17.50	17.56
5	64QAM	1	12	20.17	20.14	19.96	17.71	17.51	17.45
5	64QAM	1	24	20.51	20.19	20.14	17.58	17.47	17.49
5	64QAM	12	0	20.14	20.12	20.18	17.71	17.46	17.64
5	64QAM	12	7	20.27	20.20	20.09	17.79	17.49	17.69
5	64QAM	12	13	20.31	20.27	20.20	17.58	17.53	17.57
5	64QAM	25	0	20.18	20.22	20.17	17.55	17.54	17.48

<LTE Band 12>

Power Selection				Head			Hotspot / Near body		
Transmit Antenna				Ant 0			Ant 0		
Max. Power				25.7			22.7		
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	24.73	24.70	24.71	21.89	21.87	21.90
10	QPSK	1	25	24.67	24.69	24.66	21.78	21.83	21.83
10	QPSK	1	49	24.70	24.67	24.49	21.68	21.71	21.83
10	QPSK	25	0	23.77	23.75	23.68	21.75	21.72	21.67
10	QPSK	25	12	23.65	23.74	23.69	21.60	21.70	21.70
10	QPSK	25	25	23.75	23.70	23.68	21.74	21.67	21.65
10	QPSK	50	0	23.78	23.70	23.71	21.73	21.70	21.67
10	16QAM	1	0	23.80	23.94	24.00	21.70	21.73	21.76
10	16QAM	1	25	23.99	24.01	23.96	21.78	21.84	21.78
10	16QAM	1	49	24.03	23.97	24.04	21.89	21.84	21.83
10	16QAM	25	0	22.73	22.83	22.79	21.64	21.68	21.68
10	16QAM	25	12	22.86	22.83	22.80	21.75	21.73	21.69
10	16QAM	25	25	22.84	22.79	22.76	21.73	21.66	21.67
10	16QAM	50	0	22.82	22.79	22.76	21.75	21.69	21.66
10	64QAM	1	0	22.76	22.81	22.89	21.42	21.46	21.53
10	64QAM	1	25	22.88	22.89	22.89	21.52	21.56	21.53
10	64QAM	1	49	22.95	22.92	22.93	21.62	21.57	21.61
10	64QAM	25	0	21.73	21.79	21.76	21.53	21.64	21.56
10	64QAM	25	12	21.86	21.83	21.80	21.70	21.65	21.61
10	64QAM	25	25	21.85	21.79	21.75	21.66	21.59	21.58
10	64QAM	50	0	21.86	21.79	21.78	21.63	21.61	21.57
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	24.40	24.43	24.62	21.80	21.72	21.75
5	QPSK	1	12	24.59	24.52	24.53	21.72	21.73	21.69
5	QPSK	1	24	24.50	24.59	24.62	21.51	21.53	21.63
5	QPSK	12	0	23.62	23.56	23.64	21.53	21.67	21.51
5	QPSK	12	7	23.71	23.62	23.50	21.55	21.65	21.62
5	QPSK	12	13	23.66	23.55	23.67	21.65	21.47	21.50
5	QPSK	25	0	23.74	23.50	23.66	21.64	21.59	21.53
5	16QAM	1	0	23.64	23.94	23.83	21.51	21.66	21.71
5	16QAM	1	12	23.82	23.94	23.91	21.65	21.69	21.59
5	16QAM	1	24	23.93	23.96	23.85	21.89	21.80	21.83
5	16QAM	12	0	22.61	22.80	22.61	21.45	21.65	21.54
5	16QAM	12	7	22.66	22.75	22.80	21.59	21.73	21.69
5	16QAM	12	13	22.73	22.60	22.57	21.72	21.58	21.65
5	16QAM	25	0	22.69	22.69	22.57	21.64	21.68	21.66
5	64QAM	1	0	22.69	22.81	22.76	21.27	21.42	21.41
5	64QAM	1	12	22.80	22.87	22.89	21.34	21.48	21.41
5	64QAM	1	24	22.89	22.78	22.89	21.50	21.50	21.56
5	64QAM	12	0	21.56	21.66	21.65	21.45	21.48	21.41
5	64QAM	12	7	21.70	21.83	21.72	21.67	21.51	21.41
5	64QAM	12	13	21.69	21.64	21.71	21.56	21.47	21.46
5	64QAM	25	0	21.72	21.66	21.75	21.48	21.44	21.55
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	24.36	24.50	24.48	21.77	21.80	21.76
3	QPSK	1	8	24.54	24.68	24.58	21.66	21.70	21.83

3	QPSK	1	14	24.66	24.62	24.67	21.58	21.63	21.78
3	QPSK	8	0	23.45	23.67	23.60	21.59	21.62	21.59
3	QPSK	8	4	23.73	23.69	23.58	21.64	21.53	21.54
3	QPSK	8	7	23.57	23.50	23.56	21.62	21.52	21.64
3	QPSK	15	0	23.63	23.60	23.59	21.54	21.61	21.64
3	16QAM	1	0	23.73	23.75	23.87	21.62	21.63	21.59
3	16QAM	1	8	23.82	23.88	23.92	21.73	21.71	21.58
3	16QAM	1	14	23.99	23.93	24.02	21.72	21.75	21.77
3	16QAM	8	0	22.56	22.82	22.66	21.47	21.59	21.67
3	16QAM	8	4	22.85	22.80	22.77	21.73	21.60	21.53
3	16QAM	8	7	22.79	22.74	22.64	21.55	21.61	21.52
3	16QAM	15	0	22.63	22.69	22.58	21.73	21.68	21.48
3	64QAM	1	0	22.61	22.68	22.81	21.27	21.39	21.34
3	64QAM	1	8	22.73	22.81	22.88	21.41	21.39	21.49
3	64QAM	1	14	22.91	22.83	22.93	21.51	21.37	21.46
3	64QAM	8	0	21.61	21.59	21.67	21.50	21.52	21.53
3	64QAM	8	4	21.83	21.70	21.66	21.61	21.47	21.54
3	64QAM	8	7	21.76	21.63	21.55	21.55	21.57	21.52
3	64QAM	15	0	21.86	21.72	21.66	21.60	21.59	21.48
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	24.66	24.50	24.52	21.74	21.86	21.75
1.4	QPSK	1	3	24.58	24.57	24.63	21.74	21.82	21.67
1.4	QPSK	1	5	24.55	24.56	24.46	21.65	21.64	21.80
1.4	QPSK	3	0	24.49	24.51	24.44	21.49	21.63	21.47
1.4	QPSK	3	1	24.49	24.60	24.48	21.58	21.70	21.56
1.4	QPSK	3	3	24.53	24.56	24.54	21.58	21.48	21.51
1.4	QPSK	6	0	23.62	23.57	23.66	21.57	21.52	21.52
1.4	16QAM	1	0	23.79	23.87	23.82	21.60	21.56	21.63
1.4	16QAM	1	3	23.87	24.01	23.96	21.58	21.75	21.76
1.4	16QAM	1	5	23.55	23.66	23.62	21.74	21.70	21.77
1.4	16QAM	3	0	23.75	23.68	23.54	21.62	21.65	21.68
1.4	16QAM	3	1	23.70	23.63	23.50	21.63	21.63	21.61
1.4	16QAM	3	3	23.80	23.84	23.78	21.58	21.66	21.67
1.4	16QAM	6	0	22.55	22.82	22.77	21.66	21.69	21.51
1.4	64QAM	1	0	22.73	22.64	22.60	21.42	21.37	21.40
1.4	64QAM	1	3	22.74	22.75	22.75	21.44	21.41	21.33
1.4	64QAM	1	5	22.79	22.74	22.73	21.43	21.39	21.48
1.4	64QAM	3	0	22.64	22.73	22.86	21.51	21.57	21.56
1.4	64QAM	3	1	22.80	22.78	22.75	21.68	21.60	21.60
1.4	64QAM	3	3	22.93	22.88	22.86	21.60	21.59	21.43
1.4	64QAM	6	0	21.82	21.59	21.63	21.56	21.59	21.53

<LTE Band 13>

Power Selection				Head			Hotspot / Near body		
Transmit Antenna				Ant 0			Ant 0		
Max. Power				25.3			22.3		
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		24.03			21.29	
10	QPSK	1	25		24.01			21.28	
10	QPSK	1	49		23.99			21.20	
10	QPSK	25	0		23.15			21.10	
10	QPSK	25	12		23.15			21.10	
10	QPSK	25	25		23.09			21.04	
10	QPSK	50	0		23.11			21.06	
10	16QAM	1	0		23.24			21.24	
10	16QAM	1	25		23.33			21.19	
10	16QAM	1	49		23.27			21.12	
10	16QAM	25	0		22.22			21.14	
10	16QAM	25	12		22.24			21.13	
10	16QAM	25	25		22.16			21.07	
10	16QAM	50	0		22.20			21.12	
10	64QAM	1	0		22.19			21.01	
10	64QAM	1	25		22.27			20.93	
10	64QAM	1	49		22.20			20.86	
10	64QAM	25	0		21.23			21.02	
10	64QAM	25	12		21.22			21.03	
10	64QAM	25	25		21.16			20.95	
10	64QAM	50	0		21.21			21.01	
Channel				23205	23230	23255	23205	23230	23255
Frequency (MHz)				779.5	782	784.5	779.5	782	784.5
5	QPSK	1	0	23.84	23.84	23.84	20.81	20.83	20.98
5	QPSK	1	12	23.87	23.87	23.87	20.77	20.86	20.78
5	QPSK	1	24	23.81	23.81	23.81	20.67	20.81	20.68
5	QPSK	12	0	23.12	23.12	23.12	21.00	21.00	20.92
5	QPSK	12	7	23.00	23.00	23.00	20.88	21.02	20.97
5	QPSK	12	13	22.93	22.93	22.93	20.79	20.86	20.95
5	QPSK	25	0	23.07	23.07	23.07	20.81	20.85	21.00
5	16QAM	1	0	23.14	23.14	23.14	21.00	21.13	21.07
5	16QAM	1	12	23.18	23.18	23.18	21.10	21.20	21.15
5	16QAM	1	24	23.17	23.17	23.17	21.02	21.12	21.11
5	16QAM	12	0	22.12	22.12	22.12	21.10	21.04	21.00
5	16QAM	12	7	22.19	22.19	22.19	20.94	20.99	20.95
5	16QAM	12	13	21.98	21.98	21.98	21.03	20.90	20.89
5	16QAM	25	0	22.15	22.15	22.15	20.97	21.03	20.89
5	64QAM	1	0	22.03	22.03	22.03	21.08	21.10	21.17
5	64QAM	1	12	22.18	22.18	22.18	21.13	21.04	21.09
5	64QAM	1	24	22.01	22.01	22.01	21.02	20.98	20.94
5	64QAM	12	0	21.18	21.18	21.18	20.95	21.12	21.07
5	64QAM	12	7	21.21	21.21	21.21	20.95	20.98	21.13
5	64QAM	12	13	21.07	21.07	21.07	20.91	21.06	21.01
5	64QAM	25	0	21.08	21.08	21.08	21.12	21.03	21.01

<LTE Band 14>

Power Selection				Head			Hotspot / Near body		
Transmit Antenna				Ant 0			Ant 0		
Max. Power				25.5			22.5		
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				23330			23330		
Frequency (MHz)				793			793		
10	QPSK	1	0		24.19			21.49	
10	QPSK	1	25		24.17			21.41	
10	QPSK	1	49		24.05			21.24	
10	QPSK	25	0		23.29			21.25	
10	QPSK	25	12		23.29			21.24	
10	QPSK	25	25		23.24			21.16	
10	QPSK	50	0		23.27			21.22	
10	16QAM	1	0		23.50			21.32	
10	16QAM	1	25		23.55			21.37	
10	16QAM	1	49		23.35			21.18	
10	16QAM	25	0		22.38			21.31	
10	16QAM	25	12		22.40			21.28	
10	16QAM	25	25		22.33			21.21	
10	16QAM	50	0		22.36			21.26	
10	64QAM	1	0		22.40			21.02	
10	64QAM	1	25		22.41			21.05	
10	64QAM	1	49		22.27			20.92	
10	64QAM	25	0		21.40			21.17	
10	64QAM	25	12		21.39			21.16	
10	64QAM	25	25		21.34			21.08	
10	64QAM	50	0		21.40			21.12	
Channel				23305	23330	23355	23305	23330	23355
Frequency (MHz)				790.5	793	795.5	790.5	793	795.5
5	QPSK	1	0	24.14	24.02	23.98	21.47	21.21	21.35
5	QPSK	1	12	24.12	24.00	24.15	21.34	21.07	21.24
5	QPSK	1	24	23.85	24.02	24.03	21.14	20.97	21.05
5	QPSK	12	0	23.27	23.13	23.25	21.14	21.05	21.18
5	QPSK	12	7	23.17	23.12	23.14	21.08	20.89	21.05
5	QPSK	12	13	23.16	23.23	23.21	21.15	20.82	20.99
5	QPSK	25	0	23.16	23.20	23.15	21.04	21.07	21.18
5	16QAM	1	0	23.40	23.38	23.34	21.32	21.07	21.23
5	16QAM	1	12	23.44	23.35	23.50	21.23	21.10	21.18
5	16QAM	1	24	23.22	23.22	23.35	21.06	20.93	21.06
5	16QAM	12	0	22.25	22.26	22.22	21.30	21.23	21.30
5	16QAM	12	7	22.37	22.25	22.39	21.21	21.17	21.19
5	16QAM	12	13	22.29	22.27	22.16	21.19	21.04	21.05
5	16QAM	25	0	22.17	22.34	22.19	21.14	20.97	21.15
5	64QAM	1	0	22.40	22.23	22.38	20.89	20.80	20.99
5	64QAM	1	12	22.28	22.34	22.27	20.85	20.96	21.01
5	64QAM	1	24	22.18	22.09	22.08	20.77	20.74	20.84
5	64QAM	12	0	21.26	21.23	21.35	21.14	20.81	20.99
5	64QAM	12	7	21.23	21.24	21.29	21.11	20.91	21.11
5	64QAM	12	13	21.20	21.33	21.34	21.06	20.98	21.06
5	64QAM	25	0	21.20	21.38	21.32	21.12	20.97	20.97

<LTE Band 17>

Power Selection				Head			Hotspot / Near body		
Transmit Antenna				Ant 0			Ant 0		
Max. Power				25.7			22.7		
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				23780	23790	23800	23780	23790	23800
Frequency (MHz)				709	710	711	709	710	711
10	QPSK	1	0	24.74	24.72	24.70	21.26	21.33	21.41
10	QPSK	1	25	24.69	24.60	24.60	21.31	21.42	21.15
10	QPSK	1	49	24.60	24.59	24.56	21.40	21.39	21.40
10	QPSK	25	0	23.72	23.75	23.75	21.40	21.14	21.08
10	QPSK	25	12	23.72	23.76	23.72	21.45	21.16	21.46
10	QPSK	25	25	23.73	23.61	23.62	21.14	21.27	21.35
10	QPSK	50	0	23.70	23.71	23.70	21.47	21.33	21.13
10	16QAM	1	0	24.05	24.01	23.99	21.70	21.64	21.78
10	16QAM	1	25	24.00	23.92	23.90	21.74	21.74	21.52
10	16QAM	1	49	23.96	23.85	23.85	21.66	21.39	21.71
10	16QAM	25	0	22.83	22.82	22.80	21.48	21.27	21.43
10	16QAM	25	12	22.85	22.81	22.84	21.24	21.54	21.25
10	16QAM	25	25	22.82	22.73	22.67	21.42	21.49	21.30
10	16QAM	50	0	22.84	22.79	22.81	21.42	21.42	21.37
10	64QAM	1	0	22.93	22.92	22.94	21.29	21.43	21.54
10	64QAM	1	25	22.95	22.84	22.85	21.44	21.67	21.38
10	64QAM	1	49	22.82	22.82	22.80	21.50	21.36	21.45
10	64QAM	25	0	21.80	21.84	21.84	21.33	21.23	21.35
10	64QAM	25	12	21.83	21.85	21.80	21.34	21.53	21.32
10	64QAM	25	25	21.82	21.72	21.69	21.35	21.25	21.23
10	64QAM	50	0	21.83	21.81	21.80	21.31	21.39	21.30
Channel				23755	23790	23825	23755	23790	23825
Frequency (MHz)				706.5	710	713.5	706.5	710	713.5
5	QPSK	1	0	24.66	24.69	24.62	21.09	21.20	21.40
5	QPSK	1	12	24.64	24.41	24.48	21.14	21.36	21.01
5	QPSK	1	24	24.45	24.39	24.37	21.21	21.35	21.29
5	QPSK	12	0	23.54	23.65	23.57	21.33	20.99	21.01
5	QPSK	12	7	23.52	23.71	23.58	21.38	21.13	21.35
5	QPSK	12	13	23.65	23.50	23.52	21.05	21.20	21.21
5	QPSK	25	0	23.63	23.63	23.56	21.42	21.22	20.99
5	16QAM	1	0	23.88	23.93	23.85	21.63	21.44	21.69
5	16QAM	1	12	23.80	23.83	23.85	21.63	21.60	21.34
5	16QAM	1	24	23.89	23.73	23.85	21.66	21.35	21.65
5	16QAM	12	0	22.70	22.73	22.76	21.31	21.11	21.37
5	16QAM	12	7	22.67	22.75	22.71	21.12	21.38	21.14
5	16QAM	12	13	22.77	22.56	22.57	21.34	21.35	21.12
5	16QAM	25	0	22.72	22.60	22.67	21.24	21.36	21.34
5	64QAM	1	0	22.80	22.73	22.89	21.16	21.24	21.38
5	64QAM	1	12	22.83	22.66	22.72	21.34	21.62	21.32
5	64QAM	1	24	22.66	22.62	22.78	21.39	21.20	21.38
5	64QAM	12	0	21.78	21.65	21.79	21.13	21.05	21.33
5	64QAM	12	7	21.70	21.75	21.68	21.25	21.53	21.19
5	64QAM	12	13	21.73	21.52	21.56	21.29	21.19	21.14
5	64QAM	25	0	21.65	21.71	21.74	21.12	21.23	21.11

<LTE Band 25>

Power Selection				Head		
Transmit Antenna				Ant 0		
Max. Power				25.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590
Frequency (MHz)				1860	1880	1905
20	QPSK	1	0	25.22	25.35	25.17
20	QPSK	1	49	25.18	25.30	25.14
20	QPSK	1	99	25.22	25.30	25.12
20	QPSK	50	0	24.35	24.41	24.32
20	QPSK	50	24	24.33	24.39	24.23
20	QPSK	50	50	24.30	24.33	24.19
20	QPSK	100	0	24.32	24.33	24.21
20	16QAM	1	0	24.49	24.63	24.46
20	16QAM	1	49	24.49	24.60	24.47
20	16QAM	1	99	24.57	24.61	24.42
20	16QAM	50	0	23.34	23.47	23.30
20	16QAM	50	24	23.45	23.45	23.31
20	16QAM	50	50	23.41	23.39	23.30
20	16QAM	100	0	23.39	23.42	23.27
20	64QAM	1	0	23.43	23.53	23.37
20	64QAM	1	49	23.43	23.54	23.33
20	64QAM	1	99	23.46	23.51	23.36
20	64QAM	50	0	22.34	22.45	22.29
20	64QAM	50	24	22.46	22.46	22.32
20	64QAM	50	50	22.39	22.41	22.29
20	64QAM	100	0	22.40	22.41	22.29
Channel				26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5
15	QPSK	1	0	25.22	25.21	25.06
15	QPSK	1	37	25.15	25.23	25.08
15	QPSK	1	74	25.17	25.21	24.95
15	QPSK	36	0	24.20	24.38	24.19
15	QPSK	36	20	24.28	24.31	24.20
15	QPSK	36	39	24.19	24.21	24.18
15	QPSK	75	0	24.30	24.23	24.10
15	16QAM	1	0	24.45	24.60	24.42
15	16QAM	1	37	24.49	24.43	24.41
15	16QAM	1	74	24.39	24.53	24.28
15	16QAM	36	0	23.24	23.43	23.13
15	16QAM	36	20	23.45	23.39	23.19
15	16QAM	36	39	23.30	23.19	23.30
15	16QAM	75	0	23.26	23.38	23.07
15	64QAM	1	0	23.26	23.47	23.26
15	64QAM	1	37	23.40	23.47	23.15
15	64QAM	1	74	23.29	23.45	23.23
15	64QAM	36	0	22.22	22.32	22.11
15	64QAM	36	20	22.42	22.30	22.21
15	64QAM	36	39	22.20	22.34	22.19
15	64QAM	75	0	22.28	22.27	22.27
Channel				26090	26340	26640
Frequency (MHz)				1855	1880	1910
10	QPSK	1	0	25.05	25.26	24.97
10	QPSK	1	25	25.14	25.20	25.02

10	QPSK	1	49	25.05	25.10	25.12
10	QPSK	25	0	24.25	24.33	24.31
10	QPSK	25	12	24.22	24.33	24.13
10	QPSK	25	25	24.20	24.23	24.16
10	QPSK	50	0	24.31	24.14	24.12
10	16QAM	1	0	24.34	24.55	24.26
10	16QAM	1	25	24.47	24.53	24.37
10	16QAM	1	49	24.37	24.53	24.27
10	16QAM	25	0	23.23	23.36	23.14
10	16QAM	25	12	23.39	23.40	23.23
10	16QAM	25	25	23.21	23.20	23.23
10	16QAM	50	0	23.22	23.24	23.19
10	64QAM	1	0	23.39	23.38	23.31
10	64QAM	1	25	23.40	23.50	23.27
10	64QAM	1	49	23.35	23.33	23.27
10	64QAM	25	0	22.14	22.28	22.12
10	64QAM	25	12	22.33	22.38	22.24
10	64QAM	25	25	22.19	22.21	22.23
10	64QAM	50	0	22.25	22.24	22.27
Channel				26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5
5	QPSK	1	0	25.22	25.30	25.05
5	QPSK	1	12	25.12	25.16	25.07
5	QPSK	1	24	25.09	25.13	25.00
5	QPSK	12	0	24.22	24.28	24.22
5	QPSK	12	7	24.32	24.35	24.23
5	QPSK	12	13	24.18	24.24	24.06
5	QPSK	25	0	24.14	24.25	24.18
5	16QAM	1	0	24.41	24.61	24.33
5	16QAM	1	12	24.34	24.60	24.37
5	16QAM	1	24	24.50	24.58	24.23
5	16QAM	12	0	23.21	23.46	23.16
5	16QAM	12	7	23.26	23.43	23.19
5	16QAM	12	13	23.30	23.23	23.13
5	16QAM	25	0	23.27	23.39	23.07
5	64QAM	1	0	23.39	23.53	23.29
5	64QAM	1	12	23.38	23.50	23.17
5	64QAM	1	24	23.31	23.32	23.19
5	64QAM	12	0	22.25	22.26	22.09
5	64QAM	12	7	22.35	22.26	22.13
5	64QAM	12	13	22.31	22.29	22.12
5	64QAM	25	0	22.27	22.33	22.23
Channel				26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5
3	QPSK	1	0	25.06	25.19	24.98
3	QPSK	1	8	25.17	25.15	25.05
3	QPSK	1	14	25.17	25.23	25.12
3	QPSK	8	0	24.30	24.34	24.20
3	QPSK	8	4	24.20	24.19	24.03
3	QPSK	8	7	24.20	24.19	24.09
3	QPSK	15	0	24.18	24.16	24.08
3	16QAM	1	0	24.39	24.44	24.34
3	16QAM	1	8	24.40	24.47	24.41
3	16QAM	1	14	24.42	24.54	24.35
3	16QAM	8	0	23.26	23.32	23.18
3	16QAM	8	4	23.34	23.41	23.23

3	16QAM	8	7	23.32	23.26	23.22
3	16QAM	15	0	23.22	23.28	23.20
3	64QAM	1	0	23.41	23.48	23.35
3	64QAM	1	8	23.40	23.43	23.32
3	64QAM	1	14	23.27	23.40	23.32
3	64QAM	8	0	22.20	22.45	22.25
3	64QAM	8	4	22.35	22.42	22.25
3	64QAM	8	7	22.32	22.28	22.23
3	64QAM	15	0	22.24	22.24	22.25
Channel				26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3
1.4	QPSK	1	0	25.14	25.27	25.12
1.4	QPSK	1	3	24.99	25.23	25.09
1.4	QPSK	1	5	25.20	25.26	24.98
1.4	QPSK	3	0	25.10	25.34	25.13
1.4	QPSK	3	1	25.08	25.21	25.12
1.4	QPSK	3	3	25.07	25.21	25.04
1.4	QPSK	6	0	24.31	24.33	24.14
1.4	16QAM	1	0	24.41	24.59	24.37
1.4	16QAM	1	3	24.38	24.60	24.36
1.4	16QAM	1	5	24.54	24.43	24.30
1.4	16QAM	3	0	24.39	24.58	24.37
1.4	16QAM	3	1	24.45	24.52	24.40
1.4	16QAM	3	3	24.49	24.50	24.22
1.4	16QAM	6	0	23.35	23.37	23.09
1.4	64QAM	1	0	23.41	23.33	23.21
1.4	64QAM	1	3	23.32	23.42	23.23
1.4	64QAM	1	5	23.26	23.33	23.29
1.4	64QAM	3	0	23.26	23.39	23.32
1.4	64QAM	3	1	23.38	23.43	23.27
1.4	64QAM	3	3	23.34	23.47	23.31
1.4	64QAM	6	0	22.27	22.32	22.20

Power Selection				Hotspot / Near body		
Transmit Antenna				Ant 1		
Max. Power				19.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590
Frequency (MHz)				1860	1880	1905
20	QPSK	1	0	19.07	19.15	18.93
20	QPSK	1	49	18.98	19.04	18.91
20	QPSK	1	99	19.05	19.14	18.88
20	QPSK	50	0	19.06	19.10	18.88
20	QPSK	50	24	18.98	19.09	18.92
20	QPSK	50	50	19.03	19.01	18.74
20	QPSK	100	0	18.88	19.11	18.83
20	16QAM	1	0	18.99	19.05	18.88
20	16QAM	1	49	18.97	19.10	18.88
20	16QAM	1	99	18.93	19.07	18.76
20	16QAM	50	0	19.00	18.98	18.74
20	16QAM	50	24	18.87	19.09	18.87
20	16QAM	50	50	19.00	19.02	18.83
20	16QAM	100	0	18.98	19.01	18.77
20	64QAM	1	0	18.85	19.07	18.81
20	64QAM	1	49	18.95	18.95	18.69
20	64QAM	1	99	18.94	18.95	18.88
20	64QAM	50	0	19.00	18.99	18.77
20	64QAM	50	24	19.04	18.97	18.71
20	64QAM	50	50	19.01	19.14	18.83
20	64QAM	100	0	18.92	19.03	18.76
Channel				26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5
15	QPSK	1	0	18.90	18.97	18.80
15	QPSK	1	37	18.98	18.94	18.89
15	QPSK	1	74	18.93	19.13	18.75
15	QPSK	36	0	19.04	18.95	18.75
15	QPSK	36	20	18.89	18.97	18.75
15	QPSK	36	39	18.89	18.94	18.65
15	QPSK	75	0	18.87	19.09	18.77
15	16QAM	1	0	18.84	19.02	18.81
15	16QAM	1	37	18.91	19.00	18.88
15	16QAM	1	74	18.78	18.95	18.69
15	16QAM	36	0	18.81	18.90	18.72
15	16QAM	36	20	18.87	18.95	18.76
15	16QAM	36	39	18.97	19.00	18.69
15	16QAM	75	0	18.88	18.86	18.59
15	64QAM	1	0	18.70	18.96	18.63
15	64QAM	1	37	18.84	18.94	18.56
15	64QAM	1	74	18.84	18.80	18.68
15	64QAM	36	0	18.80	18.97	18.66
15	64QAM	36	20	19.00	18.97	18.51
15	64QAM	36	39	18.81	19.10	18.66
15	64QAM	75	0	18.85	18.84	18.67
Channel				26090	26340	26640
Frequency (MHz)				1855	1880	1910
10	QPSK	1	0	18.87	19.00	18.85
10	QPSK	1	25	18.87	18.90	18.86

10	QPSK	1	49	18.90	19.01	18.83
10	QPSK	25	0	18.88	18.94	18.78
10	QPSK	25	12	18.81	19.06	18.92
10	QPSK	25	25	18.86	18.95	18.58
10	QPSK	50	0	18.76	18.99	18.63
10	16QAM	1	0	18.92	19.05	18.70
10	16QAM	1	25	18.85	18.91	18.73
10	16QAM	1	49	18.81	19.07	18.76
10	16QAM	25	0	18.86	18.97	18.55
10	16QAM	25	12	18.80	18.95	18.73
10	16QAM	25	25	18.83	18.96	18.82
10	16QAM	50	0	18.91	18.92	18.77
10	64QAM	1	0	18.83	18.89	18.77
10	64QAM	1	25	18.92	18.79	18.51
10	64QAM	1	49	18.83	18.90	18.75
10	64QAM	25	0	18.87	18.95	18.63
10	64QAM	25	12	18.91	18.89	18.59
10	64QAM	25	25	18.83	18.97	18.65
10	64QAM	50	0	18.90	18.94	18.76
Channel				26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5
5	QPSK	1	0	19.02	19.03	18.81
5	QPSK	1	12	18.98	19.01	18.75
5	QPSK	1	24	19.05	19.05	18.79
5	QPSK	12	0	18.99	19.08	18.77
5	QPSK	12	7	18.87	18.96	18.90
5	QPSK	12	13	18.78	19.03	18.65
5	QPSK	25	0	18.73	19.04	18.66
5	16QAM	1	0	18.98	18.94	18.74
5	16QAM	1	12	18.94	19.05	18.73
5	16QAM	1	24	18.74	18.92	18.65
5	16QAM	12	0	18.94	18.86	18.62
5	16QAM	12	7	18.75	19.08	18.67
5	16QAM	12	13	18.87	19.00	18.71
5	16QAM	25	0	18.96	18.95	18.74
5	64QAM	1	0	18.81	19.01	18.71
5	64QAM	1	12	18.83	18.95	18.49
5	64QAM	1	24	18.79	18.80	18.69
5	64QAM	12	0	18.82	18.98	18.75
5	64QAM	12	7	18.85	18.85	18.61
5	64QAM	12	13	18.99	19.07	18.82
5	64QAM	25	0	18.92	18.96	18.61
Channel				26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5
3	QPSK	1	0	19.01	19.00	18.82
3	QPSK	1	8	18.80	18.92	18.87
3	QPSK	1	14	19.02	19.11	18.85
3	QPSK	8	0	19.01	19.03	18.88
3	QPSK	8	4	18.97	19.06	18.86
3	QPSK	8	7	18.82	18.85	18.73
3	QPSK	15	0	18.76	18.96	18.81
3	16QAM	1	0	18.83	18.87	18.81
3	16QAM	1	8	18.94	18.95	18.68
3	16QAM	1	14	18.85	19.05	18.60
3	16QAM	8	0	18.96	18.79	18.67
3	16QAM	8	4	18.67	18.93	18.83

3	16QAM	8	7	18.89	18.98	18.71
3	16QAM	15	0	18.78	18.92	18.57
3	64QAM	1	0	18.81	18.98	18.75
3	64QAM	1	8	18.87	18.92	18.66
3	64QAM	1	14	18.86	18.88	18.87
3	64QAM	8	0	18.94	18.96	18.68
3	64QAM	8	4	19.01	18.79	18.55
3	64QAM	8	7	18.93	19.14	18.73
3	64QAM	15	0	18.72	18.96	18.62
Channel				26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3
1.4	QPSK	1	0	18.92	19.02	18.87
1.4	QPSK	1	3	18.86	19.04	18.89
1.4	QPSK	1	5	19.04	18.99	18.72
1.4	QPSK	3	0	18.88	18.91	18.73
1.4	QPSK	3	1	18.81	18.97	18.86
1.4	QPSK	3	3	18.92	18.93	18.52
1.4	QPSK	6	0	18.69	18.91	18.79
1.4	16QAM	1	0	18.97	19.04	18.87
1.4	16QAM	1	3	18.78	18.94	18.77
1.4	16QAM	1	5	18.77	18.95	18.66
1.4	16QAM	3	0	19.00	18.97	18.67
1.4	16QAM	3	1	18.81	18.97	18.69
1.4	16QAM	3	3	18.85	18.90	18.79
1.4	16QAM	6	0	18.80	18.82	18.57
1.4	64QAM	1	0	18.71	18.97	18.70
1.4	64QAM	1	3	18.89	18.89	18.68
1.4	64QAM	1	5	18.94	18.93	18.78
1.4	64QAM	3	0	18.97	18.83	18.60
1.4	64QAM	3	1	19.03	18.82	18.60
1.4	64QAM	3	3	18.95	19.05	18.79
1.4	64QAM	6	0	18.80	18.95	18.61

<LTE Band 26>

Power Selection				Head		
Transmit Antenna				Ant 0		
Max. Power				25.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26765	26865	26965
Frequency (MHz)				821.5	831.5	841.5
15	QPSK	1	0	24.52	24.60	24.50
15	QPSK	1	37	24.49	24.47	24.42
15	QPSK	1	74	24.45	24.42	24.45
15	QPSK	36	0	23.60	23.62	23.48
15	QPSK	36	20	23.55	23.57	23.45
15	QPSK	36	39	23.57	23.60	23.42
15	QPSK	75	0	23.51	23.55	23.40
15	16QAM	1	0	23.47	23.44	23.35
15	16QAM	1	37	23.49	23.42	23.39
15	16QAM	1	74	23.41	23.41	23.35
15	16QAM	36	0	22.66	22.69	22.57
15	16QAM	36	20	22.65	22.67	22.55
15	16QAM	36	39	22.64	22.65	22.51
15	16QAM	75	0	22.60	22.66	22.47
15	64QAM	1	0	22.52	22.59	22.61
15	64QAM	1	37	22.61	22.57	22.59
15	64QAM	1	74	22.65	22.51	22.53
15	64QAM	36	0	21.72	21.76	21.70
15	64QAM	36	20	21.63	21.69	21.60
15	64QAM	36	39	21.67	21.73	21.62
15	64QAM	75	0	21.65	21.75	21.57
Channel				26740	26865	26990
Frequency (MHz)				819	831.5	844
10	QPSK	1	0	24.59	24.49	24.41
10	QPSK	1	25	24.56	24.55	24.15
10	QPSK	1	49	24.53	24.43	24.16
10	QPSK	25	0	23.70	23.57	23.47
10	QPSK	25	12	23.28	23.60	23.37
10	QPSK	25	25	23.33	23.34	23.51
10	QPSK	50	0	23.51	23.62	23.32
10	16QAM	1	0	23.24	23.45	23.41
10	16QAM	1	25	23.26	23.37	23.35
10	16QAM	1	49	23.42	23.14	23.05
10	16QAM	25	0	22.55	22.72	22.37
10	16QAM	25	12	22.57	22.63	22.52
10	16QAM	25	25	22.63	22.73	22.30
10	16QAM	50	0	22.44	22.52	22.42
10	64QAM	1	0	22.58	22.37	22.71
10	64QAM	1	25	22.60	22.64	22.34
10	64QAM	1	49	22.60	22.58	22.40
10	64QAM	25	0	21.75	21.59	21.64
10	64QAM	25	12	21.54	21.66	21.43
10	64QAM	25	25	21.37	21.72	21.34
10	64QAM	50	0	21.35	21.71	21.64
Channel				26715	26865	27015
Frequency (MHz)				816.5	831.5	846.5
5	QPSK	1	0	24.31	24.59	24.27
5	QPSK	1	12	24.56	24.34	24.51

5	QPSK	1	24	24.40	24.15	24.32
5	QPSK	12	0	23.60	23.36	23.46
5	QPSK	12	7	23.50	23.52	23.23
5	QPSK	12	13	23.43	23.48	23.15
5	QPSK	25	0	23.38	23.29	23.45
5	16QAM	1	0	23.23	23.34	23.39
5	16QAM	1	12	23.34	23.32	23.11
5	16QAM	1	24	23.27	23.24	23.31
5	16QAM	12	0	22.42	22.72	22.39
5	16QAM	12	7	22.35	22.59	22.56
5	16QAM	12	13	22.70	22.72	22.29
5	16QAM	25	0	22.57	22.42	22.48
5	64QAM	1	0	22.27	22.52	22.62
5	64QAM	1	12	22.36	22.29	22.53
5	64QAM	1	24	22.73	22.46	22.36
5	64QAM	12	0	21.51	21.53	21.69
5	64QAM	12	7	21.53	21.57	21.42
5	64QAM	12	13	21.52	21.78	21.43
5	64QAM	25	0	21.75	21.79	21.67
Channel				26705	26865	27025
Frequency (MHz)				815.5	831.5	847.5
3	QPSK	1	0	24.50	24.34	24.38
3	QPSK	1	8	24.44	24.27	24.27
3	QPSK	1	14	24.54	24.12	24.33
3	QPSK	8	0	23.51	23.59	23.54
3	QPSK	8	4	23.55	23.62	23.39
3	QPSK	8	7	23.46	23.40	23.42
3	QPSK	15	0	23.32	23.25	23.42
3	16QAM	1	0	23.42	23.25	23.09
3	16QAM	1	8	23.33	23.38	23.25
3	16QAM	1	14	23.51	23.43	23.22
3	16QAM	8	0	22.76	22.61	22.37
3	16QAM	8	4	22.41	22.74	22.29
3	16QAM	8	7	22.42	22.60	22.25
3	16QAM	15	0	22.30	22.62	22.30
3	64QAM	1	0	22.50	22.42	22.41
3	64QAM	1	8	22.38	22.39	22.41
3	64QAM	1	14	22.43	22.32	22.33
3	64QAM	8	0	21.73	21.59	21.41
3	64QAM	8	4	21.73	21.63	21.42
3	64QAM	8	7	21.48	21.53	21.60
3	64QAM	15	0	21.47	21.46	21.32
Channel				26697	26865	27033
Frequency (MHz)				814.7	831.5	848.3
1.4	QPSK	1	0	24.56	24.36	24.42
1.4	QPSK	1	3	24.42	24.60	24.55
1.4	QPSK	1	5	24.52	24.54	24.39
1.4	QPSK	3	0	24.41	24.28	24.41
1.4	QPSK	3	1	24.29	24.42	24.48
1.4	QPSK	3	3	24.54	24.55	24.57
1.4	QPSK	6	0	23.74	23.60	23.76
1.4	16QAM	1	0	23.77	23.63	23.99
1.4	16QAM	1	3	23.93	24.02	23.75
1.4	16QAM	1	5	23.31	23.62	23.68
1.4	16QAM	3	0	23.53	23.75	23.31
1.4	16QAM	3	1	23.51	23.44	23.33

1.4	16QAM	3	3	23.75	23.72	23.64
1.4	16QAM	6	0	22.41	22.64	22.49
1.4	64QAM	1	0	22.61	22.54	22.52
1.4	64QAM	1	3	22.84	22.63	22.77
1.4	64QAM	1	5	22.80	22.64	22.80
1.4	64QAM	3	0	22.53	22.75	22.81
1.4	64QAM	3	1	22.77	22.62	22.59
1.4	64QAM	3	3	22.83	22.97	22.62
1.4	64QAM	6	0	21.48	21.69	21.55

