



SAR TEST REPORT

Applicant Honor Device Co., Ltd.
FCC ID 2AYGCCRT-LX3
Product Smart Phone
Model CRT-LX3
Report No. R2211A1111-S1V1
Issue Date December 22, 2022

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **IEEE 1528-2013, ANSI C95.1: 1992, IEEE C95.1: 1991**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Wei Fangying

Prepared by: Wei Fangying

Fan Guangchang

Approved by: Fan Guangchang

TA Technology (Shanghai) Co., Ltd.

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000



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Version	Revision description	Issue Date
Rev.0	Initial issue of report.	December 20, 2022
Rev.1	Update description.	December 22, 2022
Note: This revised report (Report No. R2211A1111-S1V1) supersedes and replaces the previously issued report (Report No. R2211A1111-S1). Please discard or destroy the previously issued report and dispose of it accordingly.		



1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintw gebi ang Rd, Pudong Shanghai, P.R.China
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Fan Guangchang
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <http://www.ta-shanghai.com>
E-mail: fanguangchang@ta-shanghai.com

1.4 Laboratory Environment

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

2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for the EUT are as follows:

Table 1: Highest Reported SAR

Mode	Highest Reported SAR (W/kg)			
	1g SAR Head	1g SAR Body-worn (Separation 15mm)	1g SAR Hotspot (Separation 10mm)	Product Specific 10-g SAR (Separation 0mm)
GSM 850	0.19	0.27	0.26	NA
GSM 1900	0.80	0.19	0.61	NA
WCDMA Band II	0.77	0.36	0.56	NA
WCDMA Band IV	0.78	0.26	0.70	NA
WCDMA Band V	0.25	0.36	0.61	NA
LTE FDD 2	0.68	0.37	0.69	NA
LTE FDD 4	NA	NA	0.77	NA
LTE FDD 5	0.19	0.34	0.58	NA
LTE FDD 7	0.39	0.31	0.61	NA
LTE FDD 12 (LTE FDD 17)	0.15	0.26	0.39	NA
LTE FDD 13	0.15	0.34	0.53	NA
LTE FDD 26	0.23	0.33	0.55	NA
LTE TDD 38	0.62	0.21	0.40	NA
LTE TDD 41	0.53	0.23	0.45	NA
LTE FDD 66	0.86	0.34	0.67	NA
Wi-Fi (2.4G)	0.20	0.30	0.40	NA
Wi-Fi (5G)	0.61	0.39	0.97	1.76
Bluetooth	0.11	<0.1	<0.1	NA
Date of Testing: November 29, 2022 ~ December 14, 2022				
Date of Sample Received: November 28, 2022				
Note:				
1. The device is in compliance with SAR for Uncontrolled Environment /General Population exposure limits (1.6 W/kg and 4.0 W/kg) specified in ANSI C95.1: 1992/IEEE C95.1: 1991, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.				
2. All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.				



Note:

- 1) The Highest Reported SAR are as follows:

Head (W/kg)	Body-worn (W/kg)	Hotspot (W/kg)	Product Specific 10-g SAR (W/kg)	Simultaneous Transmission Exposure Conditions (W/kg)
0.86	0.39	0.97	1.76	1.36 for SAR _{1g} 1.76 for SAR _{10g}

- 2) For body worn operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and that positions the handset a minimum of 15mm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.
- 3) According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping LTE Bands):
- a) Main and Div Antenna SAR for LTE Band 17 (Frequency range: 704-716 MHz) is covered by LTE Band 12 (Frequency range 699-716 MHz); LTE Band 4 (Frequency range 1710-1755 MHz) is covered by LTE Band 66 (Frequency range: 1710-1780 MHz) for head & body worn due to similar frequency range, same maximum tune up limit and same channel bandwidth.

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

3 Description of Equipment Under Test

Client Information

Applicant	Honor Device Co., Ltd.
Applicant address	Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, P.R.China
Manufacturer	Honor Device Co., Ltd.
Manufacturer address	Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, P.R.China

General Technologies

Application Purpose	Original Grant
EUT Stage	Identical Prototype
Model	CRT-LX3
SN	ARGK012B01000002
Hardware Version	HL3CRTM
Software Version	6.1.0.90(C900E21R1P2)
Antenna Type	Internal Antenna
Device Class	B
Support VOIP	VoLTE or pre-installed VOIP applications are considered.
Wi-Fi Hotspot	Wi-Fi 2.4G Wi-Fi 5G U-NII-1&U-NII-3
Power Class	GSM 850: 4 GSM 1900: 1 WCDMA Band II/IV/V: 3 LTE FDD 2/4/5/7/12/13/17/26/66: 3 LTE TDD 38/41: 3
Power Level	GSM 850: level 5 GSM 1900: level 0 WCDMA Band II/IV/V: all up bits LTE FDD 2/4/5/7/12/13/17/26/66: max power LTE TDD 38/41: max power

EUT Accessory

Accessory	Model	Manufacture	No.
Battery	HB416594EGW	Honor Device Co., Ltd. (Factory: SCUD)	1
		Honor Device Co., Ltd. (Factory: Desay)	2
Earphone	1331-3301-6001-TC-347	22070347 (QC)	1
	MEND1532B528C00	22040339 (LC)	2
	1293-3283-3.5MM-339	22040339 (QC)	3
Earphone, USB Type-C to 3.5mm Adapter Assembly	USB042020090AW7	22040348 (LC)	4

Note: The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.



Wireless Technology and Frequency Range

Wireless Technology		Modulation	Operating mode	Tx (MHz)
GSM	850	Voice(GMSK) GPRS(GMSK) EGPRS(GMSK,8PSK)	☐ Multi-slot Class:8-1UP ☐ Multi-slot Class:10-2UP ☒ Multi-slot Class:12-4UP ☐ Multi-slot Class:33-4UP	824 ~ 849
	1900		1850 ~ 1910	
	Does this device support DTM (Dual Transfer Mode)? ☐ Yes ☒ No			
WCDMA	Band II	QPSK, 16QAM	HSDPA UE Category:14 HSUPA UE Category:7 DC-HSDPA UE Category:24 HSPA+ Category:24	1850 ~ 1910
	Band IV			1710 ~ 1755
	Band V			824 ~ 849
LTE	FDD 2	QPSK, 16QAM, 64QAM	Category 6	1850 ~ 1910
	FDD 4			1710 ~ 1755
	FDD 5			824 ~ 849
	FDD 7			2500 ~ 2570
	FDD 12			699 ~ 716
	FDD 13			777 ~ 787
	FDD 17			704 ~ 716
	FDD 26			814 ~ 849
	TDD 38			2570 ~ 2620
	TDD 41			2496 ~ 2690
	FDD 66			1710 ~ 1780
	Does this device support Carrier Aggregation (CA) ☒ Yes na jiu ☐ No			
	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No			
Bluetooth	2.4G	Version 5.1 BR/EDR + LE		2402 ~2480
Wi-Fi	2.4G	DSSS, OFDM	802.11b/g/n HT20	2412 ~ 2462
	5G	OFDM	802.11a/n HT20/ HT40/ ac VHT20/ VHT40/ VHT80	5150 ~ 5350 5470 ~ 5850
	Does this device support MIMO ☐ Yes ☒ No			



4 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE 1528- 2013, ANSI C95.1: 1992, IEEE C95.1: 1991, the following FCC Published RF exposure KDB procedures:

Reference Standards

KDB 248227 D01 802.11Wi-Fi SAR v02r02

KDB 447498 D01 General RF Exposure Guidance v06

KDB 648474 D04 Handset SAR v01r03

KDB 690783 D01 SAR Listings on Grants v01r03

KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04

KDB 865664 D02 RF Exposure Reporting v01r02

KDB 941225 D01 3G SAR Procedures v03r01

KDB 941225 D05 SAR for LTE Devices v02r05

KDB 941225 D06 Hotspot Mode v02r01

5 Operational Conditions during Test

5.1 Test Positions

5.1.1 Against Phantom Head

Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.

The positions used in the measurements were according to IEEE 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".

5.1.2 Body Worn Configuration

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

Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

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

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

5.1.3 Phablet SAR Test Considerations

For smart phones, with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, 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.

- a) The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
- b) The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for product specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB Publication 865664 D01 to address interactive hand use exposure conditions. The 1-g SAR at 5 mm for UMPC mini-tablets is not required. When hotspot mode applies, product specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold. The normal tablet procedures in KDB Publication 616217 are required when the overall diagonal dimension of the device is > 20.0 cm. Hotspot mode SAR is not required when normal tablet procedures are applied. Product specific 10-g SAR is also not required for the front (top) surface of larger form factor full size tablets. The more conservative normal tablet SAR results can be used to support phablet mode product specific 10-g SAR.
- c) The simultaneous transmission operating configurations applicable to voice and data transmissions for both phone and mini-tablet modes must be taken into consideration separately for 1-g and 10-g SAR to determine the simultaneous transmission SAR test exclusion and measurement requirements for the relevant wireless modes and exposure conditions.

5.2 Measurement Variability

Per FCC KDB Publication 865664 D01, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

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

5.3 Test Configuration

5.3.1 GSM Test Configuration

According to specification 3GPP TS 51.010, the maximum power of the GSM can do the power reduction for the multi-slot. The allowed power reduction in the multi-slot configuration is as following:

Output power of reductions:

Table 2: The allowed power reduction in the multi-slot configuration

Number of timeslots in uplink assignment	Permissible nominal reduction of maximum output power (dB)
1	0
2	0 to 3,0
3	1,8 to 4,8
4	3,0 to 6,0

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. GSM voice and GPRS data use GMSK, which is a constant amplitude modulation with minimal peak to average power difference within the time-slot burst. For EDGE, GMSK is used for MCS 1 – MCS 4 and 8-PSK is used for MCS 5 – MCS 9; where 8-PSK has an inherently higher peak-to-average power ratio. The GMSK and 8-PSK EDGE configurations are considered separately for SAR compliance. The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance. The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

5.3.2 WCDMA Test Configuration

5.3.2.1 3G SAR Test Reduction Procedure

The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations modes according to output power, exposure conditions and device operating capabilities. Maximum output power is verified by applying the applicable versions of 3GPP TS 34.121.

5.3.2.2 Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest SAR configuration in 12.2 kbps RMC for head exposure.

5.3.2.3 Body-worn Accessory SAR

SAR for body-worn accessory configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the EUT with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the EUT, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC

5.3.2.4 Release 5 HSDPA Test Configuration

The 3G SAR test reduction procedure is applied to HSDPA body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures in the “Release 5 HSDPA Data Devices” section of this document, for the highest SAR body-worn accessory exposure configuration in 12.2 kbps RMC. EUT with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

HSDPA should be configured according to the UE category of a test device. The number of HSDSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors (β_c , β_d), and HS-DPCCH power offset parameters (Δ_{ACK} , Δ_{NACK} , Δ_{CQI}) should be set according to values indicated in the Table below. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Table 3: Subtests for WCDMA Release 5 HSDPA

Sub-set	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (note 1, note 2)	CM(dB) (note 3)	MPR(dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (note 4)	15/15 (note 4)	64	12/15 (note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$ Note 2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TFC1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.							

5.3.2.5 Release 6 HSUPA Test Configuration

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body-worn accessory configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures in the “Release 6 HSPA Data Devices” section of this document, for the highest body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When VOIP is applicable for next to the ear head exposure in HSPA, the 3G SAR test reduction procedure is applied to HSPA with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body-worn accessory measurements is tested for next to the ear head exposure.

Due to inner loop power control requirements in HSPA, a communication test set is required for output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSPA are configured according to the β values indicated in Table 2 and other applicable procedures described in the ‘WCDMA EUT’ and ‘Release 5 HSDPA Data Devices’ sections of this document

Table 4: Sub-Test 5 Setup for Release 6 HSUPA

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

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.

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

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

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

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

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

Table 5: HSUPA UE Category

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCHTTI (ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592



4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	2	2 SF2 & 2	11484	5.76
	4	4	10	SF4	20000	2.00
7 (No DPDCH)	4	8	2	2 SF2 & 2 SF4	22996	?
	4	4	10		20000	?
NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE Categories 1 to 6 supports QPSK only. UE Category 7 supports QPSK and 16QAM. (TS25.306-7.3.0)						

5.3.2.6 HSPA, HSPA+ and DC-HSDPA Test Configuration

SAR test exclusion may apply to 3GPP Rel. 6 HSPA and Rel. 8 DC-HSDPA. When SAR measurement is required for HSPA or DC-HSDPA, a KDB inquiry is required to confirm that the wireless mode configurations in the test setup have remained stable throughout the SAR measurements. Without prior KDB confirmation to determine the SAR results are acceptable, a PAG is required for equipment approval.

SAR test exclusion for HSPA, HSPA+ and DC-HSDPA is determined according to the following:

1) The HSPA procedures are applied to configure 3GPP Rel. 6 HSPA devices in the required sub-test mode(s) to determine SAR test exclusion.

2) SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

3) SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

4) Regardless of whether a PBA is required, the following information must be verified and included in the SAR report for devices supporting HSPA, HSPA+ or DC-HSDPA:

a) The output power measurement results and applicable release version(s) of 3GPP TS 34.121. Power measurement difficulties due to test equipment setup or availability must be resolved between the grantee and its test lab.

b) The power measurement results are in agreement with the individual device implementation and specifications. When Enhanced MPR (E-MPR) applies, the normal MPR targets may be modified according to the Cubic Metric (CM) measured by the device, which must be taken into consideration.

c) The UE category, operating parameters, such as the β and Δ values used to configure the device for testing, power setback procedures described in 3GPP TS 34.121 for the power measurements, and HSPA/HSPA+ channel conditions (active and stable) for the entire duration of the measurement according to the required E-TFCI and AG index values.