Power Selection				Hotspot / Near body		
Transmit Antenna				Ant 0		
Max. Power				22.7		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26765	26865	26965
Frequency (MHz)				821.5	831.5	841.5
15	QPSK	1	0	21.22	21.19	21.33
15	QPSK	1	37	21.64	21.59	21.56
15	QPSK	1	74	21.57	21.56	21.51
15	QPSK	36	0	21.42	21.43	21.40
15	QPSK	36	20	21.43	21.43	21.44
15	QPSK	36	39	21.40	21.41	21.35
15	QPSK	75	0	21.43	21.42	21.40
15	16QAM	1	0	21.42	21.43	21.47
15	16QAM	1	37	21.52	21.53	21.49
15	16QAM	1	74	21.46	21.50	21.42
15	16QAM	36	0	21.44	21.43	21.41
15	16QAM	36	20	21.49	21.44	21.45
15	16QAM	36	39	21.44	21.40	21.37
15	16QAM	75	0	21.46	21.46	21.40
15	64QAM	1	0	21.23	21.19	21.25
15	64QAM	1	37	21.31	21.26	21.23
15	64QAM	1	74	21.26	21.26	21.20
15	64QAM	36	0	21.34	21.33	21.27
15	64QAM	36	20	21.34	21.32	21.31
15	64QAM	36	39	21.28	21.28	21.26
15	64QAM	75	0	21.34	21.34	21.28
Channel				26740	26865	26990
Frequency (MHz)				819	831.5	844
10	QPSK	1	0	21.38	21.48	21.48
10	QPSK	1	25	21.50	21.57	21.46
10	QPSK	1	49	21.54	21.41	21.34
10	QPSK	25	0	21.38	21.25	21.26
10	QPSK	25	12	21.40	21.39	21.43
10	QPSK	25	25	21.25	21.40	21.31
10	QPSK	50	0	21.39	21.27	21.34
10	16QAM	1	0	21.35	21.27	21.38
10	16QAM	1	25	21.46	21.47	21.39
10	16QAM	1	49	21.29	21.46	21.40
10	16QAM	25	0	21.34	21.40	21.29
10	16QAM	25	12	21.33	21.44	21.34
10	16QAM	25	25	21.40	21.20	21.22
10	16QAM	50	0	21.41	21.29	21.36
10	64QAM	1	0	21.05	21.07	21.19
10	64QAM	1	25	21.19	21.06	21.09
10	64QAM	1	49	21.15	21.12	21.00
10	64QAM	25	0	21.24	21.16	21.07
10	64QAM	25	12	21.21	21.22	21.11
10	64QAM	25	25	21.09	21.21	21.15
10	64QAM	50	0	21.23	21.20	21.08
Channel				26715	26865	27015
Frequency (MHz)				816.5	831.5	846.5
5	QPSK	1	0	21.47	21.60	21.55
5	QPSK	1	12	21.55	21.57	21.55

5	QPSK	1	24	21.41	21.53	21.47
5	QPSK	12	0	21.42	21.43	21.38
5	QPSK	12	7	21.32	21.27	21.42
5	QPSK	12	13	21.22	21.37	21.27
5	QPSK	25	0	21.27	21.31	21.31
5	16QAM	1	0	21.31	21.28	21.44
5	16QAM	1	12	21.33	21.44	21.36
5	16QAM	1	24	21.27	21.31	21.37
5	16QAM	12	0	21.38	21.25	21.39
5	16QAM	12	7	21.48	21.30	21.40
5	16QAM	12	13	21.28	21.25	21.22
5	16QAM	25	0	21.33	21.28	21.25
5	64QAM	1	0	21.04	21.18	21.21
5	64QAM	1	12	21.20	21.18	21.06
5	64QAM	1	24	21.26	21.13	21.02
5	64QAM	12	0	21.33	21.14	21.16
5	64QAM	12	7	21.28	21.22	21.26
5	64QAM	12	13	21.11	21.09	21.12
5	64QAM	25	0	21.21	21.33	21.19
Channel				26705	26865	27025
Frequency (MHz)				815.5	831.5	847.5
3	QPSK	1	0	21.37	21.60	21.57
3	QPSK	1	8	21.59	21.40	21.45
3	QPSK	1	14	21.47	21.51	21.31
3	QPSK	8	0	21.25	21.31	21.21
3	QPSK	8	4	21.24	21.31	21.36
3	QPSK	8	7	21.28	21.32	21.24
3	QPSK	15	0	21.42	21.41	21.39
3	16QAM	1	0	21.24	21.23	21.35
3	16QAM	1	8	21.48	21.39	21.46
3	16QAM	1	14	21.44	21.40	21.27
3	16QAM	8	0	21.34	21.40	21.36
3	16QAM	8	4	21.42	21.25	21.27
3	16QAM	8	7	21.37	21.22	21.19
3	16QAM	15	0	21.30	21.26	21.33
3	64QAM	1	0	21.23	21.02	21.09
3	64QAM	1	8	21.18	21.26	21.18
3	64QAM	1	14	21.19	21.19	21.00
3	64QAM	8	0	21.15	21.14	21.26
3	64QAM	8	4	21.17	21.22	21.17
3	64QAM	8	7	21.23	21.22	21.07
3	64QAM	15	0	21.20	21.23	21.10
Channel				26697	26865	27033
Frequency (MHz)				814.7	831.5	848.3
1.4	QPSK	1	0	21.37	21.61	21.54
1.4	QPSK	1	3	21.44	21.43	21.37
1.4	QPSK	1	5	21.40	21.38	21.33
1.4	QPSK	3	0	21.33	21.41	21.35
1.4	QPSK	3	1	21.31	21.31	21.26
1.4	QPSK	3	3	21.26	21.39	21.23
1.4	QPSK	6	0	21.38	21.39	21.20
1.4	16QAM	1	0	21.36	21.29	21.41
1.4	16QAM	1	3	21.37	21.33	21.47
1.4	16QAM	1	5	21.41	21.47	21.31
1.4	16QAM	3	0	21.31	21.35	21.22
1.4	16QAM	3	1	21.36	21.29	21.30

1.4	16QAM	3	3	21.30	21.28	21.28
1.4	16QAM	6	0	21.37	21.31	21.36
1.4	64QAM	1	0	21.23	21.10	21.22
1.4	64QAM	1	3	21.22	21.21	21.13
1.4	64QAM	1	5	21.26	21.14	21.18
1.4	64QAM	3	0	21.32	21.25	21.19
1.4	64QAM	3	1	21.24	21.32	21.25
1.4	64QAM	3	3	21.09	21.27	21.08
1.4	64QAM	6	0	21.19	21.33	21.28

<LTE Band 30>

Power Selection				Head			Hotspot / Near body		
Transmit Antenna				Ant 2			Ant 2		
Max. Power				22.2			20.7		
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		21.16			19.59	
10	QPSK	1	25		21.48			19.52	
10	QPSK	1	49		21.54			19.53	
10	QPSK	25	0		21.29			19.43	
10	QPSK	25	12		21.34			19.51	
10	QPSK	25	25		21.31			19.53	
10	QPSK	50	0		21.30			19.47	
10	16QAM	1	0		21.41			19.45	
10	16QAM	1	25		21.41			19.41	
10	16QAM	1	49		21.46			19.52	
10	16QAM	25	0		21.34			19.36	
10	16QAM	25	12		21.36			19.47	
10	16QAM	25	25		21.36			19.43	
10	16QAM	50	0		21.33			19.42	
10	64QAM	1	0		21.16			19.35	
10	64QAM	1	25		21.17			19.33	
10	64QAM	1	49		21.21			19.52	
10	64QAM	25	0		21.19			19.51	
10	64QAM	25	12		21.23			19.56	
10	64QAM	25	25		21.23			19.44	
10	64QAM	50	0		21.20			19.41	
Channel				27685	27710	27735	27685	27710	27735
Frequency (MHz)				2307.5	2310	2312.5	2307.5	2310	2312.5
5	QPSK	1	0	21.03	21.12	21.12	19.83	19.79	19.85
5	QPSK	1	12	21.09	21.11	21.04	19.88	19.84	19.76
5	QPSK	1	24	21.16	21.19	21.12	19.88	19.82	19.53
5	QPSK	12	0	21.02	20.99	21.09	19.57	19.71	19.60
5	QPSK	12	7	21.20	21.10	21.04	19.58	19.76	19.66
5	QPSK	12	13	21.16	21.19	21.06	19.76	19.72	19.67
5	QPSK	25	0	21.19	21.11	21.02	19.59	19.65	19.70
5	16QAM	1	0	21.37	21.34	21.29	19.74	19.75	19.73
5	16QAM	1	12	21.37	21.33	21.35	19.83	19.86	19.70
5	16QAM	1	24	21.30	21.37	21.21	19.40	19.72	19.85
5	16QAM	12	0	21.09	21.22	21.26	19.69	19.77	19.69
5	16QAM	12	7	21.30	21.34	21.16	19.75	19.74	19.79
5	16QAM	12	13	21.21	21.25	21.27	19.59	19.61	19.65
5	16QAM	25	0	21.28	21.22	21.19	19.76	19.72	19.66
5	64QAM	1	0	21.30	21.30	21.37	19.53	19.39	19.43
5	64QAM	1	12	21.36	21.23	21.25	19.57	19.48	19.58
5	64QAM	1	24	21.33	21.20	21.26	19.66	19.69	19.51
5	64QAM	12	0	21.19	21.20	21.16	19.63	19.54	19.59
5	64QAM	12	7	21.36	21.23	21.22	19.69	19.59	19.61
5	64QAM	12	13	21.32	21.18	21.35	19.50	19.56	19.51
5	64QAM	25	0	21.27	21.15	21.19	19.62	19.63	19.69

<LTE Band 66>

Power Selection				Head			Hotspot / Near body		
Transmit Antenna				Ant 0			Ant 0		
Max. Power				24.5			18.7		
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	24.36	24.46	24.22	18.65	18.66	18.55
20	QPSK	1	49	24.15	24.15	24.18	18.34	18.36	18.37
20	QPSK	1	99	24.04	23.99	24.05	18.20	18.18	18.22
20	QPSK	50	0	23.05	23.22	23.14	18.27	18.27	18.29
20	QPSK	50	24	23.07	23.04	23.06	18.25	18.22	18.25
20	QPSK	50	50	23.00	23.01	23.06	18.21	18.22	18.25
20	QPSK	100	0	23.04	23.05	23.09	18.24	18.22	18.27
20	16QAM	1	0	23.43	23.46	23.35	18.62	18.55	18.22
20	16QAM	1	49	23.45	23.42	23.47	18.62	18.57	18.61
20	16QAM	1	99	23.36	23.28	23.35	18.51	18.51	18.58
20	16QAM	50	0	22.17	22.18	22.19	18.31	18.34	18.43
20	16QAM	50	24	22.11	22.13	22.17	18.26	18.32	18.35
20	16QAM	50	50	22.10	22.09	22.15	18.24	18.27	18.34
20	16QAM	100	0	22.13	22.10	22.15	18.28	18.30	18.38
20	64QAM	1	0	22.37	22.33	22.42	18.52	18.54	18.60
20	64QAM	1	49	22.41	22.43	22.45	18.60	18.60	18.58
20	64QAM	1	99	22.30	22.28	22.27	18.39	18.43	18.40
20	64QAM	50	0	21.20	21.20	21.21	18.34	18.38	18.37
20	64QAM	50	24	21.11	21.14	21.18	18.31	18.30	18.36
20	64QAM	50	50	21.12	21.10	21.15	18.31	18.27	18.31
20	64QAM	100	0	21.14	21.14	21.19	18.29	18.30	18.35
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	24.29	24.39	24.14	18.45	18.47	18.36
15	QPSK	1	37	24.00	24.03	24.15	18.27	18.21	18.21
15	QPSK	1	74	23.93	23.81	23.88	18.19	18.06	18.12
15	QPSK	36	0	23.01	23.18	23.02	18.10	18.25	18.16
15	QPSK	36	20	22.91	22.93	22.89	18.13	18.21	18.05
15	QPSK	36	39	22.90	23.01	22.99	18.08	18.21	18.06
15	QPSK	75	0	22.84	22.90	22.89	18.06	18.12	18.19
15	16QAM	1	0	23.30	23.39	23.15	18.52	18.35	18.04
15	16QAM	1	37	23.45	23.25	23.47	18.47	18.55	18.54
15	16QAM	1	74	23.24	23.27	23.27	18.37	18.39	18.48
15	16QAM	36	0	22.12	22.10	22.19	18.22	18.29	18.33
15	16QAM	36	20	21.98	21.95	21.98	18.20	18.26	18.23
15	16QAM	36	39	22.01	22.03	21.99	18.14	18.26	18.23
15	16QAM	75	0	22.00	21.97	21.99	18.28	18.15	18.34
15	64QAM	1	0	22.35	22.29	22.29	18.50	18.50	18.44
15	64QAM	1	37	22.26	22.24	22.32	18.59	18.43	18.57
15	64QAM	1	74	22.12	22.16	22.09	18.28	18.25	18.28
15	64QAM	36	0	21.19	21.18	21.09	18.23	18.30	18.18
15	64QAM	36	20	20.96	21.09	21.17	18.21	18.30	18.22
15	64QAM	36	39	21.02	21.01	21.06	18.20	18.15	18.21
15	64QAM	75	0	21.12	21.02	21.04	18.13	18.14	18.30
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	24.30	24.26	24.04	18.62	18.62	18.47
10	QPSK	1	25	24.00	24.10	24.01	18.28	18.25	18.27

10	QPSK	1	49	23.90	23.83	23.92	18.02	18.12	18.20
10	QPSK	25	0	23.00	23.12	23.09	18.13	18.09	18.23
10	QPSK	25	12	22.90	22.97	22.94	18.25	18.06	18.15
10	QPSK	25	25	22.82	22.92	22.91	18.14	18.10	18.21
10	QPSK	50	0	23.03	23.00	22.97	18.14	18.03	18.24
10	16QAM	1	0	23.37	23.32	23.21	18.53	18.49	18.08
10	16QAM	1	25	23.36	23.39	23.42	18.54	18.45	18.46
10	16QAM	1	49	23.16	23.22	23.25	18.33	18.34	18.41
10	16QAM	25	0	22.07	21.98	22.08	18.15	18.33	18.29
10	16QAM	25	12	22.11	22.00	22.05	18.06	18.14	18.22
10	16QAM	25	25	22.03	21.99	22.07	18.18	18.09	18.34
10	16QAM	50	0	21.97	21.98	21.96	18.11	18.24	18.20
10	64QAM	1	0	22.28	22.16	22.39	18.42	18.38	18.50
10	64QAM	1	25	22.22	22.35	22.39	18.53	18.53	18.39
10	64QAM	1	49	22.20	22.28	22.16	18.36	18.41	18.28
10	64QAM	25	0	21.18	21.20	21.14	18.19	18.36	18.37
10	64QAM	25	12	21.03	21.09	21.12	18.30	18.15	18.19
10	64QAM	25	25	20.95	21.09	21.12	18.28	18.08	18.25
10	64QAM	50	0	20.96	21.04	21.08	18.26	18.26	18.21
Channel				131997	132322	132647	24.30	24.26	24.04
Frequency (MHz)				1712.5	1745	1777.5	24.00	24.10	24.01
5	QPSK	1	0	24.18	24.39	24.10	18.51	18.52	18.46
5	QPSK	1	12	24.02	23.95	23.98	18.18	18.34	18.36
5	QPSK	1	24	23.89	23.90	23.92	18.08	18.01	18.10
5	QPSK	12	0	22.95	23.13	23.09	18.08	18.12	18.15
5	QPSK	12	7	22.95	22.95	22.87	18.09	18.03	18.24
5	QPSK	12	13	22.83	22.81	22.89	18.13	18.06	18.09
5	QPSK	25	0	22.99	22.96	23.04	18.05	18.08	18.19
5	16QAM	1	0	23.36	23.43	23.24	18.44	18.36	18.06
5	16QAM	1	12	23.35	23.34	23.37	18.49	18.51	18.53
5	16QAM	1	24	23.35	23.08	23.32	18.36	18.36	18.53
5	16QAM	12	0	22.01	22.09	22.05	18.30	18.19	18.38
5	16QAM	12	7	22.03	22.07	22.07	18.24	18.25	18.31
5	16QAM	12	13	21.95	22.09	22.10	18.04	18.07	18.24
5	16QAM	25	0	22.02	22.03	22.05	18.18	18.23	18.18
5	64QAM	1	0	22.24	22.16	22.32	18.36	18.35	18.56
5	64QAM	1	12	22.26	22.34	22.41	18.55	18.52	18.42
5	64QAM	1	24	22.15	22.26	22.08	18.20	18.32	18.24
5	64QAM	12	0	21.04	21.08	21.08	18.23	18.24	18.32
5	64QAM	12	7	20.99	21.00	21.08	18.27	18.20	18.35
5	64QAM	12	13	21.05	21.04	21.14	18.30	18.20	18.31
5	64QAM	25	0	20.98	21.00	21.19	18.12	18.10	18.23
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	24.33	24.32	24.02	18.46	18.64	18.46
3	QPSK	1	8	24.01	24.09	24.15	18.30	18.30	18.28
3	QPSK	1	14	23.99	23.79	23.88	18.15	18.18	18.05
3	QPSK	8	0	23.03	23.12	23.05	18.17	18.07	18.10
3	QPSK	8	4	22.93	22.99	22.89	18.16	18.09	18.23
3	QPSK	8	7	22.95	22.92	23.00	18.18	18.04	18.17
3	QPSK	15	0	22.93	22.94	23.00	18.21	18.16	18.12
3	16QAM	1	0	23.27	23.46	23.34	18.58	18.41	18.13
3	16QAM	1	8	23.27	23.32	23.37	18.49	18.38	18.53
3	16QAM	1	14	23.22	23.12	23.34	18.43	18.51	18.45
3	16QAM	8	0	22.12	22.10	22.18	18.19	18.20	18.29
3	16QAM	8	4	22.08	22.09	21.99	18.06	18.19	18.31

3	16QAM	8	7	22.05	22.00	22.09	18.04	18.12	18.15
3	16QAM	15	0	21.93	21.92	22.11	18.09	18.27	18.27
3	64QAM	1	0	22.27	22.32	22.31	18.35	18.50	18.45
3	64QAM	1	8	22.38	22.38	22.32	18.40	18.47	18.45
3	64QAM	1	14	22.23	22.25	22.24	18.33	18.36	18.26
3	64QAM	8	0	21.13	21.17	21.21	18.33	18.23	18.17
3	64QAM	8	4	20.97	20.94	21.07	18.16	18.15	18.19
3	64QAM	8	7	21.09	20.90	20.97	18.31	18.16	18.24
3	64QAM	15	0	21.14	21.04	21.02	18.09	18.21	18.22
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	24.18	24.33	24.17	18.51	18.49	18.41
1.4	QPSK	1	3	23.96	24.07	24.08	18.15	18.26	18.37
1.4	QPSK	1	5	24.04	23.92	23.86	18.20	18.07	18.07
1.4	QPSK	3	0	24.35	24.45	24.08	18.14	18.26	18.19
1.4	QPSK	3	1	24.00	23.97	23.99	18.09	18.09	18.20
1.4	QPSK	3	3	23.94	23.95	23.90	18.11	18.11	18.22
1.4	QPSK	6	0	22.96	22.99	22.89	18.22	18.22	18.14
1.4	16QAM	1	0	23.31	23.39	23.23	18.61	18.49	18.10
1.4	16QAM	1	3	23.29	23.28	23.43	18.57	18.43	18.45
1.4	16QAM	1	5	23.36	23.17	23.35	18.43	18.34	18.42
1.4	16QAM	3	0	23.42	23.45	23.23	18.23	18.34	18.38
1.4	16QAM	3	1	23.25	23.25	23.32	18.16	18.31	18.35
1.4	16QAM	3	3	23.35	23.28	23.22	18.13	18.24	18.24
1.4	16QAM	6	0	21.95	21.95	21.96	18.25	18.26	18.22
1.4	64QAM	1	0	22.22	22.13	22.29	18.43	18.43	18.60
1.4	64QAM	1	3	22.28	22.33	22.34	18.56	18.49	18.50
1.4	64QAM	1	5	22.20	22.09	22.22	18.20	18.27	18.36
1.4	64QAM	3	0	22.28	22.29	22.40	18.23	18.28	18.24
1.4	64QAM	3	1	22.41	22.37	22.36	18.23	18.22	18.33
1.4	64QAM	3	3	22.29	22.24	22.24	18.22	18.19	18.30
1.4	64QAM	6	0	21.14	21.31	21.26	18.21	18.16	18.22

<LTE Band 71>

Power Selection				Head		
Transmit Antenna				Ant 0		
Max. Power				24.6		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				133222	133322	133372
Frequency (MHz)				673	683	688
20	QPSK	1	0	23.62	23.71	23.57
20	QPSK	1	49	23.57	23.61	23.55
20	QPSK	1	99	23.52	23.55	23.49
20	QPSK	50	0	22.55	22.67	22.48
20	QPSK	50	24	22.51	22.59	22.42
20	QPSK	50	50	22.49	22.61	22.45
20	QPSK	100	0	22.55	22.57	22.35
20	16QAM	1	0	22.66	22.56	22.44
20	16QAM	1	49	22.57	22.52	22.43
20	16QAM	1	99	22.56	22.51	22.42
20	16QAM	50	0	21.74	21.66	21.57
20	16QAM	50	24	21.72	21.65	21.52
20	16QAM	50	50	21.70	21.61	21.50
20	16QAM	100	0	21.69	21.60	21.42
20	64QAM	1	0	21.71	21.59	21.53
20	64QAM	1	49	21.62	21.57	21.39
20	64QAM	1	99	21.49	21.52	21.42
20	64QAM	50	0	20.77	20.68	20.62
20	64QAM	50	24	20.72	20.62	20.59
20	64QAM	50	50	20.75	20.62	20.58
20	64QAM	100	0	20.69	20.59	20.55
Channel				133197	133297	133397
Frequency (MHz)				670.5	680.5	690.5
15	QPSK	1	0	23.53	23.65	23.56
15	QPSK	1	37	23.40	23.68	23.56
15	QPSK	1	74	23.24	23.54	23.38
15	QPSK	36	0	22.64	22.59	22.18
15	QPSK	36	20	22.31	22.60	22.34
15	QPSK	36	39	22.53	22.21	22.28
15	QPSK	75	0	22.60	22.27	22.22
15	16QAM	1	0	22.50	22.30	22.32
15	16QAM	1	37	22.49	22.32	22.53
15	16QAM	1	74	22.37	22.48	22.39
15	16QAM	36	0	21.65	21.62	21.39
15	16QAM	36	20	21.75	21.43	21.56
15	16QAM	36	39	21.40	21.35	21.46
15	16QAM	75	0	21.41	21.49	21.52
15	64QAM	1	0	21.50	21.54	21.26
15	64QAM	1	37	21.44	21.48	21.12
15	64QAM	1	74	21.58	21.25	21.50
15	64QAM	36	0	20.78	20.39	20.44
15	64QAM	36	20	20.60	20.45	20.55
15	64QAM	36	39	20.53	20.43	20.53
15	64QAM	75	0	20.62	20.33	20.44
Channel				133172	133272	133422
Frequency (MHz)				668	678	693
10	QPSK	1	0	23.69	23.43	23.58
10	QPSK	1	25	23.59	23.40	23.35

10	QPSK	1	49	23.26	23.54	23.39
10	QPSK	25	0	22.41	22.44	22.48
10	QPSK	25	12	22.34	22.41	22.28
10	QPSK	25	25	22.48	22.27	22.36
10	QPSK	50	0	22.26	22.60	22.16
10	16QAM	1	0	22.63	22.26	22.32
10	16QAM	1	25	22.27	22.44	22.42
10	16QAM	1	49	22.65	22.45	22.52
10	16QAM	25	0	21.69	21.56	21.63
10	16QAM	25	12	21.81	21.54	21.42
10	16QAM	25	25	21.76	21.58	21.44
10	16QAM	50	0	21.73	21.49	21.30
10	64QAM	1	0	21.62	21.55	21.35
10	64QAM	1	25	21.54	21.62	21.10
10	64QAM	1	49	21.44	21.32	21.48
10	64QAM	25	0	20.47	20.62	20.51
10	64QAM	25	12	20.59	20.44	20.58
10	64QAM	25	25	20.82	20.46	20.43
10	64QAM	50	0	20.66	20.66	20.33
Channel				133147	133247	133447
Frequency (MHz)				665.5	675.5	695.5
5	QPSK	1	0	23.70	23.33	23.29
5	QPSK	1	12	23.58	23.68	23.45
5	QPSK	1	24	23.54	23.36	23.56
5	QPSK	12	0	22.49	22.33	22.56
5	QPSK	12	7	22.52	22.30	22.48
5	QPSK	12	13	22.48	22.53	22.45
5	QPSK	25	0	22.30	22.30	22.33
5	16QAM	1	0	22.67	22.30	22.33
5	16QAM	1	12	22.45	22.37	22.24
5	16QAM	1	24	22.50	22.40	22.15
5	16QAM	12	0	21.74	21.38	21.29
5	16QAM	12	7	21.76	21.74	21.45
5	16QAM	12	13	21.40	21.71	21.50
5	16QAM	25	0	21.74	21.39	21.45
5	64QAM	1	0	21.42	21.59	21.51
5	64QAM	1	12	21.64	21.30	21.36
5	64QAM	1	24	21.50	21.22	21.28
5	64QAM	12	0	20.72	20.44	20.39
5	64QAM	12	7	20.61	20.42	20.47
5	64QAM	12	13	20.70	20.69	20.50
5	64QAM	25	0	20.57	20.65	20.43

Power Selection				Hotspot / Near body		
Transmit Antenna				Ant 0		
Max. Power				22.6		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				133222	133322	133372
Frequency (MHz)				673	683	688
20	QPSK	1	0	21.72	21.65	21.60
20	QPSK	1	49	21.65	21.55	21.62
20	QPSK	1	99	21.55	21.58	21.72
20	QPSK	50	0	21.55	21.44	21.36
20	QPSK	50	24	21.50	21.38	21.43
20	QPSK	50	50	21.45	21.44	21.48
20	QPSK	100	0	21.49	21.34	21.44
20	16QAM	1	0	21.68	21.63	21.58
20	16QAM	1	49	21.62	21.48	21.50
20	16QAM	1	99	21.56	21.59	21.56
20	16QAM	50	0	20.55	20.44	20.38
20	16QAM	50	24	20.53	20.41	20.46
20	16QAM	50	50	20.47	20.47	20.49
20	16QAM	100	0	20.49	20.38	20.42
20	64QAM	1	0	21.41	21.37	21.31
20	64QAM	1	49	21.34	21.23	21.27
20	64QAM	1	99	21.25	21.31	21.37
20	64QAM	50	0	21.47	21.32	21.28
20	64QAM	50	24	21.39	21.31	21.35
20	64QAM	50	50	21.38	21.36	21.39
20	64QAM	100	0	21.42	21.26	21.32
Channel				133197	133297	133397
Frequency (MHz)				670.5	680.5	690.5
15	QPSK	1	0	21.59	21.62	21.52
15	QPSK	1	37	21.45	21.49	21.53
15	QPSK	1	74	21.36	21.54	21.68
15	QPSK	36	0	21.36	21.37	21.22
15	QPSK	36	20	21.31	21.24	21.26
15	QPSK	36	39	21.41	21.33	21.34
15	QPSK	75	0	21.33	21.25	21.43
15	16QAM	1	0	21.56	21.54	21.41
15	16QAM	1	37	21.51	21.33	21.47
15	16QAM	1	74	21.50	21.41	21.40
15	16QAM	36	0	20.47	20.27	20.25
15	16QAM	36	20	20.48	20.37	20.30
15	16QAM	36	39	20.28	20.46	20.32
15	16QAM	75	0	20.45	20.35	20.42
15	64QAM	1	0	21.29	21.35	21.18
15	64QAM	1	37	21.18	21.23	21.24
15	64QAM	1	74	21.11	21.13	21.35
15	64QAM	36	0	21.40	21.32	21.20
15	64QAM	36	20	21.21	21.19	21.32
15	64QAM	36	39	21.20	21.21	21.35
15	64QAM	75	0	21.41	21.25	21.17
Channel				133172	133272	133422
Frequency (MHz)				668	678	693
10	QPSK	1	0	21.69	21.46	21.57
10	QPSK	1	25	21.59	21.43	21.58

10	QPSK	1	49	21.36	21.41	21.55
10	QPSK	25	0	21.35	21.41	21.31
10	QPSK	25	12	21.34	21.32	21.42
10	QPSK	25	25	21.45	21.42	21.39
10	QPSK	50	0	21.37	21.21	21.37
10	16QAM	1	0	21.63	21.63	21.52
10	16QAM	1	25	21.47	21.45	21.36
10	16QAM	1	49	21.37	21.43	21.49
10	16QAM	25	0	20.49	20.33	20.31
10	16QAM	25	12	20.39	20.26	20.40
10	16QAM	25	25	20.38	20.44	20.30
10	16QAM	50	0	20.34	20.21	20.31
10	64QAM	1	0	21.23	21.34	21.27
10	64QAM	1	25	21.30	21.05	21.10
10	64QAM	1	49	21.12	21.30	21.24
10	64QAM	25	0	21.46	21.27	21.18
10	64QAM	25	12	21.22	21.22	21.16
10	64QAM	25	25	21.34	21.22	21.33
10	64QAM	50	0	21.23	21.16	21.18
Channel				133147	133247	133447
Frequency (MHz)				665.5	675.5	695.5
5	QPSK	1	0	21.58	21.53	21.58
5	QPSK	1	12	21.59	21.51	21.42
5	QPSK	1	24	21.43	21.44	21.65
5	QPSK	12	0	21.41	21.41	21.29
5	QPSK	12	7	21.41	21.38	21.32
5	QPSK	12	13	21.26	21.32	21.42
5	QPSK	25	0	21.35	21.18	21.41
5	16QAM	1	0	21.54	21.50	21.42
5	16QAM	1	12	21.55	21.39	21.30
5	16QAM	1	24	21.46	21.46	21.37
5	16QAM	12	0	20.47	20.34	20.19
5	16QAM	12	7	20.49	20.27	20.37
5	16QAM	12	13	20.32	20.31	20.46
5	16QAM	25	0	20.48	20.23	20.24
5	64QAM	1	0	21.35	21.25	21.15
5	64QAM	1	12	21.16	21.16	21.24
5	64QAM	1	24	21.21	21.17	21.31
5	64QAM	12	0	21.39	21.22	21.20
5	64QAM	12	7	21.37	21.17	21.35
5	64QAM	12	13	21.31	21.25	21.31
5	64QAM	25	0	21.36	21.11	21.19

<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.

d. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations

e. "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

f. 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.

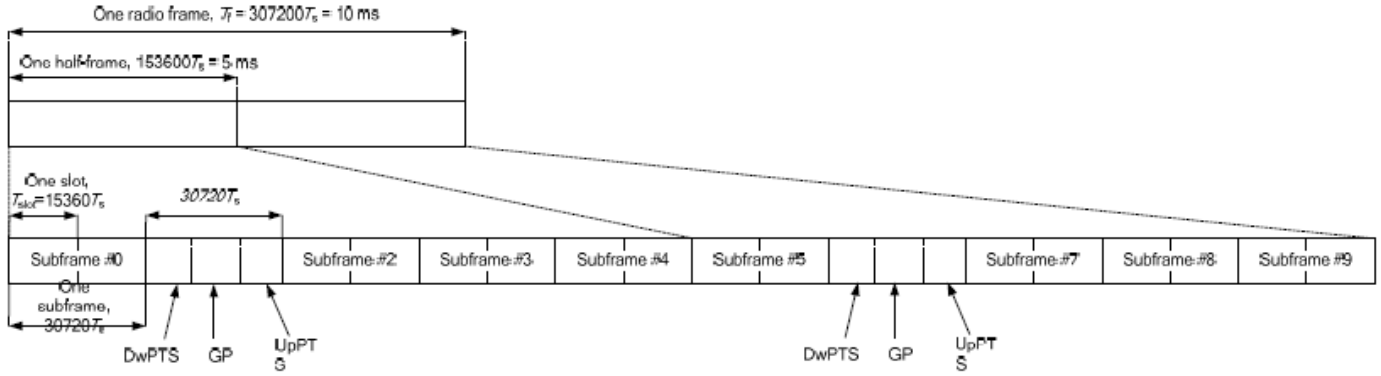


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
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:

i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subfames, uplink operation is in 3 uplink subframes and 1 special subframe.

ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink

iii. 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%

iv. 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%

v. 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.

vi. 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

vii. 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>

Power Selection				Head			Near body		
Transmit Antenna				Ant 2			Ant 2		
Max. Power				24.7			20.2		
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				37850	38000	38150	37850	38000	38150
Frequency (MHz)				2580	2595	2610	2580	2595	2610
20	QPSK	1	0	23.74	24.08	23.97	19.49	19.58	19.53
20	QPSK	1	49	23.51	23.45	23.87	19.39	19.40	19.35
20	QPSK	1	99	23.57	23.46	23.58	19.47	19.52	19.39
20	QPSK	50	0	23.46	24.01	23.46	19.51	19.55	19.54
20	QPSK	50	24	23.49	23.49	24.00	19.49	19.52	19.54
20	QPSK	50	50	23.49	23.51	23.93	19.49	19.54	19.44
20	QPSK	100	0	23.47	23.99	23.56	19.51	19.53	19.49
20	16QAM	1	0	23.39	23.60	23.93	19.55	19.59	19.58
20	16QAM	1	49	23.37	23.34	23.83	19.54	19.54	19.38
20	16QAM	1	99	23.44	23.43	23.90	19.59	19.59	19.50
20	16QAM	50	0	22.52	22.50	23.07	19.58	19.61	19.58
20	16QAM	50	24	22.52	22.56	23.10	19.60	19.59	19.60
20	16QAM	50	50	22.56	22.64	23.01	19.59	19.61	19.50
20	16QAM	100	0	22.53	22.67	23.07	19.55	19.58	19.59
20	64QAM	1	0	22.24	22.46	22.80	19.29	19.32	19.33
20	64QAM	1	49	22.25	22.47	22.71	19.24	19.28	19.21
20	64QAM	1	99	22.28	22.50	22.73	19.33	19.36	19.27
20	64QAM	50	0	21.50	21.72	22.04	19.56	19.59	19.60
20	64QAM	50	24	21.50	21.98	22.08	19.57	19.60	19.63
20	64QAM	50	50	21.51	22.04	21.98	19.59	19.61	19.51
20	64QAM	100	0	21.51	22.07	22.05	19.59	19.61	19.61
Channel				37825	38000	38175	37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5	2577.5	2595	2612.5
15	QPSK	1	0	23.21	23.47	23.80	19.46	19.41	19.49
15	QPSK	1	37	23.21	23.23	23.81	19.29	19.26	19.15
15	QPSK	1	74	23.44	23.35	23.77	19.34	19.42	19.35
15	QPSK	36	0	23.32	23.43	23.98	19.32	19.40	19.38
15	QPSK	36	20	23.33	23.35	23.99	19.51	19.33	19.45
15	QPSK	36	39	23.45	23.48	23.75	19.35	19.48	19.38
15	QPSK	75	0	23.40	23.46	23.97	19.43	19.47	19.47
15	16QAM	1	0	23.46	23.40	23.97	19.52	19.49	19.41
15	16QAM	1	37	23.47	23.41	23.79	19.49	19.38	19.22
15	16QAM	1	74	23.37	23.29	24.00	19.56	19.47	19.30
15	16QAM	36	0	22.48	22.38	23.06	19.40	19.51	19.52
15	16QAM	36	20	22.34	22.36	23.02	19.40	19.52	19.54
15	16QAM	36	39	22.46	22.44	22.83	19.40	19.49	19.30
15	16QAM	75	0	22.37	22.65	22.90	19.53	19.51	19.44
15	64QAM	1	0	22.24	22.35	22.77	19.17	19.15	19.24
15	64QAM	1	37	22.19	22.32	22.69	19.17	19.16	19.16
15	64QAM	1	74	22.22	22.35	22.54	19.18	19.33	19.19
15	64QAM	36	0	21.47	21.65	21.97	19.39	19.48	19.42
15	64QAM	36	20	21.49	21.97	21.93	19.37	19.30	19.42
15	64QAM	36	39	21.34	21.94	21.78	19.40	19.43	19.48
15	64QAM	75	0	21.38	21.92	21.85	19.44	19.55	19.57
Channel				37800	38000	38200	37800	38000	38200
Frequency (MHz)				2575	2595	2615	2575	2595	2615
10	QPSK	1	0	23.25	23.46	23.92	19.33	19.51	19.39
10	QPSK	1	25	23.18	23.28	23.78	19.19	19.22	19.17

10	QPSK	1	49	23.26	23.25	23.81	19.47	19.32	19.19
10	QPSK	25	0	23.45	23.46	23.83	19.48	19.39	19.44
10	QPSK	25	12	23.43	23.43	23.85	19.45	19.33	19.53
10	QPSK	25	25	23.38	23.50	23.91	19.36	19.45	19.27
10	QPSK	50	0	23.39	23.35	23.83	19.41	19.39	19.48
10	16QAM	1	0	23.37	23.31	23.93	19.50	19.40	19.46
10	16QAM	1	25	23.40	23.44	23.87	19.37	19.36	19.22
10	16QAM	1	49	23.55	23.38	23.85	19.40	19.56	19.39
10	16QAM	25	0	22.50	22.42	22.96	19.53	19.52	19.45
10	16QAM	25	12	22.33	22.38	23.07	19.41	19.40	19.49
10	16QAM	25	25	22.45	22.46	23.01	19.47	19.52	19.36
10	16QAM	50	0	22.40	22.47	22.88	19.54	19.49	19.45
10	64QAM	1	0	22.09	22.39	22.76	19.25	19.17	19.31
10	64QAM	1	25	22.05	22.47	22.52	19.11	19.18	19.03
10	64QAM	1	49	22.26	22.40	22.54	19.23	19.35	19.14
10	64QAM	25	0	21.34	21.58	21.84	19.43	19.47	19.52
10	64QAM	25	12	21.48	21.81	22.07	19.55	19.41	19.57
10	64QAM	25	25	21.40	21.89	21.79	19.54	19.57	19.37
10	64QAM	50	0	21.40	22.05	22.03	19.42	19.51	19.57
Channel				37775	38000	38225	37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5	2572.5	2595	2617.5
5	QPSK	1	0	23.37	23.51	23.85	19.39	19.43	19.52
5	QPSK	1	12	23.24	23.30	23.74	19.31	19.27	19.22
5	QPSK	1	24	23.44	23.28	23.85	19.45	19.50	19.33
5	QPSK	12	0	23.32	23.39	23.88	19.33	19.47	19.38
5	QPSK	12	7	23.47	23.39	23.88	19.44	19.39	19.50
5	QPSK	12	13	23.32	23.42	23.93	19.42	19.44	19.41
5	QPSK	25	0	23.34	23.36	23.86	19.50	19.37	19.45
5	16QAM	1	0	23.51	23.31	23.93	19.42	19.49	19.57
5	16QAM	1	12	23.33	23.25	23.91	19.54	19.46	19.19
5	16QAM	1	24	23.48	23.44	23.88	19.51	19.40	19.35
5	16QAM	12	0	22.44	22.46	23.01	19.38	19.42	19.47
5	16QAM	12	7	22.49	22.50	22.99	19.45	19.38	19.48
5	16QAM	12	13	22.56	22.60	22.85	19.50	19.54	19.31
5	16QAM	25	0	22.45	22.62	22.99	19.36	19.43	19.39
5	64QAM	1	0	22.06	22.28	22.67	19.24	19.15	19.22
5	64QAM	1	12	22.09	22.36	22.64	19.22	19.13	19.13
5	64QAM	1	24	22.11	22.41	22.71	19.19	19.33	19.08
5	64QAM	12	0	21.46	21.59	21.84	19.53	19.48	19.51
5	64QAM	12	7	21.40	21.83	21.99	19.50	19.56	19.46
5	64QAM	12	13	21.34	21.92	21.91	19.52	19.43	19.38
5	64QAM	25	0	21.46	22.00	22.05	19.47	19.51	19.52