5) When SAR measurement is required, the test configurations, procedures and power measurement

results must be clearly described to confirm that the required test parameters are used, including E-TFCI and AG index stability and output power conditions.

Table 6: HS-DSCH UE Category

HS-DSCH category	Maximum number of HS-DSCH codes received	Minimum inter-TTI interval	Maximum number of bits of an HS-DSCH transport block received within an HS-DSCH TTI NOTE 1	Total number of soft channel bits	Supported modulations without MIMO operation or dual cell operation	Supported modulations with MIMO operation and without dual cell operation	Supported modulations with dual cell operation
Category 1	5	3	7298	19200	QPSK, 16QAM	Not applicable (MIMO not supported)	Not applicable (dual cell operation not supported)
Category 2	5	3	7298	28800			
Category 3	5	2	7298	28800			
Category 4	5	2	7298	38400			
Category 5	5	1	7298	57600			
Category 6	5	1	7298	67200			
Category 7	10	1	14411	115200			
Category 8	10	1	14411	134400			
Category 9	15	1	20251	172800			
Category 10	15	1	27952	172800			
Category 11	5	2	3630	14400	QPSK		
Category 12	5	1	3630	28800			
Category 13	15	1	35280	259200	QPSK, 16QAM, 64QAM		
Category 14	15	1	42192	259200			
Category 15	15	1	23370	345600	QPSK, 16QAM		
Category 16	15	1	27952	345600	QPSK, 16QAM		
Category 17 NOTE 2	15	1	35280	259200	QPSK, 16QAM, 64QAM	—	
			23370	345600	—	QPSK, 16QAM	
Category 18 NOTE 3	15	1	42192	259200	QPSK, 16QAM, 64QAM	—	
			27952	345600	—	QPSK, 16QAM	
Category 19	15	1	35280	518400	QPSK, 16QAM, 64QAM		
Category 20	15	1	42192	518400	QPSK, 16QAM, 64QAM		
Category 21	15	1	23370	345600	-	-	QPSK, 16QAM
Category 22	15	1	27952	345600			QPSK, 16QAM, 64QAM
Category 23	15	1	35280	518400			
Category 24	15	1	42192	518400			

5.3.3 LTE Test Configuration

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

A) Spectrum Plots for RB Configurations

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

B) MPR

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

C) A-MPR

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

D) Largest Channel Bandwidth Standalone SAR Test Requirements**1) QPSK with 1 RB allocation**

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

4) Higher order modulations

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

E) Other Channel Bandwidth Standalone SAR Test Requirements

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

5.3.4 Additional Requirements for TDD LTE Specification

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

TDD LTE Band supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table: Uplink-downlink configurations for uplink-downlink configurations and Table: Configuration of special subframe (lengths of DwPTS/GP/UpPTS) for Special subframe configurations.

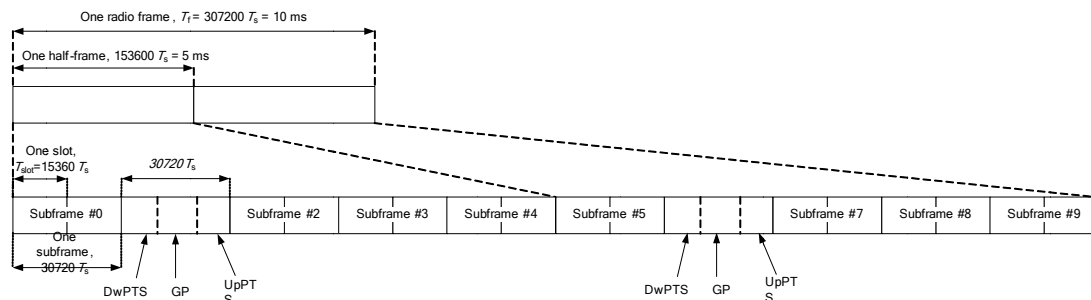


Figure 1: Frame structure type 2

Table 7: Configuration of Special Subframe (Lengths of DwPTS/GP/UpPTS)

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

Table 8: Uplink-Downlink Configurations

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

According to Figure 1, one radio frame is configured by 10 subframes, which consist of Uplink-subframe, Downlink-subframe and Special subframe. For TDD-LTE, the Duty Cycle should be calculated on Uplink-subframes and Special subframes, due to Special subframe containing both

Uplink transmissions. So for one radio frame, Duty Cycle can be calculated with formula as below.
The count of Uplink subframes are according to Table: Uplink-downlink configurations:

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

About the uplink component of Special subframes, we can figure out by Table: Configuration of special subframe (lengths of DwPTS/GP/UpPTS):

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

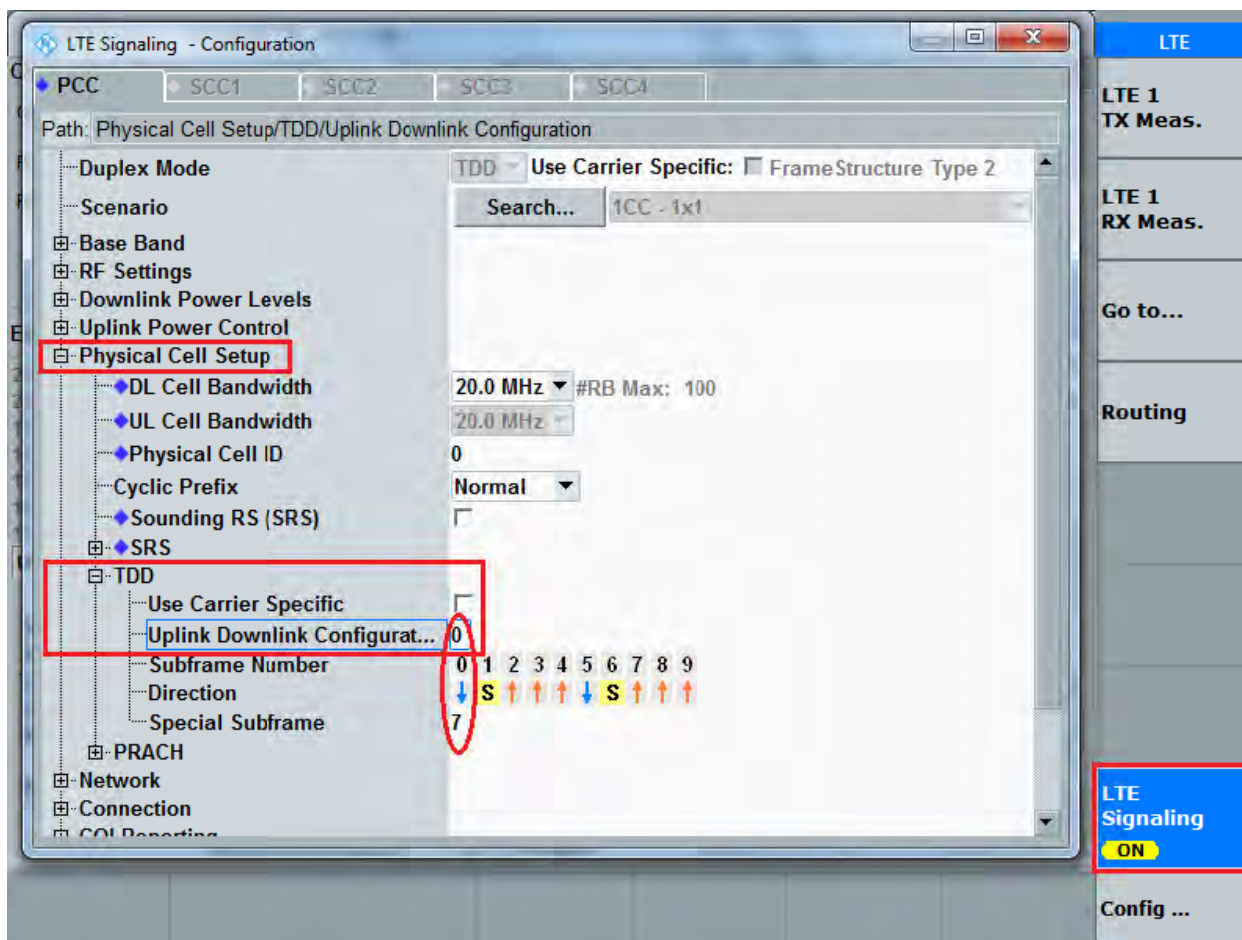
In conclusion, for the TDD LTE Band, Duty Cycle can be calculated with formula as below. All these sets are ok when we test, or we can set as below.

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

And we can get different Duty cycles under different configurations:

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

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



5.3.5 Wi-Fi Test Configuration

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; These are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the *initial test position(s)* by applying the DSSS or OFDM SAR measurement procedures in the required wireless mode test configuration(s). The *initial test position(s)* is measured using the highest measured maximum output power channel in the required wireless mode test configuration(s). When the *reported SAR* for 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 wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.
- 0.4 W/kg, SAR is repeated using the same wireless mode test 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 *reported SAR* is ≤ 0.8 W/kg or all required test positions are tested.
 - ✧ For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
 - ✧ When it is unclear, all equivalent conditions must be tested.
- For all positions/configurations tested using the *initial test position* and subsequent test positions, when the *reported SAR* is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the *reported SAR* is ≤ 1.2 W/kg or all required test channels are considered.
 - ✧ The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.

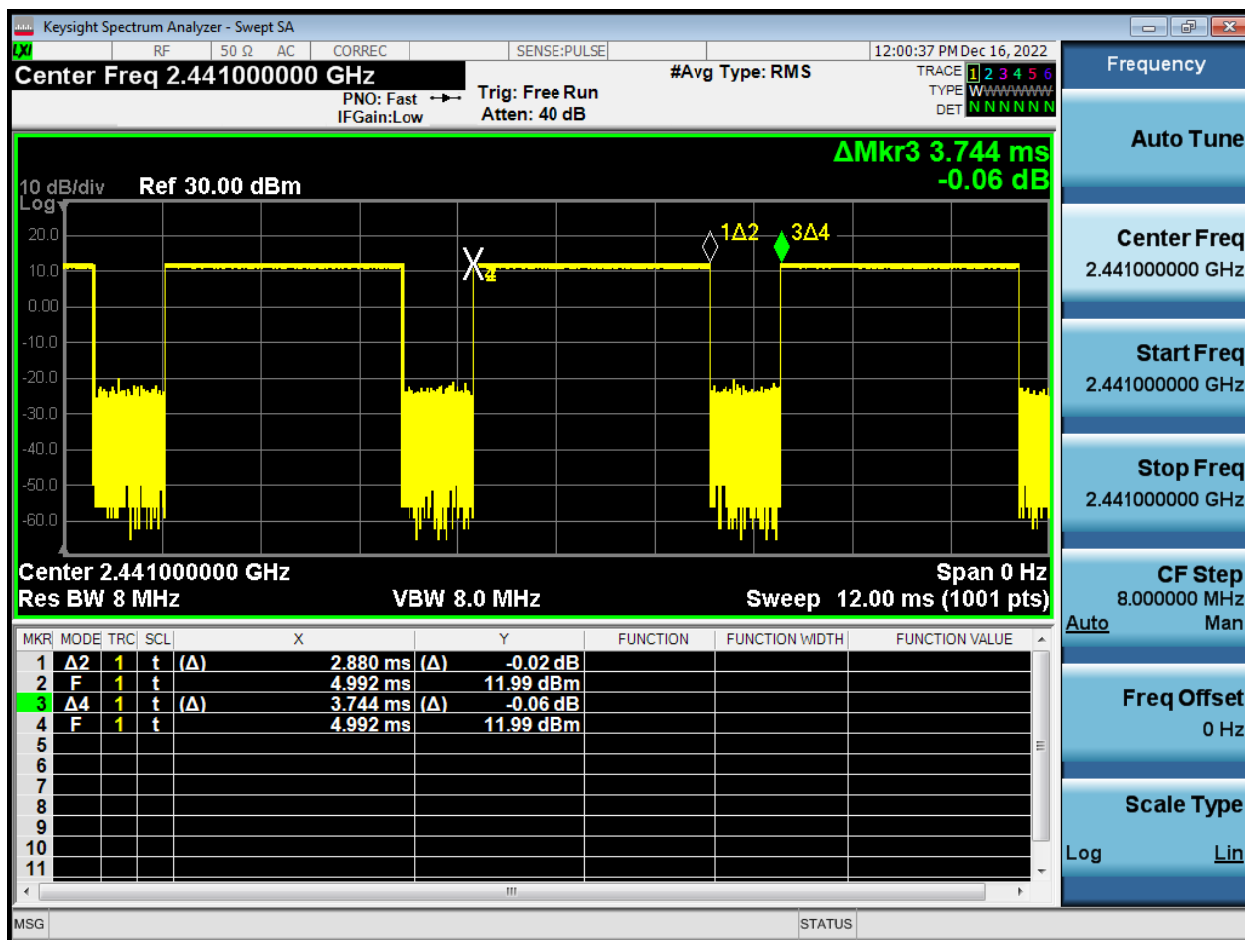
To determine the initial test position, Area Scans were performed to determine the position with the Maximum Value of SAR (measured). The position that produced the highest Maximum Value of SAR is considered the worst case position; thus used as the initial test position.

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

5.3.6 Bluetooth Test Configuration

For Bluetooth SAR testing, Bluetooth engineering testing software installed on the EUT can provide continuous transmitting RF signal with maximum output power. And the CBT control the EUT operating with hoping off and data rate set for DH5.