<LTE Band 41>

Power Selection				Head					Hotspot / Near body				
Transmit Antenna				Ant 2					Ant 2				
Max. Power				24					20				
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	23.35	23.43	23.71	23.52	23.51	19.30	19.33	19.49	19.58	19.49
20	QPSK	1	49	23.21	23.33	23.29	23.50	23.42	19.27	19.38	19.34	19.57	19.53
20	QPSK	1	99	23.23	23.27	23.30	23.48	23.46	19.41	19.50	19.74	19.59	19.60
20	QPSK	50	0	23.33	23.42	23.41	23.52	23.62	19.37	19.46	19.67	19.62	19.63
20	QPSK	50	24	23.31	23.27	23.37	23.59	23.58	19.35	19.34	19.40	19.55	19.45
20	QPSK	50	50	23.27	23.27	23.34	23.55	23.54	19.27	19.33	19.38	19.60	19.57
20	QPSK	100	0	23.29	23.32	23.39	23.49	23.56	19.32	19.35	19.63	19.49	19.45
20	16QAM	1	0	23.38	23.48	23.50	23.59	23.63	19.13	19.23	19.23	19.33	19.49
20	16QAM	1	49	23.27	23.36	23.33	23.57	23.59	19.00	19.13	19.08	19.31	19.33
20	16QAM	1	99	23.28	23.28	23.34	23.56	23.52	19.03	19.05	19.09	19.28	19.27
20	16QAM	50	0	22.39	22.50	22.46	22.59	22.68	19.34	19.46	19.46	19.53	19.66
20	16QAM	50	24	22.35	22.38	22.45	22.65	22.68	19.32	19.35	19.42	19.61	19.64
20	16QAM	50	50	22.34	22.35	22.43	22.61	22.60	19.30	19.33	19.40	19.56	19.60
20	16QAM	100	0	22.35	22.35	22.43	22.54	22.64	19.33	19.37	19.42	19.54	19.64
20	64QAM	1	0	22.10	22.21	22.22	22.33	22.48	19.29	19.42	19.35	19.46	19.60
20	64QAM	1	49	22.02	22.11	22.07	22.31	22.33	19.18	19.29	19.27	19.48	19.49
20	64QAM	1	99	22.00	22.04	22.10	22.30	22.29	19.22	19.21	19.29	19.48	19.47
20	64QAM	50	0	21.39	21.49	21.45	21.57	21.70	19.27	19.38	19.38	19.47	19.61
20	64QAM	50	24	21.36	21.35	21.43	21.65	21.66	19.27	19.26	19.36	19.54	19.54
20	64QAM	50	50	21.31	21.33	21.41	21.61	21.58	19.24	19.24	19.33	19.55	19.49
20	64QAM	100	0	21.36	21.37	21.43	21.54	21.63	19.24	19.30	19.32	19.44	19.53
Channel				39725	40173	40620	41068	41515	39725	40173	40620	41068	41515
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	2503.5	2548.3	2593	2637.8	2682.5
15	QPSK	1	0	23.33	23.38	23.40	23.33	23.55	19.25	19.27	19.44	19.57	19.35
15	QPSK	1	37	23.09	23.21	23.19	23.48	23.40	19.12	19.21	19.14	19.46	19.46
15	QPSK	1	74	23.08	23.27	23.21	23.45	23.43	19.27	19.40	19.70	19.55	19.56
15	QPSK	36	0	23.13	23.24	23.33	23.39	23.42	19.32	19.38	19.54	19.59	19.51
15	QPSK	36	20	23.15	23.10	23.35	23.39	23.56	19.18	19.21	19.24	19.36	19.44
15	QPSK	36	39	23.09	23.23	23.16	23.38	23.47	19.27	19.17	19.20	19.49	19.40
15	QPSK	75	0	23.29	23.17	23.21	23.42	23.50	19.23	19.35	19.51	19.37	19.25
15	16QAM	1	0	23.31	23.31	23.38	23.50	23.60	18.98	19.21	19.17	19.27	19.32
15	16QAM	1	37	23.24	23.32	23.19	23.57	23.45	18.84	18.98	18.96	19.12	19.32
15	16QAM	1	74	23.12	23.23	23.16	23.56	23.52	19.01	19.02	19.08	19.23	19.08
15	16QAM	36	0	22.23	22.50	22.45	22.59	22.49	19.16	19.38	19.29	19.45	19.60
15	16QAM	36	20	22.16	22.31	22.40	22.52	22.68	19.26	19.19	19.41	19.60	19.53
15	16QAM	36	39	22.23	22.19	22.23	22.51	22.60	19.18	19.19	19.38	19.51	19.52
15	16QAM	75	0	22.26	22.19	22.42	22.40	22.59	19.16	19.33	19.33	19.50	19.60
15	64QAM	1	0	22.01	22.14	22.02	22.23	22.32	19.18	19.24	19.18	19.29	19.58
15	64QAM	1	37	22.30	22.08	22.07	22.26	22.31	19.03	19.16	19.14	19.47	19.49
15	64QAM	1	74	22.15	22.16	22.27	22.26	22.14	19.15	19.14	19.29	19.32	19.38
15	64QAM	36	0	21.39	21.36	21.45	21.51	21.60	19.12	19.32	19.18	19.33	19.51
15	64QAM	36	20	21.30	21.31	21.34	21.51	21.46	19.15	19.16	19.33	19.50	19.43
15	64QAM	36	39	21.29	21.13	21.25	21.51	21.54	19.18	19.19	19.14	19.51	19.43
15	64QAM	75	0	21.21	21.33	21.28	21.34	21.58	19.19	19.19	19.24	19.43	19.33
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	23.16	23.27	23.22	23.51	23.65	19.25	19.48	19.48	19.42	19.58
10	QPSK	1	25	23.17	23.21	23.09	23.40	23.43	19.09	19.25	19.30	19.52	19.49
10	QPSK	1	49	23.08	23.11	23.15	23.41	23.37	19.24	19.29	19.53	19.45	19.35
10	QPSK	25	0	23.19	23.32	23.27	23.51	23.52	19.32	19.28	19.44	19.47	19.52
10	QPSK	25	12	23.15	23.19	23.34	23.42	23.40	19.35	19.33	19.25	19.44	19.53
10	QPSK	25	25	23.16	23.07	23.17	23.39	23.50	19.08	19.31	19.30	19.53	19.48
10	QPSK	50	0	23.22	23.13	23.22	23.45	23.38	19.13	19.15	19.28	19.33	19.61
10	16QAM	1	0	23.18	23.35	23.33	23.56	23.56	19.07	19.07	19.19	19.30	19.45
10	16QAM	1	25	23.13	23.31	23.17	23.41	23.51	18.97	18.94	19.08	19.22	19.27
10	16QAM	1	49	23.12	23.11	23.33	23.38	23.33	18.98	18.92	19.01	19.10	19.12
10	16QAM	25	0	22.28	22.37	22.38	22.59	22.55	19.26	19.45	19.43	19.50	19.63
10	16QAM	25	12	22.25	22.37	22.26	22.63	22.51	19.14	19.26	19.42	19.46	19.57
10	16QAM	25	25	22.31	22.20	22.37	22.58	22.46	19.25	19.29	19.32	19.42	19.40
10	16QAM	50	0	22.26	22.18	22.42	22.43	22.48	19.33	19.18	19.23	19.49	19.55
10	64QAM	1	0	21.99	22.04	22.04	22.16	22.40	19.24	19.34	19.23	19.28	19.60
10	64QAM	1	25	21.94	21.98	22.07	22.31	22.24	19.06	19.15	19.11	19.30	19.40
10	64QAM	1	49	21.83	22.02	22.00	22.25	22.13	19.02	19.13	19.11	19.30	19.33
10	64QAM	25	0	21.19	21.48	21.26	21.54	21.61	19.27	19.29	19.32	19.47	19.58
10	64QAM	25	12	21.23	21.18	21.28	21.51	21.59	19.11	19.24	19.34	19.47	19.50
10	64QAM	25	25	21.30	21.16	21.39	21.47	21.49	19.24	19.17	19.32	19.48	19.44
10	64QAM	50	0	21.26	21.28	21.34	21.51	21.45	19.07	19.27	19.22	19.24	19.48
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	23.25	23.25	23.33	23.36	23.71	19.30	19.39	19.40	19.55	19.71
5	QPSK	1	12	23.16	23.26	23.24	23.35	23.33	19.22	19.22	19.26	19.49	19.49
5	QPSK	1	24	23.05	23.10	23.14	23.41	23.34	19.17	19.21	19.53	19.54	19.42
5	QPSK	12	0	23.21	23.31	23.27	23.44	23.53	19.27	19.29	19.44	19.43	19.47
5	QPSK	12	7	23.20	23.07	23.27	23.43	23.50	19.22	19.29	19.34	19.53	19.47
5	QPSK	12	13	23.17	23.09	23.29	23.39	23.51	19.23	19.20	19.38	19.50	19.46
5	QPSK	25	0	23.14	23.31	23.20	23.46	23.37	19.32	19.21	19.28	19.47	19.58
5	16QAM	1	0	23.18	23.35	23.40	23.55	23.56	19.06	19.10	19.04	19.28	19.36
5	16QAM	1	12	23.09	23.22	23.20	23.57	23.43	18.97	18.94	18.97	19.27	19.29
5	16QAM	1	24	23.13	23.26	23.18	23.45	23.44	18.83	18.86	19.00	19.25	19.19
5	16QAM	12	0	22.24	22.43	22.45	22.43	22.53	19.28	19.36	19.30	19.41	19.65
5	16QAM	12	7	22.25	22.29	22.25	22.47	22.54	19.19	19.20	19.24	19.47	19.51
5	16QAM	12	13	22.31	22.35	22.38	22.42	22.46	19.18	19.17	19.29	19.42	19.60
5	16QAM	25	0	22.17	22.19	22.43	22.43	22.53	19.25	19.24	19.34	19.50	19.49
5	64QAM	1	0	22.04	22.11	22.11	22.25	22.30	19.20	19.22	19.32	19.32	19.52
5	64QAM	1	12	21.94	22.01	21.94	22.11	22.20	19.03	19.11	19.13	19.41	19.30
5	64QAM	1	24	21.91	21.89	22.10	22.13	22.21	19.09	19.01	19.19	19.39	19.33
5	64QAM	12	0	21.27	21.41	21.41	21.57	21.65	19.23	19.34	19.36	19.39	19.45
5	64QAM	12	7	21.30	21.18	21.35	21.64	21.47	19.14	19.22	19.23	19.35	19.45
5	64QAM	12	13	21.13	21.22	21.32	21.44	21.40	19.12	19.04	19.32	19.35	19.40
5	64QAM	25	0	21.27	21.25	21.38	21.53	21.55	19.20	19.10	19.28	19.44	19.33

<LTE Band 41 HPUE>

Power Selection				Head					Hotspot / Near body				
Transmit Antenna				Ant 2					Ant 2				
Max. Power				24					20				
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	23.24	23.34	23.35	23.44	23.66	19.46	19.58	19.55	19.69	19.87
20	QPSK	1	49	23.11	23.24	23.21	23.42	23.44	19.44	19.52	19.47	19.74	19.78
20	QPSK	1	99	23.17	23.18	23.23	23.44	23.37	19.36	19.46	19.58	19.66	19.69
20	QPSK	50	0	23.32	23.41	23.39	23.48	23.61	19.36	19.46	19.42	19.53	19.71
20	QPSK	50	24	23.27	23.32	23.39	23.56	23.55	19.33	19.43	19.43	19.62	19.67
20	QPSK	50	50	23.23	23.26	23.35	23.54	23.52	19.32	19.42	19.40	19.60	19.63
20	QPSK	100	0	23.30	23.28	23.33	23.49	23.56	19.35	19.44	19.41	19.52	19.66
20	16QAM	1	0	23.51	23.59	23.62	23.50	23.46	19.34	19.45	19.45	19.56	19.70
20	16QAM	1	49	23.41	23.48	23.46	23.51	23.40	19.30	19.42	19.38	19.63	19.61
20	16QAM	1	99	23.41	23.44	23.48	23.60	23.61	19.24	19.35	19.31	19.51	19.54
20	16QAM	50	0	23.37	23.48	23.43	23.56	23.62	19.38	19.48	19.46	19.55	19.73
20	16QAM	50	24	23.33	23.35	23.41	23.60	23.65	19.38	19.49	19.47	19.67	19.67
20	16QAM	50	50	23.28	23.34	23.39	23.60	23.55	19.34	19.49	19.45	19.68	19.66
20	16QAM	100	0	23.32	23.38	23.42	23.49	23.62	19.31	19.41	19.41	19.51	19.65
20	64QAM	1	0	23.42	23.51	23.50	23.62	23.25	19.14	19.28	19.26	19.38	19.51
20	64QAM	1	49	23.29	23.40	23.34	23.62	23.61	19.11	19.24	19.20	19.42	19.47
20	64QAM	1	99	23.26	23.33	23.38	23.58	23.55	19.05	19.20	19.14	19.36	19.36
20	64QAM	50	0	22.89	23.00	22.96	23.05	23.18	19.25	19.35	19.29	19.44	19.55
20	64QAM	50	24	22.83	22.90	22.95	23.08	23.12	19.25	19.33	19.33	19.53	19.57
20	64QAM	50	50	22.82	22.85	22.91	23.06	23.06	19.23	19.32	19.35	19.49	19.50
20	64QAM	100	0	22.85	22.89	22.95	23.03	23.14	19.20	19.33	19.36	19.44	19.56
Channel				39725	40173	40620	41068	41515	39725	40173	40620	41068	41515
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	2503.5	2548.3	2593	2637.8	2682.5
15	QPSK	1	0	23.10	23.33	23.31	23.25	23.63	19.45	19.45	19.41	19.49	19.77
15	QPSK	1	37	22.97	23.17	23.15	23.35	23.31	19.38	19.49	19.33	19.55	19.76
15	QPSK	1	74	23.11	23.18	23.23	23.25	23.21	19.33	19.28	19.45	19.59	19.61
15	QPSK	36	0	23.17	23.22	23.32	23.39	23.47	19.31	19.43	19.40	19.39	19.53
15	QPSK	36	20	23.09	23.23	23.35	23.41	23.36	19.19	19.41	19.42	19.52	19.54
15	QPSK	36	39	23.07	23.24	23.20	23.38	23.47	19.12	19.24	19.40	19.57	19.52
15	QPSK	75	0	23.10	23.09	23.25	23.40	23.56	19.35	19.42	19.27	19.47	19.63
15	16QAM	1	0	23.51	23.59	23.58	23.47	23.42	19.33	19.38	19.33	19.36	19.52
15	16QAM	1	37	23.27	23.34	23.39	23.32	23.35	19.26	19.27	19.36	19.50	19.60
15	16QAM	1	74	23.31	23.43	23.31	23.60	23.47	19.18	19.30	19.31	19.49	19.34
15	16QAM	36	0	23.25	23.48	23.36	23.49	23.42	19.25	19.29	19.27	19.35	19.62
15	16QAM	36	20	23.16	23.29	23.26	23.41	23.55	19.28	19.40	19.36	19.58	19.61
15	16QAM	36	39	23.20	23.30	23.31	23.53	23.38	19.29	19.36	19.31	19.61	19.61
15	16QAM	75	0	23.15	23.29	23.37	23.49	23.60	19.27	19.32	19.32	19.48	19.61
15	64QAM	1	0	23.31	23.36	23.38	23.57	23.21	19.07	19.11	19.14	19.33	19.50
15	64QAM	1	37	23.26	23.38	23.18	23.52	23.50	18.94	19.24	19.02	19.39	19.31
15	64QAM	1	74	23.25	23.27	23.33	23.53	23.46	18.85	19.18	19.03	19.19	19.25
15	64QAM	36	0	22.81	22.88	22.89	22.93	22.98	19.06	19.20	19.21	19.38	19.54
15	64QAM	36	20	22.70	22.85	22.90	22.93	23.10	19.08	19.27	19.30	19.52	19.49
15	64QAM	36	39	22.67	22.71	22.71	22.98	22.96	19.06	19.18	19.33	19.40	19.34
15	64QAM	75	0	22.70	22.75	22.83	22.98	22.97	19.07	19.26	19.33	19.41	19.54
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	23.17	23.17	23.22	23.37	23.57	19.26	19.51	19.44	19.58	19.68
10	QPSK	1	25	22.92	23.14	23.12	23.40	23.30	19.32	19.44	19.36	19.60	19.72
10	QPSK	1	49	22.98	23.05	23.03	23.28	23.21	19.23	19.43	19.49	19.50	19.64
10	QPSK	25	0	23.32	23.40	23.23	23.28	23.58	19.34	19.42	19.27	19.41	19.54
10	QPSK	25	12	23.20	23.15	23.35	23.44	23.38	19.25	19.35	19.31	19.59	19.50
10	QPSK	25	25	23.11	23.24	23.22	23.45	23.49	19.23	19.41	19.34	19.46	19.60
10	QPSK	50	0	23.25	23.17	23.21	23.35	23.39	19.22	19.40	19.35	19.45	19.59
10	16QAM	1	0	23.37	23.55	23.59	23.36	23.30	19.22	19.41	19.31	19.56	19.54
10	16QAM	1	25	23.31	23.31	23.45	23.32	23.33	19.12	19.36	19.26	19.61	19.48
10	16QAM	1	49	23.41	23.28	23.37	23.58	23.57	19.18	19.18	19.17	19.32	19.49
10	16QAM	25	0	23.27	23.30	23.35	23.38	23.59	19.20	19.28	19.27	19.40	19.56
10	16QAM	25	12	23.25	23.22	23.39	23.47	23.65	19.33	19.47	19.32	19.61	19.48
10	16QAM	25	25	23.09	23.24	23.37	23.53	23.35	19.22	19.41	19.41	19.61	19.64
10	16QAM	50	0	23.26	23.21	23.38	23.38	23.62	19.19	19.21	19.26	19.31	19.50
10	64QAM	1	0	23.41	23.35	23.36	23.52	23.13	18.97	19.12	19.10	19.18	19.51
10	64QAM	1	25	23.28	23.20	23.16	23.60	23.57	19.06	19.04	19.19	19.29	19.41
10	64QAM	1	49	23.13	23.18	23.32	23.55	23.44	18.93	19.10	18.99	19.33	19.28
10	64QAM	25	0	22.75	22.87	22.76	23.02	23.09	19.22	19.33	19.17	19.35	19.48
10	64QAM	25	12	22.66	22.71	22.95	23.08	23.09	19.08	19.26	19.23	19.43	19.54
10	64QAM	25	25	22.64	22.65	22.79	23.04	22.90	19.09	19.20	19.23	19.33	19.33
10	64QAM	50	0	22.65	22.71	22.87	22.91	22.97	19.15	19.14	19.31	19.39	19.56
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	23.09	23.25	23.20	23.26	23.63	19.36	19.44	19.54	19.50	19.69
5	QPSK	1	12	23.02	23.13	23.04	23.34	23.24	19.24	19.38	19.36	19.73	19.65
5	QPSK	1	24	23.04	23.13	23.09	23.26	23.22	19.21	19.28	19.46	19.61	19.55
5	QPSK	12	0	23.27	23.22	23.36	23.29	23.55	19.22	19.38	19.26	19.37	19.52
5	QPSK	12	7	23.12	23.18	23.24	23.38	23.39	19.25	19.25	19.43	19.42	19.62
5	QPSK	12	13	23.18	23.11	23.19	23.38	23.40	19.31	19.38	19.30	19.51	19.55
5	QPSK	25	0	23.27	23.20	23.21	23.34	23.39	19.22	19.24	19.23	19.46	19.51
5	16QAM	1	0	23.39	23.47	23.57	23.36	23.40	19.32	19.34	19.29	19.38	19.62
5	16QAM	1	12	23.37	23.28	23.38	23.47	23.28	19.20	19.27	19.28	19.61	19.47
5	16QAM	1	24	23.21	23.35	23.47	23.47	23.44	19.22	19.29	19.28	19.43	19.44
5	16QAM	12	0	23.32	23.31	23.25	23.41	23.52	19.30	19.32	19.29	19.46	19.63
5	16QAM	12	7	23.25	23.27	23.28	23.49	23.60	19.33	19.34	19.47	19.65	19.56
5	16QAM	12	13	23.18	23.22	23.35	23.49	23.38	19.20	19.45	19.38	19.55	19.66
5	16QAM	25	0	23.13	23.22	23.35	23.46	23.47	19.11	19.39	19.38	19.42	19.61
5	64QAM	1	0	23.25	23.38	23.42	23.43	23.20	18.96	19.26	19.17	19.25	19.33
5	64QAM	1	12	23.19	23.26	23.27	23.58	23.61	19.03	19.14	19.15	19.36	19.35
5	64QAM	1	24	23.20	23.14	23.36	23.46	23.52	19.05	19.16	18.99	19.23	19.29
5	64QAM	12	0	22.86	22.94	22.92	22.95	23.17	19.20	19.16	19.19	19.29	19.46
5	64QAM	12	7	22.77	22.88	22.91	23.07	22.98	19.15	19.27	19.32	19.53	19.46
5	64QAM	12	13	22.66	22.80	22.88	23.01	22.87	19.10	19.15	19.27	19.38	19.32
5	64QAM	25	0	22.85	22.71	22.81	22.97	23.06	19.15	19.15	19.32	19.38	19.37

13. 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 29A is limited to Scell.

Inter-Band		
2 bands / 2 CC	**2 bands / 3 CC**	**3 bands / 3 CC**
CA_2A-4A	CA_2A-2A-4A	CA_2A-4A-5A
CA_2A-5A	CA_2A-4A-4A	CA_2A-4A-7A
CA_2A-7A	CA_2A-2A-5A	CA_2A-4A-12A
CA_2A-12A	CA_2A-7A-7A	CA_2A-4A-29A
CA_2A-14A	CA_2A-7C	CA_2A-4A-30A
CA_2A-29A	CA_2A-2A-12A	CA_2A-4A-71A
CA_2A-30A	CA_2A-12B	CA_2A-5A-30A
CA_2A-66A	CA_2A-2A-14A	CA_2A-5A-66A
CA_2A-71A	CA_2A-2A-30A	CA_2A-7A-12A
	CA_2A-66C	CA_2A-12A-30A
	CA_2A-2A-66A	CA_2A-12A-66A
	CA_2A-66A-66A	CA_2A-29A-30A
	CA_2C-66A	CA_2A-30A-66A
	CA_2A-2A-71A	CA_2A-66A-71A
2 bands / 2 CC	**2 bands / 3 CC**	**3 bands / 3 CC**
CA_4A-5A	CA_4A-4A-5A	CA_4A-5A-30A
CA_4A-7A	CA_4A-4A-7A	CA_4A-7A-12A
CA_4A-29A	CA_4A-4A-12A	CA_4A-12A-30A
CA_4A-30A	CA_4A-12B	CA_4A-29A-30A
CA_4A-71A	CA_4A-4A-71A	
2 bands / 2 CC	**2 bands / 3 CC**	**3 bands / 3 CC**
CA_5A-7A	CA_5A-66C	CA_5A-30A-66A
CA_5A-30A		CA_5A-2A-66A
CA_5A-66A		
2 bands / 2 CC	**2 bands / 3 CC**	**3 bands / 3 CC**
CA_7A-12A		
CA_7A-66A		
2 bands / 2 CC	**2 bands / 3 CC**	**3 bands / 3 CC**
CA_12A-30A	CA_12A-66A-66A	CA_12A-30A-66A
CA_12A-66A	CA_12A-66C	
2 bands / 2 CC	**2 bands / 3 CC**	**3 bands / 3 CC**
CA_13A-66A		
2 bands / 2 CC	**2 bands / 3 CC**	**3 bands / 3 CC**
CA_14A-66A	CA_14A-66A-66A	
CA_14A-30A	CA_14A-30A-66A	
2 bands / 2 CC	**2 bands / 3 CC**	**3 bands / 3 CC**
CA_25A-26A	25A-25A-26A	
CA_25A-41A		
2 bands / 2 CC	**2 bands / 3 CC**	**3 bands / 3 CC**
CA_26A-41A		
2 bands / 2 CC	**2 bands / 3 CC**	**3 bands / 3 CC**
CA_29A-66A		
2 bands / 2 CC	**2 bands / 3 CC**	**3 bands / 3 CC**
CA_30A-29A	CA_30A-66A-66A	

CA_30A-66A		
2 bands / 2 CC	**2 bands / 3 CC**	**3 bands / 3 CC**
CA_66A-71A	CA_66C-71A	
	CA_66A-66A-71A	

Intra-Band	
Intra-Band Contigous	**Intra-Band non-Contigous**
CA_2C	CA_2A_2A
Intra-Band Contigous	**Intra-Band non-Contigous**
	CA_4A_4A
Intra-Band Contigous	**Intra-Band non-Contigous**
CA_5B	
Intra-Band Contigous	**Intra-Band non-Contigous**
CA_7C	CA_7A_7A
Intra-Band Contigous	**Intra-Band non-Contigous**
CA_12B	
Intra-Band Contigous	**Intra-Band non-Contigous**
CA_41C	41A-41A
CA_41D	41A-41C
Intra-Band Contigous	**Intra-Band non-Contigous**
CA_66B	66A-66A
CA_66C	66A-66C

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. The device supports uplink carrier aggregation for LTE B41C with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the 3GPP requirement.

vii. 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.

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

<Two Carrier power verification>

Configure		CA Configuration (BCS)	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		13A-66A	13	10	782	23230	QPSK	1	0	66	20	2120	66536	24.05	24.07
		25A-41A	25	20	1880	26340	QPSK	1	0	41	20	2593	40620	25.31	25.35
		26A-41A	26	15	831.5	26865	QPSK	1	0	41	20	2593	40620	24.57	24.60
Intra-Band	Non-Contiguous	2A-2A	2	20	1880	18900	QPSK	1	0	2	5	1932.5	625	25.32	25.39
		4A-4A	4	20	1720	20050	QPSK	1	49	4	5	2152.5	2375	24.02	24.07
		7A-7A	7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	24.01	24.03
	Contiguous	2C	2	20	1880	18900	QPSK	1	0	2	20	1940.2	702	25.31	25.39
		5B	5	10	836.5	20525	QPSK	1	0	5	10	871.6	5966	24.54	24.65
		7C	7	20	2510	20850	QPSK	1	0	7	20	2649.8	3048	23.85	24.03
		12B	12	10	704	23060	QPSK	1	0	12	10	743.9	5829	24.59	24.73
		66B	66	20	1720	132072	QPSK	1	0	66	20	2155	66886	24.39	24.46
		66C	66	20	1720	132072	QPSK	1	0	66	20	2155	66886	24.37	24.46

<Three Carrier power verification>

Configure		CA Configuration (BCS)	PCC							SCC				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		2A-2A-4A	2	20	1880	18900	QPSK	1	0	2	20	1940	700	4	20	2132.5	2175	25.22	25.39
		2A-2A-5A	2	20	1880	18900	QPSK	1	0	2	20	1940	700	5	10	881.5	2525	25.31	25.39
		2A-2A-12A	2	20	1880	18900	QPSK	1	0	2	20	1940	700	12	10	737.5	5095	25.19	25.39
		2A-2A-14A	2	20	1880	18900	QPSK	1	0	2	20	1940	700	14	10	763	5790	25.24	25.39
		2A-2A-30A	2	20	1880	18900	QPSK	1	0	2	20	1940	700	30	10	2355	9820	25.36	25.39
		2A-2A-66A	2	20	1880	18900	QPSK	1	0	2	20	1940	700	66	20	2155	66886	25.26	25.39
		2A-2A-71A	2	20	1880	18900	QPSK	1	0	2	20	1940	700	71	20	637	68786	25.18	25.39
		2A-4A-4A	2	20	1880	18900	QPSK	1	0	4	20	2120	2050	4	20	2132.5	2175	25.31	25.39
		2A-4A-5A	2	20	1880	18900	QPSK	1	0	4	20	2120	2050	5	10	881.5	2525	25.26	25.39
		2A-4A-7A	2	20	1880	18900	QPSK	1	0	4	20	2120	2050	7	10	2655	3100	25.24	25.39
		2A-4A-12A	2	20	1880	18900	QPSK	1	0	4	20	2120	2050	12	10	737.5	5095	25.33	25.39
		2A-4A-29A	2	20	1880	18900	QPSK	1	0	4	20	2120	2050	29	10	722.5	9715	25.22	25.39
		2A-4A-30A	2	20	1880	18900	QPSK	1	0	4	20	2120	2050	30	10	2355	9820	25.23	25.39
		2A-4A-71A	2	20	1880	18900	QPSK	1	0	4	20	2120	2050	71	20	637	68786	25.16	25.39
		2A-5A-66A	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	66	20	2155	66886	25.31	25.39
		2A-7A-7A	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	7	20	2655	3100	25.29	25.39
		2A-7A-12A	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	25.31	25.39
		2A-7C	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	7	20	2674.8	3298	25.31	25.39
		2A-12A-30A	2	20	1880	18900	QPSK	1	0	12	10	737.5	5095	30	10	2355	9820	25.29	25.39
		2A-12A-66A	2	20	1880	18900	QPSK	1	0	12	10	737.5	5095	66	20	2155	66886	25.26	25.39
		2A-12B	2	20	1880	18900	QPSK	1	0	12	10	737.5	5095	12	5	744.7	5167	25.24	25.39
		2A-29A-30A	2	20	1880	18900	QPSK	1	0	29	10	722.5	9715	30	10	2355	9820	25.30	25.39
		2A-30A-66A	2	20	1880	18900	QPSK	1	0	30	10	2355	9820	66	20	2155	66886	25.27	25.39
		2A-66A-66A	2	20	1880	18900	QPSK	1	0	66	20	2155	66886	66	20	2155	66886	25.23	25.39
		2A-66A-71A	2	20	1880	18900	QPSK	1	0	66	20	2155	66886	71	20	637	68786	25.26	25.39
		2A-66C	2	20	1880	18900	QPSK	1	0	66	20	2155	66886	66	20	2164.8	66984	25.18	25.39
		2C-66A	2	20	1880	18900	QPSK	1	0	2	20	1979.8	1098	66	20	2155	66886	25.22	25.39
		4A-4A-5A	4	20	1720	20050	QPSK	1	49	4	20	2132.5	2175	5	10	881.5	2525	23.91	24.07
		4A-4A-7A	4	20	1720	20050	QPSK	1	49	4	20	2132.5	2175	7	20	2655	3100	23.85	24.07
		4A-4A-12A	4	20	1720	20050	QPSK	1	49	4	20	2132.5	2175	12	10	737.5	5095	23.81	24.07
		4A-4A-71A	4	20	1720	20050	QPSK	1	49	4	20	2132.5	2175	71	20	637	68786	23.86	24.07
		4A-5A-30A	4	20	1720	20050	QPSK	1	49	5	10	881.5	2525	30	10	2355	9820	23.79	24.07
		4A-7A-12A	4	20	1720	20050	QPSK	1	49	7	20	2655	3100	12	10	737.5	5095	23.82	24.07
		4A-12A-30A	4	20	1720	20050	QPSK	1	49	12	10	737.5	5095	30	10	2355	9820	23.99	24.07
		4A-12B	4	20	1720	20050	QPSK	1	49	12	10	737.5	5095	12	5	744.7	5167	23.77	24.07
		4A-29A-30A	4	20	1720	20050	QPSK	1	49	4	20	2132.5	2175	5	10	881.5	2525	23.86	24.07
		5A-2A-66A	5	10	836.5	20525	QPSK	1	0	2	20	1960	900	66	20	2155	66886	24.42	24.65
		5A-30A-66A	5	10	836.5	20525	QPSK	1	0	30	10	2355	9820	66	20	2155	66886	24.37	24.65
		5A-66C	5	10	836.5	20525	QPSK	1	0	66	20	2155	66886	66	20	2164.8	66984	24.33	24.65
		12A-30A-66A	12	10	704	23060	QPSK	1	0	30	10	2355	9820	66	20	2155	66886	24.35	24.73
		12A-66A-66A	12	10	704	23060	QPSK	1	0	66	20	2155	66886	66	20	2155	66886	24.47	24.73
		12A-66C	12	10	704	23060	QPSK	1	0	66	20	2155	66886	66	20	2164.8	66984	24.56	24.73
		14A-30A-66A	14	10	793	23330	QPSK	1	0	30	10	2355	9820	66	20	2155	66886	23.81	24.07
		14A-66A-66A	14	10	793	23330	QPSK	1	0	66	20	2155	66886	66	20	2155	66886	23.79	24.07
		25A-25A-26A	25	20	1880	26340	QPSK	1	0	25	20	1960	8340	26	15	876.5	8865	25.17	25.35
		30A-66A-66A	30	10	2310	27710	QPSK	1	49	66	20	2155	66886	66	20	2155	66886	24.55	24.73
		66A-66A-71A	66	20	1745	132322	QPSK	1	0	66	20	2155	66886	71	20	637	68786	24.29	24.46
		66C-71A	66	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	71	20	637	68786	24.27	24.46
Intra-Band	Non-Contiguous	41A-41C	41	20	2593	40620	QPSK	1	99	41	20	2549.5	40185	41	20	2612.8	40818	24.27	24.55
		66A-66C	66	20	1720	132072	QPSK	1	0	66	20	2150.2	66838	66	20	2164.8	66984	24.33	24.46
	Contiguous	41D	41	20	2593	40620	QPSK	1	99	41	20	2549.5	40185	41	20	2612.8	40818	24.11	24.55

14. WWAN OFF & WWAN ON WLAN Conducted Power

General Note:

1. For each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
2. 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 < 1.6W/kg and SAR peak to location ratio ≤ 0.04, no additional SAR measurements for MIMO.
3. 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.
4. 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).
5. 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.
6. 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 ≤ 0.4 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 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 ≤ 0.8 W/kg or all required test position are tested.
   c. 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.

<2.4GHz WLAN>

Power Selection				Head			Head			Head						
Transmit Antenna				Ant 0			Ant 1			Ant 0+1						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 0 Average power (dBm)	Ant 0 Tune-Up Limit	Ant 1 Average power (dBm)	Ant 1 Tune-Up Limit	Ant 0+1 Average power (dBm)	Ant 0+1 Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	14.20	14.50	99.23	14.10	14.50	99.03	15.40	15.50	15.30	15.50	18.36	18.50	99.15
		6	2437	14.40	14.50		14.50	14.50		15.30	15.50	15.40	15.50	18.36	18.50	
		11	2462	14.50	14.50		14.30	14.50		15.20	15.50	15.30	15.50	18.26	18.50	
		12	2467	14.30	14.50		14.20	14.50		14.20	14.50	14.30	14.50	17.38	17.50	
		13	2472	5.80	6.00		5.80	6.00		5.80	6.00	5.70	6.00	8.33	9.00	
	802.11g 6Mbps	1	2412	14.33	14.50	98.35	14.11	14.50	98.35	15.31	15.50	15.25	15.50	18.10	18.50	98.11
		6	2437	14.36	14.50		14.21	14.50		15.35	15.50	15.20	15.50	18.20	18.50	
		11	2462	14.40	14.50		14.35	14.50		15.25	15.50	15.20	15.50	18.16	18.50	
		12	2467	14.46	14.50		14.37	14.50		14.20	14.50	14.31	14.50	17.21	17.50	
		13	2472	5.60	6.00		5.70	6.00		5.80	6.00	5.70	6.00	8.45	9.00	
	802.11n-HT20 MCS0	1	2412	14.30	14.50	98.22	14.39	14.50	98.22	15.21	15.50	15.25	15.50	18.20	18.50	98.22
		6	2437	14.20	14.50		14.35	14.50		15.20	15.50	15.21	15.50	18.31	18.50	
		11	2462	14.35	14.50		14.40	14.50		15.11	15.50	15.31	15.50	18.27	18.50	
		12	2467	14.40	14.50		14.35	14.50		14.31	14.50	14.25	14.50	17.25	17.50	
		13	2472	4.80	5.00		4.80	5.00		4.80	5.00	4.70	5.00	7.52	8.00	
	802.11ac-VHT20 MCS0	1	2412	14.31	14.50	98.23	14.41	14.50	98.23	15.35	15.50	15.20	15.50	18.20	18.50	98.23
		6	2437	14.35	14.50		14.38	14.50		15.30	15.50	15.40	15.50	18.36	18.50	
		11	2462	14.38	14.50		14.36	14.50		15.31	15.50	15.25	15.50	18.10	18.50	
		12	2467	14.20	14.50		14.30	14.50		14.30	14.50	14.20	14.50	17.09	17.50	
		13	2472	4.70	5.00		4.70	5.00		4.70	5.00	4.60	5.00	7.53	8.00	

Power Selection				Hotspot / Body-worn / Product Specific			Hotspot / Body-worn / Product Specific			Hotspot / Body-worn / Product Specific						
Transmit Antenna				Ant 0			Ant 1			Ant 0+1						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 0 Average power (dBm)	Ant 0 Tune-Up Limit	Ant 1 Average power (dBm)	Ant 1 Tune-Up Limit	Ant 0+1 Average power (dBm)	Ant 0+1 Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	17.80	18.00	99.23	18.00	18.00	99.03	17.80	18.00	18.00	18.00	20.91	21.00	99.15
		6	2437	17.60	18.00		17.70	18.00		17.60	18.00	17.80	18.00	20.71	21.00	
		11	2462	17.60	18.00		17.80	18.00		17.80	18.00	18.00	18.00	20.96	21.00	
		12	2467	14.20	14.50		14.10	14.50		14.20	14.50	14.30	14.50	17.26	17.50	
		13	2472	5.80	6.00		5.20	6.00		5.80	6.00	5.60	6.00	8.71	9.00	
	802.11g 6Mbps	1	2412	17.49	18.00	98.35	17.47	18.00	98.35	17.68	18.00	17.59	18.00	20.65	21.00	98.11
		6	2437	17.59	18.00		17.57	18.00		17.66	18.00	17.63	18.00	20.66	21.00	
		11	2462	17.70	18.00		17.30	18.00		17.80	18.00	17.70	18.00	20.76	21.00	
		12	2467	14.30	14.50		14.30	14.50		14.30	14.50	14.20	14.50	17.26	17.50	
		13	2472	5.30	6.00		5.60	6.00		5.80	6.00	5.60	6.00	8.71	9.00	
	802.11n-HT20 MCS0	1	2412	17.53	18.00	98.22	17.57	18.00	98.22	17.53	18.00	17.63	18.00	20.59	21.00	98.22
		6	2437	17.48	18.00		17.49	18.00		17.33	18.00	17.70	18.00	20.53	21.00	
		11	2462	17.60	18.00		17.50	18.00		17.60	18.00	17.70	18.00	20.66	21.00	
		12	2467	14.20	14.50		14.20	14.50		14.30	14.50	14.20	14.50	17.26	17.50	
		13	2472	4.80	5.00		4.80	5.00		4.60	5.00	4.80	5.00	7.71	8.00	
	802.11ac-VHT20 MCS0	1	2412	17.51	18.00	98.23	17.46	18.00	98.23	17.33	18.00	17.70	18.00	20.53	21.00	98.23
		6	2437	17.48	18.00		17.52	18.00		17.53	18.00	17.63	18.00	20.59	21.00	
		11	2462	17.60	18.00		17.80	18.00		17.60	18.00	17.80	18.00	20.71	21.00	
		12	2467	14.10	14.50		14.30	14.50		14.20	14.50	14.30	14.50	17.26	17.50	
		13	2472	4.60	5.00		4.50	5.00		4.80	5.00	4.70	5.00	7.76	8.00	

<5GHz WLAN>

Power Selection				Head			Head			Head						
Transmit Antenna				Ant 0			Ant 1			Ant 0+1						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 0 Average power (dBm)	Ant 0 Tune-Up Limit	Ant 1 Average power (dBm)	Ant 1 Tune-Up Limit	Ant 0+1 Average power (dBm)	Ant 0+1 Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	11.13	11.50	98.35	11.77	12.00	98.35	10.66	11.00	10.72	11.00	13.76	14.00	98.11
		40	5200	11.25	11.50		11.66	12.00		10.72	11.00	10.62	11.00	13.75	14.00	
		44	5220	11.35	11.50		11.60	12.00		10.68	11.00	10.55	11.00	13.74	14.00	
		48	5240	11.21	11.50		11.53	12.00		10.57	11.00	10.66	11.00	13.62	14.00	
	802.11n-HT20 MCS0	36	5180	11.35	11.50	98.22	11.44	12.00	98.22	10.49	11.00	10.82	11.00	13.59	14.00	98.22
		40	5200	11.41	11.50		11.62	12.00		10.63	11.00	10.73	11.00	13.64	14.00	
		44	5220	11.35	11.50		11.72	12.00		10.82	11.00	10.47	11.00	13.55	14.00	
		48	5240	11.25	11.50		11.53	12.00		10.72	11.00	10.56	11.00	13.49	14.00	
	802.11n-HT40 MCS0	38	5190	11.31	11.50	95.94	11.47	12.00	95.94	10.65	11.00	10.72	11.00	13.76	14.00	95.94
		46	5230	11.22	11.50		11.39	12.00		10.91	11.00	10.68	11.00	13.92	14.00	
	802.11ac-VHT20 MCS0	36	5180	11.41	11.50	98.23	11.57	12.00	98.23	10.85	11.00	10.92	11.00	13.74	14.00	98.23
		40	5200	11.33	11.50		11.62	12.00		10.72	11.00	10.63	11.00	13.56	14.00	
		44	5220	11.23	11.50		11.59	12.00		10.62	11.00	10.49	11.00	13.62	14.00	
		48	5240	11.15	11.50		11.60	12.00		10.73	11.00	10.52	11.00	13.59	14.00	
	802.11ac-VHT40 MCS0	38	5190	11.09	11.50	95.48	11.65	12.00	95.48	10.88	11.00	10.63	11.00	13.62	14.00	95.48
		46	5230	11.05	11.50		11.72	12.00		10.58	11.00	10.74	11.00	13.72	14.00	
	802.11ac-VHT80 MCS0	42	5210	11.10	11.50	92.31	11.80	12.00	92.68	11.00	11.00	10.60	11.00	13.81	14.00	92.68

Power Selection				Hotspot / Body-worn / Product Specific			Hotspot / Body-worn / Product Specific			Hotspot / Body-worn / Product Specific						
Transmit Antenna				Ant 0			Ant 1			Ant 0+1						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 0 Average power (dBm)	Ant 0 Tune-Up Limit	Ant 1 Average power (dBm)	Ant 1 Tune-Up Limit	Ant 0+1 Average power (dBm)	Ant 0+1 Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	17.20	17.50	98.35	17.10	17.50	98.35	17.40	17.50	17.00	17.50	20.21	20.50	98.11
		40	5200	17.30	17.50		17.20	17.50		17.40	17.50	17.20	17.50	20.31	20.50	
		44	5220	17.40	17.50		17.20	17.50		17.40	17.50	17.20	17.50	20.31	20.50	
		48	5240	17.20	17.50		17.30	17.50		17.40	17.50	17.20	17.50	20.31	20.50	
	802.11n-HT20 MCS0	36	5180	17.40	17.50	98.22	17.20	17.50	98.22	17.40	17.50	17.00	17.50	20.21	20.50	98.22
		40	5200	17.30	17.50		17.20	17.50		17.50	17.50	17.10	17.50	20.31	20.50	
		44	5220	17.20	17.50		17.20	17.50		17.50	17.50	17.10	17.50	20.31	20.50	
		48	5240	17.40	17.50		17.20	17.50		17.50	17.50	17.20	17.50	20.36	20.50	
	802.11n-HT40 MCS0	38	5190	12.90	13.00	95.94	12.90	13.00	95.94	12.80	13.00	12.70	13.00	15.76	16.00	95.94
		46	5230	17.40	17.50		17.20	17.50		17.40	17.50	17.10	17.50	20.26	20.50	
	802.11ac-VHT20 MCS0	36	5180	17.30	17.50	98.23	17.10	17.50	98.23	17.30	17.50	16.90	17.50	20.11	20.50	98.23
		40	5200	17.20	17.50		17.10	17.50		17.40	17.50	17.00	17.50	20.21	20.50	
		44	5220	17.10	17.50		17.10	17.50		17.40	17.50	17.00	17.50	20.21	20.50	
		48	5240	17.30	17.50		17.10	17.50		17.40	17.50	17.10	17.50	20.26	20.50	
	802.11ac-VHT40 MCS0	38	5190	12.80	13.00	95.48	12.80	13.00	95.48	12.70	13.00	12.60	13.00	15.66	16.00	95.48
		46	5230	17.30	17.50		17.10	17.50		17.30	17.50	17.00	17.50	20.16	20.50	
	802.11ac-VHT80 MCS0	42	5210	12.40	12.50	92.31	12.40	12.50	92.68	12.10	12.50	12.30	12.50	15.21	15.50	92.68

Power Selection				Head			Head			Head						
Transmit Antenna				Ant 0			Ant 1			Ant 0+1						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 0 Average power (dBm)	Ant 0 Tune-Up Limit	Ant 1 Average power (dBm)	Ant 1 Tune-Up Limit	Ant 0+1 Average power (dBm)	Ant 0+1 Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	11.11	11.50	98.35	11.67	12.00	98.35	10.82	11.00	10.92	11.00	13.74	14.00	98.11
		56	5280	11.23	11.50		11.59	12.00		10.77	11.00	10.93	11.00	13.66	14.00	
		60	5300	11.35	11.50		11.72	12.00		10.53	11.00	10.54	11.00	13.55	14.00	
		64	5320	11.42	11.50		11.82	12.00		10.42	11.00	10.62	11.00	13.75	14.00	
	802.11n-HT20 MCS0	52	5260	11.27	11.50	98.22	11.53	12.00	98.22	10.76	11.00	10.73	11.00	13.82	14.00	98.22
		56	5280	11.35	11.50		11.42	12.00		10.83	11.00	10.59	11.00	13.92	14.00	
		60	5300	11.31	11.50		11.62	12.00		10.85	11.00	10.77	11.00	13.88	14.00	
		64	5320	11.25	11.50		11.57	12.00		10.87	11.00	10.82	11.00	13.85	14.00	
	802.11n-HT40 MCS0	54	5270	11.29	11.50	95.94	11.62	12.00	95.94	10.67	11.00	10.79	11.00	13.75	14.00	95.94
		62	5310	11.35	11.50		11.55	12.00		10.77	11.00	10.85	11.00	13.65	14.00	
	802.11ac-VHT20 MCS0	52	5260	11.27	11.50	98.23	11.72	12.00	98.23	10.57	11.00	10.68	11.00	13.65	14.00	98.23
		56	5280	11.35	11.50		11.76	12.00		10.59	11.00	10.76	11.00	13.82	14.00	
		60	5300	11.42	11.50		11.67	12.00		10.61	11.00	10.48	11.00	13.57	14.00	
		64	5320	11.35	11.50		11.85	12.00		10.61	11.00	10.59	11.00	13.66	14.00	
	802.11ac-VHT40 MCS0	54	5270	11.44	11.50	95.48	11.91	12.00	95.48	10.72	11.00	10.66	11.00	13.72	14.00	95.48
		62	5310	11.01	11.50		11.69	12.00		10.66	11.00	10.72	11.00	13.80	14.00	
	802.11ac-VHT80 MCS0	58	5290	11.00	11.50	92.31	11.70	12.00	92.68	10.90	11.00	10.90	11.00	13.91	14.00	92.68

Power Selection				Hotspot / Body-worn / Product Specific			Hotspot / Body-worn / Product Specific			Hotspot / Body-worn / Product Specific						
Transmit Antenna				Ant 0			Ant 1			Ant 0+1						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 0 Average power (dBm)	Ant 0 Tune-Up Limit	Ant 1 Average power (dBm)	Ant 1 Tune-Up Limit	Ant 0+1 Average power (dBm)	Ant 0+1 Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	17.40	17.50	98.35	17.40	17.50	98.35	17.50	17.50	17.40	17.50	20.46	20.50	98.11
		56	5280	17.30	17.50		17.20	17.50		17.50	17.50	17.20	17.50	20.36	20.50	
		60	5300	17.40	17.50		17.20	17.50		17.50	17.50	17.20	17.50	20.36	20.50	
		64	5320	17.10	17.50		17.20	17.50		17.50	17.50	17.20	17.50	20.36	20.50	
	802.11n-HT20 MCS0	52	5260	17.40	17.50	98.22	17.40	17.50	98.22	17.50	17.50	17.40	17.50	20.46	20.50	98.22
		56	5280	17.30	17.50		17.30	17.50		17.50	17.50	17.20	17.50	20.36	20.50	
		60	5300	17.40	17.50		17.20	17.50		17.50	17.50	17.20	17.50	20.36	20.50	
		64	5320	17.40	17.50		17.20	17.50		17.50	17.50	17.20	17.50	20.36	20.50	
	802.11n-HT40 MCS0	54	5270	17.30	17.50	95.94	17.20	17.50	95.94	17.40	17.50	17.40	17.50	20.41	20.50	95.94
		62	5310	13.70	14.00		13.90	14.00		13.50	14.00	13.80	14.00	16.66	17.00	
	802.11ac-VHT20 MCS0	52	5260	17.30	17.50	98.23	17.30	17.50	98.23	17.40	17.50	17.30	17.50	20.36	20.50	98.23
		56	5280	17.20	17.50		17.20	17.50		17.50	17.50	17.10	17.50	20.31	20.50	
		60	5300	17.30	17.50		17.10	17.50		17.40	17.50	17.10	17.50	20.26	20.50	
		64	5320	17.30	17.50		17.10	17.50		17.50	17.50	17.10	17.50	20.31	20.50	
	802.11ac-VHT40 MCS0	54	5270	17.20	17.50	95.48	17.10	17.50	95.48	17.30	17.50	17.30	17.50	20.31	20.50	95.48
		62	5310	13.60	14.00		13.80	14.00		13.40	14.00	13.70	14.00	16.56	17.00	
	802.11ac-VHT80 MCS0	58	5290	13.40	13.50	92.31	13.10	13.50	92.68	13.20	13.50	13.50	13.50	16.36	16.50	92.68

Power Selection				Head			Head			Head						
Transmit Antenna				Ant 0			Ant 1			Ant 0+1						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 0 Average power (dBm)	Ant 0 Tune-Up Limit	Ant 1 Average power (dBm)	Ant 1 Tune-Up Limit	Ant 0+1 Average power (dBm)	Ant 0+1 Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	11.25	11.50	98.35	13.30	13.50	98.35	10.66	11.00	10.82	11.00	13.49	14.00	98.11
		116	5580	11.35	11.50		13.25	13.50		10.92	11.00	10.73	11.00	13.47	14.00	
		124	5620	11.32	11.50		13.41	13.50		10.73	11.00	10.64	11.00	13.44	14.00	
		132	5660	11.34	11.50		13.29	13.50		10.85	11.00	10.59	11.00	13.45	14.00	
		144	5720	11.25	11.50		13.44	13.50		10.59	11.00	10.85	11.00	13.72	14.00	
	802.11n-HT20 MCS0	100	5500	11.27	11.50	98.22	13.35	13.50	98.22	10.63	11.00	10.75	11.00	13.65	14.00	98.22
		116	5580	11.15	11.50		13.29	13.50		10.57	11.00	10.86	11.00	13.49	14.00	
		124	5620	11.25	11.50		13.25	13.50		10.42	11.00	10.82	11.00	13.44	14.00	
		132	5660	11.35	11.50		13.11	13.50		10.67	11.00	10.61	11.00	13.29	14.00	
		144	5720	11.22	11.50		13.42	13.50		10.85	11.00	10.62	11.00	13.47	14.00	
	802.11n-HT40 MCS0	102	5510	11.37	11.50	95.94	13.25	13.50	95.94	10.76	11.00	10.59	11.00	13.65	14.00	95.94
		110	5550	11.35	11.50		13.16	13.50		10.59	11.00	10.56	11.00	13.72	14.00	
		126	5630	11.42	11.50		13.11	13.50		10.62	11.00	10.73	11.00	13.75	14.00	
		134	5670	11.41	11.50		13.21	13.50		10.74	11.00	10.49	11.00	13.44	14.00	
		142	5710	11.39	11.50		13.29	13.50		10.83	11.00	10.58	11.00	13.53	14.00	
	802.11ac-VHT20 MCS0	100	5500	11.32	11.50	98.23	13.27	13.50	98.23	10.77	11.00	10.49	11.00	13.62	14.00	98.23
		116	5580	11.29	11.50		13.25	13.50		10.65	11.00	10.62	11.00	13.59	14.00	
		124	5620	11.25	11.50		13.14	13.50		10.72	11.00	10.73	11.00	13.47	14.00	
		132	5660	11.44	11.50		13.15	13.50		10.30	11.00	10.66	11.00	13.62	14.00	
		144	5720	11.26	11.50		13.18	13.50		10.50	11.00	10.40	11.00	13.73	14.00	
	802.11ac-VHT40 MCS0	102	5510	11.35	11.50	95.48	13.29	13.50	95.48	10.62	11.00	10.35	11.00	13.57	14.00	95.48
		110	5550	11.25	11.50		13.35	13.50		10.73	11.00	10.29	11.00	13.62	14.00	
		126	5630	11.35	11.50		13.27	13.50		10.80	11.00	10.30	11.00	13.66	14.00	
		134	5670	11.29	11.50		13.18	13.50		10.91	11.00	10.25	11.00	13.78	14.00	
		142	5710	11.26	11.50		13.25	13.50		10.66	11.00	10.39	11.00	13.82	14.00	
	802.11ac-VHT80 MCS0	106	5530	11.30	11.50	92.31	13.30	13.50	92.68	10.70	11.00	10.40	11.00	13.56	14.00	92.68
		122	5610	11.20	11.50		13.40	13.50		10.60	11.00	10.60	11.00	13.61	14.00	
		138	5690	11.20	11.50		13.10	13.50		10.60	11.00	10.70	11.00	13.66	14.00	

Power Selection				Hotspot / Body-worn / Product Specific			Hotspot / Body-worn / Product Specific			Hotspot / Body-worn / Product Specific						
Transmit Antenna				Ant 0			Ant 1			Ant 0+1						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 0 Average power (dBm)	Ant 0 Tune-Up Limit	Ant 1 Average power (dBm)	Ant 1 Tune-Up Limit	Ant 0+1 Average power (dBm)	Ant 0+1 Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	17.10	17.50	98.35	17.40	17.50	98.35	17.50	17.50	17.40	17.50	20.46	20.50	98.11
		116	5580	17.10	17.50		17.20	17.50		17.50	17.50	16.60	17.50	20.08	20.50	
		124	5620	17.10	17.50		17.20	17.50		17.50	17.50	16.90	17.50	20.22	20.50	
		132	5660	17.20	17.50		17.30	17.50		17.50	17.50	16.90	17.50	20.22	20.50	
		144	5720	17.40	17.50		17.40	17.50		17.50	17.50	16.90	17.50	20.22	20.50	
	802.11n-HT20 MCS0	100	5500	17.40	17.50	98.22	17.30	17.50	98.22	17.40	17.50	17.40	17.50	20.41	20.50	98.22
		116	5580	17.40	17.50		17.20	17.50		17.40	17.50	17.00	17.50	20.21	20.50	
		124	5620	17.30	17.50		17.20	17.50		17.40	17.50	16.80	17.50	20.34	20.50	
		132	5660	17.20	17.50		17.20	17.50		17.40	17.50	17.40	17.50	20.41	20.50	
		144	5720	17.20	17.50		17.30	17.50		17.40	17.50	16.80	17.50	20.12	20.50	
	802.11n-HT40 MCS0	102	5510	13.30	13.50	95.94	13.40	13.50	95.94	13.50	13.50	13.10	13.50	16.31	16.50	95.94
		110	5550	17.40	17.50		17.30	17.50		17.50	17.50	16.90	17.50	20.22	20.50	
		126	5630	17.20	17.50		17.40	17.50		17.30	17.50	17.40	17.50	20.37	20.50	
		134	5670	17.20	17.50		17.40	17.50		17.50	17.50	17.00	17.50	20.27	20.50	
		142	5710	17.40	17.50		17.30	17.50		17.50	17.50	16.90	17.50	20.22	20.50	
	802.11ac-VHT20 MCS0	100	5500	17.30	17.50	98.23	17.20	17.50	98.23	17.30	17.50	17.30	17.50	20.31	20.50	98.23
		116	5580	17.30	17.50		17.10	17.50		17.30	17.50	16.90	17.50	20.11	20.50	
		124	5620	17.20	17.50		17.10	17.50		17.30	17.50	16.70	17.50	20.02	20.50	
		132	5660	17.10	17.50		17.10	17.50		17.30	17.50	17.10	17.50	20.31	20.50	
		144	5720	17.10	17.50		17.20	17.50		17.30	17.50	16.70	17.50	20.02	20.50	
	802.11ac-VHT40 MCS0	102	5510	13.20	13.50	95.48	13.30	13.50	95.48	13.40	13.50	13.00	13.50	16.21	16.50	95.48
		110	5550	17.30	17.50		17.20	17.50		17.40	17.50	16.80	17.50	20.12	20.50	
		126	5630	17.10	17.50		17.30	17.50		17.40	17.50	16.90	17.50	20.17	20.50	
		134	5670	17.10	17.50		17.30	17.50		17.40	17.50	16.90	17.50	20.17	20.50	
		142	5710	17.30	17.50		17.20	17.50		17.40	17.50	16.80	17.50	20.12	20.50	
	802.11ac-VHT80 MCS0	106	5530	13.20	13.50	92.31	13.10	13.50	92.68	12.90	13.50	13.30	13.50	16.11	16.50	92.68
		122	5610	17.40	17.50		17.30	17.50		17.30	17.50	17.40	17.50	20.36	20.50	
		138	5690	17.50	17.50		17.40	17.50		17.30	17.50	17.50	17.50	20.41	20.50	

Power Selection				Head			Head			Head						
Transmit Antenna				Ant 0			Ant 1			Ant 0+1						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 0 Average power (dBm)	Ant 0 Tune-Up Limit	Ant 1 Average power (dBm)	Ant 1 Tune-Up Limit	Ant 0+1 Average power (dBm)	Ant 0+1 Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a MCS0	149	5745	11.35	11.50	98.35	11.42	12.00	98.35	10.42	11.00	10.55	11.00	13.72	14.00	98.11
		157	5785	11.41	11.50		11.56	12.00		10.49	11.00	10.59	11.00	13.65	14.00	
		165	5825	11.20	11.50		11.77	12.00		10.45	11.00	10.61	11.00	13.69	14.00	
	802.11n-HT20 MCS0	149	5745	11.35	11.50	98.22	11.62	12.00	98.22	10.47	11.00	10.73	11.00	13.57	14.00	98.22
		157	5785	11.40	11.50		11.55	12.00		10.77	11.00	10.81	11.00	13.62	14.00	
		165	5825	11.37	11.50		11.49	12.00		10.56	11.00	10.85	11.00	13.44	14.00	
	802.11n-HT40 MCS0	151	5755	11.45	11.50	95.94	11.85	12.00	95.94	10.64	11.00	10.64	11.00	13.61	14.00	95.94
		159	5795	11.29	11.50		11.59	12.00		10.61	11.00	10.77	11.00	13.62	14.00	
	802.11ac-VHT20 MCS0	149	5745	11.35	11.50	98.23	11.62	12.00	98.23	10.58	11.00	10.66	11.00	13.57	14.00	98.23
		157	5785	11.25	11.50		11.73	12.00		10.62	11.00	10.57	11.00	13.55	14.00	
		165	5825	11.20	11.50		11.87	12.00		10.46	11.00	10.62	11.00	13.47	14.00	
	802.11ac-VHT40 MCS0	151	5755	11.19	11.50	95.48	11.64	12.00	95.48	10.45	11.00	10.79	11.00	13.41	14.00	95.48
		159	5795	11.35	11.50		11.66	12.00		10.49	11.00	10.77	11.00	13.59	14.00	
	802.11ac-VHT80 MCS0	155	5775	11.20	11.50	92.31	11.70	12.00	92.68	10.50	11.00	10.80	11.00	13.66	14.00	92.68

Power Selection				Hotspot / Body-worn / Product Specific			Hotspot / Body-worn / Product Specific			Hotspot / Body-worn / Product Specific						
Transmit Antenna				Ant 0			Ant 1			Ant 0+1						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 0 Average power (dBm)	Ant 0 Tune-Up Limit	Ant 1 Average power (dBm)	Ant 1 Tune-Up Limit	Ant 0+1 Average power (dBm)	Ant 0+1 Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a MCS0	149	5745	17.10	17.50		17.30	17.50		17.50	17.50	16.90	17.50	20.22	20.50	
		157	5785	17.10	17.50	98.35	17.40	17.50	98.35	17.50	17.50	16.50	17.50	20.04	20.50	98.11
		165	5825	17.40	17.50		17.20	17.50		17.50	17.50	16.70	17.50	20.13	20.50	
	802.11n-HT20 MCS0	149	5745	17.40	17.50		17.30	17.50		17.50	17.50	16.80	17.50	20.17	20.50	
		157	5785	17.40	17.50	98.22	17.30	17.50	98.22	17.50	17.50	16.50	17.50	20.04	20.50	98.22
		165	5825	17.40	17.50		17.40	17.50		17.40	17.50	16.90	17.50	20.17	20.50	
	802.11n-HT40 MCS0	151	5755	17.30	17.50	95.94	17.40	17.50	95.94	17.50	17.50	17.00	17.50	20.27	20.50	95.94
		159	5795	17.20	17.50		17.20	17.50		17.50	17.50	16.70	17.50	20.13	20.50	
	802.11ac-VHT20 MCS0	149	5745	17.30	17.50		17.20	17.50		17.40	17.50	16.70	17.50	20.07	20.50	
		157	5785	17.30	17.50	98.23	17.20	17.50	98.23	17.40	17.50	16.50	17.50	19.98	20.50	98.23
		165	5825	17.30	17.50		17.30	17.50		17.30	17.50	16.80	17.50	20.07	20.50	
	802.11ac-VHT40 MCS0	151	5755	17.20	17.50	95.48	17.30	17.50	95.48	17.40	17.50	16.90	17.50	20.17	20.50	95.48
		159	5795	17.10	17.50		17.10	17.50		17.40	17.50	16.60	17.50	20.03	20.50	
	802.11ac-VHT80 MCS0	155	5775	17.30	17.50	92.31	17.40	17.50	92.68	17.40	17.50	16.90	17.50	20.17	20.50	92.68

15. Bluetooth Conduect Power

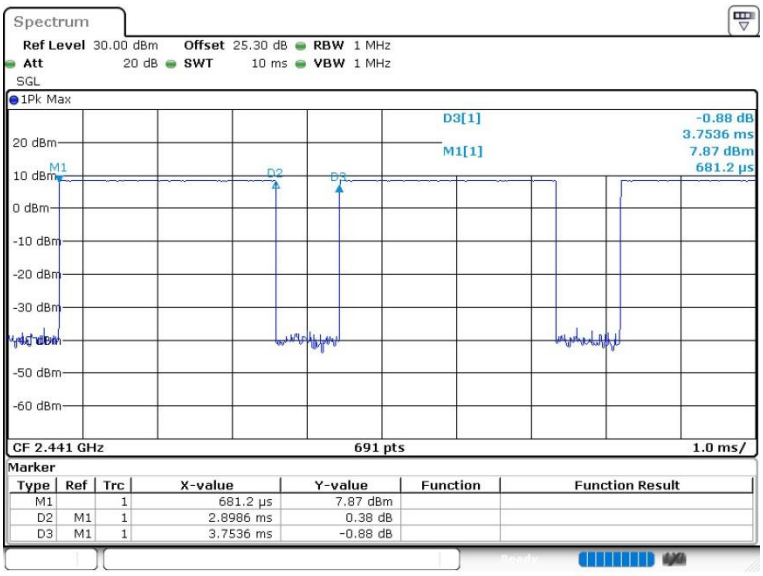
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.98	12.99	12.98
	CH 39	2441	17.83	12.83	12.87
	CH 78	2480	17.12	12.08	12.15
Tune-up Limit			18	13	13

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE 4.0	CH 00	2402	10.00
	CH 19	2440	9.60
	CH 39	2480	9.60
Tune-up Limit			10

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE 5.0	CH 00	2402	9.29	9.29
	CH 19	2440	9.26	9.17
	CH 39	2480	9.23	9.05
Tune-up Limit			10	10

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and the duty cycle is 77.22% considered in SAR testing.



16. RF Exposure position consideration

Positions for SAR tests; Hotspot mode						
Antennas	Front	Back	Top Side	Bottom Side	Right Side	Left Side
WWAN Ant 0	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 1	Yes	Yes	Yes	No	No	Yes
WWAN Ant 2	Yes	Yes	No	Yes	Yes	No
WWAN Ant 3	Yes	Yes	Yes	No	No	Yes
WLAN/BT Ant 0	Yes	Yes	Yes	No	Yes	No
WLAN Ant 1	Yes	Yes	Yes	No	Yes	No

General Note:

1. Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm*5cm, 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
2. The detail antenna location refers to operational description.

17. 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 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/BT: 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 ≥0.8W/kg.
4. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. Per KDB 648474 D04v01r03, for WWAN / 2.4GHz, 5.2GHz and 5.8GHz WLAN and Bluetooth hotspot SAR was < 1.2W/kg, therefore, the extremity SAR was not necessary evan the overall diagonal dimensioin is > 16cm. only 5.3GHz and 5.5GHz WLAN extremity is required.
6. In section 15.1 Head SAR, “WiFi on / WiFi off” means the same power limits apply to WiFi on or WiFi off in HEAD mode. WiFi off was used during SAR testing.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE / DTM 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 / DTM 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 ≤ ¼ 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 ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than ¼ 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 > not ½ 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 > not ½ 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 B12/38 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 2/5/4/17 SAR test was covered by Band 25/26/66/12; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
   a. The maximum output power, including tolerance, for the smaller band is ≤ 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 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not 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 closet/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. When in MIMO SAR testing, if the hot spots are separated the scaling factor would scale each hot spot based on the difference between the power for that transmit antenna and the maximum rated power, if the hot spot were not separable or too much overlap which the scaling factor is the worst case rated power/measured power across the two chains in SAR calculation.
6. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

17.1 Head SAR

<GSM SAR>

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_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	251	848.8	28.03	29.00	1.250	0.18	0.283	0.354
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	128	824.2	27.81	29.00	1.315	0.02	0.207	0.272
01	GSM850_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	189	836.4	27.82	29.00	1.312	0	0.276	0.362
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Tilted	0mm	251	848.8	28.03	29.00	1.250	-0.07	0.117	0.146
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	251	848.8	28.03	29.00	1.250	0.01	0.233	0.291
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Tilted	0mm	251	848.8	28.03	29.00	1.250	-0.04	0.114	0.143

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_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	512	1850.2	25.64	26.50	1.219	0.14	0.129	0.157
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	661	1880	25.52	26.50	1.253	0.11	0.136	0.170
02	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	810	1909.8	25.41	26.50	1.285	0.19	0.133	0.171
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Tilted	0mm	512	1850.2	25.64	26.50	1.219	0.11	0.061	0.074
	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	512	1850.2	25.64	26.50	1.219	-0.1	0.107	0.130
	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Tilted	0mm	512	1850.2	25.64	26.50	1.219	0.11	0.072	0.088

<WCDMA SAR>

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)
03	WCDMA II_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	9538	1907.6	25.58	25.70	1.028	0.08	0.344	0.354
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	9400	1880	25.41	25.70	1.069	-0.04	0.270	0.289
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	9262	1852.4	25.40	25.70	1.072	-0.04	0.245	0.263
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	9538	1907.6	25.58	25.70	1.028	0.01	0.147	0.151
	WCDMA II_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	9538	1907.6	25.58	25.70	1.028	-0.02	0.294	0.302
	WCDMA II_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	9538	1907.6	25.58	25.70	1.028	0.08	0.161	0.166

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_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	1312	1712.4	23.68	24.00	1.076	0.11	0.178	0.192
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	1312	1712.4	23.68	24.00	1.076	0.05	0.144	0.155
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	1312	1712.4	23.68	24.00	1.076	-0.01	0.194	0.209
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	1413	1732.6	23.64	24.00	1.086	0.04	0.202	0.219
04	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	1513	1752.6	23.55	24.00	1.109	0.03	0.214	0.237
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	1312	1712.4	23.68	24.00	1.076	0.08	0.117	0.126

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_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	4132	826.4	23.62	24.50	1.225	0	0.195	0.239
05	WCDMA V_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	4182	836.4	23.53	24.50	1.250	0.04	0.232	0.290
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	4233	846.6	23.39	24.50	1.291	0.05	0.199	0.257
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	4132	826.4	23.62	24.50	1.225	0.04	0.096	0.118
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	4132	826.4	23.62	24.50	1.225	-0.08	0.155	0.190
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	4132	826.4	23.62	24.50	1.225	-0.17	0.103	0.126

<CDMA SAR>

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)
06	CDMA2000 BC0_Ant 0	1xRTT RC3 SO55	Right Cheek	0mm	384	836.52	24.62	25.50	1.213	-0.04	0.268	0.325
	CDMA2000 BC0_Ant 0	1xRTT RC3 SO55	Right Cheek	0mm	1013	824.7	24.72	25.50	1.227	-0.07	0.249	0.306
	CDMA2000 BC0_Ant 0	1xRTT RC3 SO55	Right Cheek	0mm	777	848.31	24.64	25.50	1.262	-0.02	0.238	0.300
	CDMA2000 BC0_Ant 0	1xRTT RC3 SO55	Right Tilted	0mm	384	836.52	24.62	25.50	1.213	-0.05	0.129	0.157
	CDMA2000 BC0_Ant 0	1xRTT RC3 SO55	Left Cheek	0mm	384	836.52	24.62	25.50	1.213	0	0.197	0.239
	CDMA2000 BC0_Ant 0	1xRTT RC3 SO55	Left Tilted	0mm	384	836.52	24.62	25.50	1.213	-0.05	0.119	0.144

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)
	CDMA2000 BC1_Ant 0	RC3 SO55	Right Cheek	0mm	25	1851.25	25.00	25.00	1.000	0.03	0.198	0.198
	CDMA2000 BC1_Ant 0	RC3 SO55	Right Cheek	0mm	600	1880	24.99	25.00	1.002	-0.06	0.221	0.222
07	CDMA2000 BC1_Ant 0	RC3 SO55	Right Cheek	0mm	1175	1908.75	24.96	25.00	1.009	-0.14	0.283	0.286
	CDMA2000 BC1_Ant 0	RC3 SO55	Right Tilted	0mm	25	1851.25	25.00	25.00	1.000	0.01	0.101	0.101
	CDMA2000 BC1_Ant 0	RC3 SO55	Left Cheek	0mm	25	1851.25	25.00	25.00	1.000	-0.07	0.157	0.157
	CDMA2000 BC1_Ant 0	RC3 SO55	Left Tilted	0mm	25	1851.25	25.00	25.00	1.000	0.11	0.107	0.107

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	CDMA2000 BC10_Ant 0	1xRTT RC3 SO55	Right Cheek	0mm	580	820.5	24.58	25.50	1.236	-0.05	0.162	0.200
	CDMA2000 BC10_Ant 0	1xRTT RC3 SO55	Right Tilted	0mm	580	820.5	24.58	25.50	1.236	-0.04	0.078	0.096
	CDMA2000 BC10_Ant 0	1xRTT RC3 SO55	Left Cheek	0mm	580	820.5	24.58	25.50	1.236	-0.05	0.124	0.153
	CDMA2000 BC10_Ant 0	1xRTT RC3 SO55	Left Tilted	0mm	580	820.5	24.58	25.50	1.236	0.07	0.069	0.085

<FDD LTE SAR>

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_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	20850	2510	20.71	21.00	1.069	-0.16	0.364	0.389
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	21100	2535	20.51	21.00	1.119	0.17	0.303	0.339
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	21350	2560	20.44	21.00	1.138	0.02	0.309	0.352
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	20850	2510	20.38	21.00	1.153	0.13	0.312	0.360
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	20850	2510	20.71	21.00	1.069	0.04	0.076	0.081
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	20850	2510	20.38	21.00	1.153	0.03	0.065	0.075
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	20850	2510	20.71	21.00	1.069	0.16	0.163	0.174
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	20850	2510	20.38	21.00	1.153	0.07	0.156	0.180
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	20850	2510	20.71	21.00	1.069	0.09	0.107	0.114
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	20850	2510	20.38	21.00	1.153	0.16	0.090	0.104
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_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	20850	2510	24.03	24.50	1.114	-0.04	0.736	0.820
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	21100	2535	23.94	24.50	1.138	-0.13	0.667	0.759
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	21350	2560	23.82	24.50	1.169	-0.02	0.615	0.719
	LTE Band 7_Ant 2	20M	QPSK	50	50	Right Cheek	0mm	20850	2510	23.01	23.50	1.119	0.06	0.641	0.718
	LTE Band 7_Ant 2	20M	QPSK	100	0	Right Cheek	0mm	20850	2510	22.94	23.50	1.138	0.04	0.501	0.570
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	20850	2510	24.03	24.50	1.114	0.1	0.081	0.090
	LTE Band 7_Ant 2	20M	QPSK	50	50	Right Tilted	0mm	20850	2510	23.01	23.50	1.119	0.03	0.069	0.077
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	20850	2510	24.03	24.50	1.114	-0.02	0.372	0.415
	LTE Band 7_Ant 2	20M	QPSK	50	50	Left Cheek	0mm	20850	2510	23.01	23.50	1.119	-0.03	0.279	0.312
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	20850	2510	24.03	24.50	1.114	0.06	0.245	0.273
	LTE Band 7_Ant 2	20M	QPSK	50	50	Left Tilted	0mm	20850	2510	23.01	23.50	1.119	0.04	0.125	0.140

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_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	23095	707.5	24.70	25.70	1.259	-0.11	0.910	1.146
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	23095	707.5	23.75	24.70	1.245	-0.14	0.850	1.058
	LTE Band 12_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	23095	707.5	23.70	24.70	1.259	0.07	0.847	1.066
	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	23095	707.5	24.70	25.70	1.259	-0.05	0.856	1.078
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	23095	707.5	23.75	24.70	1.245	0.01	0.806	1.003
	LTE Band 12_Ant 1	10M	QPSK	50	0	Right Tilted	0mm	23095	707.5	23.70	24.70	1.259	0.03	0.796	1.002
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	23095	707.5	24.70	25.70	1.259	-0.11	0.410	0.516
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	23095	707.5	23.75	24.70	1.245	-0.04	0.347	0.432
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	23095	707.5	24.70	25.70	1.259	-0.12	0.336	0.423
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	23095	707.5	23.75	24.70	1.245	-0.13	0.275	0.342
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_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	23095	707.5	24.70	25.70	1.259	0.03	0.207	0.261
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	23095	707.5	23.75	24.70	1.245	0.03	0.187	0.233
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	23095	707.5	24.70	25.70	1.259	-0.06	0.136	0.171
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	23095	707.5	23.75	24.70	1.245	0.02	0.135	0.168
	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	23095	707.5	24.70	25.70	1.259	-0.14	0.201	0.253
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	23095	707.5	23.75	24.70	1.245	0.07	0.194	0.241
	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	23095	707.5	24.70	25.70	1.259	0.02	0.117	0.147
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	23095	707.5	23.75	24.70	1.245	0.02	0.111	0.138

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_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	23230	782	24.03	25.30	1.340	-0.13	0.227	0.304
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	23230	782	23.15	24.30	1.303	0.1	0.206	0.268
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	23230	782	24.03	25.30	1.340	-0.06	0.133	0.178
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	23230	782	23.15	24.30	1.303	-0.02	0.124	0.162
	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	23230	782	24.03	25.30	1.340	-0.19	0.189	0.253
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	23230	782	23.15	24.30	1.303	0.03	0.175	0.228
	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	23230	782	24.03	25.30	1.340	0.02	0.127	0.170
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	23230	782	23.15	24.30	1.303	0.04	0.121	0.158

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)
12	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	23330	793	24.19	25.50	1.352	0	0.236	0.319
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	23330	793	23.29	24.50	1.321	0.05	0.209	0.276
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	23330	793	24.19	25.50	1.352	0.03	0.147	0.199
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	23330	793	23.29	24.50	1.321	-0.08	0.128	0.169
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	23330	793	24.19	25.50	1.352	-0.18	0.211	0.285
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	23330	793	23.29	24.50	1.321	-0.06	0.184	0.243
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	23330	793	24.19	25.50	1.352	-0.02	0.140	0.189
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	23330	793	23.29	24.50	1.321	0.12	0.123	0.163

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 25_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	26340	1880	25.35	25.70	1.084	-0.07	0.275	0.298
	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	26140	1860	25.22	25.70	1.117	-0.07	0.199	0.222
13	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	26590	1905	25.17	25.70	1.130	0.01	0.282	0.319
	LTE Band 25_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	26340	1880	24.41	24.70	1.069	-0.04	0.224	0.239
	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	26340	1880	25.35	25.70	1.084	-0.09	0.086	0.093
	LTE Band 25_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	26340	1880	24.41	24.70	1.069	0.08	0.067	0.072
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	26340	1880	25.35	25.70	1.084	-0.02	0.195	0.211
	LTE Band 25_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	26340	1880	24.41	24.70	1.069	0.04	0.164	0.175
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	26340	1880	25.35	25.70	1.084	0.03	0.154	0.167
	LTE Band 25_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	26340	1880	24.41	24.70	1.069	0.08	0.132	0.141

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)
14	LTE Band 26_Ant 0	15M	QPSK	1	0	Right Cheek	0mm	26865	831.5	24.60	25.70	1.288	-0.02	0.225	0.290
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Cheek	0mm	26865	831.5	23.62	24.70	1.282	-0.13	0.159	0.204
	LTE Band 26_Ant 0	15M	QPSK	1	0	Right Tilted	0mm	26865	831.5	24.60	25.70	1.288	-0.02	0.100	0.129
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Tilted	0mm	26865	831.5	23.62	24.70	1.282	0	0.083	0.106
	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Cheek	0mm	26865	831.5	24.60	25.70	1.288	0.07	0.178	0.229
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Cheek	0mm	26865	831.5	23.62	24.70	1.282	-0.09	0.139	0.178
	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Tilted	0mm	26865	831.5	24.60	25.70	1.288	-0.01	0.093	0.120
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Tilted	0mm	26865	831.5	23.62	24.70	1.282	-0.1	0.076	0.097

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_Ant 2	10M	QPSK	1	49	Right Cheek	0mm	27710	2310	21.54	22.20	1.164	0.03	0.330	0.384
	LTE Band 30_Ant 2	10M	QPSK	25	12	Right Cheek	0mm	27710	2310	21.34	22.20	1.219	0.18	0.322	0.393
	LTE Band 30_Ant 2	10M	QPSK	1	49	Right Tilted	0mm	27710	2310	21.54	22.20	1.164	0.03	0.115	0.134
	LTE Band 30_Ant 2	10M	QPSK	25	12	Right Tilted	0mm	27710	2310	21.34	22.20	1.219	0.17	0.117	0.143
	LTE Band 30_Ant 2	10M	QPSK	1	49	Left Cheek	0mm	27710	2310	21.54	22.20	1.164	0.08	0.176	0.205
	LTE Band 30_Ant 2	10M	QPSK	25	12	Left Cheek	0mm	27710	2310	21.34	22.20	1.219	0.03	0.171	0.208
	LTE Band 30_Ant 2	10M	QPSK	1	49	Left Tilted	0mm	27710	2310	21.54	22.20	1.164	0.11	0.140	0.163
	LTE Band 30_Ant 2	10M	QPSK	25	12	Left Tilted	0mm	27710	2310	21.34	22.20	1.219	0.12	0.140	0.171
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)
15	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Cheek	0mm	27710	2310	24.76	25.70	1.242	0.02	0.736	0.914
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Cheek	0mm	27710	2310	23.78	24.70	1.236	0.15	0.580	0.717
	LTE Band 30_Ant 2	10M	QPSK	50	0	Right Cheek	0mm	27710	2310	23.74	24.70	1.247	0.05	0.638	0.796
	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Tilted	0mm	27710	2310	24.76	25.70	1.242	0.18	0.211	0.262
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Tilted	0mm	27710	2310	23.78	24.70	1.236	0.06	0.203	0.251
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Check	0mm	27710	2310	24.76	25.70	1.242	0.04	0.350	0.435
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Check	0mm	27710	2310	23.78	24.70	1.236	0.03	0.286	0.353
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Tilted	0mm	27710	2310	24.76	25.70	1.242	0.03	0.349	0.433
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Tilted	0mm	27710	2310	23.78	24.70	1.236	0.1	0.286	0.353

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_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	132322	1745	24.46	24.50	1.009	0.12	0.189	0.191
	LTE Band 66_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	132322	1745	23.22	23.50	1.067	0	0.150	0.160
	LTE Band 66_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	132322	1745	24.46	24.50	1.009	0.09	0.142	0.143
	LTE Band 66_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	132322	1745	23.22	23.50	1.067	0.07	0.098	0.105
16	LTE Band 66_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	132322	1745	24.46	24.50	1.009	0.01	0.215	0.217
	LTE Band 66_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	132072	1720	24.36	24.50	1.033	0.06	0.177	0.183
	LTE Band 66_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	132572	1770	24.46	24.50	1.009	0.02	0.207	0.209
	LTE Band 66_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	132322	1745	23.22	23.50	1.067	0	0.152	0.162
	LTE Band 66_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	132322	1745	24.46	24.50	1.009	0.19	0.105	0.106
	LTE Band 66_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	132322	1745	23.22	23.50	1.067	0.19	0.105	0.112

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)
17	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	133322	683	23.71	24.60	1.227	0.04	0.597	0.733
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	133322	683	22.67	23.60	1.239	-0.1	0.541	0.670
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	133322	683	23.71	24.60	1.227	0.02	0.550	0.675
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	133322	683	22.67	23.60	1.239	-0.17	0.444	0.550
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	133322	683	23.71	24.60	1.227	-0.04	0.246	0.302
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	133322	683	22.67	23.60	1.239	-0.08	0.202	0.250
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	133322	683	23.71	24.60	1.227	-0.16	0.219	0.269
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	133322	683	22.67	23.60	1.239	-0.17	0.178	0.221
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_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	133322	683	23.71	24.60	1.227	-0.1	0.076	0.093
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	133322	683	22.67	23.60	1.239	0.03	0.059	0.073
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	133322	683	23.71	24.60	1.227	-0.01	0.040	0.049
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	133322	683	22.67	23.60	1.239	0.04	0.032	0.040
	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	133322	683	23.71	24.60	1.227	-0.04	0.092	0.113
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	133322	683	22.67	23.60	1.239	0.02	0.063	0.078
	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	133322	683	23.71	24.60	1.227	0.08	0.042	0.052
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	133322	683	22.67	23.60	1.239	0.03	0.035	0.043