The SAR measurement takes full account of the Bluetooth duty cycle and is reflected in the report, and the duty factor of the device is as follow:



Note: Duty factor= Ton (ms)/ T(on+off) (ms)=2.880/3.744*100%=76.9%

5.3.7 Downlink LTE CA specification

The device supports LTE advanced Rel. 9, Carrier Aggregation (CA) is supported for Intra band only, more details information is provided in tables below:

1) DL CA Intra band contiguous

E-UTRA CA configuration / Bandwidth combination set							
E-UTRA CA configuration	Component carriers in order of increasing carrier frequency					Maximum aggregated bandwidth [MHz]	Bandwidth combination set
	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_2C	5	20				40	0
	10	15, 20					



	15	10, 15, 20					
	20	5, 10, 15, 20					
CA_7C	15	15				40	0
	20	20					
	10	20				40	1
	15	15, 20					
	20	10, 15, 20				40	2
	15	10, 15					
	20	15, 20				40	0
CA_38C	15	15					
	20	20					

NOTE 1: The CA configuration refers to an operating band and a CA bandwidth class. Absence of a CA bandwidth class for an operating band implies support of all classes.

NOTE 2: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.

2) DL CA Intra band non-contiguous

E-UTRA CA configuration / Bandwidth combination set					
E-UTRA CA configuration	Component carriers in order of increasing carrier frequency			Maximum aggregated bandwidth [MHz]	Bandwidth combination set
	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_7A-7A	5	15		40	0
	10	10, 15			
	15	15, 20			
	20	20			
	5, 10, 15, 20	5, 10, 15, 20		40	1
	5, 10, 15, 20	5, 10		30	2
	10, 15, 20	10, 15, 20		40	3

3) DL CA Inter-band

E-UTRA CA Configuration	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_2A-4A	2	Yes	Yes	Yes	Yes	Yes	Yes	40	0
	4			Yes	Yes	Yes	Yes		
	2			Yes	Yes			20	1
	4			Yes	Yes				
	2			Yes	Yes	Yes	Yes	40	2
	4			Yes	Yes	Yes	Yes		



CA_2A-5A	2			Yes	Yes	Yes	Yes	30	0
	5			Yes	Yes				
	2			Yes	Yes			20	1
	5			Yes	Yes				
CA_2A-7A	2			Yes	Yes	Yes	Yes	40	0
	7			Yes	Yes	Yes	Yes		
CA_4A-5A	4			Yes	Yes			20	0
	5			Yes	Yes				
	4			Yes	Yes	Yes	Yes	30	1
	5			Yes	Yes				
CA_4A-7A	4			Yes	Yes			30	0
	7			Yes	Yes	Yes	Yes		
	4			Yes	Yes	Yes	Yes	40	1
	7			Yes	Yes	Yes	Yes		

NOTE 1: The CA Configuration refers to a combination of an operating band and a CA bandwidth class. Absence of a CA bandwidth class for an operating band implies support of all classes.

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

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

For downlink carrier aggregation, SAR is not required for downlink carrier aggregation in active uplink maximum output power not more than 1/4dB higher than the maximum output power measured when downlink carrier aggregation inactive.

5.3.8 SAR Detection Mechanism Specification

This device support the receiver and hotspot detection mechanism, the main purpose is to minimize triggering associated with power reduction scenarios and provide enhanced user experience.

More details information followings:

Main Antenna		Power Reduction Level Amount (dB)															
Power Reduction Scenario	Receiver/Hotspot	GSM850	GSM1900	WCDMA B2	WCDMA B4	WCDMA B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B13	LTE B17	LTE B26	LTE B38	LTE B41	LTE B66
Standalone	Receiver on	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.20	0.00	0.00	0.00	0.00	1.50	2.50	0.00
	Receiver off	0.00	0.00	1.40	1.90	0.00	0.70	1.10	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.80	1.00
	Receiver off+Hotspot on	3.80	0.00	1.40	2.10	0.00	0.70	1.10	0.00	7.80	0.00	0.00	0.00	0.00	4.60	5.50	2.40
Simultaneous	Wi-Fi on	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.20	0.00	0.00	0.00	0.00	1.50	2.50	0.00
	Receiver off	0.00	0.00	1.40	1.90	0.00	0.70	1.10	0.00	7.80	0.00	0.00	0.00	0.00	4.60	5.50	1.00

Div Antenna		Power Reduction Level Amount (dB)								
Power Reduction Scenario	Receiver/Hotspot	GSM1900	WCDMA B2	WCDMA B4	LTE B2	LTE B4	LTE B7	LTE B38	LTE B41	LTE B66
Standalone	Receiver on	1.40	4.90	5.80	4.50	5.10	0.00	0.00	0.00	5.00
	Receiver off	0.00	2.40	3.30	2.00	2.40	1.70	0.40	0.00	2.70
	Receiver off+Hotspot on	2.80	7.00	8.00	7.00	7.10	1.70	0.40	0.00	7.50
Simultaneous	Wi-Fi on	1.40	4.90	5.80	4.50	5.10	0.00	0.00	0.00	5.00
	Receiver off	2.80	7.00	8.00	7.00	7.10	1.70	0.40	0.00	7.50

Wi-Fi Antenna		Power Reduction Level Amount (dB)								
Power Reduction Scenario	Receiver/Hotspot	WiFi 2.4G 11b	WiFi 2.4G 11g	WiFi 2.4G 11n HT20	WiFi 5G 11a	WiFi 5G 11n HT20	WiFi 5G 11n HT40	WiFi 5G 802.11a eVHT20	WiFi 5G 802.11a eVHT40	WiFi 5G 802.11a eVHT80
Standalone	Receiver on	7.00	8.00	7.00	5.50	5.50	5.50	5.50	5.50	5.00
	Receiver off	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Receiver off+Hotspot on	2.00	3.00	2.00	1.00	1.00	1.00	1.00	1.00	0.50

Note: 1) A fixed level power reduction is applied for some frequency bands when 2G/3G/4G and Wi-Fi transmit simultaneously.

5.3.9 Country Code Detection Mechanism

The device uses the mobile country code (MCC) to indicate whether the users in CE countries or FCC countries. The selection between CE countries and FCC countries power levels is based on the country code detection mechanism. It can determine the countries where users are and set the relevant power level for 2G&3G&4G and Wi-Fi antennas accordingly.