<TDD LTE SAR>

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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 38_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	38000	2595	24.08	24.70	1.153	62.9	1.006	0.13	0.437	0.507
	LTE Band 38_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	37850	2580	23.74	24.70	1.247	62.9	1.006	0.1	0.468	0.587
	LTE Band 38_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	38150	2610	23.97	24.70	1.183	62.9	1.006	0.06	0.450	0.536
	LTE Band 38_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	38000	2595	24.01	24.70	1.172	62.9	1.006	0.09	0.419	0.494
	LTE Band 38_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	38000	2595	24.08	24.70	1.153	62.9	1.006	0.1	0.101	0.117
	LTE Band 38_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	38000	2595	24.01	24.70	1.172	62.9	1.006	0.15	0.106	0.125
	LTE Band 38_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	38000	2595	24.08	24.70	1.153	62.9	1.006	0.03	0.274	0.318
	LTE Band 38_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	38000	2595	24.01	24.70	1.172	62.9	1.006	0.03	0.274	0.323
	LTE Band 38_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	38000	2595	24.08	24.70	1.153	62.9	1.006	0	0.180	0.209
	LTE Band 38_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	38000	2595	24.01	24.70	1.172	62.9	1.006	0.01	0.184	0.217
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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
18	LTE Band 38_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	38000	2595	23.99	25.70	1.483	62.9	1.006	0.1	0.586	0.874
	LTE Band 38_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	37850	2580	23.91	25.70	1.510	62.9	1.006	-0.08	0.567	0.861
	LTE Band 38_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	38150	2610	23.92	25.70	1.507	62.9	1.006	0.08	0.554	0.840
	LTE Band 38_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	38000	2595	22.91	24.70	1.510	62.9	1.006	0.14	0.456	0.693
	LTE Band 38_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	38000	2595	23.99	25.70	1.483	62.9	1.006	0.14	0.141	0.210
	LTE Band 38_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	38000	2595	22.91	24.70	1.510	62.9	1.006	0.1	0.113	0.172
	LTE Band 38_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	38000	2595	23.99	25.70	1.483	62.9	1.006	0.03	0.350	0.522
	LTE Band 38_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	38000	2595	22.91	24.70	1.510	62.9	1.006	0.01	0.276	0.419
	LTE Band 38_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	38000	2595	23.99	25.70	1.483	62.9	1.006	0.09	0.251	0.374
	LTE Band 38_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	38000	2595	22.91	24.70	1.510	62.9	1.006	0.04	0.195	0.296

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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	40620	2593	23.71	24.00	1.069	62.9	1.006	0.06	0.538	0.579
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	39750	2506	23.35	24.00	1.161	62.9	1.006	0.01	0.403	0.471
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	40185	2549.5	23.43	24.00	1.140	62.9	1.006	0.01	0.399	0.458
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	41055	2636.5	23.52	24.00	1.117	62.9	1.006	0.1	0.420	0.472
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	41490	2680	23.51	24.00	1.119	62.9	1.006	0.19	0.439	0.494
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	41490	2680	23.62	24.00	1.091	62.9	1.006	0.16	0.441	0.484
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	40620	2593	23.71	24.00	1.069	62.9	1.006	0.05	0.091	0.098
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	41490	2680	23.62	24.00	1.091	62.9	1.006	0.05	0.114	0.125
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	40620	2593	23.71	24.00	1.069	62.9	1.006	0	0.221	0.238
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	41490	2680	23.62	24.00	1.091	62.9	1.006	0.04	0.199	0.218
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	40620	2593	23.71	24.00	1.069	62.9	1.006	0.03	0.134	0.144
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	41490	2680	23.62	24.00	1.091	62.9	1.006	0.15	0.175	0.192
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	40620	2593	23.35	24.00	1.161	42.9	1.009	0.1	0.312	0.365
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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
19	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	40620	2593	23.71	25.00	1.346	62.9	1.006	0.06	0.538	0.728
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	39750	2506	23.35	25.00	1.462	62.9	1.006	0.01	0.403	0.593
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	40185	2549.5	23.43	25.00	1.435	62.9	1.006	0.01	0.399	0.576
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	41055	2636.5	23.52	25.00	1.406	62.9	1.006	0.1	0.420	0.594
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	41490	2680	23.51	25.00	1.409	62.9	1.006	0.19	0.439	0.622
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	41490	2680	23.62	25.00	1.374	62.9	1.006	0.16	0.441	0.610
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	40620	2593	23.71	25.00	1.346	62.9	1.006	0.05	0.091	0.123
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	41490	2680	23.62	25.00	1.374	62.9	1.006	0.05	0.114	0.158
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	40620	2593	23.71	25.00	1.346	62.9	1.006	0	0.221	0.299
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	41490	2680	23.62	25.00	1.374	62.9	1.006	0.04	0.199	0.275
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	40620	2593	23.71	25.00	1.346	62.9	1.006	0.03	0.134	0.181
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	41490	2680	23.62	25.00	1.374	62.9	1.006	0.15	0.175	0.242
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	40620	2593	25.87	26.50	1.156	42.9	1.009	0.1	0.553	0.645

<WLAN SAR>

WWAN OFF & 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 0	11	2462	14.50	14.50	1.000	99.23	1.008	-0.04	0.185	0.186
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 0	11	2462	14.50	14.50	1.000	99.23	1.008	-0.01	0.132	0.133
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 0	11	2462	14.50	14.50	1.000	99.23	1.008	-0.03	0.495	0.499
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 0	11	2462	14.50	14.50	1.000	99.23	1.008	0.09	0.288	0.290
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 1	6	2437	14.50	14.50	1.000	99.03	1.010	0.01	0.092	0.093
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 1	6	2437	14.50	14.50	1.000	99.03	1.010	-0.07	0.049	0.049
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 1	6	2437	14.50	14.50	1.000	99.03	1.010	0.19	0.353	0.357
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 1	6	2437	14.50	14.50	1.000	99.03	1.010	-0.06	0.096	0.097
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 0+1	6	2437	15.30	15.50	1.047	99.15	1.009	0	0.223	0.236
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 0+1	6	2437	15.30	15.50	1.047	99.15	1.009	0.08	0.195	0.206
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 0+1	6	2437	15.30	15.50	1.047	99.15	1.009	0.15	0.716	0.756
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 0+1	1	2412	15.30	15.50	1.047	99.15	1.009	-0.05	0.744	0.786
20	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 0+1	11	2462	15.20	15.50	1.072	99.15	1.009	0.02	0.776	0.839
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 0+1	6	2437	15.30	15.50	1.047	99.15	1.009	-0.05	0.257	0.272
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 0	58	5290	11.00	11.50	1.122	92.31	1.083	0	0.127	0.154
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 0	58	5290	11.00	11.50	1.122	92.31	1.083	0.17	0.156	0.190
21	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 0	58	5290	11.00	11.50	1.122	92.31	1.083	-0.18	0.195	0.237
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 0	58	5290	11.00	11.50	1.122	92.31	1.083	0.11	0.194	0.236
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 1	58	5290	11.70	12.00	1.072	92.68	1.079	0.12	0.053	0.061
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 1	58	5290	11.70	12.00	1.072	92.68	1.079	-0.05	0.060	0.069
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 1	58	5290	11.70	12.00	1.072	92.68	1.079	-0.05	0.099	0.114
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 1	58	5290	11.70	12.00	1.072	92.68	1.079	0	0.097	0.112
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 0+1	58	5290	10.90	11.00	1.023	92.68	1.079	0.14	0.136	0.150
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 0+1	58	5290	10.90	11.00	1.023	92.68	1.079	0.07	0.199	0.220
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 0+1	58	5290	10.90	11.00	1.023	92.68	1.079	-0.06	0.205	0.226
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 0+1	58	5290	10.90	11.00	1.023	92.68	1.079	-0.03	0.202	0.223
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 0	106	5530	11.30	11.50	1.047	92.31	1.083	0	0.135	0.153
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 0	106	5530	11.30	11.50	1.047	92.31	1.083	0.17	0.178	0.202
22	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 0	106	5530	11.30	11.50	1.047	92.31	1.083	0.18	0.198	0.225
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 0	138	5690	11.20	11.50	1.072	92.31	1.083	-0.07	0.172	0.200
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 0	122	5610	11.20	11.50	1.072	92.31	1.083	0.18	0.157	0.182
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 0	106	5530	11.30	11.50	1.047	92.31	1.083	-0.12	0.154	0.175
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 1	122	5610	13.40	13.50	1.023	92.68	1.079	0.11	0.043	0.047
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 1	122	5610	13.40	13.50	1.023	92.68	1.079	-0.13	0.071	0.078
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 1	122	5290	13.40	13.50	1.023	92.68	1.079	-0.05	0.099	0.109
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 1	122	5610	13.40	13.50	1.023	92.68	1.079	0	0.095	0.105
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 0+1	138	5690	10.60	11.00	1.096	92.68	1.079	0.09	0.098	0.116
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 0+1	138	5690	10.60	11.00	1.096	92.68	1.079	0.07	0.122	0.144
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 0+1	138	5690	10.60	11.00	1.096	92.68	1.079	0.1	0.140	0.166
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 0+1	138	5690	10.60	11.00	1.096	92.68	1.079	-0.02	0.167	0.198
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 0	155	5775	11.20	11.50	1.072	92.31	1.083	-0.03	0.116	0.135
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 0	155	5775	11.20	11.50	1.072	92.31	1.083	0.03	0.131	0.152
23	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 0	155	5775	11.20	11.50	1.072	92.31	1.083	-0.1	0.192	0.223
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 0	155	5775	11.20	11.50	1.072	92.31	1.083	-0.1	0.157	0.182
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 1	155	5775	11.70	12.00	1.072	92.68	1.079	-0.06	0.022	0.025
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 1	155	5775	11.70	12.00	1.072	92.68	1.079	-0.05	0.048	0.055
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 1	155	5775	11.70	12.00	1.072	92.68	1.079	0.05	0.054	0.062
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 1	155	5775	11.70	12.00	1.072	92.68	1.079	0.08	0.028	0.032
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 0+1	155	5775	10.50	11.00	1.122	92.68	1.079	0.09	0.102	0.123
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 0+1	155	5775	10.50	11.00	1.122	92.68	1.079	0.02	0.098	0.119
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 0+1	155	5775	10.50	11.00	1.122	92.68	1.079	-0.14	0.140	0.169
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 0+1	155	5775	10.50	11.00	1.122	92.68	1.079	-0.19	0.145	0.176

<Bluetooth SAR>

WWAN OFF & WWAN ON														
Plot No.	Band	Mode	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)
	Bluetooth	1Mbps	Right Cheek	0mm	0	2402	17.98	18.00	1.004	77.2	1.079	0.05	0.279	0.302
	Bluetooth	1Mbps	Right Tilted	0mm	0	2402	17.98	18.00	1.004	77.2	1.079	0.09	0.193	0.209
	Bluetooth	1Mbps	Left Cheek	0mm	0	2402	17.98	18.00	1.004	77.2	1.079	-0.12	0.684	0.741
	Bluetooth	1Mbps	Left Cheek	0mm	39	2441	17.83	18.00	1.039	77.2	1.079	0.02	0.572	0.641
24	Bluetooth	1Mbps	Left Cheek	0mm	78	2480	17.12	18.00	1.224	77.2	1.079	0	0.604	0.797
	Bluetooth	1Mbps	Left Tilted	0mm	0	2480	17.98	18.00	1.004	77.2	1.079	0	0.361	0.391

17.2 Hotspot SAR

<GSM SAR>

WiFif 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_Ant 1	GPRS (4 Tx slots)	Front	10mm	251	848.8	28.03	29.00	1.250	-0.08	0.517	0.646
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	251	848.8	28.03	29.00	1.250	-0.03	0.709	0.886
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	128	824.2	27.81	29.00	1.315	-0.06	0.624	0.821
25	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	189	824.2	27.82	29.00	1.312	0.08	0.710	0.932
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Side	10mm	251	848.8	28.03	29.00	1.250	-0.06	0.523	0.654
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Side	10mm	251	848.8	28.03	29.00	1.250	-0.1	0.376	0.470
	GSM850_Ant 1	GPRS (4 Tx slots)	Top Side	10mm	251	848.8	28.03	29.00	1.250	-0.06	0.458	0.573
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_Ant 0	GPRS (4 Tx slots)	Front	10mm	251	848.8	23.61	25.00	1.377	-0.06	0.104	0.143
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	251	848.8	23.61	25.00	1.377	-0.14	0.114	0.157
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	128	824.2	23.41	25.00	1.442	-0.02	0.103	0.149
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	189	836.4	23.57	25.00	1.390	-0.04	0.108	0.150
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Side	10mm	251	848.8	23.61	25.00	1.377	0.06	0.081	0.112
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Side	10mm	251	848.8	23.61	25.00	1.377	-0.02	0.109	0.150
	GSM850_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	251	848.8	23.61	25.00	1.377	-0.06	0.028	0.039
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)
	GSM850_Ant 0	GPRS (4 Tx slots)	Front	10mm	251	848.8	28.03	29.00	1.250	-0.07	0.251	0.314
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	251	848.8	28.03	29.00	1.250	0.16	0.317	0.396
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	128	824.2	27.81	29.00	1.315	-0.04	0.256	0.337
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	189	836.4	27.82	29.00	1.312	0.01	0.300	0.394
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Side	10mm	251	848.8	28.03	29.00	1.250	0.06	0.157	0.196
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Side	10mm	251	848.8	28.03	29.00	1.250	-0.02	0.260	0.325
	GSM850_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	251	848.8	28.03	29.00	1.250	0.17	0.063	0.079

WiFif 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_Ant 1	GPRS (4 Tx Slots)	Front	10mm	512	1850.2	25.64	26.50	1.219	0.07	0.192	0.234
	GSM1900_Ant 1	GPRS (4 Tx Slots)	Back	10mm	512	1850.2	25.64	26.50	1.219	-0.18	0.212	0.258
	GSM1900_Ant 1	GPRS (4 Tx Slots)	Back	10mm	661	1880	25.52	26.50	1.253	-0.09	0.251	0.315
	GSM1900_Ant 1	GPRS (4 Tx Slots)	Back	10mm	810	1909.8	25.41	26.50	1.285	-0.18	0.343	0.441
	GSM1900_Ant 1	GPRS (4 Tx Slots)	Left Side	10mm	512	1850.2	25.64	26.50	1.219	0.15	0.103	0.126
	GSM1900_Ant 1	GPRS (4 Tx Slots)	Right Side	10mm	512	1850.2	25.64	26.50	1.219	-0.11	0.077	0.094
	GSM1900_Ant 1	GPRS (4 Tx Slots)	Top Side	10mm	512	1850.2	25.64	26.50	1.219	0.09	0.181	0.221
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_Ant 0	GPRS (4 Tx slots)	Front	10mm	512	1850.2	21.97	22.50	1.130	0.12	0.063	0.071
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	512	1850.2	21.97	22.50	1.130	0.06	0.241	0.272
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	661	1880	21.85	22.50	1.161	0.12	0.232	0.269
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	810	1909.8	21.72	22.50	1.197	0.04	0.244	0.292
	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Side	10mm	512	1850.2	21.97	22.50	1.130	0.01	0.032	0.036
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Side	10mm	512	1850.2	21.97	22.50	1.130	-0.12	0.026	0.029
	GSM1900_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	512	1850.2	21.97	22.50	1.130	0.15	0.236	0.267
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_Ant 0	GPRS (4 Tx slots)	Front	10mm	512	1850.2	25.64	26.50	1.219	0.04	0.464	0.566
26	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	512	1850.2	25.64	26.50	1.219	-0.04	0.827	1.008
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	661	1880	25.52	26.50	1.253	-0.04	0.626	0.784
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	810	1909.8	25.41	26.50	1.285	-0.06	0.494	0.635
	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Side	10mm	512	1850.2	25.64	26.50	1.219	0.1	0.140	0.171
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Side	10mm	512	1850.2	25.64	26.50	1.219	0	0.080	0.098
	GSM1900_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	512	1850.2	25.64	26.50	1.219	-0.07	0.587	0.716

<WCDMA SAR>

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_Ant 1	RMC 12.2Kbps	Front	10mm	9538	1907.6	19.60	19.60	1.000	0	0.192	0.192
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9538	1907.6	19.60	19.60	1.000	-0.11	0.247	0.247
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9262	1852.4	19.42	19.60	1.042	-0.14	0.215	0.224
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9400	1880	19.40	19.60	1.047	-0.12	0.235	0.246
	WCDMA II_Ant 1	RMC 12.2Kbps	Left Side	10mm	9538	1907.6	19.60	19.60	1.000	-0.05	0.105	0.105
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Side	10mm	9538	1907.6	19.60	19.60	1.000	-0.02	0.049	0.049
	WCDMA II_Ant 1	RMC 12.2Kbps	Top Side	10mm	9538	1907.6	19.60	19.60	1.000	-0.06	0.215	0.215
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_Ant 1	RMC 12.2Kbps	Front	10mm	9538	1907.6	25.58	25.70	1.028	0	0.742	0.763
27	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9538	1907.6	25.58	25.70	1.028	0	1.000	1.028
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9262	1852.4	25.41	25.70	1.069	0	0.877	0.938
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9400	1880	25.40	25.70	1.072	0.01	0.941	1.008
	WCDMA II_Ant 1	RMC 12.2Kbps	Left Side	10mm	9538	1907.6	25.58	25.70	1.028	-0.09	0.426	0.438
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Side	10mm	9538	1907.6	25.58	25.70	1.028	-0.14	0.217	0.223
	WCDMA II_Ant 1	RMC 12.2Kbps	Top Side	10mm	9538	1907.6	25.58	25.70	1.028	-0.06	0.875	0.900
	WCDMA II_Ant 1	RMC 12.2Kbps	Top Side	10mm	9262	1852.4	25.41	25.70	1.069	0	0.742	0.793
	WCDMA II_Ant 1	RMC 12.2Kbps	Top Side	10mm	9400	1880	25.40	25.70	1.072	-0.12	0.818	0.877

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_Ant 1	RMC 12.2Kbps	Front	10mm	1312	1712.4	23.68	24.00	1.076	-0.06	0.267	0.287
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	1312	1712.4	23.68	24.00	1.076	-0.12	0.301	0.324
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	1413	1732.6	23.64	24.00	1.086	-0.14	0.311	0.338
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	1513	1752.6	23.55	24.00	1.109	-0.13	0.312	0.346
	WCDMA IV_Ant 1	RMC 12.2Kbps	Left Side	10mm	1312	1712.4	23.68	24.00	1.076	-0.12	0.111	0.119
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Side	10mm	1312	1712.4	23.68	24.00	1.076	0.06	0.024	0.026
	WCDMA IV_Ant 1	RMC 12.2Kbps	Top Side	10mm	1312	1712.4	23.68	24.00	1.076	-0.02	0.184	0.198
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_Ant 0	RMC 12.2Kbps	Front	10mm	1312	1712.4	18.72	19.00	1.067	0.02	0.181	0.193
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	1312	1712.4	18.72	19.00	1.067	0.13	0.172	0.183
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Side	10mm	1312	1712.4	18.72	19.00	1.067	0.02	0.071	0.076
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Side	10mm	1312	1712.4	18.72	19.00	1.067	-0.02	0.024	0.026
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	1312	1712.4	18.72	19.00	1.067	-0.04	0.226	0.241
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	1413	1732.6	18.65	19.00	1.084	-0.07	0.221	0.240
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	1513	1752.6	18.66	19.00	1.081	-0.15	0.224	0.242
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_Ant 0	RMC 12.2Kbps	Front	10mm	1312	1712.4	23.68	24.00	1.076	-0.01	0.540	0.581
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	1312	1712.4	23.68	24.00	1.076	-0.13	0.568	0.611
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Side	10mm	1312	1712.4	23.68	24.00	1.076	-0.09	0.207	0.223
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Side	10mm	1312	1712.4	23.68	24.00	1.076	-0.06	0.088	0.095
28	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	1312	1712.4	23.68	24.00	1.076	-0.08	0.739	0.796
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	1413	1732.6	23.64	24.00	1.086	-0.1	0.699	0.759
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	1513	1752.6	23.55	24.00	1.109	-0.18	0.695	0.771

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_Ant 1	RMC 12.2Kbps	Front	10mm	4132	826.4	23.62	24.50	1.225	-0.14	0.305	0.374
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	4132	826.4	23.62	24.50	1.225	-0.07	0.428	0.524
29	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	4182	836.4	23.53	24.50	1.250	-0.04	0.476	0.595
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	4233	846.6	23.39	24.50	1.291	-0.02	0.436	0.563
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Side	10mm	4132	826.4	23.62	24.50	1.225	0.02	0.292	0.358
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Side	10mm	4132	826.4	23.62	24.50	1.225	-0.03	0.155	0.190
	WCDMA V_Ant 1	RMC 12.2Kbps	Top Side	10mm	4132	826.4	23.62	24.50	1.225	0	0.286	0.350
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_Ant 0	RMC 12.2Kbps	Front	10mm	4132	826.4	19.68	21.40	1.486	0.05	0.102	0.152
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4132	826.4	19.68	21.40	1.486	0	0.137	0.204
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4182	836.4	19.56	21.40	1.528	-0.18	0.167	0.255
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4233	846.6	19.47	21.40	1.560	0.04	0.121	0.189
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Side	10mm	4132	826.4	19.68	21.40	1.486	0.02	0.093	0.138
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Side	10mm	4132	826.4	19.68	21.40	1.486	0.05	0.116	0.172
	WCDMA V_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	4132	826.4	19.68	21.40	1.486	-0.02	0.024	0.036
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 V_Ant 0	RMC 12.2Kbps	Front	10mm	4132	826.4	23.62	24.50	1.225	0	0.193	0.236
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4132	826.4	23.62	24.50	1.225	-0.05	0.285	0.349
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4182	836.4	23.53	24.50	1.250	-0.01	0.296	0.370
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4233	846.6	23.39	24.50	1.291	0	0.256	0.331
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Side	10mm	4132	826.4	23.62	24.50	1.225	0.03	0.152	0.186
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Side	10mm	4132	826.4	23.62	24.50	1.225	-0.01	0.219	0.268
	WCDMA V_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	4132	826.4	23.62	24.50	1.225	0.16	0.042	0.051

<CDMA SAR>

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)
	CDMA2000 BC0_Ant 1	RTAP 153.6Kbps	Front	10mm	1013	824.7	24.72	25.50	1.197	0.01	0.372	0.445
	CDMA2000 BC0_Ant 1	RTAP 153.6Kbps	Back	10mm	1013	824.7	24.72	25.50	1.197	-0.02	0.460	0.551
30	CDMA2000 BC0_Ant 1	RTAP 153.6Kbps	Back	10mm	384	836.52	24.62	25.50	1.225	0.01	0.516	0.632
	CDMA2000 BC0_Ant 1	RTAP 153.6Kbps	Back	10mm	777	848.31	24.64	25.50	1.219	0.01	0.489	0.596
	CDMA2000 BC0_Ant 1	RTAP 153.6Kbps	Left Side	10mm	1013	824.7	24.72	25.50	1.197	0	0.393	0.470
	CDMA2000 BC0_Ant 1	RTAP 153.6Kbps	Right Side	10mm	1013	824.7	24.72	25.50	1.197	-0.13	0.197	0.236
	CDMA2000 BC0_Ant 1	RTAP 153.6Kbps	Top Side	10mm	1013	824.7	24.72	25.50	1.197	-0.02	0.334	0.400
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)
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Front	10mm	1013	824.7	20.48	21.50	1.265	-0.07	0.112	0.142
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Back	10mm	1013	824.7	20.48	21.50	1.265	-0.1	0.135	0.171
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Back	10mm	384	836.52	20.30	21.50	1.318	-0.08	0.118	0.156
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Back	10mm	777	848.31	20.32	21.50	1.312	-0.1	0.121	0.159
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Left Side	10mm	1013	824.7	20.48	21.50	1.265	-0.03	0.095	0.120
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Right Side	10mm	1013	824.7	20.48	21.50	1.265	-0.15	0.134	0.169
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Bottom Side	10mm	1013	824.7	20.48	21.50	1.265	-0.09	0.030	0.038
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)
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Front	10mm	1013	824.7	24.72	25.50	1.197	0.01	0.293	0.351
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Back	10mm	1013	824.7	24.72	25.50	1.197	0.03	0.384	0.460
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Back	10mm	384	836.52	24.62	25.50	1.225	0.04	0.338	0.414
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Back	10mm	777	848.31	24.64	25.50	1.219	0.02	0.312	0.380
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Left Side	10mm	1013	824.7	24.72	25.50	1.197	-0.07	0.232	0.278
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Right Side	10mm	1013	824.7	24.72	25.50	1.197	-0.05	0.342	0.409
	CDMA2000 BC0_Ant 0	RTAP 153.6Kbps	Bottom Side	10mm	1013	824.7	24.72	25.50	1.197	0.09	0.064	0.077

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)
	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Front	10mm	600	1880	18.89	19.00	1.026	0.02	0.157	0.161
	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Back	10mm	600	1880	18.89	19.00	1.026	-0.02	0.189	0.194
	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Back	10mm	25	1851.25	18.97	19.00	1.007	-0.02	0.183	0.184
	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Back	10mm	1175	1908.75	18.88	19.00	1.028	-0.02	0.194	0.199
	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Left Side	10mm	600	1880	18.89	19.00	1.026	0.01	0.081	0.083
	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Right Side	10mm	600	1880	18.89	19.00	1.026	-0.03	0.045	0.046
	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Top Side	10mm	600	1880	18.89	19.00	1.026	-0.06	0.181	0.186
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)
	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Front	10mm	25	1851.25	24.99	25.00	1.002	0.01	0.606	0.607
	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Back	10mm	25	1851.25	24.99	25.00	1.002	0.02	0.734	0.736
	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Back	10mm	600	1880	24.98	25.00	1.005	-0.06	0.757	0.760
31	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Back	10mm	1175	1908.75	24.97	25.00	1.007	-0.06	0.828	0.834
	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Left Side	10mm	25	1851.25	24.99	25.00	1.002	-0.1	0.369	0.370
	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Right Side	10mm	25	1851.25	24.99	25.00	1.002	0.03	0.205	0.205
	CDMA2000 BC1_Ant 1	RTAP 153.6Kbps	Top Side	10mm	25	1851.25	24.99	25.00	1.002	-0.07	0.646	0.647

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)
	CDMA2000 BC10_Ant 1	RTAP 153.6Kbps	Front	10mm	580	820.5	24.59	25.50	1.233	-0.04	0.370	0.456
32	CDMA2000 BC10_Ant 1	RTAP 153.6Kbps	Back	10mm	580	820.5	24.59	25.50	1.233	-0.01	0.454	0.560
	CDMA2000 BC10_Ant 1	RTAP 153.6Kbps	Left Side	10mm	580	820.5	24.59	25.50	1.233	-0.03	0.386	0.476
	CDMA2000 BC10_Ant 1	RTAP 153.6Kbps	Right Side	10mm	580	820.5	24.59	25.50	1.233	-0.05	0.199	0.245
	CDMA2000 BC10_Ant 1	RTAP 153.6Kbps	Top Side	10mm	580	820.5	24.59	25.50	1.233	-0.04	0.329	0.406
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)
	CDMA2000 BC10_Ant 0	RTAP 153.6Kbps	Front	10mm	580	820.5	22.33	23.50	1.309	-0.05	0.113	0.148
	CDMA2000 BC10_Ant 0	RTAP 153.6Kbps	Back	10mm	580	820.5	22.33	23.50	1.309	-0.04	0.181	0.237
	CDMA2000 BC10_Ant 0	RTAP 153.6Kbps	Left Side	10mm	580	820.5	22.33	23.50	1.309	-0.04	0.098	0.128
	CDMA2000 BC10_Ant 0	RTAP 153.6Kbps	Right Side	10mm	580	820.5	22.33	23.50	1.309	-0.09	0.134	0.175
	CDMA2000 BC10_Ant 0	RTAP 153.6Kbps	Bottom Side	10mm	580	820.5	22.33	23.50	1.309	-0.13	0.021	0.027
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)
	CDMA2000 BC10_Ant 0	RTAP 153.6Kbps	Front	10mm	580	820.5	24.59	25.50	1.233	-0.04	0.188	0.232
	CDMA2000 BC10_Ant 0	RTAP 153.6Kbps	Back	10mm	580	820.5	24.59	25.50	1.233	0.02	0.304	0.375
	CDMA2000 BC10_Ant 0	RTAP 153.6Kbps	Left Side	10mm	580	820.5	24.59	25.50	1.233	-0.04	0.150	0.185
	CDMA2000 BC10_Ant 0	RTAP 153.6Kbps	Right Side	10mm	580	820.5	24.59	25.50	1.233	-0.05	0.209	0.258
	CDMA2000 BC10_Ant 0	RTAP 153.6Kbps	Bottom Side	10mm	580	820.5	24.59	25.50	1.233	-0.09	0.029	0.036

<FDD LTE SAR>

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_Ant 2	20M	QPSK	1	0	Front	10mm	20850	2510	18.18	18.50	1.076	-0.05	0.168	0.181
	LTE Band 7_Ant 2	20M	QPSK	50	50	Front	10mm	20850	2510	17.92	18.50	1.143	-0.09	0.159	0.182
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	20850	2510	18.18	18.50	1.076	0.01	0.207	0.223
	LTE Band 7_Ant 2	20M	QPSK	50	50	Back	10mm	20850	2510	17.92	18.50	1.143	0.02	0.220	0.251
	LTE Band 7_Ant 2	20M	QPSK	50	50	Back	10mm	21100	2535	17.79	18.50	1.178	-0.04	0.199	0.234
	LTE Band 7_Ant 2	20M	QPSK	50	50	Back	10mm	21350	2560	17.78	18.50	1.180	0.02	0.209	0.247
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Side	10mm	20850	2510	18.18	18.50	1.076	-0.01	0.015	0.016
	LTE Band 7_Ant 2	20M	QPSK	50	50	Left Side	10mm	20850	2510	17.92	18.50	1.143	-0.03	0.015	0.017
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Side	10mm	20850	2510	18.18	18.50	1.076	-0.1	0.197	0.212
	LTE Band 7_Ant 2	20M	QPSK	50	50	Right Side	10mm	20850	2510	17.92	18.50	1.143	-0.05	0.197	0.225
	LTE Band 7_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	20850	2510	18.18	18.50	1.076	-0.11	0.061	0.066
	LTE Band 7_Ant 2	20M	QPSK	50	50	Bottom Side	10mm	20850	2510	17.92	18.50	1.143	-0.19	0.062	0.071
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 7_Ant 2	20M	QPSK	1	0	Front	10mm	20850	2510	24.03	24.50	1.114	-0.11	0.680	0.758
	LTE Band 7_Ant 2	20M	QPSK	50	50	Front	10mm	20850	2510	23.01	23.50	1.119	-0.15	0.509	0.570
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	20850	2510	24.03	24.50	1.114	-0.06	0.855	0.953
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	21100	2535	23.94	24.50	1.138	0.02	0.779	0.886
33	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	21350	2560	23.82	24.50	1.169	0.1	0.818	0.957
	LTE Band 7_Ant 2	20M	QPSK	50	50	Back	10mm	20850	2510	23.01	23.50	1.119	0.01	0.652	0.730
	LTE Band 7_Ant 2	20M	QPSK	100	0	Back	10mm	20850	2510	22.94	23.50	1.138	0	0.669	0.761
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Side	10mm	20850	2510	24.03	24.50	1.114	0.06	0.041	0.046
	LTE Band 7_Ant 2	20M	QPSK	50	50	Left Side	10mm	20850	2510	23.01	23.50	1.119	-0.08	0.032	0.036
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Side	10mm	20850	2510	24.03	24.50	1.114	-0.07	0.712	0.793
	LTE Band 7_Ant 2	20M	QPSK	50	50	Right Side	10mm	20850	2510	23.01	23.50	1.119	-0.05	0.570	0.638
	LTE Band 7_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	20850	2510	24.03	24.50	1.114	-0.16	0.163	0.182
	LTE Band 7_Ant 2	20M	QPSK	50	50	Bottom Side	10mm	20850	2510	23.01	23.50	1.119	-0.09	0.175	0.196

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_Ant 1	10M	QPSK	1	0	Front	10mm	23095	707.5	24.70	25.70	1.259	-0.01	0.189	0.238
	LTE Band 12_Ant 1	10M	QPSK	25	0	Front	10mm	23095	707.5	23.75	24.70	1.245	-0.05	0.154	0.192
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	23095	707.5	24.70	25.70	1.259	-0.1	0.299	0.376
	LTE Band 12_Ant 1	10M	QPSK	25	0	Back	10mm	23095	707.5	23.75	24.70	1.245	-0.07	0.284	0.353
34	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Side	10mm	23095	707.5	24.70	25.70	1.259	-0.01	0.389	0.490
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Side	10mm	23095	707.5	23.75	24.70	1.245	-0.04	0.322	0.401
	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Side	10mm	23095	707.5	24.70	25.70	1.259	-0.08	0.045	0.057
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Side	10mm	23095	707.5	23.75	24.70	1.245	-0.01	0.039	0.049
	LTE Band 12_Ant 1	10M	QPSK	1	0	Top Side	10mm	23095	707.5	24.70	25.70	1.259	-0.1	0.144	0.181
	LTE Band 12_Ant 1	10M	QPSK	25	0	Top Side	10mm	23095	707.5	23.75	24.70	1.245	-0.06	0.126	0.157
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_Ant 0	10M	QPSK	1	0	Front	10mm	23095	707.5	21.87	22.70	1.211	-0.08	0.144	0.174
	LTE Band 12_Ant 0	10M	QPSK	25	0	Front	10mm	23095	707.5	21.72	22.70	1.253	0.01	0.150	0.188
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	10mm	23095	707.5	21.87	22.70	1.211	-0.12	0.189	0.229
	LTE Band 12_Ant 0	10M	QPSK	25	0	Back	10mm	23095	707.5	21.72	22.70	1.253	-0.03	0.192	0.241
	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Side	10mm	23095	707.5	21.87	22.70	1.211	0.03	0.113	0.137
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Side	10mm	23095	707.5	21.72	22.70	1.253	0.04	0.134	0.168
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Side	10mm	23095	707.5	21.87	22.70	1.211	0.12	0.133	0.161
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Side	10mm	23095	707.5	21.72	22.70	1.253	0.12	0.157	0.197
	LTE Band 12_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	23095	707.5	21.87	22.70	1.211	0.02	0.031	0.038
	LTE Band 12_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	23095	707.5	21.72	22.70	1.253	-0.08	0.028	0.035
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 12_Ant 0	10M	QPSK	1	0	Front	10mm	23095	707.5	24.70	25.70	1.259	-0.1	0.243	0.306
	LTE Band 12_Ant 0	10M	QPSK	25	0	Front	10mm	23095	707.5	23.72	24.70	1.253	-0.07	0.230	0.288
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	10mm	23095	707.5	24.70	25.70	1.259	-0.01	0.311	0.392
	LTE Band 12_Ant 0	10M	QPSK	25	0	Back	10mm	23095	707.5	23.72	24.70	1.253	0.02	0.296	0.371
	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Side	10mm	23095	707.5	24.70	25.70	1.259	-0.11	0.217	0.273
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Side	10mm	23095	707.5	23.72	24.70	1.253	-0.02	0.212	0.266
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Side	10mm	23095	707.5	24.70	25.70	1.259	-0.06	0.256	0.322
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Side	10mm	23095	707.5	23.72	24.70	1.253	0	0.249	0.312
	LTE Band 12_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	23095	707.5	24.70	25.70	1.259	0.07	0.052	0.065
	LTE Band 12_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	23095	707.5	23.72	24.70	1.253	0.09	0.049	0.061

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_Ant 1	10M	QPSK	1	0	Front	10mm	23230	782	24.07	25.30	1.327	-0.03	0.226	0.300
	LTE Band 13_Ant 1	10M	QPSK	25	0	Front	10mm	23230	782	23.15	24.30	1.303	-0.07	0.234	0.305
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	23230	782	24.07	25.30	1.327	-0.17	0.343	0.455
	LTE Band 13_Ant 1	10M	QPSK	25	0	Back	10mm	23230	782	23.15	24.30	1.303	-0.06	0.304	0.396
35	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Side	10mm	23230	782	24.07	25.30	1.327	-0.01	0.434	0.576
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Side	10mm	23230	782	23.15	24.30	1.303	0	0.422	0.550
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Side	10mm	23230	782	24.07	25.30	1.327	-0.11	0.148	0.196
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Side	10mm	23230	782	23.15	24.30	1.303	-0.02	0.148	0.193
	LTE Band 13_Ant 1	10M	QPSK	1	0	Top Side	10mm	23230	782	24.07	25.30	1.327	-0.1	0.204	0.271
	LTE Band 13_Ant 1	10M	QPSK	25	0	Top Side	10mm	23230	782	23.15	24.30	1.303	-0.02	0.211	0.275
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_Ant 0	10M	QPSK	1	0	Front	10mm	23230	782	21.29	22.30	1.262	-0.01	0.145	0.183
	LTE Band 13_Ant 0	10M	QPSK	25	0	Front	10mm	23230	782	21.10	22.30	1.318	-0.01	0.143	0.189
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	23230	782	21.29	22.30	1.262	0.01	0.165	0.208
	LTE Band 13_Ant 0	10M	QPSK	25	0	Back	10mm	23230	782	21.10	22.30	1.318	0.01	0.164	0.216
	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Side	10mm	23230	782	21.29	22.30	1.262	0.06	0.111	0.140
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Side	10mm	23230	782	21.10	22.30	1.318	0.11	0.119	0.157
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Side	10mm	23230	782	21.29	22.30	1.262	-0.06	0.162	0.204
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Side	10mm	23230	782	21.10	22.30	1.318	0.03	0.173	0.228
	LTE Band 13_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	23230	782	21.29	22.30	1.262	-0.02	0.031	0.039
	LTE Band 13_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	23230	782	21.10	22.30	1.318	-0.07	0.031	0.041
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 13_Ant 0	10M	QPSK	1	0	Front	10mm	23230	782	24.03	25.30	1.340	-0.13	0.241	0.323
	LTE Band 13_Ant 0	10M	QPSK	25	0	Front	10mm	23230	782	23.15	24.30	1.303	0.01	0.234	0.305
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	23230	782	24.03	25.30	1.340	-0.14	0.257	0.344
	LTE Band 13_Ant 0	10M	QPSK	25	0	Back	10mm	23230	782	23.15	24.30	1.303	-0.12	0.259	0.338
	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Side	10mm	23230	782	24.03	25.30	1.340	-0.08	0.209	0.280
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Side	10mm	23230	782	23.15	24.30	1.303	-0.02	0.190	0.248
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Side	10mm	23230	782	24.03	25.30	1.340	-0.11	0.304	0.407
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Side	10mm	23230	782	23.15	24.30	1.303	-0.04	0.277	0.361
	LTE Band 13_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	23230	782	24.03	25.30	1.340	-0.02	0.058	0.078
	LTE Band 13_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	23230	782	23.15	24.30	1.303	-0.17	0.054	0.070

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 14_Ant 1	10M	QPSK	1	0	Front	10mm	23330	793	24.19	25.50	1.352	-0.02	0.330	0.446
	LTE Band 14_Ant 1	10M	QPSK	25	0	Front	10mm	23330	793	23.29	24.50	1.321	-0.07	0.266	0.351
36	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	23330	793	24.19	25.50	1.352	-0.03	0.508	0.687
	LTE Band 14_Ant 1	10M	QPSK	25	0	Back	10mm	23330	793	23.29	24.50	1.321	-0.1	0.464	0.613
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Side	10mm	23330	793	24.19	25.50	1.352	0	0.497	0.672
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Side	10mm	23330	793	23.29	24.50	1.321	-0.1	0.382	0.505
	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Side	10mm	23330	793	24.19	25.50	1.352	-0.04	0.190	0.257
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Side	10mm	23330	793	23.29	24.50	1.321	-0.05	0.152	0.201
	LTE Band 14_Ant 1	10M	QPSK	1	0	Top Side	10mm	23330	793	24.19	25.50	1.352	0.03	0.313	0.423
	LTE Band 14_Ant 1	10M	QPSK	25	0	Top Side	10mm	23330	793	23.29	24.50	1.321	-0.02	0.249	0.329
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 14_Ant 0	10M	QPSK	1	0	Front	10mm	23330	793	21.49	22.50	1.262	0.03	0.142	0.179
	LTE Band 14_Ant 0	10M	QPSK	25	0	Front	10mm	23330	793	21.25	22.50	1.334	-0.03	0.140	0.187
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	10mm	23330	793	21.49	22.50	1.262	0.05	0.169	0.213
	LTE Band 14_Ant 0	10M	QPSK	25	0	Back	10mm	23330	793	21.25	22.50	1.334	0.02	0.167	0.223
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Side	10mm	23330	793	21.49	22.50	1.262	0.06	0.112	0.141
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Side	10mm	23330	793	21.25	22.50	1.334	0.14	0.111	0.148
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Side	10mm	23330	793	21.49	22.50	1.262	-0.06	0.153	0.193
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Side	10mm	23330	793	21.25	22.50	1.334	0.01	0.173	0.231
	LTE Band 14_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	23330	793	21.49	22.50	1.262	-0.04	0.034	0.043
	LTE Band 14_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	23330	793	21.25	22.50	1.334	-0.09	0.035	0.047
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 14_Ant 0	10M	QPSK	1	0	Front	10mm	23330	793	24.19	25.50	1.352	0.01	0.253	0.342
	LTE Band 14_Ant 0	10M	QPSK	25	0	Front	10mm	23330	793	23.29	24.50	1.321	0.02	0.229	0.303
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	10mm	23330	793	24.19	25.50	1.352	-0.01	0.290	0.392
	LTE Band 14_Ant 0	10M	QPSK	25	0	Back	10mm	23330	793	23.29	24.50	1.321	-0.02	0.265	0.350
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Side	10mm	23330	793	24.19	25.50	1.352	0	0.208	0.281
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Side	10mm	23330	793	23.29	24.50	1.321	-0.13	0.177	0.234
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Side	10mm	23330	793	24.19	25.50	1.352	0.01	0.284	0.384
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Side	10mm	23330	793	23.29	24.50	1.321	-0.04	0.276	0.365
	LTE Band 14_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	23330	793	24.19	25.50	1.352	-0.05	0.070	0.095
	LTE Band 14_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	23330	793	23.29	24.50	1.321	0.04	0.062	0.082

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_Ant 1	20M	QPSK	1	0	Front	10mm	26340	1880	19.15	19.70	1.135	-0.05	0.187	0.212
	LTE Band 25_Ant 1	20M	QPSK	50	0	Front	10mm	26340	1880	19.10	19.70	1.148	-0.09	0.191	0.219
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	26340	1880	19.15	19.70	1.135	-0.02	0.249	0.283
	LTE Band 25_Ant 1	20M	QPSK	50	0	Back	10mm	26340	1880	19.10	19.70	1.148	-0.09	0.255	0.293
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	26140	1860	19.07	19.70	1.156	-0.16	0.245	0.283
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	26590	1905	18.93	19.70	1.194	-0.15	0.256	0.306
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Side	10mm	26340	1880	19.15	19.70	1.135	-0.13	0.099	0.112
	LTE Band 25_Ant 1	20M	QPSK	50	0	Left Side	10mm	26340	1880	19.10	19.70	1.148	-0.14	0.099	0.114
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Side	10mm	26340	1880	19.15	19.70	1.135	-0.04	0.057	0.065
	LTE Band 25_Ant 1	20M	QPSK	50	0	Right Side	10mm	26340	1880	19.10	19.70	1.148	-0.1	0.057	0.065
	LTE Band 25_Ant 1	20M	QPSK	1	0	Top Side	10mm	26340	1880	19.15	19.70	1.135	-0.02	0.198	0.225
	LTE Band 25_Ant 1	20M	QPSK	50	0	Top Side	10mm	26340	1880	19.10	19.70	1.148	0.03	0.206	0.237
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_Ant 1	20M	QPSK	1	0	Front	10mm	26340	1880	25.35	25.70	1.084	-0.04	0.723	0.784
	LTE Band 25_Ant 1	20M	QPSK	1	0	Front	10mm	26140	1860	25.22	25.70	1.117	-0.02	0.682	0.762
	LTE Band 25_Ant 1	20M	QPSK	1	0	Front	10mm	26590	1905	25.17	25.70	1.130	-0.01	0.741	0.837
	LTE Band 25_Ant 1	20M	QPSK	50	0	Front	10mm	26340	1880	24.41	24.70	1.069	0.01	0.534	0.571
	LTE Band 25_Ant 1	20M	QPSK	100	0	Front	10mm	26340	1880	24.33	24.70	1.089	-0.02	0.591	0.644
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	26340	1880	25.35	25.70	1.084	0	0.873	0.946
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	26140	1860	25.22	25.70	1.117	0.05	0.802	0.896
37	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	26590	1905	25.17	25.70	1.130	0.02	0.923	1.043
	LTE Band 25_Ant 1	20M	QPSK	50	0	Back	10mm	26340	1880	24.41	24.70	1.069	-0.04	0.692	0.740
	LTE Band 25_Ant 1	20M	QPSK	50	0	Back	10mm	26140	1860	24.35	24.70	1.084	0.01	0.715	0.775
	LTE Band 25_Ant 1	20M	QPSK	50	0	Back	10mm	26590	1905	24.32	24.70	1.091	0	0.798	0.871
	LTE Band 25_Ant 1	20M	QPSK	100	0	Back	10mm	26340	1880	24.33	24.70	1.089	-0.01	0.755	0.822
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Side	10mm	26340	1880	25.35	25.70	1.084	-0.01	0.406	0.440
	LTE Band 25_Ant 1	20M	QPSK	50	0	Left Side	10mm	26340	1880	24.41	24.70	1.069	0.03	0.296	0.316
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Side	10mm	26340	1880	25.35	25.70	1.084	-0.04	0.228	0.247
	LTE Band 25_Ant 1	20M	QPSK	50	0	Right Side	10mm	26340	1880	24.41	24.70	1.069	-0.02	0.166	0.177
	LTE Band 25_Ant 1	20M	QPSK	1	0	Top Side	10mm	26340	1880	25.35	25.70	1.084	-0.01	0.815	0.883
	LTE Band 25_Ant 1	20M	QPSK	1	0	Top Side	10mm	26140	1860	25.22	25.70	1.117	-0.03	0.736	0.822
	LTE Band 25_Ant 1	20M	QPSK	1	0	Top Side	10mm	26590	1905	25.17	25.70	1.130	-0.02	0.851	0.961
	LTE Band 25_Ant 1	20M	QPSK	50	0	Top Side	10mm	26340	1880	24.41	24.70	1.069	-0.02	0.632	0.676
	LTE Band 25_Ant 1	20M	QPSK	100	0	Top Side	10mm	26340	1880	24.33	24.70	1.089	-0.03	0.667	0.726

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_Ant 1	15M	QPSK	1	0	Front	10mm	26865	831.5	24.60	25.70	1.288	-0.17	0.394	0.508
	LTE Band 26_Ant 1	15M	QPSK	36	0	Front	10mm	26865	831.5	23.62	24.70	1.282	0.01	0.334	0.428
38	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	26865	831.5	24.60	25.70	1.288	-0.06	0.585	0.754
	LTE Band 26_Ant 1	15M	QPSK	36	0	Back	10mm	26865	831.5	23.62	24.70	1.282	-0.07	0.499	0.640
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Side	10mm	26865	831.5	24.60	25.70	1.288	0.02	0.313	0.403
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Side	10mm	26865	831.5	23.62	24.70	1.282	-0.12	0.261	0.335
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Side	10mm	26865	831.5	24.60	25.70	1.288	-0.03	0.180	0.232
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Side	10mm	26865	831.5	23.62	24.70	1.282	-0.02	0.160	0.205
	LTE Band 26_Ant 1	15M	QPSK	1	0	Top Side	10mm	26865	831.5	24.60	25.70	1.288	-0.06	0.375	0.483
	LTE Band 26_Ant 1	15M	QPSK	36	0	Top Side	10mm	26865	831.5	23.62	24.70	1.282	-0.04	0.310	0.398
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_Ant 0	15M	QPSK	1	37	Front	10mm	26865	831.5	21.59	22.70	1.291	0	0.112	0.145
	LTE Band 26_Ant 0	15M	QPSK	36	20	Front	10mm	26865	831.5	21.43	22.70	1.340	0.02	0.115	0.154
	LTE Band 26_Ant 0	15M	QPSK	1	37	Back	10mm	26865	831.5	21.59	22.70	1.291	-0.16	0.193	0.249
	LTE Band 26_Ant 0	15M	QPSK	36	20	Back	10mm	26865	831.5	21.43	22.70	1.340	-0.14	0.195	0.261
	LTE Band 26_Ant 0	15M	QPSK	1	37	Left Side	10mm	26865	831.5	21.59	22.70	1.291	-0.01	0.056	0.072
	LTE Band 26_Ant 0	15M	QPSK	36	20	Left Side	10mm	26865	831.5	21.43	22.70	1.340	-0.03	0.057	0.076
	LTE Band 26_Ant 0	15M	QPSK	1	37	Right Side	10mm	26865	831.5	21.59	22.70	1.291	0.01	0.101	0.130
	LTE Band 26_Ant 0	15M	QPSK	36	20	Right Side	10mm	26865	831.5	21.43	22.70	1.340	-0.06	0.102	0.137
	LTE Band 26_Ant 0	15M	QPSK	1	37	Bottom Side	10mm	26865	831.5	21.59	22.70	1.291	-0.13	0.040	0.052
	LTE Band 26_Ant 0	15M	QPSK	36	20	Bottom Side	10mm	26865	831.5	21.43	22.70	1.340	-0.13	0.040	0.054
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 26_Ant 0	15M	QPSK	1	0	Front	10mm	26865	831.5	24.60	25.70	1.288	-0.02	0.202	0.260
	LTE Band 26_Ant 0	15M	QPSK	36	0	Front	10mm	26865	831.5	23.62	24.70	1.282	-0.01	0.170	0.218
	LTE Band 26_Ant 0	15M	QPSK	1	0	Back	10mm	26865	831.5	24.60	25.70	1.288	-0.14	0.345	0.444
	LTE Band 26_Ant 0	15M	QPSK	36	0	Back	10mm	26865	831.5	23.62	24.70	1.282	-0.13	0.309	0.396
	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Side	10mm	26865	831.5	24.60	25.70	1.288	-0.02	0.124	0.160
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Side	10mm	26865	831.5	23.62	24.70	1.282	-0.03	0.095	0.122
	LTE Band 26_Ant 0	15M	QPSK	1	0	Right Side	10mm	26865	831.5	24.60	25.70	1.288	-0.02	0.203	0.262
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Side	10mm	26865	831.5	23.62	24.70	1.282	-0.02	0.162	0.208
	LTE Band 26_Ant 0	15M	QPSK	1	0	Bottom Side	10mm	26865	831.5	24.60	25.70	1.288	-0.04	0.070	0.090
	LTE Band 26_Ant 0	15M	QPSK	36	0	Bottom Side	10mm	26865	831.5	23.62	24.70	1.282	-0.08	0.060	0.077

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_Ant 3	10M	QPSK	1	0	Front	10mm	27710	2310	24.76	25.70	1.242	0.05	0.199	0.247
	LTE Band 30_Ant 3	10M	QPSK	25	0	Front	10mm	27710	2310	23.78	24.70	1.236	0.08	0.158	0.195
	LTE Band 30_Ant 3	10M	QPSK	1	0	Back	10mm	27710	2310	24.76	25.70	1.242	-0.04	0.654	0.812
	LTE Band 30_Ant 3	10M	QPSK	25	0	Back	10mm	27710	2310	23.78	24.70	1.236	0.02	0.517	0.639
	LTE Band 30_Ant 3	10M	QPSK	50	0	Back	10mm	27710	2310	23.74	24.70	1.247	0.02	0.541	0.675
	LTE Band 30_Ant 3	10M	QPSK	1	0	Left Side	10mm	27710	2310	24.76	25.70	1.242	-0.14	0.386	0.479
	LTE Band 30_Ant 3	10M	QPSK	25	0	Left Side	10mm	27710	2310	23.78	24.70	1.236	-0.16	0.311	0.384
	LTE Band 30_Ant 3	10M	QPSK	1	0	Right Side	10mm	27710	2310	24.76	25.70	1.242	0.16	0.004	0.005
	LTE Band 30_Ant 3	10M	QPSK	25	0	Right Side	10mm	27710	2310	23.78	24.70	1.236	0.16	0.004	0.005
	LTE Band 30_Ant 3	10M	QPSK	1	0	Top Side	10mm	27710	2310	24.76	25.70	1.242	-0.05	0.062	0.077
	LTE Band 30_Ant 3	10M	QPSK	25	0	Top Side	10mm	27710	2310	23.78	24.70	1.236	-0.05	0.047	0.058
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_Ant 2	10M	QPSK	1	0	Front	10mm	27710	2310	19.59	20.70	1.291	-0.12	0.272	0.351
	LTE Band 30_Ant 2	10M	QPSK	25	0	Front	10mm	27710	2310	19.53	20.70	1.309	-0.05	0.277	0.363
	LTE Band 30_Ant 2	10M	QPSK	1	0	Back	10mm	27710	2310	19.59	20.70	1.291	0.05	0.282	0.364
	LTE Band 30_Ant 2	10M	QPSK	25	0	Back	10mm	27710	2310	19.53	20.70	1.309	0.02	0.285	0.373
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Side	10mm	27710	2310	19.59	20.70	1.291	-0.07	0.015	0.019
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Side	10mm	27710	2310	19.53	20.70	1.309	-0.14	0.014	0.018
	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Side	10mm	27710	2310	19.59	20.70	1.291	-0.04	0.273	0.353
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Side	10mm	27710	2310	19.53	20.70	1.309	-0.04	0.271	0.355
	LTE Band 30_Ant 2	10M	QPSK	1	0	Bottom Side	10mm	27710	2310	19.59	20.70	1.291	-0.18	0.075	0.097
	LTE Band 30_Ant 2	10M	QPSK	25	0	Bottom Side	10mm	27710	2310	19.53	20.70	1.309	-0.18	0.075	0.098
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)
39	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	27710	2310	24.76	25.70	1.242	0.01	0.886	1.100
	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	27710	2310	24.76	25.70	1.242	0.01	0.847	1.052
	LTE Band 30_Ant 2	10M	QPSK	25	0	Front	10mm	27710	2310	23.78	24.70	1.236	-0.03	0.729	0.901
	LTE Band 30_Ant 2	10M	QPSK	50	0	Front	10mm	27710	2310	23.74	24.70	1.247	0.02	0.715	0.892
	LTE Band 30_Ant 2	10M	QPSK	1	0	Back	10mm	27710	2310	24.76	25.70	1.242	0.03	0.760	0.944
	LTE Band 30_Ant 2	10M	QPSK	25	0	Back	10mm	27710	2310	23.78	24.70	1.236	-0.03	0.627	0.775
	LTE Band 30_Ant 2	10M	QPSK	50	0	Back	10mm	27710	2310	23.74	24.70	1.247	-0.06	0.602	0.751
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Side	10mm	27710	2310	24.76	25.70	1.242	0.19	0.053	0.066
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Side	10mm	27710	2310	23.78	24.70	1.236	-0.14	0.038	0.047
	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Side	10mm	27710	2310	24.76	25.70	1.242	-0.03	0.797	0.990
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Side	10mm	27710	2310	23.78	24.70	1.236	-0.03	0.651	0.805
	LTE Band 30_Ant 2	10M	QPSK	50	0	Right Side	10mm	27710	2310	23.74	24.70	1.247	-0.02	0.663	0.827
	LTE Band 30_Ant 2	10M	QPSK	1	0	Bottom Side	10mm	27710	2310	24.76	25.70	1.242	-0.17	0.207	0.257
	LTE Band 30_Ant 2	10M	QPSK	25	0	Bottom Side	10mm	27710	2310	23.78	24.70	1.236	-0.13	0.197	0.243

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_Ant 1	20M	QPSK	1	0	Front	10mm	132322	1745	24.46	24.50	1.009	-0.09	0.310	0.313
	LTE Band 66_Ant 1	20M	QPSK	50	0	Front	10mm	132322	1745	23.22	23.50	1.067	-0.08	0.239	0.255
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	132322	1745	24.46	24.50	1.009	0.1	0.409	0.413
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	132072	1720	24.46	24.50	1.009	0.02	0.356	0.359
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	132572	1770	24.46	24.50	1.009	-0.01	0.423	0.427
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	132322	1745	23.22	23.50	1.067	-0.11	0.313	0.334
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Side	10mm	132322	1745	24.46	24.50	1.009	0.03	0.158	0.159
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Side	10mm	132322	1745	23.22	23.50	1.067	-0.03	0.126	0.134
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Side	10mm	132322	1745	24.46	24.50	1.009	0.02	0.050	0.050
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Side	10mm	132322	1745	23.22	23.50	1.067	0.03	0.040	0.043
	LTE Band 66_Ant 1	20M	QPSK	1	0	Top Side	10mm	132322	1745	24.46	24.50	1.009	-0.08	0.251	0.253
	LTE Band 66_Ant 1	20M	QPSK	50	0	Top Side	10mm	132322	1745	23.22	23.50	1.067	-0.02	0.205	0.219
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_Ant 0	20M	QPSK	1	0	Front	10mm	132322	1745	18.66	18.70	1.009	-0.04	0.170	0.172
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	132322	1745	18.27	18.70	1.104	-0.04	0.174	0.192
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	132322	1745	18.66	18.70	1.009	0.03	0.144	0.145
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	132322	1745	18.27	18.70	1.104	0.1	0.146	0.161
	LTE Band 66_Ant 0	20M	QPSK	1	0	Left Side	10mm	132322	1745	18.66	18.70	1.009	0.09	0.062	0.063
	LTE Band 66_Ant 0	20M	QPSK	50	0	Left Side	10mm	132322	1745	18.27	18.70	1.104	0.03	0.064	0.071
	LTE Band 66_Ant 0	20M	QPSK	1	0	Right Side	10mm	132322	1745	18.66	18.70	1.009	0.06	0.022	0.022
	LTE Band 66_Ant 0	20M	QPSK	50	0	Right Side	10mm	132322	1745	18.27	18.70	1.104	0.03	0.024	0.026
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	132322	1745	18.66	18.70	1.009	-0.02	0.184	0.186
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	132072	1720	18.65	18.70	1.012	-0.06	0.180	0.182
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	132572	1770	18.55	18.70	1.035	-0.05	0.189	0.196
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	132322	1745	18.66	18.70	1.009	-0.02	0.184	0.186
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_Ant 0	20M	QPSK	1	0	Front	10mm	132322	1745	24.46	24.50	1.009	0.12	0.666	0.672
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	132322	1745	23.22	23.50	1.067	-0.06	0.529	0.564
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	132322	1745	24.46	24.50	1.009	-0.1	0.603	0.609
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	132322	1745	23.22	23.50	1.067	-0.03	0.522	0.557
	LTE Band 66_Ant 0	20M	QPSK	1	0	Left Side	10mm	132322	1745	24.46	24.50	1.009	-0.04	0.231	0.233
	LTE Band 66_Ant 0	20M	QPSK	50	0	Left Side	10mm	132322	1745	23.22	23.50	1.067	0.09	0.218	0.233
	LTE Band 66_Ant 0	20M	QPSK	1	0	Right Side	10mm	132322	1745	24.46	24.50	1.009	-0.07	0.102	0.103
	LTE Band 66_Ant 0	20M	QPSK	50	0	Right Side	10mm	132322	1745	23.22	23.50	1.067	-0.01	0.089	0.095
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	132322	1745	24.46	24.50	1.009	-0.11	0.844	0.852
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	132072	1720	24.36	24.50	1.033	-0.03	0.791	0.817
40	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	132572	1770	24.22	24.50	1.067	-0.07	0.886	0.945
	LTE Band 66_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	132322	1745	23.22	23.50	1.067	0.03	0.641	0.684
	LTE Band 66_Ant 0	20M	QPSK	100	0	Bottom Side	10mm	132322	1745	23.05	23.50	1.109	0.02	0.633	0.702

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_Ant 1	20M	QPSK	1	0	Front	10mm	133322	683	23.71	24.60	1.227	-0.01	0.136	0.167
	LTE Band 71_Ant 1	20M	QPSK	50	0	Front	10mm	133322	683	22.67	23.60	1.239	0.06	0.112	0.139
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	133322	683	23.71	24.60	1.227	-0.03	0.191	0.234
	LTE Band 71_Ant 1	20M	QPSK	50	0	Back	10mm	133322	683	22.67	23.60	1.239	-0.01	0.173	0.214
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Side	10mm	133322	683	23.71	24.60	1.227	0	0.125	0.153
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Side	10mm	133322	683	22.67	23.60	1.239	-0.01	0.103	0.128
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Side	10mm	133322	683	23.71	24.60	1.227	0.02	0.027	0.033
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Side	10mm	133322	683	22.67	23.60	1.239	-0.02	0.022	0.027
	LTE Band 71_Ant 1	20M	QPSK	1	0	Top Side	10mm	133322	683	23.71	24.60	1.227	-0.13	0.073	0.090
	LTE Band 71_Ant 1	20M	QPSK	50	0	Top Side	10mm	133322	683	22.67	23.60	1.239	-0.06	0.063	0.078
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_Ant 0	20M	QPSK	1	0	Front	10mm	133322	683	21.65	22.60	1.245	-0.01	0.067	0.083
	LTE Band 71_Ant 0	20M	QPSK	50	0	Front	10mm	133322	683	21.45	22.60	1.303	0.07	0.065	0.085
	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	10mm	133322	683	21.65	22.60	1.245	-0.01	0.128	0.159
	LTE Band 71_Ant 0	20M	QPSK	50	0	Back	10mm	133322	683	21.45	22.60	1.303	0	0.125	0.163
	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Side	10mm	133322	683	21.65	22.60	1.245	-0.01	0.054	0.067
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Side	10mm	133322	683	21.45	22.60	1.303	0.01	0.057	0.074
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Side	10mm	133322	683	21.65	22.60	1.245	-0.01	0.065	0.081
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Side	10mm	133322	683	21.45	22.60	1.303	-0.06	0.066	0.086
	LTE Band 71_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	133322	683	21.65	22.60	1.245	0.14	0.032	0.040
	LTE Band 71_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	133322	683	21.45	22.60	1.303	0.17	0.031	0.040
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 71_Ant 0	20M	QPSK	1	0	Front	10mm	133322	683	23.71	24.60	1.227	-0.03	0.110	0.135
	LTE Band 71_Ant 0	20M	QPSK	50	0	Front	10mm	133322	683	22.67	23.60	1.239	-0.03	0.084	0.104
41	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	10mm	133322	683	23.71	24.60	1.227	-0.06	0.198	0.243
	LTE Band 71_Ant 0	20M	QPSK	50	0	Back	10mm	133322	683	22.67	23.60	1.239	-0.03	0.158	0.196
	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Side	10mm	133322	683	23.71	24.60	1.227	-0.03	0.087	0.107
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Side	10mm	133322	683	22.67	23.60	1.239	-0.12	0.068	0.084
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Side	10mm	133322	683	23.71	24.60	1.227	-0.03	0.096	0.118
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Side	10mm	133322	683	22.67	23.60	1.239	-0.02	0.077	0.095
	LTE Band 71_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	133322	683	23.71	24.60	1.227	0.1	0.052	0.064
	LTE Band 71_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	133322	683	22.67	23.60	1.239	0.09	0.039	0.048

<TDD LTE SAR>

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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 38_Ant 2	20M	QPSK	1	0	Front	10mm	38000	2595	19.58	20.20	1.153	62.9	1.006	-0.01	0.170	0.197
	LTE Band 38_Ant 2	20M	QPSK	50	0	Front	10mm	38000	2595	19.55	20.20	1.161	62.9	1.006	-0.06	0.172	0.201
	LTE Band 38_Ant 2	20M	QPSK	1	0	Back	10mm	38000	2595	19.58	20.20	1.153	62.9	1.006	0.1	0.253	0.294
	LTE Band 38_Ant 2	20M	QPSK	1	0	Back	10mm	37850	2580	19.49	20.20	1.178	62.9	1.006	-0.02	0.193	0.229
	LTE Band 38_Ant 2	20M	QPSK	1	0	Back	10mm	38150	2610	19.53	20.20	1.167	62.9	1.006	0.06	0.208	0.244
	LTE Band 38_Ant 2	20M	QPSK	50	0	Back	10mm	38000	2595	19.55	20.20	1.161	62.9	1.006	-0.05	0.216	0.252
	LTE Band 38_Ant 2	20M	QPSK	50	0	Left Side	10mm	38000	2595	19.58	20.20	1.153	62.9	1.006	-0.02	0.006	0.007
	LTE Band 38_Ant 2	20M	QPSK	50	0	Left Side	10mm	38000	2595	19.55	20.20	1.161	62.9	1.006	-0.04	0.007	0.009
	LTE Band 38_Ant 2	20M	QPSK	1	0	Right Side	10mm	38000	2595	19.58	20.20	1.153	62.9	1.006	-0.1	0.214	0.248
	LTE Band 38_Ant 2	20M	QPSK	50	0	Right Side	10mm	38000	2595	19.55	20.20	1.161	62.9	1.006	-0.18	0.217	0.254
	LTE Band 38_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	38000	2595	19.58	20.20	1.153	62.9	1.006	-0.08	0.034	0.039
	LTE Band 38_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	38000	2595	19.55	20.20	1.161	62.9	1.006	-0.11	0.034	0.040
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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 38_Ant 2	20M	QPSK	1	0	Front	10mm	38000	2595	24.96	25.70	1.186	62.9	1.006	-0.1	0.613	0.731
	LTE Band 38_Ant 2	20M	QPSK	50	50	Front	10mm	38000	2595	24.00	24.70	1.175	62.9	1.006	-0.13	0.491	0.580
42	LTE Band 38_Ant 2	20M	QPSK	1	0	Back	10mm	38000	2595	24.96	25.70	1.186	62.9	1.006	0.09	0.736	0.878
	LTE Band 38_Ant 2	20M	QPSK	1	0	Back	10mm	37850	2580	24.92	25.70	1.197	62.9	1.006	0.08	0.718	0.864
	LTE Band 38_Ant 2	20M	QPSK	1	0	Back	10mm	38150	2610	24.91	25.70	1.199	62.9	1.006	0.06	0.723	0.872
	LTE Band 38_Ant 2	20M	QPSK	50	50	Back	10mm	38000	2595	24.00	24.70	1.175	62.9	1.006	0.05	0.664	0.785
	LTE Band 38_Ant 2	20M	QPSK	1	0	Left Side	10mm	38000	2595	24.96	25.70	1.186	62.9	1.006	-0.05	0.001	0.001
	LTE Band 38_Ant 2	20M	QPSK	50	50	Left Side	10mm	38000	2595	24.00	24.70	1.175	62.9	1.006	-0.06	0.016	0.019
	LTE Band 38_Ant 2	20M	QPSK	1	0	Right Side	10mm	38000	2595	24.96	25.70	1.186	62.9	1.006	-0.02	0.629	0.750
	LTE Band 38_Ant 2	20M	QPSK	50	50	Right Side	10mm	38000	2595	24.00	24.70	1.175	62.9	1.006	-0.13	0.533	0.630
	LTE Band 38_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	38000	2595	24.96	25.70	1.186	62.9	1.006	-0.13	0.110	0.131
	LTE Band 38_Ant 2	20M	QPSK	50	50	Bottom Side	10mm	38000	2595	24.00	24.70	1.175	62.9	1.006	-0.1	0.091	0.108

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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Ant 2	20M	QPSK	1	99	Front	10mm	40620	2593	19.74	20.00	1.062	62.9	1.006	-0.14	0.145	0.155
	LTE Band 41_Ant 2	20M	QPSK	50	0	Front	10mm	40620	2593	19.67	20.00	1.079	62.9	1.006	-0.17	0.149	0.162
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	40620	2593	19.74	20.00	1.062	62.9	1.006	0.01	0.241	0.257
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	39750	2506	19.30	20.00	1.175	62.9	1.006	0.15	0.146	0.173
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	40185	2549.5	19.50	20.00	1.122	62.9	1.006	0.03	0.178	0.201
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	41055	2636.5	19.74	20.00	1.062	62.9	1.006	0.02	0.223	0.238
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	41490	2680	19.59	20.00	1.099	62.9	1.006	-0.04	0.224	0.248
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	40620	2593	19.67	20.00	1.079	62.9	1.006	0.07	0.211	0.229
	LTE Band 41_Ant 2	20M	QPSK	1	99	Left Side	10mm	40620	2593	19.74	20.00	1.062	62.9	1.006	0.17	0.007	0.008
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Side	10mm	40620	2593	19.67	20.00	1.079	62.9	1.006	-0.14	0.005	0.006
	LTE Band 41_Ant 2	20M	QPSK	1	99	Right Side	10mm	40620	2593	19.74	20.00	1.062	62.9	1.006	0.04	0.192	0.205
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Side	10mm	40620	2593	19.67	20.00	1.079	62.9	1.006	0.02	0.177	0.192
	LTE Band 41_Ant 2	20M	QPSK	1	99	Bottom Side	10mm	40620	2593	19.74	20.00	1.062	62.9	1.006	-0.15	0.028	0.030
	LTE Band 41_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	40620	2593	19.67	20.00	1.079	62.9	1.006	-0.1	0.031	0.034
	LTE Band 41 HPUE_Ant 2	20M	QPSK	1	99	Back	10mm	40620	2593	19.58	20.00	1.102	42.9	1.009	0	0.140	0.156
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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Ant 2	20M	QPSK	1	99	Front	10mm	40620	2593	24.55	25.00	1.109	62.9	1.006	-0.19	0.554	0.618
	LTE Band 41_Ant 2	20M	QPSK	50	0	Front	10mm	40620	2593	23.56	24.00	1.107	62.9	1.006	-0.15	0.442	0.492
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	40620	2593	24.55	25.00	1.109	62.9	1.006	-0.16	0.590	0.658
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	40620	2593	23.56	24.00	1.107	62.9	1.006	-0.16	0.477	0.531
	LTE Band 41_Ant 2	20M	QPSK	1	99	Left Side	10mm	40620	2593	24.55	25.00	1.109	62.9	1.006	-0.17	0.017	0.019
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Side	10mm	40620	2593	23.56	24.00	1.107	62.9	1.006	-0.03	0.015	0.017
	LTE Band 41_Ant 2	20M	QPSK	1	99	Right Side	10mm	40620	2593	24.55	25.00	1.109	62.9	1.006	0.03	0.661	0.738
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Side	10mm	40620	2593	23.56	24.00	1.107	62.9	1.006	0.02	0.524	0.583
	LTE Band 41_Ant 2	20M	QPSK	1	99	Bottom Side	10mm	40620	2593	24.55	25.00	1.109	62.9	1.006	-0.03	0.105	0.117
	LTE Band 41_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	40620	2593	23.56	24.00	1.107	62.9	1.006	-0.12	0.082	0.091
	LTE Band 41_Ant 2	20M	QPSK	1	99	Right Side	10mm	39750	2506	24.29	25.00	1.178	62.9	1.006	0.01	0.460	0.545
	LTE Band 41_Ant 2	20M	QPSK	1	99	Right Side	10mm	40185	2549.5	24.36	25.00	1.159	62.9	1.006	0	0.568	0.662
	LTE Band 41_Ant 2	20M	QPSK	1	99	Right Side	10mm	41055	2636.5	24.45	25.00	1.135	62.9	1.006	0.01	0.702	0.802
43	LTE Band 41_Ant 2	20M	QPSK	1	99	Right Side	10mm	41490	2680	24.35	25.00	1.161	62.9	1.006	0	0.696	0.813
	LTE Band 41 HPUE_Ant 2	20M	QPSK	1	99	Right Side	10mm	41490	2680	25.92	26.50	1.143	42.9	1.009	0.11	0.626	0.722

<WLAN SAR>

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 0	1	2412	17.80	18.00	1.047	99.23	1.008	-0.09	0.161	0.170
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 0	1	2412	17.80	18.00	1.047	99.23	1.008	-0.11	0.259	0.273
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 0	1	2412	17.80	18.00	1.047	99.23	1.008	0.05	0.117	0.123
	WLAN2.4GHz	802.11b 1Mbps	Top side	10mm	Ant 0	1	2412	17.80	18.00	1.047	99.23	1.008	-0.12	0.096	0.101
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 1	1	2412	18.00	18.00	1.000	99.03	1.010	-0.11	0.123	0.124
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 1	1	2412	18.00	18.00	1.000	99.03	1.010	-0.15	0.220	0.222
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 1	1	2412	18.00	18.00	1.000	99.03	1.010	-0.14	0.172	0.174
	WLAN2.4GHz	802.11b 1Mbps	Top side	10mm	Ant 1	1	2412	18.00	18.00	1.000	99.03	1.010	0	0.034	0.034
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 0+1	11	2462	17.80	18.00	1.047	99.15	1.009	-0.03	0.258	0.273
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 0+1	11	2462	17.80	18.00	1.047	99.15	1.009	-0.13	0.547	0.578
44	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 0+1	1	2412	17.80	18.00	1.047	99.15	1.009	-0.11	0.568	0.600
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 0+1	6	2437	17.60	18.00	1.096	99.15	1.009	-0.11	0.500	0.553
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 0+1	11	2462	17.80	18.00	1.047	99.15	1.009	-0.07	0.472	0.499
	WLAN2.4GHz	802.11b 1Mbps	Top side	10mm	Ant 0+1	11	2462	17.80	18.00	1.047	99.15	1.009	-0.05	0.156	0.165
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 0	46	5230	17.40	17.50	1.023	95.94	1.042	0	0.147	0.157
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 0	46	5230	17.40	17.50	1.023	95.94	1.042	-0.12	0.345	0.368
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 0	46	5230	17.40	17.50	1.023	95.94	1.042	-0.12	0.128	0.136
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 0	46	5230	17.40	17.50	1.023	95.94	1.042	-0.16	0.281	0.300
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 1	46	5230	17.20	17.50	1.072	95.94	1.042	-0.06	0.089	0.099
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 1	46	5230	17.20	17.50	1.072	95.94	1.042	-0.08	0.437	0.488
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 1	46	5230	17.20	17.50	1.072	95.94	1.042	-0.04	0.408	0.456
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 1	46	5230	17.20	17.50	1.072	95.94	1.042	0.04	0.084	0.094
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 0+1	46	5230	17.10	17.50	1.096	95.94	1.042	-0.14	0.171	0.195
45	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 0+1	46	5230	17.10	17.50	1.096	95.94	1.042	-0.01	0.505	0.577
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 0+1	38	5190	12.70	13.00	1.072	95.94	1.042	0.03	0.162	0.181
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 0+1	46	5230	17.10	17.50	1.096	95.94	1.042	0.14	0.401	0.458
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 0+1	46	5230	17.10	17.50	1.096	95.94	1.042	-0.16	0.335	0.383
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 0	155	5775	17.30	17.50	1.047	92.31	1.083	-0.16	0.178	0.202
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 0	155	5775	17.30	17.50	1.047	92.31	1.083	0.04	0.426	0.483
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 0	155	5775	17.30	17.50	1.047	92.31	1.083	-0.02	0.132	0.150
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 0	155	5775	17.30	17.50	1.047	92.31	1.083	-0.11	0.386	0.438
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 1	155	5775	17.40	17.50	1.023	92.68	1.079	0.06	0.075	0.083
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 1	155	5775	17.40	17.50	1.023	92.68	1.079	0.07	0.291	0.321
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 1	155	5775	17.40	17.50	1.023	92.68	1.079	-0.02	0.242	0.267
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 1	155	5775	17.40	17.50	1.023	92.68	1.079	0.11	0.074	0.082
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 0+1	155	5775	16.90	17.50	1.148	92.68	1.079	-0.01	0.190	0.235
46	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 0+1	155	5775	16.90	17.50	1.148	92.68	1.079	-0.02	0.525	0.650
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 0+1	155	5775	16.90	17.50	1.148	92.68	1.079	0.13	0.377	0.467
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 0+1	155	5775	16.90	17.50	1.148	92.68	1.079	-0.15	0.441	0.546

<Bluetooth SAR>

WWAN ON														
Plot No.	Band	Mode	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)
	Bluetooth	1Mbps	Front	10mm	0	2402	17.98	18.00	1.004	77.2	1.079	0.06	0.128	0.139
	Bluetooth	1Mbps	Back	10mm	0	2402	17.98	18.00	1.004	77.2	1.079	-0.01	0.160	0.173
	Bluetooth	1Mbps	Back	10mm	39	2441	17.83	18.00	1.039	77.2	1.079	0.01	0.166	0.186
47	Bluetooth	1Mbps	Back	10mm	78	2480	17.12	18.00	1.224	77.2	1.079	-0.17	0.178	0.235
	Bluetooth	1Mbps	Right Side	10mm	0	2402	17.98	18.00	1.004	77.2	1.079	0.12	0.069	0.075
	Bluetooth	1Mbps	Top Side	10mm	0	2402	17.98	18.00	1.004	77.2	1.079	0.12	0.055	0.060

17.3 Body Worn Accessory SAR

<GSM SAR>

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_Ant 0	GPRS (4 Tx slots)	Front	10mm	251	848.8	28.03	29.00	1.250	-0.08	0.517	0.646
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	251	848.8	28.03	29.00	1.250	-0.03	0.709	0.886
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	128	824.2	27.81	29.00	1.315	-0.06	0.624	0.821
48	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	189	824.2	27.82	29.00	1.312	0.08	0.710	0.932
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_Ant 0	GPRS (4 Tx slots)	Front	10mm	251	848.8	23.61	25.00	1.377	-0.06	0.104	0.143
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	251	848.8	23.61	25.00	1.377	-0.14	0.114	0.157
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	128	824.2	23.41	25.00	1.442	-0.02	0.103	0.149
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	189	836.4	23.57	25.00	1.390	-0.04	0.108	0.150
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)
	GSM850_Ant 0	GPRS (4 Tx slots)	Front	10mm	251	848.8	28.03	29.00	1.250	-0.07	0.251	0.314
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	251	848.8	28.03	29.00	1.250	0.16	0.317	0.396
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	128	824.2	27.81	29.00	1.315	-0.04	0.256	0.337
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	189	836.4	27.82	29.00	1.312	0.01	0.300	0.394

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_Ant 1	GPRS (4 Tx Slots)	Front	10mm	512	1850.2	25.64	26.50	1.219	0.07	0.192	0.234
	GSM1900_Ant 1	GPRS (4 Tx Slots)	Back	10mm	512	1850.2	25.64	26.50	1.219	-0.18	0.212	0.258
	GSM1900_Ant 1	GPRS (4 Tx Slots)	Back	10mm	661	1880	25.52	26.50	1.253	-0.09	0.251	0.315
	GSM1900_Ant 1	GPRS (4 Tx Slots)	Back	10mm	810	1909.8	25.41	26.50	1.285	-0.18	0.343	0.441
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_Ant 0	GPRS (4 Tx slots)	Front	10mm	512	1850.2	21.97	22.50	1.130	0.12	0.063	0.071
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	512	1850.2	21.97	22.50	1.130	0.06	0.241	0.272
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	661	1880	21.85	22.50	1.161	0.12	0.232	0.269
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	810	1909.8	21.72	22.50	1.197	0.04	0.244	0.292
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_Ant 0	GPRS (4 Tx slots)	Front	10mm	512	1850.2	25.64	26.50	1.219	0.04	0.464	0.566
49	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	512	1850.2	25.64	26.50	1.219	-0.04	0.827	1.008
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	661	1880	25.52	26.50	1.253	-0.04	0.626	0.784
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	810	1909.8	25.41	26.50	1.285	-0.06	0.494	0.635

<WCDMA SAR>

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_Ant 1	RMC 12.2Kbps	Front	10mm	9538	1907.6	19.60	19.60	1.000	0	0.192	0.192
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9538	1907.6	19.60	19.60	1.000	-0.11	0.247	0.247
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9262	1852.4	19.42	19.60	1.042	-0.14	0.215	0.224
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9400	1880	19.40	19.60	1.047	-0.12	0.235	0.246
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_Ant 1	RMC 12.2Kbps	Front	10mm	9538	1907.6	25.58	25.70	1.028	0	0.742	0.763
50	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9538	1907.6	25.58	25.70	1.028	0	1.000	1.028
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9262	1852.4	25.41	25.70	1.069	0	0.877	0.938
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9400	1880	25.40	25.70	1.072	0	0.742	0.763