Table: Summary of country code detection mechanism

Antenna	scene	MCC OF CE Country	MCC OF FCC Country	MCC OF France Country
		(CE standard) power reduce (dB)	(FCC standard) power reduce (dB)	France power reduce (dB)
LTE Band 7 Ant 4	receiver on limb	5.2	5.2	5.2
WCDMA Band II Ant 2	receiver on limb	4.9	4.9	4.9
WCDMA Band IV Ant 2	receiver on limb	5.8	5.8	5.8
LTE Band 2 Ant 2	receiver on limb	4.5	4.5	4.5
LTE Band 4 Ant 2	receiver on limb	5.1	5.1	5.1
LTE Band 66 Ant 2	receiver on limb	5	5	5
LTE Band 2 Ant 0	receiver on limb	0	0	0
LTE Band 4 Ant 0	receiver on limb	0	0	0
WCDMA Band II Ant 0	receiver on limb	0	0	0
WCDMA Band IV Ant 0	receiver on limb	0	0	0
GSM 1900 Ant 2	receiver on limb	0	0	0
LTE Band 38 Ant 4	receiver on limb	1.5	1.5	1.5
LTE Band 66 Ant 0	receiver on limb	0	0	0
2.4G Wi-Fi	receiver on limb	2	7	4.5
5G Wi-Fi	receiver on limb	2	6.5	6
Antenna	scene	MCC OF CE Country	MCC OF FCC Country	MCC OF France Country
		(CE standard) power reduce (dB)	(FCC standard) power reduce (dB)	France power reduce (dB)
LTE Band 7 Ant 4	receiver off limb	3.1	3.1	3.1
WCDMA Band II Ant 2	receiver off limb	2.4	2.4	2.4
WCDMA Band IV Ant 2	receiver off limb	3.3	3.3	3.3
LTE Band 2 Ant 2	receiver off limb	2	2	2
LTE Band 4 Ant 2	receiver off limb	2.4	2.4	2.4
LTE Band 66 Ant 2	receiver off limb	2.7	2.7	2.7
LTE Band 2 Ant 0	receiver off limb	0.7	0.7	0.7
LTE Band 4 Ant 0	receiver off limb	1.1	1.1	1.1
WCDMA Band II Ant 0	receiver off limb	1.4	1.4	1.4
WCDMA Band IV Ant 0	receiver off limb	1.9	1.9	1.9
GSM 1900 Ant 2	receiver off limb	0	0	0
LTE Band 38 Ant 4	receiver off limb	0	0	0



LTE Band 66 Ant 0	receiver off limb	1	1	1
2.4G Wi-Fi	receiver off limb	0	0	0
5G Wi-Fi	receiver off limb	1	1	1

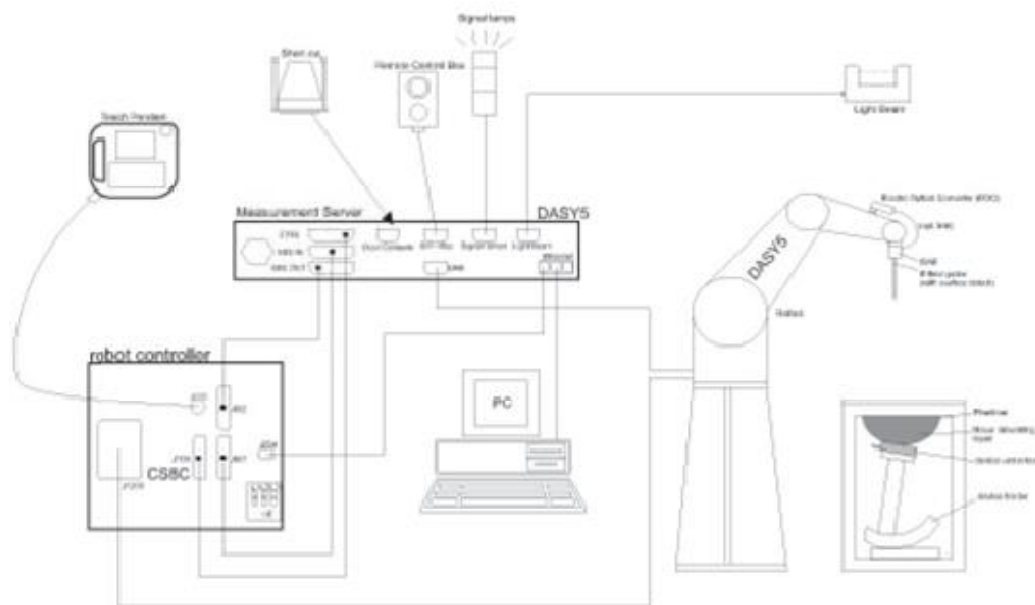
Based on the summary table of countries detection mechanism above, we plan to perform the SAR test as below:

For conducted power test, both the full power level and reduced power level will be tested by setting different MCC to validate that the country code detection mechanism works

6 SAR Measurements System Configuration

6.1 SAR Measurement Set-up

The DASY system 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 DASY 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.

6.2 DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

EX3DV4 Probe Specification

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure Scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.



E-field Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy was evaluated and found to be better than ± 0.25 dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.



$$\text{SAR} = C \Delta T / \Delta t$$

Where: Δt = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

ΔT = Temperature increase due to RF exposure.

Or

$$\text{SAR} = I E I^2 \sigma / \rho$$

Where: σ = Simulated tissue conductivity,

ρ = Tissue density (kg/m^3).

6.3 SAR Measurement Procedure

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.

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 dB) 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 D01 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Zoom Scan

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

Zoom scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			≤3GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{zoom}} \Delta y_{\text{zoom}}$			≤2GHz: ≤8mm 2 – 3GHz: ≤5mm*	3 – 4GHz: ≤5mm* 4 – 6GHz: ≤4mm*
Maximum zoom scan spatial resolution, normal to phantom surface	Uniform grid: $\Delta z_{\text{zoom}}(n)$		≤5mm	3 – 4GHz: ≤4mm 4 – 5GHz: ≤3mm 5 – 6GHz: ≤2mm
	Graded grid	$\Delta z_{\text{zoom}}(1)$: between 1 st two points closest to phantom surface	≤4mm	3 – 4GHz: ≤3mm 4 – 5GHz: ≤2.5mm 5 – 6GHz: ≤2mm
		$\Delta z_{\text{zoom}}(n>1)$: between subsequent points	≤1.5• $\Delta z_{\text{zoom}}(n-1)$	
Minimum zoom scan volume	X, y, z		≥30mm	3 – 4GHz: ≥28mm 4 – 5GHz: ≥25mm 5 – 6GHz: ≥22mm
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 <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4W/kg, ≤8mm, ≤7mm and ≤5mm zoom scan resolution may be applied, respectively, for 2GHz to 3GHz, 3GHz to 4GHz and 4GHz to 6GHz.				

Volume Scan Procedures

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

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.



7 Main Test Equipment

Name of Equipment	Manufacturer	Type/Model	Serial Number	Last Cal.	Cal. Due Date
Network Analyzer	Agilent	E5071B	MY42404014	2022-05-14	2023-05-13
Dielectric Probe Kit	SPEAG	DAK-12	1171	2022-10-29	2023-10-28
Power Meter	Agilent	E4417A	GB41291714	2022-05-14	2023-05-13
Power Sensor	Agilent	N8481H	MY50350004	2022-05-14	2023-05-13
Power Sensor	Agilent	E9327A	US40441622	2022-05-14	2023-05-13
Power Sensor	Agilent	NRP18S	101955	2022-05-14	2023-05-13
Signal Generator	Agilent	N5181A	MY50140143	2022-05-14	2023-05-13
Dual Directional Coupler	UCL	UCL-DDC0 56G-S	20010600118	/	/
Amplifier	INDEXSAR	TPA-005060 G01	13030502	2022-05-14	2023-05-13
Wireless Communication Tester	Anritsu	MT8820C	6201342015	2021-12-12	2022-12-11
				2022-12-10	2023-12-09
Wireless Communication Tester	R&S	CMW 500	146734	2022-05-14	2023-05-13
E-field Probe	SPEAG	EX3DV4	3677	2022-07-08	2023-07-07
DAE	SPEAG	DAE4	1317	2022-06-13	2023-06-12
Validation Kit 750MHz	SPEAG	D750V3	1045	2020-08-28	2023-08-27
Validation Kit 835MHz	SPEAG	D835V2	4d020	2020-08-28	2023-08-27
Validation Kit 1750MHz	SPEAG	D1750V2	1033	2020-02-25	2023-02-24
Validation Kit 1900MHz	SPEAG	D1900V2	5d060	2020-08-27	2023-08-26
Validation Kit 2450MHz	SPEAG	D2450V2	786	2020-08-27	2023-08-26
Validation Kit 2600MHz	SPEAG	D2600V2	1025	2021-04-23	2024-04-22
Validation Kit 5GHz	SPEAG	D5GHzV2	1151	2020-02-27	2023-02-26
Software for Tissue	Agilent	85070	/	/	/
Temperature Probe	Tianjin jinming	JM222	381	2022-05-14	2023-05-13
Twin SAM Phantom	SPEAG	SAM1	1534	/	/
Hygrothermograph	Anymetr	HTC - 1	TY2020A003	2022-05-14	2023-05-13
TX90 XL	SPEAG	Staubli TX90 XL	/	/	/
Software for Test	SPEAG	DASY52	52.10.4.1527	/	/

8 Tissue Dielectric Parameter Measurements & System Check

8.1 Tissue Verification

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 24 hours of use; or earlier if the dielectric parameters can become out of tolerance.

Target values

Frequency (MHz)	ϵ_r	$\sigma(\text{s/m})$
750	41.9	0.89
835	41.5	0.90
1750	40.1	1.37
1900	40.0	1.40
2450	39.2	1.80
2600	39.0	1.96
5250	35.9	4.71
5600	35.5	5.07
5750	35.4	5.22

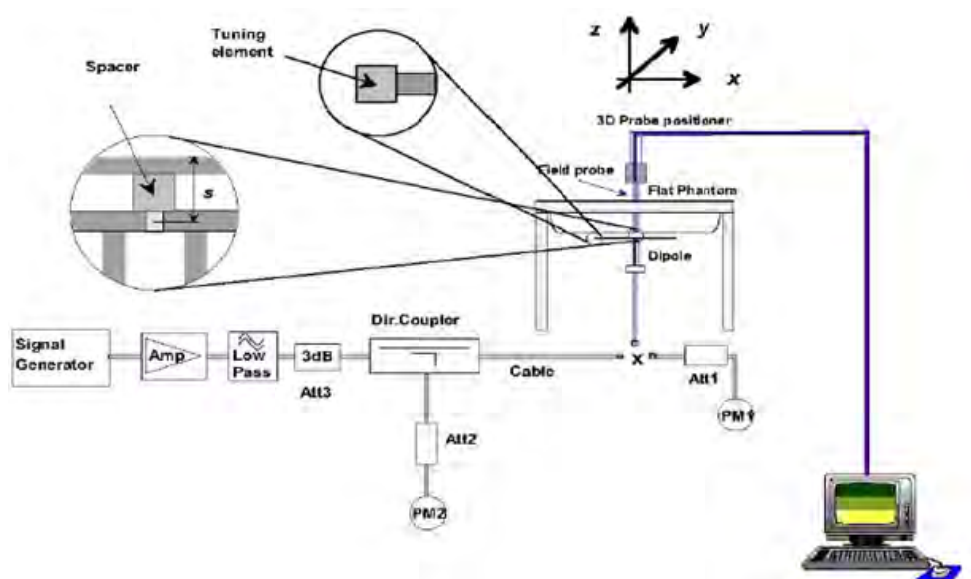
Measurements results

Frequency (MHz)	Test Date	Temp ℃	Measured Dielectric Parameters		Target Dielectric Parameters		Limit (Within $\pm 5\%$)	
			ϵ_r	σ (s/m)	ϵ_r	σ (s/m)	Dev ϵ_r (%)	Dev σ (%)
750	2022/12/7	21.5	42.3	0.88	41.9	0.89	0.95	-1.12
835	2022/11/29	21.5	41.4	0.88	41.5	0.90	-0.24	-2.22
	2022/11/30	21.5	41.3	0.87	41.5	0.90	-0.48	-3.33
1750	2022/12/5	21.5	40.2	1.34	40.1	1.37	0.25	-2.19
	2022/12/6	21.5	40.1	1.34	40.1	1.37	0.00	-2.19
	2022/12/7	21.5	40.2	1.36	40.1	1.37	0.25	-0.73
1900	2022/11/30	21.5	40.1	1.41	40.0	1.40	0.25	0.71
	2022/12/3	21.5	40.2	1.43	40.0	1.40	0.50	2.14
	2022/12/4	21.5	40.0	1.40	40.0	1.40	0.00	0.00
2450	2022/12/8	21.5	38.6	1.81	39.2	1.80	-1.53	0.56
2600	2022/12/9	21.5	38.2	2.01	39.0	1.96	-2.05	2.55
	2022/12/10	21.5	38.4	1.94	39.0	1.96	-1.54	-1.02
	2022/12/11	21.5	38.3	1.99	39.0	1.96	-1.79	1.53
	2022/12/12	21.5	38.5	1.95	39.0	1.96	-1.28	-0.51
	2022/12/13	21.5	38.2	1.96	39.0	1.96	-2.05	0.00
	2022/12/14	21.5	39.0	1.98	39.0	1.96	0.00	1.02
5250	2022/12/1	21.5	35.5	4.80	35.9	4.71	-1.11	1.91
	2022/12/2	21.5	35.7	4.74	35.9	4.71	-0.56	0.64
5600	2022/12/2	21.5	34.2	5.21	35.5	5.07	-3.66	2.76
5750	2022/12/9	21.5	34.9	5.21	35.4	5.22	-1.41	-0.19
Note: The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements ≤ 3 GHz and ≥ 10.0 cm for measurements > 3 GHz.								

8.2 System Check

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulates were measured using the dielectric probe kit and the network analyzer. A system check measurement for every day was made following the determination of the dielectric parameters of the Tissue simulates, using the dipole validation kit. The dipole antenna was placed under the flat section of the twin SAM phantom.

System check is performed regularly on all frequency bands where tests are performed with the DASY system.