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_Ant 1	RMC 12.2Kbps	Front	10mm	1312	1712.4	23.68	24.00	1.076	-0.06	0.267	0.287
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	1312	1712.4	23.68	24.00	1.076	-0.12	0.301	0.324
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	1413	1732.6	23.64	24.00	1.086	-0.14	0.311	0.338
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	1513	1752.6	23.55	24.00	1.109	-0.13	0.312	0.346
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_Ant 0	RMC 12.2Kbps	Front	10mm	1312	1712.4	18.72	19.00	1.067	0.02	0.181	0.193
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	1413	1732.6	18.65	19.00	1.084	0.05	0.175	0.190
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	1513	1752.6	18.66	19.00	1.081	-0.07	0.179	0.194
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	1312	1712.4	18.72	19.00	1.067	0.13	0.172	0.183
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_Ant 0	RMC 12.2Kbps	Front	10mm	1312	1712.4	23.68	24.00	1.076	-0.01	0.540	0.581
51	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	1312	1712.4	23.68	24.00	1.076	-0.13	0.568	0.611
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	1413	1732.6	23.64	24.00	1.086	0.12	0.537	0.583
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	1513	1752.6	23.55	24.00	1.109	-0.09	0.532	0.590

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_Ant 1	RMC 12.2Kbps	Front	10mm	4132	826.4	23.62	24.40	1.197	-0.14	0.305	0.365
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	4132	826.4	23.62	24.40	1.197	-0.07	0.428	0.512
52	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	4182	836.4	23.53	24.40	1.222	-0.04	0.476	0.582
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	4233	846.6	23.39	24.40	1.262	-0.02	0.436	0.550
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_Ant 0	RMC 12.2Kbps	Front	10mm	4132	826.4	19.68	21.40	1.486	0.05	0.102	0.152
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4132	826.4	19.68	21.40	1.486	0	0.137	0.204
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4182	836.4	19.56	21.40	1.528	-0.18	0.167	0.255
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4233	846.6	19.47	21.40	1.560	0.04	0.121	0.189
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 V_Ant 0	RMC 12.2Kbps	Front	10mm	4132	826.4	23.62	24.50	1.225	0	0.193	0.236
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4132	826.4	23.62	24.50	1.225	-0.05	0.285	0.349
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4182	836.4	23.53	24.50	1.250	-0.01	0.296	0.370
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4233	846.6	23.39	24.50	1.291	0	0.256	0.331

<CDMA SAR>

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)
	CDMA2000 BC0_Ant 1	1xRTT RC3 SO32	Front	10mm	384	836.52	24.66	25.50	1.213	-0.14	0.417	0.506
53	CDMA2000 BC0_Ant 1	1xRTT RC3 SO32	Back	10mm	384	836.52	24.66	25.50	1.213	-0.07	0.530	0.643
	CDMA2000 BC0_Ant 1	1xRTT RC3 SO32	Back	10mm	1013	824.7	24.60	25.50	1.230	-0.03	0.477	0.587
	CDMA2000 BC0_Ant 1	1xRTT RC3 SO32	Back	10mm	777	848.31	24.65	25.50	1.216	-0.01	0.499	0.607
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)
	CDMA2000 BC0_Ant 0	1xRTT RC3 SO32	Front	10mm	1013	824.7	20.57	21.50	1.239	-0.09	0.097	0.120
	CDMA2000 BC0_Ant 0	1xRTT RC3 SO32	Back	10mm	1013	824.7	20.57	21.50	1.239	-0.08	0.147	0.182
	CDMA2000 BC0_Ant 0	1xRTT RC3 SO32	Back	10mm	777	848.31	20.34	21.50	1.306	-0.13	0.140	0.183
	CDMA2000 BC0_Ant 0	1xRTT RC3 SO32	Back	10mm	384	836.52	20.32	21.50	1.312	-0.09	0.130	0.171
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)
	CDMA2000 BC0_Ant 0	1xRTT RC3 SO32	Front	10mm	384	836.52	24.66	25.50	1.213	-0.01	0.277	0.336
	CDMA2000 BC0_Ant 0	1xRTT RC3 SO32	Back	10mm	384	836.52	24.66	25.50	1.213	0.03	0.336	0.408
	CDMA2000 BC0_Ant 0	1xRTT RC3 SO32	Back	10mm	1013	824.7	24.60	25.50	1.230	0.01	0.381	0.469
	CDMA2000 BC0_Ant 0	1xRTT RC3 SO32	Back	10mm	777	848.31	24.65	25.50	1.216	0.01	0.312	0.379

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)
	CDMA2000 BC1_Ant 1	RC3 SO32 (F+SCH)	Front	10mm	600	1880	18.83	19.00	1.040	0	0.146	0.152
	CDMA2000 BC1_Ant 1	RC3 SO32 (F+SCH)	Back	10mm	600	1880	18.83	19.00	1.040	0.01	0.203	0.211
	CDMA2000 BC1_Ant 1	RC3 SO32 (F+SCH)	Back	10mm	25	1851.25	18.93	19.00	1.016	-0.04	0.195	0.198
	CDMA2000 BC1_Ant 1	RC3 SO32 (F+SCH)	Back	10mm	1175	1908.75	18.87	19.00	1.030	-0.04	0.222	0.229
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)
	CDMA2000 BC1_Ant 1	RC3 SO32 (F+SCH)	Front	10mm	600	1880	24.98	25.00	1.005	-0.04	0.615	0.618
	CDMA2000 BC1_Ant 1	RC3 SO32 (F+SCH)	Back	10mm	600	1880	24.98	25.00	1.005	-0.06	0.757	0.760
	CDMA2000 BC1_Ant 1	RC3 SO32 (F+SCH)	Back	10mm	25	1851.25	24.99	25.00	1.002	-0.13	0.735	0.737
54	CDMA2000 BC1_Ant 1	RC3 SO32 (F+SCH)	Back	10mm	1175	1908.75	24.95	25.00	1.012	-0.09	0.826	0.836

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)
	CDMA2000 BC10_Ant 1	1xRTT RC3 SO32	Front	10mm	580	820.5	24.58	25.50	1.236	0.03	0.360	0.445
55	CDMA2000 BC10_Ant 1	1xRTT RC3 SO32	Back	10mm	580	820.5	24.58	25.50	1.236	0	0.471	0.582
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)
	CDMA2000 BC10_Ant 0	1xRTT RC3 SO55	Front	10mm	580	820.5	22.33	23.50	1.309	-0.04	0.111	0.145
	CDMA2000 BC10_Ant 0	1xRTT RC3 SO55	Back	10mm	580	820.5	22.33	23.50	1.309	-0.06	0.147	0.192
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)
	CDMA2000 BC10_Ant 0	1xRTT RC3 SO32	Front	10mm	580	820.5	24.58	25.50	1.236	-0.03	0.189	0.234
	CDMA2000 BC10_Ant 0	1xRTT RC3 SO32	Back	10mm	580	820.5	24.58	25.50	1.236	-0.01	0.245	0.303

<FDD LTE SAR>

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_Ant 2	20M	QPSK	1	0	Front	10mm	20850	2510	18.18	18.50	1.076	-0.05	0.168	0.181
	LTE Band 7_Ant 2	20M	QPSK	50	50	Front	10mm	20850	2510	17.92	18.50	1.143	-0.09	0.159	0.182
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	20850	2510	18.18	18.50	1.076	0.01	0.207	0.223
	LTE Band 7_Ant 2	20M	QPSK	50	50	Back	10mm	20850	2510	17.92	18.50	1.143	0.02	0.220	0.251
	LTE Band 7_Ant 2	20M	QPSK	50	50	Back	10mm	21100	2535	17.79	18.50	1.178	-0.04	0.199	0.234
	LTE Band 7_Ant 2	20M	QPSK	50	50	Back	10mm	21350	2560	17.78	18.50	1.180	0.02	0.209	0.247
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 7_Ant 2	20M	QPSK	1	0	Front	10mm	20850	2510	24.03	24.50	1.114	-0.11	0.680	0.758
	LTE Band 7_Ant 2	20M	QPSK	50	50	Front	10mm	20850	2510	23.01	23.50	1.119	-0.15	0.509	0.570
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	20850	2510	24.03	24.50	1.114	-0.06	0.855	0.953
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	21100	2535	23.94	24.50	1.138	0.02	0.779	0.886
56	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	21350	2560	23.82	24.50	1.169	0.1	0.818	0.957
	LTE Band 7_Ant 2	20M	QPSK	50	50	Back	10mm	20850	2510	23.01	23.50	1.119	0.01	0.652	0.730
	LTE Band 7_Ant 2	20M	QPSK	100	0	Back	10mm	20850	2510	22.94	23.50	1.138	0	0.669	0.761

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_Ant 1	10M	QPSK	1	0	Front	10mm	23095	707.5	24.70	25.70	1.259	-0.01	0.189	0.238
	LTE Band 12_Ant 1	10M	QPSK	25	0	Front	10mm	23095	707.5	23.77	24.70	1.239	-0.05	0.154	0.191
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	23095	707.5	24.70	25.70	1.259	-0.1	0.299	0.376
	LTE Band 12_Ant 1	10M	QPSK	25	0	Back	10mm	23095	707.5	23.77	24.70	1.239	-0.07	0.284	0.352
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_Ant 0	10M	QPSK	1	0	Front	10mm	23095	707.5	21.87	22.70	1.211	-0.08	0.144	0.174
	LTE Band 12_Ant 0	10M	QPSK	25	0	Front	10mm	23095	707.5	21.72	22.70	1.253	0.01	0.150	0.188
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	10mm	23095	707.5	21.87	22.70	1.211	-0.12	0.189	0.229
	LTE Band 12_Ant 0	10M	QPSK	25	0	Back	10mm	23095	707.5	21.72	22.70	1.253	-0.03	0.192	0.241
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 12_Ant 0	10M	QPSK	1	0	Front	10mm	23095	707.5	24.70	25.70	1.259	-0.1	0.243	0.306
	LTE Band 12_Ant 0	10M	QPSK	25	0	Front	10mm	23095	707.5	23.72	24.70	1.253	-0.07	0.230	0.288
57	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	10mm	23095	707.5	24.70	25.70	1.259	-0.01	0.311	0.392
	LTE Band 12_Ant 0	10M	QPSK	25	0	Back	10mm	23095	707.5	23.72	24.70	1.253	0.02	0.296	0.371

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_Ant 1	10M	QPSK	1	0	Front	10mm	23230	782	24.07	25.30	1.327	-0.03	0.226	0.300
	LTE Band 13_Ant 1	10M	QPSK	25	0	Front	10mm	23230	782	23.15	24.30	1.303	-0.07	0.234	0.305
58	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	23230	782	24.07	25.30	1.327	-0.17	0.343	0.455
	LTE Band 13_Ant 1	10M	QPSK	25	0	Back	10mm	23230	782	23.15	24.30	1.303	-0.06	0.304	0.396
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_Ant 0	10M	QPSK	1	0	Front	10mm	23230	782	21.29	22.30	1.262	-0.01	0.145	0.183
	LTE Band 13_Ant 0	10M	QPSK	25	0	Front	10mm	23230	782	21.10	22.30	1.318	-0.01	0.143	0.189
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	23230	782	21.29	22.30	1.262	0.01	0.165	0.208
	LTE Band 13_Ant 0	10M	QPSK	25	0	Back	10mm	23230	782	21.10	22.30	1.318	0.01	0.164	0.216
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 13_Ant 0	10M	QPSK	1	0	Front	10mm	23230	782	24.03	25.30	1.340	-0.13	0.241	0.323
	LTE Band 13_Ant 0	10M	QPSK	25	0	Front	10mm	23230	782	23.15	24.30	1.303	0.01	0.234	0.305
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	23230	782	24.03	25.30	1.340	-0.14	0.257	0.344
	LTE Band 13_Ant 0	10M	QPSK	25	0	Back	10mm	23230	782	23.15	24.30	1.303	-0.12	0.259	0.338

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 14_Ant 1	10M	QPSK	1	0	Front	10mm	23330	793	24.19	25.50	1.352	-0.02	0.330	0.446
	LTE Band 14_Ant 1	10M	QPSK	25	0	Front	10mm	23330	793	23.29	24.50	1.321	-0.07	0.266	0.351
59	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	23330	793	24.19	25.50	1.352	-0.03	0.508	0.687
	LTE Band 14_Ant 1	10M	QPSK	25	0	Back	10mm	23330	793	23.29	24.50	1.321	-0.1	0.464	0.613
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 14_Ant 0	10M	QPSK	1	0	Front	10mm	23330	793	21.49	22.50	1.262	0.03	0.142	0.179
	LTE Band 14_Ant 0	10M	QPSK	25	0	Front	10mm	23330	793	21.25	22.50	1.334	-0.03	0.140	0.187
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	10mm	23330	793	21.49	22.50	1.262	0.05	0.169	0.213
	LTE Band 14_Ant 0	10M	QPSK	25	0	Back	10mm	23330	793	21.25	22.50	1.334	0.02	0.167	0.223
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 14_Ant 0	10M	QPSK	1	0	Front	10mm	23330	793	24.19	25.50	1.352	0.01	0.253	0.342
	LTE Band 14_Ant 0	10M	QPSK	25	0	Front	10mm	23330	793	23.29	24.50	1.321	0.02	0.229	0.303
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	10mm	23330	793	24.19	25.50	1.352	-0.01	0.290	0.392
	LTE Band 14_Ant 0	10M	QPSK	25	0	Back	10mm	23330	793	23.29	24.50	1.321	-0.02	0.265	0.350

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_Ant 1	20M	QPSK	1	0	Front	10mm	26340	1880	19.15	19.70	1.135	-0.05	0.187	0.212
	LTE Band 25_Ant 1	20M	QPSK	50	0	Front	10mm	26340	1880	19.10	19.70	1.148	-0.09	0.191	0.219
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	26340	1880	19.15	19.70	1.135	-0.02	0.249	0.283
	LTE Band 25_Ant 1	20M	QPSK	50	0	Back	10mm	26340	1880	19.10	19.70	1.148	-0.09	0.255	0.293
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	26140	1860	19.07	19.70	1.156	-0.16	0.245	0.283
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	26590	1905	18.93	19.70	1.194	-0.15	0.256	0.306
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_Ant 1	20M	QPSK	1	0	Front	10mm	26340	1880	25.35	25.70	1.084	-0.04	0.723	0.784
	LTE Band 25_Ant 1	20M	QPSK	1	0	Front	10mm	26140	1860	25.22	25.70	1.117	-0.02	0.682	0.762
	LTE Band 25_Ant 1	20M	QPSK	1	0	Front	10mm	26590	1905	25.17	25.70	1.130	-0.01	0.741	0.837
	LTE Band 25_Ant 1	20M	QPSK	50	0	Front	10mm	26340	1880	24.41	24.70	1.069	0.01	0.534	0.571
	LTE Band 25_Ant 1	20M	QPSK	100	0	Front	10mm	26340	1880	24.33	24.70	1.089	-0.02	0.591	0.644
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	26340	1880	25.35	25.70	1.084	0	0.873	0.946
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	26140	1860	25.22	25.70	1.117	0.05	0.802	0.896
60	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	26590	1905	25.17	25.70	1.130	0.02	0.923	1.043
	LTE Band 25_Ant 1	20M	QPSK	50	0	Back	10mm	26340	1880	24.41	24.70	1.069	-0.04	0.692	0.740
	LTE Band 25_Ant 1	20M	QPSK	50	0	Back	10mm	26140	1860	24.35	24.70	1.084	0.01	0.715	0.775
	LTE Band 25_Ant 1	20M	QPSK	50	0	Back	10mm	26590	1905	24.32	24.70	1.091	0	0.798	0.871
	LTE Band 25_Ant 1	20M	QPSK	100	0	Back	10mm	26340	1880	24.33	24.70	1.089	-0.01	0.755	0.822

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_Ant 1	15M	QPSK	1	0	Front	10mm	26865	831.5	24.60	25.70	1.288	-0.17	0.394	0.508
	LTE Band 26_Ant 1	15M	QPSK	36	0	Front	10mm	26865	831.5	23.62	24.70	1.282	0.01	0.334	0.428
61	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	26865	831.5	24.60	25.70	1.288	-0.06	0.585	0.754
	LTE Band 26_Ant 1	15M	QPSK	36	0	Back	10mm	26865	831.5	23.62	24.70	1.282	-0.07	0.499	0.640
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_Ant 0	15M	QPSK	1	37	Front	10mm	26865	831.5	21.59	22.70	1.291	0	0.112	0.145
	LTE Band 26_Ant 0	15M	QPSK	36	20	Front	10mm	26865	831.5	21.43	22.70	1.340	0.02	0.115	0.154
	LTE Band 26_Ant 0	15M	QPSK	1	37	Back	10mm	26865	831.5	21.59	22.70	1.291	-0.16	0.193	0.249
	LTE Band 26_Ant 0	15M	QPSK	36	20	Back	10mm	26865	831.5	21.43	22.70	1.340	-0.14	0.195	0.261
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 26_Ant 0	15M	QPSK	1	0	Front	10mm	26865	831.5	24.60	25.70	1.288	-0.02	0.202	0.260
	LTE Band 26_Ant 0	15M	QPSK	36	0	Front	10mm	26865	831.5	23.62	24.70	1.282	-0.01	0.170	0.218
	LTE Band 26_Ant 0	15M	QPSK	1	0	Back	10mm	26865	831.5	24.60	25.70	1.288	-0.14	0.345	0.444
	LTE Band 26_Ant 0	15M	QPSK	36	0	Back	10mm	26865	831.5	23.62	24.70	1.282	-0.13	0.309	0.396

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_Ant 3	10M	QPSK	1	0	Front	10mm	27710	2310	24.73	25.70	1.250	0.05	0.199	0.249
	LTE Band 30_Ant 3	10M	QPSK	25	0	Front	10mm	27710	2310	23.78	24.70	1.236	0.08	0.158	0.195
	LTE Band 30_Ant 3	10M	QPSK	1	0	Back	10mm	27710	2310	24.73	25.70	1.250	-0.04	0.654	0.818
	LTE Band 30_Ant 3	10M	QPSK	25	0	Back	10mm	27710	2310	23.78	24.70	1.236	0.02	0.517	0.639
	LTE Band 30_Ant 3	10M	QPSK	50	0	Back	10mm	27710	2310	23.74	24.70	1.247	0.02	0.541	0.675
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_Ant 2	10M	QPSK	1	0	Front	10mm	27710	2310	19.59	20.70	1.291	-0.12	0.272	0.351
	LTE Band 30_Ant 2	10M	QPSK	25	0	Front	10mm	27710	2310	19.53	20.70	1.309	-0.05	0.277	0.363
	LTE Band 30_Ant 2	10M	QPSK	1	0	Back	10mm	27710	2310	19.59	20.70	1.291	0.05	0.282	0.364
	LTE Band 30_Ant 2	10M	QPSK	25	0	Back	10mm	27710	2310	19.53	20.70	1.309	0.02	0.285	0.373
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)
62	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	27710	2310	24.76	25.70	1.242	0.01	0.886	1.100
	LTE Band 30_Ant 2	10M	QPSK	25	0	Front	10mm	27710	2310	23.78	24.70	1.236	-0.03	0.729	0.901
	LTE Band 30_Ant 2	10M	QPSK	50	0	Front	10mm	27710	2310	23.74	24.70	1.247	0.02	0.715	0.892
	LTE Band 30_Ant 2	10M	QPSK	1	0	Back	10mm	27710	2310	24.76	25.70	1.242	0.03	0.760	0.944
	LTE Band 30_Ant 2	10M	QPSK	25	0	Back	10mm	27710	2310	23.78	24.70	1.236	-0.03	0.627	0.775
	LTE Band 30_Ant 2	10M	QPSK	50	0	Back	10mm	27710	2310	23.74	24.70	1.247	-0.06	0.602	0.751

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_Ant 0	20M	QPSK	1	0	Front	10mm	132322	1745	18.66	18.70	1.009	-0.04	0.170	0.172
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	132322	1745	18.27	18.70	1.104	-0.04	0.174	0.192
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	132072	1720	18.65	18.70	1.012	-0.05	0.152	0.154
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	132572	1770	18.55	18.70	1.035	0.08	0.149	0.154
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	132322	1745	18.66	18.70	1.009	0.03	0.144	0.145
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	132322	1745	18.27	18.70	1.104	0.1	0.146	0.161
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)
63	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	132322	1745	24.46	24.50	1.009	0.12	0.666	0.672
	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	132322	1745	23.22	23.50	1.067	-0.06	0.529	0.564
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	132322	1745	24.46	24.50	1.009	-0.1	0.603	0.609
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	132322	1745	23.22	23.50	1.067	-0.03	0.522	0.557
	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	132322	1745	24.46	24.50	1.009	0.12	0.666	0.672
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	132322	1745	23.22	23.50	1.067	-0.06	0.529	0.564

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_Ant 1	20M	QPSK	1	0	Front	10mm	133322	683	23.71	24.60	1.227	-0.01	0.136	0.167
	LTE Band 71_Ant 1	20M	QPSK	50	0	Front	10mm	133322	683	22.67	23.60	1.239	0.06	0.112	0.139
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	133322	683	23.71	24.60	1.227	-0.03	0.191	0.234
	LTE Band 71_Ant 1	20M	QPSK	50	0	Back	10mm	133322	683	22.67	23.60	1.239	-0.01	0.173	0.214
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_Ant 0	20M	QPSK	1	0	Front	10mm	133322	683	21.65	22.60	1.245	-0.01	0.067	0.083
	LTE Band 71_Ant 0	20M	QPSK	50	0	Front	10mm	133322	683	21.45	22.60	1.303	0.07	0.065	0.085
	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	10mm	133322	683	21.65	22.60	1.245	-0.01	0.128	0.159
	LTE Band 71_Ant 0	20M	QPSK	50	0	Back	10mm	133322	683	21.45	22.60	1.303	0	0.125	0.163
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 71_Ant 0	20M	QPSK	1	0	Front	10mm	133322	683	23.71	24.60	1.227	-0.03	0.110	0.135
	LTE Band 71_Ant 0	20M	QPSK	50	0	Front	10mm	133322	683	22.67	23.60	1.239	-0.03	0.084	0.104
64	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	10mm	133322	683	23.71	24.60	1.227	-0.06	0.198	0.243
	LTE Band 71_Ant 0	20M	QPSK	50	0	Back	10mm	133322	683	22.67	23.60	1.239	-0.03	0.158	0.196

<TDD LTE SAR>

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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 38_Ant 2	20M	QPSK	1	0	Front	10mm	38000	2595	19.58	20.20	1.153	62.9	1.006	-0.01	0.170	0.197
	LTE Band 38_Ant 2	20M	QPSK	50	0	Front	10mm	38000	2595	19.55	20.20	1.161	62.9	1.006	-0.06	0.172	0.201
	LTE Band 38_Ant 2	20M	QPSK	1	0	Back	10mm	38000	2595	19.58	20.20	1.153	62.9	1.006	0.1	0.253	0.294
	LTE Band 38_Ant 2	20M	QPSK	1	0	Back	10mm	37850	2580	19.49	20.20	1.178	62.9	1.006	-0.02	0.193	0.229
	LTE Band 38_Ant 2	20M	QPSK	1	0	Back	10mm	38150	2610	19.53	20.20	1.167	62.9	1.006	0.06	0.208	0.244
	LTE Band 38_Ant 2	20M	QPSK	50	0	Back	10mm	38000	2595	19.55	20.20	1.161	62.9	1.006	-0.05	0.216	0.252
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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 38_Ant 2	20M	QPSK	1	0	Front	10mm	38000	2595	24.96	25.70	1.186	62.9	1.006	-0.1	0.613	0.731
	LTE Band 38_Ant 2	20M	QPSK	50	50	Front	10mm	38000	2595	24.00	24.70	1.175	62.9	1.006	-0.13	0.491	0.580
65	LTE Band 38_Ant 2	20M	QPSK	1	0	Back	10mm	38000	2595	24.96	25.70	1.186	62.9	1.006	0.09	0.736	0.878
	LTE Band 38_Ant 2	20M	QPSK	1	0	Back	10mm	37850	2580	24.92	25.70	1.197	62.9	1.006	0.08	0.718	0.864
	LTE Band 38_Ant 2	20M	QPSK	1	0	Back	10mm	38150	2610	24.91	25.70	1.199	62.9	1.006	0.06	0.723	0.872
	LTE Band 38_Ant 2	20M	QPSK	50	50	Back	10mm	38000	2595	24.00	24.70	1.175	62.9	1.006	0.05	0.664	0.785

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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Ant 2	20M	QPSK	1	99	Front	10mm	40620	2593	19.74	20.00	1.062	62.9	1.006	-0.14	0.145	0.155
	LTE Band 41_Ant 2	20M	QPSK	50	0	Front	10mm	40620	2593	19.67	20.00	1.079	62.9	1.006	-0.17	0.149	0.162
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	40620	2593	19.74	20.00	1.062	62.9	1.006	0.01	0.241	0.257
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	39750	2506	19.30	20.00	1.175	62.9	1.006	0.15	0.146	0.173
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	40185	2549.5	19.50	20.00	1.122	62.9	1.006	0.03	0.178	0.201
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	41055	2636.5	19.74	20.00	1.062	62.9	1.006	0.02	0.223	0.238
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	41490	2680	19.59	20.00	1.099	62.9	1.006	-0.04	0.224	0.248
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	40620	2593	19.67	20.00	1.079	62.9	1.006	0.07	0.211	0.229
	LTE Band 41 HPUE_Ant 2	20M	QPSK	1	99	Back	10mm	40620	2593	19.58	20.00	1.102	42.9	1.009	0	0.140	0.156
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	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Ant 2	20M	QPSK	1	99	Front	10mm	40620	2593	24.55	25.00	1.109	62.9	1.006	-0.19	0.554	0.618
	LTE Band 41_Ant 2	20M	QPSK	50	0	Front	10mm	40620	2593	23.56	24.00	1.107	62.9	1.006	-0.15	0.442	0.492
66	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	40620	2593	24.55	25.00	1.109	62.9	1.006	-0.16	0.590	0.658
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	39750	2506	24.29	25.00	1.178	62.9	1.006	0.04	0.411	0.487
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	40185	2549.5	24.36	25.00	1.159	62.9	1.006	0.07	0.379	0.442
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	41055	2636.5	24.45	25.00	1.135	62.9	1.006	0.03	0.562	0.642
	LTE Band 41_Ant 2	20M	QPSK	1	99	Back	10mm	41490	2680	24.35	25.00	1.161	62.9	1.006	-0.09	0.537	0.627
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	40620	2593	23.56	24.00	1.107	62.9	1.006	-0.16	0.477	0.531
	LTE Band 41 HPUE_Ant 2	20M	QPSK	1	99	Back	10mm	40620	2593	24.55	25.00	1.109	42.9	1.009	-0.11	0.526	0.589

<WLAN SAR>

WWAN OFF & 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 0	1	2412	17.80	18.00	1.047	99.23	1.008	-0.09	0.161	0.170
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 0	1	2412	17.80	18.00	1.047	99.23	1.008	-0.11	0.259	0.273
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 1	1	2412	18.00	18.00	1.000	99.03	1.010	-0.11	0.123	0.124
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 1	1	2412	18.00	18.00	1.000	99.03	1.010	-0.15	0.220	0.222
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 0+1	11	2462	17.80	18.00	1.047	99.15	1.009	-0.03	0.258	0.273
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 0+1	11	2462	17.80	18.00	1.047	99.15	1.009	-0.13	0.547	0.578
67	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 0+1	1	2412	17.80	18.00	1.047	99.15	1.009	-0.11	0.568	0.600
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 0+1	6	2437	17.60	18.00	1.096	99.15	1.009	-0.11	0.500	0.553
	WLAN5GHz-	802.11n-HT40 MCS0	Front	10mm	Ant 0	54	5270	17.30	17.50	1.047	95.94	1.042	-0.12	0.125	0.136
	WLAN5GHz-	802.11n-HT40 MCS0	Back	10mm	Ant 0	54	5270	17.30	17.50	1.047	95.94	1.042	-0.11	0.293	0.320
	WLAN5GHz-	802.11n-HT40 MCS0	Front	10mm	Ant 1	54	5270	17.20	17.50	1.072	95.94	1.042	-0.02	0.092	0.103
68	WLAN5GHz-	802.11n-HT40 MCS0	Back	10mm	Ant 1	54	5270	17.20	17.50	1.072	95.94	1.042	0.18	0.516	0.576
	WLAN5GHz-	802.11n-HT40 MCS0	Back	10mm	Ant 1	62	5310	13.90	14.00	1.023	95.94	1.042	0.01	0.256	0.273
	WLAN5GHz-	802.11n-HT40 MCS0	Front	10mm	Ant 0+1	54	5270	17.40	17.50	1.023	95.94	1.042	-0.15	0.163	0.174
	WLAN5GHz-	802.11n-HT40 MCS0	Back	10mm	Ant 0+1	54	5270	17.40	17.50	1.023	95.94	1.042	-0.05	0.502	0.535
	WLAN5GHz-	802.11ac-VHT80 MCS0	Front	10mm	Ant 0	138	5690	17.50	17.50	1.000	92.31	1.083	-0.07	0.192	0.208
	WLAN5GHz-	802.11ac-VHT80 MCS0	Back	10mm	Ant 0	138	5690	17.50	17.50	1.000	92.31	1.083	0.01	0.486	0.526
	WLAN5GHz-	802.11ac-VHT80 MCS0	Front	10mm	Ant 1	138	5690	17.40	17.50	1.023	92.68	1.079	-0.01	0.041	0.045
	WLAN5GHz-	802.11ac-VHT80 MCS0	Back	10mm	Ant 1	138	5690	17.40	17.50	1.023	92.68	1.079	-0.01	0.303	0.335
	WLAN5GHz-	802.11ac-VHT80 MCS0	Front	10mm	Ant 0+1	138	5690	17.30	17.50	1.047	92.68	1.079	-0.13	0.165	0.186
69	WLAN5GHz-	802.11ac-VHT80 MCS0	Back	10mm	Ant 0+1	138	5690	17.30	17.50	1.047	92.68	1.079	0	0.538	0.608
	WLAN5GHz-	802.11ac-VHT80 MCS0	Back	10mm	Ant 0+1	106	5530	12.90	13.50	1.148	92.68	1.079	0.04	0.186	0.230
	WLAN5GHz-	802.11ac-VHT80 MCS0	Back	10mm	Ant 0+1	122	5610	17.30	17.50	1.047	92.68	1.079	-0.19	0.509	0.575
	WLAN5GHz-	802.11ac-VHT80 MCS0	Front	10mm	Ant 0	155	5775	17.30	17.50	1.047	92.31	1.083	-0.16	0.178	0.202
	WLAN5GHz-	802.11ac-VHT80 MCS0	Back	10mm	Ant 0	155	5775	17.30	17.50	1.047	92.31	1.083	0.04	0.426	0.483
	WLAN5GHz-	802.11ac-VHT80 MCS0	Front	10mm	Ant 1	155	5775	17.40	17.50	1.023	92.68	1.079	0.06	0.075	0.083
	WLAN5GHz-	802.11ac-VHT80 MCS0	Back	10mm	Ant 1	155	5775	17.40	17.50	1.023	92.68	1.079	0.07	0.291	0.321
	WLAN5GHz-	802.11ac-VHT80 MCS0	Front	10mm	Ant 0+1	155	5775	16.90	17.50	1.148	92.68	1.079	-0.01	0.190	0.235
70	WLAN5GHz-	802.11ac-VHT80 MCS0	Back	10mm	Ant 0+1	155	5775	16.90	17.50	1.148	92.68	1.079	-0.02	0.525	0.650

<Bluetooth SAR>

WWAN OFF & WWAN ON														
Plot No.	Band	Mode	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)
	Bluetooth	1Mbps	Front	10mm	0	2402	17.98	18.00	1.004	77.2	1.079	0.06	0.128	0.139
	Bluetooth	1Mbps	Back	10mm	0	2402	17.98	18.00	1.004	77.2	1.079	-0.01	0.160	0.173
	Bluetooth	1Mbps	Back	10mm	39	2441	17.83	18.00	1.039	77.2	1.079	0.01	0.166	0.186
71	Bluetooth	1Mbps	Back	10mm	78	2480	17.12	18.00	1.224	77.2	1.079	-0.17	0.178	0.235

17.4 Product Specific SAR

<WLAN SAR>

WWAN OFF & 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 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 0	54	5270	17.30	17.50	1.047	95.94	1.042	-0.15	0.373	0.407
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 0	54	5270	17.30	17.50	1.047	95.94	1.042	-0.11	0.719	0.785
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 0	54	5270	17.30	17.50	1.047	95.94	1.042	-0.1	0.127	0.139
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 0	54	5270	17.30	17.50	1.047	95.94	1.042	-0.11	0.422	0.460
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 1	54	5270	17.20	17.50	1.072	95.94	1.042	0.19	0.204	0.228
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 1	54	5270	17.20	17.50	1.072	95.94	1.042	-0.06	0.633	0.707
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 1	54	5270	17.20	17.50	1.072	95.94	1.042	0.09	0.613	0.684
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 1	54	5270	17.20	17.50	1.072	95.94	1.042	-0.19	0.148	0.165
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 0+1	54	5270	17.40	17.50	1.023	95.94	1.042	0.09	0.515	0.549
72	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 0+1	54	5270	17.40	17.50	1.023	95.94	1.042	0.13	1.180	1.258
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 0+1	52	5260	17.40	17.50	1.023	98.11	1.019	0.01	1.020	1.064
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 0+1	62	5310	13.50	14.00	1.122	95.94	1.042	0.02	0.386	0.451
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 0+1	54	5270	17.40	17.50	1.023	95.94	1.042	0.15	0.544	0.580
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 0+1	54	5270	17.40	17.50	1.023	95.94	1.042	-0.11	0.477	0.509
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 0	138	5690	17.50	17.50	1.000	92.31	1.083	0.01	0.401	0.434
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 0	138	5690	17.50	17.50	1.000	92.31	1.083	-0.05	0.969	1.049
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 0	138	5690	17.50	17.50	1.000	92.31	1.083	0.05	0.161	0.174
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 0	138	5690	17.50	17.50	1.000	92.31	1.083	-0.15	0.386	0.418
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 1	138	5690	17.40	17.50	1.023	92.68	1.079	0.18	0.084	0.093
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 1	138	5690	17.40	17.50	1.023	92.68	1.079	-0.02	0.384	0.424
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 1	138	5690	17.40	17.50	1.023	92.68	1.079	-0.01	0.299	0.330
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 1	138	5690	17.40	17.50	1.023	92.68	1.079	-0.08	0.018	0.020
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 0+1	138	5690	17.30	17.50	1.047	92.68	1.079	0.11	0.428	0.484
73	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 0+1	138	5690	17.30	17.50	1.047	92.68	1.079	0.11	1.110	1.254
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 0+1	106	5530	12.90	13.50	1.148	92.68	1.079	-0.01	0.374	0.463
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 0+1	122	5610	17.30	17.50	1.047	92.68	1.079	0.12	1.090	1.232
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 0+1	138	5690	17.30	17.50	1.047	92.68	1.079	-0.12	0.369	0.417
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 0+1	138	5690	17.30	17.50	1.047	92.68	1.079	-0.01	0.386	0.436

17.5 Repeated SAR Measurement

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)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 12_Ant 1	10M_QPSK_1_0	Right Cheek	0mm	23095	707.5	24.70	25.70	1.259	-0.11	0.910	-	1.146
2nd	LTE Band 12_Ant 1	10M_QPSK_1_0	Right Cheek	0mm	23095	707.5	24.70	25.70	1.259	-0.06	0.900	1.01	1.133
1st	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9538	1907.6	25.58	25.70	1.028	0	1.000	-	1.028
2nd	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9538	1907.6	25.58	25.70	1.028	-0.03	0.968	1.03	0.997
1st	LTE Band 7_Ant 2	20M_QPSK_1_0	Back	10mm	20850	2510	24.03	24.50	1.114	-0.06	0.855	-	0.953
2nd	LTE Band 7_Ant 2	20M_QPSK_1_0	Back	10mm	20850	2510	24.03	24.50	1.114	-0.11	0.815	1.05	0.908
1st	LTE Band 30_Ant 2	10M_QPSK_1_0	Front	10mm	27710	2310	24.76	25.70	1.242	0.01	0.886	-	1.100
2nd	LTE Band 30_Ant 2	10M_QPSK_1_0	Front	10mm	27710	2310	24.76	25.70	1.242	0.01	0.847	1.05	1.052
1st	LTE Band 66_Ant 0	20M_QPSK_1_0	Bottom Side	10mm	132572	1770	24.22	24.50	1.067	-0.07	0.886	-	0.945
2nd	LTE Band 66_Ant 0	20M_QPSK_1_0	Bottom Side	10mm	132572	1770	24.22	24.50	1.067	-0.07	0.847	1.05	0.903

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/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.

17.6 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>

Standalone	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	25	26.5
Reported 1g SAR (W/kg)	0.728	0.645
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	200.17	193.41
Linearity SAR(W/kg)	0.70	
% deviation from expected linearity		-8.31%

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

Standalone	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	25	26.5
Reported 1g SAR (W/kg)	0.813	0.722
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	200.17	193.41
Linearity SAR(W/kg)	0.79	
% deviation from expected linearity		-8.09%

18. Simultaneous Transmission Analysis

Config	Mode	Capable TX Configurations
1	WWAN OFF (Cellular off)	WiFi 5G SISO (Ant0) + Bluetooth (Ant0)
2		WiFi 5G SISO (Ant1) + Bluetooth (Ant0)
3		WiFi 5G MIMO (Ant0+1) + Bluetooth (Ant0)
4		WiFi 5G SISO (Ant0)
5		WiFi 5G SISO (Ant1)
6		WiFi 5G MIMO (Ant0+1)
7		WiFi 2.4G SISO (Ant0)
8		WiFi 2.4G SISO (Ant1)
9		WiFi 2.4G SISO (Ant1) + Bluetooth (Ant0)
10		WiFi 2.4G MIMO (Ant0+1)
11		Bluetooth (Ant0)
12		WiFi 2.4G SISO (Ant0) + WiFi 5G SISO (Ant1)
13	WWAN ON (Cellular on)	WiFi 5G SISO (Ant0) + Bluetooth (Ant0)
14		WiFi 5G SISO (Ant1) + Bluetooth (Ant0)
15		WiFi 5G MIMO (Ant0+1) + Bluetooth (Ant0)
16		WiFi 5G SISO (Ant0)
17		WiFi 5G SISO (Ant1)
18		WiFi 5G MIMO (Ant0+1)
19		WiFi 2.4G SISO (Ant0)
20		WiFi 2.4G SISO (Ant1)
21		WiFi 2.4G SISO (Ant1) + Bluetooth (Ant0)
22		WiFi 2.4G MIMO (Ant0+1)
23		Bluetooth (Ant0)
24		WiFi 2.4G SISO (Ant0) + WiFi 5G SISO (Ant1)

General Note:

1. All licensed modes share the same antenna part and cannot transmit simultaneously.
2. 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.
3. When the device operates in head/hotspot/body-worn, cellular TX power has 2 power table associated with WiFi-ON (power table 1) and WiFi-OFF (power table 2). Cellular SAR associated with power table 1 was used for analysis of simultaneous transmission with WLAN and BT, associated with power table 2 was used for analysis of simultaneous transmission with BTonly.
4. The Scaled SAR summation is calculated based on the same configuration and test position.
5. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
   i) Scalar SAR summation < 1.6W/kg.
   ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. 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.
   iii) If SPLSR ≤ 0.04 for 1g SAR, if SPLSR < 0.1 for 10g SAR, simultaneously transmission SAR measurement is not necessary.
   iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

18.1 Head Exposure Conditions

<WWAN OFF>

Exposure Position	4	5	6	7	8	9	10	11	12	8+12 Summed 1g SAR (W/kg)	9+12 Summed 1g SAR (W/kg)	10+12 Summed 1g SAR (W/kg)	5+12 Summed 1g SAR (W/kg)	4+9 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 0	2.4GHz WLAN Ant 1	2.4GHz WLAN Ant 0+1	2.4GHz WLAN MAX (SAR)	5GHz WLAN Ant 0	5GHz WLAN Ant 1	5GHz WLAN Ant 0+1	5GHz WLAN MAX (SAR)	Bluetooth Ant 0					
	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)					
Right Cheek	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.456**	**0.363**	**0.452**	**0.395**	**0.247**
Right Tilted	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.411**	**0.287**	**0.429**	**0.258**	**0.211**
Left Cheek	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.034**	**0.911**	**1.023**	**1.154**	**0.613**
Left Tilted	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.627**	**0.503**	**0.614**	**0.488**	**0.402**

<WiFi ON>

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12	3+6 Summed 1g SAR (W/kg)	3+5+12 Summed 1g SAR (W/kg)	3+4+9 Summed 1g SAR (W/kg)	3+11+12 Summed 1g SAR (W/kg)
			WWAN ANT0/2	WWAN ANT1/3	WWAN (MAX)	2.4GHz WLAN Ant 0	2.4GHz WLAN Ant 1	2.4GHz WLAN Ant 0+1	2.4GHz WLAN MAX (SAR)	5GHz WLAN Ant 0	5GHz WLAN Ant 1	5GHz WLAN Ant 0+1	5GHz WLAN MAX (SAR)	Bluetooth Ant 0				
			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)				
GSM	GSM850	Right Cheek	0.362		0.362	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.598**	**0.757**	**0.609**	**0.818**
		Right Tilted	0.146		0.146	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.352**	**0.404**	**0.357**	**0.575**
		Left Cheek	0.291		0.291	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.130**	**1.445**	**0.904**	**1.325**
		Left Tilted	0.143		0.143	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.415**	**0.631**	**0.545**	**0.770**
	GSM1900	Right Cheek	0.171		0.171	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.407**	**0.566**	**0.418**	**0.627**
		Right Tilted	0.074		0.074	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.280**	**0.332**	**0.285**	**0.503**
		Left Cheek	0.130		0.130	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**0.969**	**1.284**	**0.743**	**1.164**
		Left Tilted	0.088		0.088	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.360**	**0.576**	**0.490**	**0.715**
WCDMA	WCDMA II	Right Cheek	0.346		0.346	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.582**	**0.741**	**0.593**	**0.802**
		Right Tilted	0.148		0.148	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.354**	**0.406**	**0.359**	**0.577**
		Left Cheek	0.295		0.295	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.134**	**1.449**	**0.908**	**1.329**
		Left Tilted	0.162		0.162	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.434**	**0.650**	**0.564**	**0.789**
	WCDMA IV	Right Cheek	0.192		0.192	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.428**	**0.587**	**0.439**	**0.648**
		Right Tilted	0.155		0.155	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.361**	**0.413**	**0.366**	**0.584**
		Left Cheek	0.237		0.237	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.076**	**1.391**	**0.850**	**1.271**
		Left Tilted	0.126		0.126	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.398**	**0.614**	**0.528**	**0.753**
	WCDMA V	Right Cheek	0.290		0.290	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.526**	**0.685**	**0.537**	**0.746**
		Right Tilted	0.118		0.118	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.324**	**0.376**	**0.329**	**0.547**
		Left Cheek	0.190		0.190	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.029**	**1.344**	**0.803**	**1.224**
		Left Tilted	0.126		0.126	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.398**	**0.614**	**0.528**	**0.753**
CDMA	CDMA2000 BC0	Right Cheek	0.325		0.325	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.561**	**0.720**	**0.572**	**0.781**
		Right Tilted	0.157		0.157	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.363**	**0.415**	**0.368**	**0.586**
		Left Cheek	0.239		0.239	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.078**	**1.393**	**0.852**	**1.273**
		Left Tilted	0.144		0.144	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.416**	**0.632**	**0.546**	**0.771**
	CDMA2000 BC1	Right Cheek	0.286		0.286	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.522**	**0.681**	**0.533**	**0.742**
		Right Tilted	0.101		0.101	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.307**	**0.359**	**0.312**	**0.530**
		Left Cheek	0.157		0.157	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**0.996**	**1.311**	**0.770**	**1.191**
		Left Tilted	0.107		0.107	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.379**	**0.595**	**0.509**	**0.734**
	CDMA2000 BC10	Right Cheek	0.200		0.200	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.436**	**0.595**	**0.447**	**0.656**
		Right Tilted	0.096		0.096	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.302**	**0.354**	**0.307**	**0.525**
		Left Cheek	0.153		0.153	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**0.992**	**1.307**	**0.766**	**1.187**
		Left Tilted	0.085		0.085	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.357**	**0.573**	**0.487**	**0.712**
LTE	LTE Band 7	Right Cheek	0.389		0.389	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.625**	**0.784**	**0.636**	**0.845**
		Right Tilted	0.081		0.081	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.287**	**0.339**	**0.292**	**0.510**
		Left Cheek	0.180		0.180	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.019**	**1.334**	**0.793**	**1.214**

		Left Tilted	0.114		0.114	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.386**	**0.602**	**0.516**	**0.741**
	LTE Band 12	Right Cheek	0.261		0.261	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.497**	**0.656**	**0.508**	**0.717**
		Right Tilted	0.171		0.171	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.377**	**0.429**	**0.382**	**0.600**
		Left Cheek	0.253		0.253	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.092**	**1.407**	**0.866**	**1.287**
		Left Tilted	0.147		0.147	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.419**	**0.635**	**0.549**	**0.774**
	LTE Band 13	Right Cheek	0.301		0.301	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.537**	**0.696**	**0.548**	**0.757**
		Right Tilted	0.177		0.177	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.383**	**0.435**	**0.388**	**0.606**
		Left Cheek	0.251		0.251	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.090**	**1.405**	**0.864**	**1.285**
		Left Tilted	0.169		0.169	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.441**	**0.657**	**0.571**	**0.796**
	LTE Band 14	Right Cheek	0.319		0.319	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.555**	**0.714**	**0.566**	**0.775**
		Right Tilted	0.199		0.199	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.405**	**0.457**	**0.410**	**0.628**
		Left Cheek	0.285		0.285	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.124**	**1.439**	**0.898**	**1.319**
		Left Tilted	0.189		0.189	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.461**	**0.677**	**0.591**	**0.816**
	LTE Band 25	Right Cheek	0.319		0.319	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.555**	**0.714**	**0.566**	**0.775**
		Right Tilted	0.093		0.093	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.299**	**0.351**	**0.304**	**0.522**
		Left Cheek	0.211		0.211	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.050**	**1.365**	**0.824**	**1.245**
		Left Tilted	0.167		0.167	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.439**	**0.655**	**0.569**	**0.794**
	LTE Band 26	Right Cheek	0.290		0.290	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.526**	**0.685**	**0.537**	**0.746**
		Right Tilted	0.129		0.129	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.335**	**0.387**	**0.340**	**0.558**
		Left Cheek	0.229		0.229	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.068**	**1.383**	**0.842**	**1.263**
		Left Tilted	0.120		0.120	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.392**	**0.608**	**0.522**	**0.747**
	LTE Band 30	Right Cheek	0.393		0.393	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.629**	**0.788**	**0.640**	**0.849**
		Right Tilted	0.143		0.143	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.349**	**0.401**	**0.354**	**0.572**
		Left Cheek	0.208		0.208	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.047**	**1.362**	**0.821**	**1.242**
		Left Tilted	0.171		0.171	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.443**	**0.659**	**0.573**	**0.798**
	LTE Band 38	Right Cheek	0.587		0.587	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.823**	**0.982**	**0.834**	**1.043**
		Right Tilted	0.125		0.125	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.331**	**0.383**	**0.336**	**0.554**
		Left Cheek	0.323		0.323	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.162**	**1.477**	**0.936**	**1.357**
		Left Tilted	0.217		0.217	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.489**	**0.705**	**0.619**	**0.844**
	LTE Band 41	Right Cheek	0.579		0.579	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.815**	**0.974**	**0.826**	**1.035**
		Right Tilted	0.125		0.125	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.331**	**0.383**	**0.336**	**0.554**
		Left Cheek	0.238		0.238	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.077**	**1.392**	**0.851**	**1.272**
		Left Tilted	0.192		0.192	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.464**	**0.680**	**0.594**	**0.819**
	LTE Band 66	Right Cheek	0.191		0.191	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.427**	**0.586**	**0.438**	**0.647**
		Right Tilted	0.143		0.143	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.349**	**0.401**	**0.354**	**0.572**
		Left Cheek	0.217		0.217	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**1.056**	**1.371**	**0.830**	**1.251**
		Left Tilted	0.112		0.112	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.384**	**0.600**	**0.514**	**0.739**
	LTE Band 71	Right Cheek	0.093		0.093	0.186	0.093	0.236	0.236	0.154	0.061	0.150	0.154	0.302	**0.329**	**0.488**	**0.340**	**0.549**
		Right Tilted	0.049		0.049	0.133	0.049	0.206	0.206	0.202	0.078	0.220	0.220	0.209	**0.255**	**0.307**	**0.260**	**0.478**
		Left Cheek	0.113		0.113	0.499	0.357	0.839	0.839	0.237	0.114	0.226	0.237	0.797	**0.952**	**1.267**	**0.726**	**1.147**
		Left Tilted	0.052		0.052	0.290	0.097	0.272	0.290	0.236	0.112	0.223	0.236	0.391	**0.324**	**0.540**	**0.454**	**0.679**

<WiFi OFF>

WWAN Band		Exposure Position	1 WWAN ANT0/2 1g SAR (W/kg)	2 WWAN ANT1/3 1g SAR (W/kg)	3 WWAN(MAX) 1g SAR (W/kg)	12 Bluetooth Ant 0 1g SAR (W/kg)	3+12 Summed 1g SAR (W/kg)
GSM	GSM850	Right Cheek	0.362		0.362	0.302	**0.664**
		Right Tilted	0.146		0.146	0.209	**0.355**
		Left Cheek	0.291		0.291	0.797	**1.088**
		Left Tilted	0.143		0.143	0.391	**0.534**
	GSM1900	Right Cheek	0.171		0.171	0.302	**0.473**
		Right Tilted	0.074		0.074	0.209	**0.283**
		Left Cheek	0.130		0.130	0.797	**0.927**
		Left Tilted	0.088		0.088	0.391	**0.479**
WCDMA	WCDMA II	Right Cheek	0.346		0.346	0.302	**0.648**
		Right Tilted	0.148		0.148	0.209	**0.357**
		Left Cheek	0.295		0.295	0.797	**1.092**
		Left Tilted	0.162		0.162	0.391	**0.553**
	WCDMA IV	Right Cheek	0.192		0.192	0.302	**0.494**
		Right Tilted	0.155		0.155	0.209	**0.364**
		Left Cheek	0.237		0.237	0.797	**1.034**
		Left Tilted	0.126		0.126	0.391	**0.517**
	WCDMA V	Right Cheek	0.290		0.290	0.302	**0.592**
		Right Tilted	0.118		0.118	0.209	**0.327**
		Left Cheek	0.190		0.190	0.797	**0.987**
		Left Tilted	0.126		0.126	0.391	**0.517**
CDMA	CDMA2000 BC0	Right Cheek	0.325		0.325	0.302	**0.627**
		Right Tilted	0.157		0.157	0.209	**0.366**
		Left Cheek	0.239		0.239	0.797	**1.036**
		Left Tilted	0.144		0.144	0.391	**0.535**
	CDMA2000 BC1	Right Cheek	0.286		0.286	0.302	**0.588**
		Right Tilted	0.101		0.101	0.209	**0.310**
		Left Cheek	0.157		0.157	0.797	**0.954**
		Left Tilted	0.107		0.107	0.391	**0.498**
	CDMA2000 BC10	Right Cheek	0.200		0.200	0.302	**0.502**
		Right Tilted	0.096		0.096	0.209	**0.305**
		Left Cheek	0.153		0.153	0.797	**0.950**
		Left Tilted	0.085		0.085	0.391	**0.476**
LTE	LTE Band 7	Right Cheek	0.820		0.820	0.302	**1.122**
		Right Tilted	0.090		0.090	0.209	**0.299**
		Left Cheek	0.415		0.415	0.797	**1.212**
		Left Tilted	0.273		0.273	0.391	**0.664**
	LTE Band 12	Right Cheek	0.261	1.146	1.146	0.302	**1.448**
		Right Tilted	0.171	1.078	1.078	0.209	**1.287**
		Left Cheek	0.253	0.516	0.516	0.797	**1.313**
		Left Tilted	0.147	0.423	0.423	0.391	**0.814**
	LTE Band 13	Right Cheek	0.301		0.301	0.302	**0.603**
		Right Tilted	0.177		0.177	0.209	**0.386**
		Left Cheek	0.251		0.251	0.797	**1.048**
		Left Tilted	0.169		0.169	0.391	**0.560**
	LTE Band 14	Right Cheek	0.319		0.319	0.302	**0.621**
		Right Tilted	0.199		0.199	0.209	**0.408**
		Left Cheek	0.285		0.285	0.797	**1.082**
		Left Tilted	0.189		0.189	0.391	**0.580**
	LTE Band 25	Right Cheek	0.319		0.319	0.302	**0.621**
		Right Tilted	0.093		0.093	0.209	**0.302**
		Left Cheek	0.211		0.211	0.797	**1.008**

		Left Tilted	0.167		0.167	0.391	**0.558**
	LTE Band 26	Right Cheek	0.290		0.290	0.302	**0.592**
		Right Tilted	0.129		0.129	0.209	**0.338**
		Left Cheek	0.229		0.229	0.797	**1.026**
		Left Tilted	0.120		0.120	0.391	**0.511**
	LTE Band 30	Right Cheek	0.914		0.914	0.302	**1.216**
		Right Tilted	0.262		0.262	0.209	**0.471**
		Left Cheek	0.435		0.435	0.797	**1.232**
		Left Tilted	0.433		0.433	0.391	**0.824**
	LTE Band 38	Right Cheek	0.874		0.874	0.302	**1.176**
		Right Tilted	0.210		0.210	0.209	**0.419**
		Left Cheek	0.522		0.522	0.797	**1.319**
		Left Tilted	0.374		0.374	0.391	**0.765**
	LTE Band 41	Right Cheek	0.728		0.728	0.302	**1.030**
		Right Tilted	0.158		0.158	0.209	**0.367**
		Left Cheek	0.299		0.299	0.797	**1.096**
		Left Tilted	0.242		0.242	0.391	**0.633**
	LTE Band 66	Right Cheek	0.191		0.191	0.302	**0.493**
		Right Tilted	0.143		0.143	0.209	**0.352**
		Left Cheek	0.217		0.217	0.797	**1.014**
		Left Tilted	0.112		0.112	0.391	**0.503**
	LTE Band 71	Right Cheek	0.093	0.733	0.733	0.302	**1.035**
		Right Tilted	0.049	0.675	0.675	0.209	**0.884**
		Left Cheek	0.113	0.302	0.302	0.797	**1.099**
		Left Tilted	0.052	0.269	0.269	0.391	**0.660**

18.2 Hotspot Exposure Conditions

<WiFi ON>

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12	3+6 Summed 1g SAR (W/kg)	3+5+12 Summed 1g SAR (W/kg)	3+4+9 Summed 1g SAR (W/kg)	3+11+12 Summed 1g SAR (W/kg)
			WWAN ANT0/2	WWAN ANT1/3	WWAN (MAX)	2.4GHz WLAN Ant 0	2.4GHz WLAN Ant 1	2.4GHz WLAN Ant 0+1	2.4GHz WLAN MAX (SAR)	5GHz WLAN Ant 0	5GHz WLAN Ant 1	5GHz WLAN Ant 0+1	5GHz WLAN MAX (SAR)	Bluetooth Ant 0				
			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)				
GSM	GSM850	Front	0.143		0.143	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.416**	**0.406**	**0.412**	**0.517**
		Back	0.157		0.157	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.757**	**0.614**	**0.918**	**1.042**
		Left side	0.112		0.112										**0.112**	**0.112**	**0.112**	**0.112**
		Right side	0.150		0.150	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.649**	**0.399**	**0.729**	**0.692**
		Bottom side	0.039		0.039										**0.039**	**0.039**	**0.039**	**0.039**
	GSM1900	Front	0.071		0.071	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.344**	**0.334**	**0.340**	**0.445**
		Back	0.292		0.292	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.892**	**0.749**	**1.053**	**1.177**
		Left side	0.036		0.036										**0.036**	**0.036**	**0.036**	**0.036**
		Right side	0.029		0.029	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.528**	**0.278**	**0.608**	**0.571**
		Bottom side	0.267		0.267										**0.267**	**0.267**	**0.267**	**0.267**
WCDMA	WCDMA II	Front		0.192	0.192	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.465**	**0.455**	**0.461**	**0.566**
		Back		0.247	0.247	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.847**	**0.704**	**1.008**	**1.132**
		Left side		0.105	0.105										**0.105**	**0.105**	**0.105**	**0.105**
		Right side		0.049	0.049	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.548**	**0.298**	**0.628**	**0.591**
		Top side		0.215	0.215	0.101	0.034	0.165	0.165	0.438	0.094	0.546	0.546	0.060	**0.380**	**0.309**	**0.410**	**0.821**
	WCDMA IV	Front	0.193		0.193	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.466**	**0.456**	**0.462**	**0.567**
		Back	0.183		0.183	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.783**	**0.640**	**0.944**	**1.068**
		Left side	0.076		0.076										**0.076**	**0.076**	**0.076**	**0.076**
		Right side	0.026		0.026	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.525**	**0.275**	**0.605**	**0.568**
		Bottom side	0.242		0.242										**0.242**	**0.242**	**0.242**	**0.242**
	WCDMA V	Front	0.152		0.152	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.425**	**0.415**	**0.421**	**0.526**
		Back	0.255		0.255	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.855**	**0.712**	**1.016**	**1.140**
		Left side	0.138		0.138										**0.138**	**0.138**	**0.138**	**0.138**
		Right side	0.172		0.172	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.671**	**0.421**	**0.751**	**0.714**
		Bottom side	0.036		0.036										**0.036**	**0.036**	**0.036**	**0.036**
CDMA	CDMA2000 BC0	Front	0.142		0.142	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.415**	**0.405**	**0.411**	**0.516**
		Back	0.171		0.171	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.771**	**0.628**	**0.932**	**1.056**
		Left side	0.120		0.120										**0.120**	**0.120**	**0.120**	**0.120**
		Right side	0.169		0.169	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.668**	**0.418**	**0.748**	**0.711**
		Top side				0.101	0.034	0.165	0.165	0.438	0.094	0.546	0.650	0.060	**0.165**	**0.094**	**0.195**	**0.710**
		Bottom side	0.038		0.038										**0.038**	**0.038**	**0.038**	**0.038**
	CDMA2000 BC1	Front		0.161	0.161	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.434**	**0.424**	**0.430**	**0.535**
		Back		0.199	0.199	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.799**	**0.656**	**0.960**	**1.084**
		Left side		0.083	0.083										**0.083**	**0.083**	**0.083**	**0.083**
		Right side		0.046	0.046	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.545**	**0.295**	**0.625**	**0.588**
		Top side		0.186	0.186	0.101	0.034	0.165	0.165	0.438	0.094	0.546	0.650	0.060	**0.351**	**0.280**	**0.381**	**0.896**
	CDMA2000 BC10	Front	0.148		0.148	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.421**	**0.411**	**0.417**	**0.522**
		Back	0.237		0.237	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.837**	**0.694**	**0.998**	**1.122**
		Left side	0.128		0.128										**0.128**	**0.128**	**0.128**	**0.128**
		Right side	0.175		0.175	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.674**	**0.424**	**0.754**	**0.717**
		Top side				0.101	0.034	0.165	0.165	0.438	0.094	0.546	0.650	0.060	**0.165**	**0.094**	**0.195**	**0.710**
		Bottom side	0.027		0.027										**0.027**	**0.027**	**0.027**	**0.027**
LTE	LTE Band 7	Front	0.182		0.182	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.455**	**0.445**	**0.451**	**0.556**
		Back	0.251		0.251	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.851**	**0.708**	**1.012**	**1.136**
		Left side	0.017		0.017										**0.017**	**0.017**	**0.017**	**0.017**
		Right side	0.225		0.225	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.724**	**0.474**	**0.804**	**0.767**
		Bottom side	0.071		0.071										**0.071**	**0.071**	**0.071**	**0.071**

	LTE Band 12	Front	0.188		0.188	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.461**	**0.451**	**0.457**	**0.562**
		Back	0.241		0.241	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.841**	**0.698**	**1.002**	**1.126**
		Left side	0.168		0.168										**0.168**	**0.168**	**0.168**	**0.168**
		Right side	0.197		0.197	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.696**	**0.446**	**0.776**	**0.739**
		Bottom side	0.038		0.038										**0.038**	**0.038**	**0.038**	**0.038**
	LTE Band 13	Front	0.189		0.189	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.462**	**0.452**	**0.458**	**0.563**
		Back	0.216		0.216	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.816**	**0.673**	**0.977**	**1.101**
		Left side	0.157		0.157										**0.157**	**0.157**	**0.157**	**0.157**
		Right side	0.228		0.228	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.727**	**0.477**	**0.807**	**0.770**
		Bottom side	0.041		0.041										**0.041**	**0.041**	**0.041**	**0.041**
	LTE Band 14	Front	0.187		0.187	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.460**	**0.450**	**0.456**	**0.561**
		Back	0.223		0.223	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.823**	**0.680**	**0.984**	**1.108**
		Left side	0.148		0.148										**0.148**	**0.148**	**0.148**	**0.148**
		Right side	0.231		0.231	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.730**	**0.480**	**0.810**	**0.773**
		Bottom side	0.047		0.047										**0.047**	**0.047**	**0.047**	**0.047**
	LTE Band 25	Front		0.219	0.219	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.492**	**0.482**	**0.488**	**0.593**
		Back		0.306	0.306	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.906**	**0.763**	**1.067**	**1.191**
		Left side		0.114	0.114										**0.114**	**0.114**	**0.114**	**0.114**
		Right side		0.065	0.065	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.564**	**0.314**	**0.644**	**0.607**
		Top side		0.237	0.237	0.101	0.034	0.165	0.165	0.438	0.094	0.546	0.650	0.060	**0.402**	**0.331**	**0.432**	**0.947**
	LTE Band 26	Front	0.154		0.154	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.427**	**0.417**	**0.423**	**0.528**
		Back	0.261		0.261	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.861**	**0.718**	**1.022**	**1.146**
		Left side	0.076		0.076										**0.076**	**0.076**	**0.076**	**0.076**
		Right side	0.137		0.137	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.636**	**0.386**	**0.716**	**0.679**
		Bottom side	0.054		0.054										**0.054**	**0.054**	**0.054**	**0.054**
	LTE Band 30	Front	0.363		0.363	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.636**	**0.626**	**0.632**	**0.737**
		Back	0.373		0.373	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.973**	**0.830**	**1.134**	**1.258**
		Left side	0.019		0.019										**0.019**	**0.019**	**0.019**	**0.019**
		Right side	0.355		0.355	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.854**	**0.604**	**0.934**	**0.897**
		Bottom side	0.098		0.098										**0.098**	**0.098**	**0.098**	**0.098**
	LTE Band 38	Front	0.201		0.201	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.474**	**0.464**	**0.470**	**0.575**
		Back	0.294		0.294	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.894**	**0.751**	**1.055**	**1.179**
		Left side	0.009		0.009										**0.009**	**0.009**	**0.009**	**0.009**
		Right side	0.254		0.254	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.753**	**0.503**	**0.833**	**0.796**
		Bottom side	0.040		0.040										**0.040**	**0.040**	**0.040**	**0.040**
	LTE Band 41	Front	0.162		0.162	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.435**	**0.425**	**0.431**	**0.536**
		Back	0.257		0.257	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.857**	**0.714**	**1.018**	**1.142**
		Left side	0.008		0.008										**0.008**	**0.008**	**0.008**	**0.008**
		Right side	0.205		0.205	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.704**	**0.454**	**0.784**	**0.747**
		Bottom side	0.034		0.034										**0.034**	**0.034**	**0.034**	**0.034**
	LTE Band 66	Front	0.192		0.192	0.170	0.124	0.273	0.273	0.202	0.099	0.235	0.235	0.139	**0.465**	**0.455**	**0.461**	**0.566**
		Back	0.161		0.161	0.273	0.222	0.600	0.600	0.483	0.488	0.650	0.650	0.235	**0.761**	**0.618**	**0.922**	**1.046**
		Left side	0.071		0.071										**0.071**	**0.071**	**0.071**	**0.071**
		Right side	0.026		0.026	0.123	0.174	0.499	0.499	0.150	0.456	0.467	0.467	0.075	**0.525**	**0.275**	**0.605**	**0.568**
		Bottom side	0.196		0.196										**0.196**	**0.196**	**0.196**	**0.196**

<WiFi OFF>

WWAN Band		Exposure Position	1 WWAN ANT0/2 1g SAR (W/kg)	2 WWAN ANT1/3 1g SAR (W/kg)	3 WWAN(MAX) 1g SAR (W/kg)	12 Bluetooth Ant 0 1g SAR (W/kg)	3+12 Summed 1g SAR (W/kg)
GSM	GSM850	Front	0.314	0.646	0.646	0.139	**0.785**
		Back	0.396	0.932	0.932	0.235	**1.167**
		Left side	0.196	0.654	0.654		**0.654**
		Right side	0.325	0.470	0.470	0.075	**0.545**
		Top side				0.060	**0.060**
		Bottom side	0.079	0.573	0.573		**0.573**
	GSM1900	Front	0.566	0.234	0.566	0.139	**0.705**
		Back	1.008	0.441	1.008	0.235	**1.243**
		Left side	0.171	0.126	0.171		**0.171**
		Right side	0.098	0.094	0.098	0.075	**0.173**
		Top side		0.221	0.221	0.060	**0.281**
		Bottom side	0.716		0.716		**0.716**
WCDMA	WCDMA II	Front		0.763	0.763	0.139	**0.902**
		Back		1.028	1.028	0.235	**1.263**
		Left side		0.438	0.438		**0.438**
		Right side		0.223	0.223	0.075	**0.298**
		Top side		0.900	0.900	0.060	**0.960**
		Bottom side					**0.000**
	WCDMA IV	Front	0.581	0.287	0.581	0.139	**0.720**
		Back	0.611	0.346	0.611	0.235	**0.846**
		Left side	0.223	0.119	0.223		**0.223**
		Right side	0.095	0.026	0.095	0.075	**0.170**
		Top side		0.198	0.198	0.060	**0.258**
		Bottom side	0.796		0.796		**0.796**
	WCDMA V	Front	0.236	0.365	0.365	0.139	**0.504**
		Back	0.370	0.582	0.582	0.235	**0.817**
		Left side	0.186	0.349	0.349		**0.349**
		Right side	0.268	0.185	0.268	0.075	**0.343**
		Top side				0.060	**0.060**
		Bottom side	0.051	0.342	0.342		**0.342**
CDMA	CDMA2000 BC0	Front	0.351	0.445	0.445	0.139	**0.584**
		Back	0.460	0.632	0.632	0.235	**0.867**
		Left side	0.278	0.470	0.470		**0.470**
		Right side	0.409	0.236	0.409	0.075	**0.484**
		Top side				0.060	**0.060**
		Bottom side	0.077	0.400	0.400		**0.400**
	CDMA2000 BC1	Front		0.607	0.607	0.139	**0.746**
		Back		0.834	0.834	0.235	**1.069**
		Left side		0.370	0.370		**0.370**
		Right side		0.205	0.205	0.075	**0.280**
		Top side		0.647	0.647	0.060	**0.707**
	CDMA2000 BC10	Front	0.232	0.456	0.456	0.139	**0.595**
		Back	0.375	0.560	0.560	0.235	**0.795**
		Left side	0.185	0.476	0.476		**0.476**
		Right side	0.258	0.245	0.258	0.075	**0.333**
		Top side		0.406	0.406	0.060	**0.466**
		Bottom side	0.036		0.036		**0.036**
	LTE Band 7	Front	0.758		0.758	0.139	**0.897**
		Back	0.957		0.957	0.235	**1.192**
		Left side	0.046		0.046		**0.046**
		Right side	0.793		0.793	0.075	**0.868**
		Bottom side	0.196		0.196		**0.196**
LTE	LTE Band 12	Front	0.306	0.238	0.306	0.139	**0.445**
		Back	0.392	0.376	0.392	0.235	**0.627**

		Left side	0.273	0.490	0.490		**0.490**
		Right side	0.322	0.057	0.322	0.075	**0.397**
		Bottom side	0.065	0.181	0.181		**0.181**
	LTE Band 13	Front	0.320	0.305	0.320	0.139	**0.459**
		Back	0.341	0.455	0.455	0.235	**0.690**
		Left side	0.277	0.576	0.576		**0.576**
		Right side	0.404	0.196	0.404	0.075	**0.479**
		Bottom side	0.077	0.275	0.275		**0.275**
	LTE Band 14	Front	0.342	0.446	0.446	0.139	**0.585**
		Back	0.392	0.687	0.687	0.235	**0.922**
		Left side	0.281	0.672	0.672		**0.672**
		Right side	0.384	0.257	0.384	0.075	**0.459**
		Top side		0.423	0.423	0.060	**0.483**
		Bottom side	0.095		0.095		**0.095**
	LTE Band 25	Front		0.837	0.837	0.139	**0.976**
		Back		1.043	1.043	0.235	**1.278**
		Left side		0.440	0.440		**0.440**
		Right side		0.247	0.247	0.075	**0.322**
		Top side		0.961	0.961	0.060	**1.021**
		Bottom side					**0.000**
	LTE Band 26	Front	0.260	0.508	0.508	0.139	**0.647**
		Back	0.444	0.754	0.754	0.235	**0.989**
		Left side	0.160	0.403	0.403		**0.403**
		Right side	0.262	0.232	0.262	0.075	**0.337**
		Top side		0.483	0.483	0.060	**0.543**
		Bottom side	0.090		0.090		**0.090**
	LTE Band 30	Front	1.100	0.249	1.100	0.139	**1.239**
		Back	0.944	0.818	0.944	0.235	**1.179**
		Left side	0.066	0.483	0.483		**0.483**
		Right side	0.990	0.005	0.990	0.075	**1.065**
		Top side		0.078	0.078	0.060	**0.138**
		Bottom side	0.257		0.257		**0.257**
	LTE Band 38	Front	0.731		0.731	0.139	**0.870**
		Back	0.878		0.878	0.235	**1.113**
		Left side	0.019		0.019		**0.019**
		Right side	0.750		0.750	0.075	**0.825**
		Bottom side	0.131		0.131		**0.131**
	LTE Band 41	Front	0.618		0.618	0.139	**0.757**
		Back	0.658		0.658	0.235	**0.893**
		Left side	0.019		0.019		**0.019**
		Right side	0.738		0.738	0.075	**0.813**
		Bottom side	0.813		0.813		**0.813**
	LTE Band 66	Front	0.672	0.313	0.672	0.139	**0.811**
		Back	0.609	0.451	0.609	0.235	**0.844**
		Left side	0.233	0.159	0.233		**0.233**
		Right side	0.103	0.050	0.103	0.075	**0.178**
		Top side		0.253	0.253	0.060	**0.313**
		Bottom side	0.945		0.945		**0.945**
	LTE Band 71	Front	0.135	0.167	0.167	0.139	**0.306**
		Back	0.243	0.234	0.243	0.235	**0.478**
		Left side	0.107	0.153	0.153		**0.107**
		Right side	0.118	0.118	0.118	0.075	**0.118**
		Top side		0.090	0.090	0.060	**0.000**
		Bottom side	0.064	0.064	0.064		**0.064**

18.3 Body-Worn Accessory Exposure Conditions

<WWAN OFF>

Exposure Position	4	5	6	7	8	9	10	11	12	8+12 Summed 1g SAR (W/kg)	9+12 Summed 1g SAR (W/kg)	10+12 Summed 1g SAR (W/kg)	5+12 Summed 1g SAR (W/kg)	4+9 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 0	2.4GHz WLAN Ant 1	2.4GHz WLAN Ant 0+1	2.4GHz WLAN MAX (SAR)	5GHz WLAN Ant 0	5GHz WLAN Ant 1	5GHz WLAN Ant 0+1	5GHz WLAN MAX (SAR)	Bluetooth Ant 0					
	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)					
Front	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.347**	**0.242**	**0.374**	**0.263**	**0.273**
Back	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.761**	**0.811**	**0.885**	**0.457**	**0.849**

<WiFi ON>

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12	3+6 Summed 1g SAR (W/kg)	3+5+12 Summed 1g SAR (W/kg)	3+4+9 Summed 1g SAR (W/kg)	3+11+12 Summed 1g SAR (W/kg)
			WWAN ANT0/2	WWAN ANT1/3	WWAN (MAX)	2.4GHz WLAN Ant 0	2.4GHz WLAN Ant 1	2.4GHz WLAN Ant 0+1	2.4GHz WLAN MAX (SAR)	5GHz WLAN Ant 0	5GHz WLAN Ant 1	5GHz WLAN Ant 0+1	5GHz WLAN MAX (SAR)	Bluetooth Ant 0				
			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)				
GSM	GSM850	Front	0.143		0.143	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.351**	**0.406**	**0.416**	**0.517**
		Back	0.157		0.157	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.683**	**0.614**	**1.006**	**1.042**
	GSM1900	Front	0.071		0.071	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.279**	**0.334**	**0.344**	**0.445**
		Back	0.292		0.292	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.818**	**0.749**	**1.141**	**1.177**
WCDMA	WCDMA II	Front	0.192		0.192	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.400**	**0.455**	**0.465**	**0.566**
		Back	0.247		0.247	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.773**	**0.704**	**1.096**	**1.132**
	WCDMA IV	Front	0.194		0.194	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.402**	**0.457**	**0.467**	**0.568**
		Back	0.183		0.183	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.709**	**0.640**	**1.032**	**1.068**
	WCDMA V	Front	0.152		0.152	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.360**	**0.415**	**0.425**	**0.526**
		Back	0.255		0.255	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.781**	**0.712**	**1.104**	**1.140**
CDMA	CDMA2000 BC0	Front	0.199		0.120	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.328**	**0.383**	**0.393**	**0.494**
		Back	0.183		0.183	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.709**	**0.640**	**1.032**	**1.068**
	CDMA2000 BC1	Front	0.152		0.161	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.369**	**0.424**	**0.434**	**0.535**
		Back	0.229		0.229	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.755**	**0.686**	**1.078**	**1.114**
	CDMA2000 BC10	Front	0.213		0.145	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.353**	**0.408**	**0.418**	**0.519**
		Back	0.192		0.192	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.718**	**0.649**	**1.041**	**1.077**
LTE	LTE Band 7	Front	0.182		0.182	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.390**	**0.445**	**0.455**	**0.556**
		Back	0.251		0.251	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.777**	**0.708**	**1.100**	**1.136**
	LTE Band 12	Front	0.174		0.174	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.382**	**0.437**	**0.447**	**0.548**
		Back	0.241		0.241	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.767**	**0.698**	**1.090**	**1.126**
	LTE Band 13	Front	0.189		0.189	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.397**	**0.452**	**0.462**	**0.563**
		Back	0.216		0.216	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.742**	**0.673**	**1.065**	**1.101**
	LTE Band 14	Front	0.187		0.187	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.395**	**0.450**	**0.460**	**0.561**
		Back	0.223		0.223	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.749**	**0.680**	**1.072**	**1.108**
	LTE Band 25	Front		0.219	0.219	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.427**	**0.482**	**0.492**	**0.593**
		Back		0.306	0.306	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.832**	**0.763**	**1.155**	**1.191**
	LTE Band 26	Front	0.154		0.154	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.362**	**0.417**	**0.427**	**0.528**
		Back	0.261		0.261	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.787**	**0.718**	**1.110**	**1.146**
	LTE Band 30	Front	0.363		0.363	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.571**	**0.626**	**0.636**	**0.737**
		Back	0.285		0.373	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.899**	**0.830**	**1.222**	**1.258**
	LTE Band 38	Front	0.201		0.201	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.409**	**0.464**	**0.474**	**0.575**
		Back	0.294		0.294	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.820**	**0.751**	**1.143**	**1.179**
	LTE Band 41	Front	0.162		0.162	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.370**	**0.425**	**0.435**	**0.536**
		Back	0.257		0.257	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.783**	**0.714**	**1.106**	**1.142**
	LTE Band 66	Front	0.192		0.192	0.170	0.124	0.208	0.273	0.208	0.103	0.235	0.235	0.139	**0.400**	**0.455**	**0.465**	**0.566**
		Back	0.161		0.161	0.273	0.222	0.526	0.600	0.526	0.576	0.650	0.650	0.235	**0.687**	**0.618**	**1.010**	**1.046**

<WiFi OFF>

WWAN Band		Exposure Position	1	2	3	12	3+12 Summed 1g SAR (W/kg)
			WWAN ANT0/2	WWAN ANT1/3	WWAN(MAX)	Bluetooth Ant 0	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM	GSM850	Front	0.314	0.646	0.646	0.139	**0.785**
		Back	0.396	0.932	0.932	0.235	**1.167**
	GSM1900	Front	0.566	0.566	0.566	0.139	**0.705**
		Back	1.008	1.008	1.008	0.235	**1.243**
WCDMA	WCDMA II	Front		0.763	0.763	0.139	**0.902**
		Back		1.028	1.028	0.235	**1.263**
	WCDMA IV	Front	0.581	0.581	0.581	0.139	**0.720**
		Back	0.611	0.611	0.611	0.235	**0.846**
	WCDMA V	Front	0.236	0.365	0.365	0.139	**0.504**
		Back	0.370	0.582	0.582	0.235	**0.817**
CDMA	CDMA2000 BC0	Front	0.336	0.506	0.506	0.139	**0.645**
		Back	0.469	0.643	0.643	0.235	**0.878**
	CDMA2000 BC1	Front		0.618	0.618	0.139	**0.757**
		Back		0.836	0.836	0.235	**1.071**
	CDMA2000 BC10	Front	0.234	0.445	0.445	0.139	**0.584**
		Back	0.303	0.582	0.582	0.235	**0.817**
	LTE Band 7	Front	0.758	0.758	0.758	0.139	**0.897**
		Back	0.957	0.957	0.957	0.235	**1.192**
LTE	LTE Band 12	Front	0.306	0.306	0.306	0.139	**0.445**
		Back	0.392	0.392	0.392	0.235	**0.627**
	LTE Band 13	Front	0.320	0.320	0.320	0.139	**0.459**
		Back	0.341	0.455	0.455	0.235	**0.690**
	LTE Band 14	Front	0.342	0.446	0.446	0.139	**0.585**
		Back	0.392	0.687	0.687	0.235	**0.922**
	LTE Band 25	Front		0.837	0.837	0.139	**0.976**
		Back		1.043	1.043	0.235	**1.278**
	LTE Band 26	Front	0.260	0.508	0.508	0.139	**0.647**
		Back	0.444	0.754	0.754	0.235	**0.989**
	LTE Band 30	Front	1.100	1.100	1.100	0.139	**1.239**
		Back	0.944	0.944	0.944	0.235	**1.179**
	LTE Band 38	Front	0.731	0.731	0.731	0.139	**0.870**
		Back	0.878	0.878	0.878	0.235	**1.113**
	LTE Band 41	Front	0.618	0.618	0.618	0.139	**0.757**
		Back	0.658	0.658	0.658	0.235	**0.893**
	LTE Band 66	Front	0.672	0.672	0.672	0.139	**0.811**
		Back	0.609	0.609	0.609	0.235	**0.844**
	LTE Bnad 77	Front	0.135	0.167	0.167	0.139	**0.306**
		Back	0.243	0.243	0.243	0.235	**0.478**

18.4 Product Specific Exposure Conditions

Exposure Position	1	2	3	4	5	6	7	1+2+3 Summed 10g SAR (W/kg)	1+2+5 Summed 10g SAR (W/kg)	1+4+7 Summed 10g SAR (W/kg)	1+5+7 Summed 10g SAR (W/kg)	1+6+7 Summed 10g SAR (W/kg)
	WWAN	2.4GHz WLAN Ant 0	2.4GHz WLAN Ant 1	5GHz WLAN Ant 0	5GHz WLAN Ant 1	5GHz WLAN Ant 0+1	Bluetooth Ant 0					
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	1g SAR (W/kg)					
Front				0.434	0.228	0.549		**0.000**	**0.228**	**0.434**	**0.228**	**0.549**
Back				1.049	0.707	1.258		**0.000**	**0.707**	**1.049**	**0.707**	**1.258**
Left side								**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
Right side				0.174	0.684	0.580		**0.000**	**0.684**	**0.174**	**0.684**	**0.580**
Top side				0.460	0.165	0.509		**0.000**	**0.165**	**0.460**	**0.165**	**0.509**
Bottom side								**0.000**	**0.000**	**0.000**	**0.000**	**0.000**

Remark:

1. According to KDB 648474 D04v01r03, for WWAN / 2.4GHz WLAN / Bluetooth SAR was excluded, due to Hotspot SAR was < 1.2W/kg.
2. According to KDB 941225 D06 v02r01, for 5GHz WLAN SAR was excluded for that position, due to transmitting antenna located larger 25mm from that surface or edge

Test Engineer： Bevis Chang, Iran Wang, Steven hang, Mood Huang, Thomas Wang and Tommy Chen

19. 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 ≤ 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.

20. 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.

[14] FCC KDB 941225 D07 v01r02, " SAR Evaluation Procedures for UMPC Mini-Tablet Devices", Oct 2015.