Picture 1 System Check setup



Picture 2 Setup Photo

**Justification for Extended SAR Dipole Calibrations**

Usage of SAR dipoles calibrated less than 3 years ago but more than 1 year ago were confirmed in maintaining return loss (< -20 dB, within 20% of prior calibration) and impedance (within 5 ohm from prior calibration) requirements per extended calibrations in KDB 865664 D01:

Dipole		Date of Measurement	Return Loss (dB)	Δ %	Impedance (Ω)			
					Real	$\Delta\Omega$	Imaginary	$\Delta\Omega$
Dipole D750V3 SN: 1045	Head Liquid	8/28/2020	26.6	/	54.3	/	-2.29	/
		8/27/2021	26.2	-1.5	53.9	-0.4	-2.28	0.01
		8/26/2022	26.0	-0.8	52.1	-1.8	-2.25	0.03
Dipole D835V2 SN: 4d020	Head Liquid	8/28/2020	26.2	/	54.8	/	1.73	/
		8/27/2021	26.5	1.1	55.2	0.4	1.74	0.01
		8/26/2022	27.2	2.6	55.5	0.3	1.74	0
Dipole D1750V2 SN: 1033	Head Liquid	2/25/2020	38.3	/	48.8	/	-0.06	/
		2/24/2021	40.0	4.4	49.9	1.1	-0.06	0
		2/23/2022	40.6	1.5	51.1	1.2	-0.05	0.01
Dipole D1900V2 SN: 5d060	Head Liquid	8/27/2020	23.3	/	52.5	/	6.58	/
		8/26/2021	23.0	-1.3	51.9	-0.6	6.54	-0.04
		8/25/2022	22.2	-3.5	51.2	-0.7	6.53	-0.01
Dipole D2450V2 SN: 786	Head Liquid	8/27/2020	27.1	0.7	53.8	-0.7	1.43	-0.01
		8/26/2021	27.4	1.1	53.4	-0.4	1.43	0
		8/25/2022	22.9	/	50.1	/	-7.19	/
Dipole D2600V2 SN: 1025	Head Liquid	4/23/2021	22.4	-2.2	50.7	0.6	-7.23	-0.04
		4/22/2022	27.5	/	48.2	/	3.80	/
Dipole D5GHzV2 SN: 1151 (5250MHz)	Head Liquid	2/27/2020	23.4	/	52.4	/	-6.47	/
		2/26/2021	23.8	1.7	50.0	-2.4	-6.31	0.16
		2/25/2022	23.9	0.4	49.3	-0.7	-6.42	-0.11
Dipole D5GHzV2 SN: 1151 (5600MHz)	Head Liquid	2/27/2020	22.6	/	57.0	/	-3.86	/
		2/26/2021	21.5	-4.9	56.5	-0.9	-3.77	0.09
		2/25/2022	20.9	-2.8	56.3	-0.4	-3.83	-0.06
Dipole D5GHzV2 SN: 1151 (5750MHz)	Head Liquid	2/27/2020	25.0	/	55.9	/	0.16	/
		2/26/2021	26.8	-1.8	52.5	-3.4	0.15	-0.01
		2/25/2022	27.1	1.1	52.1	-0.4	0.16	0.01



System Check Results

Frequency (MHz)	Test Date	Temp °C	250mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
750	2022/12/7	21.5	2.13	8.52	8.37	1.79	1
835	2022/11/29	21.5	2.44	9.76	9.65	1.14	2
	2022/11/30	21.5	2.46	9.84	9.65	1.97	3
1750	2022/12/5	21.5	8.95	35.80	35.90	-0.28	4
	2022/12/6	21.5	9.11	36.44	35.90	1.50	5
	2022/12/7	21.5	8.96	35.84	35.90	-0.17	6
1900	2022/11/30	21.5	9.88	39.52	39.50	0.05	7
	2022/12/3	21.5	9.85	39.40	39.50	-0.25	8
	2022/12/4	21.5	9.55	38.20	39.50	-3.29	9
2450	2022/12/8	21.5	13.70	54.80	52.30	4.78	10
2600	2022/12/9	21.5	13.90	55.60	56.10	-0.89	11
	2022/12/10	21.5	13.88	55.52	56.10	-1.03	12
	2022/12/11	21.5	13.94	55.76	56.10	-0.61	13
	2022/12/12	21.5	13.90	55.60	56.10	-0.89	14
	2022/12/13	21.5	13.90	55.60	56.10	-0.89	15
	2022/12/14	21.5	13.85	55.40	56.10	-1.25	16
Frequency (MHz)	Test Date	Temp °C	100mW Measured SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	Δ % (Limit ±10%)	Plot No.
5250	2022/12/1	21.5	7.87	78.70	78.00	0.90	17
	2022/12/2	21.5	7.54	75.40	78.00	-3.33	18
5600	2022/12/2	21.5	7.67	76.70	80.50	-4.72	19
5750	2022/12/9	21.5	7.66	76.60	77.40	-1.03	20
Note: Target Values used derive from the calibration certificate Data Storage and Evaluation.							

8.3 SAR System Validation

Per FCC KDB 865664 D02v01, SAR system verification is required to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles are used with the required tissue-equivalent media for system validation, according to the procedures outlined in FCC KDB 865664 D01 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point must be validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status, measurement frequencies, SAR probes, calibrated signal type(s) and tissue dielectric parameters has been included.

Frequency [MHz]	Date	Probe SN	Probe Type	Probe Cal Point		PERM (Er)	COND (Σ)	CW Validation		
								Sensitivity	Probe Linearity	Probe Isotropy
750	2022/7/8	3677	EX3DV4	750	Head	41.9	0.89	PASS	PASS	PASS
835	2022/7/8	3677	EX3DV4	835	Head	41.5	0.90	PASS	PASS	PASS
1750	2022/7/8	3677	EX3DV4	1750	Head	40.1	1.37	PASS	PASS	PASS
1900	2022/7/8	3677	EX3DV4	1900	Head	40.0	1.40	PASS	PASS	PASS
2450	2022/7/8	3677	EX3DV4	2450	Head	39.2	1.80	PASS	PASS	PASS
2600	2022/7/8	3677	EX3DV4	2600	Head	39.0	1.96	PASS	PASS	PASS
5250	2022/7/8	3677	EX3DV4	5250	Head	35.9	4.71	PASS	PASS	PASS
5600	2022/7/8	3677	EX3DV4	5600	Head	35.5	5.07	PASS	PASS	PASS
5750	2022/7/8	3677	EX3DV4	5750	Head	35.4	5.22	PASS	PASS	PASS

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664D01v01 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5dB), such as OFDM according to KDB 865664.



9 Normal and Maximum Output Power

KDB 447498 D01 at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

9.1 GSM Mode

Main- Antenna

GSM850										
Receiver on & Body SAR		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	128/824.2	190/836.6	251/848.8		MAX	128/824.2	190/836.6	251/848.8
GSM	CS	33.80	32.39	32.38	32.36	9.03	24.77	23.36	23.35	23.33
GPRS/EGPRS (GMSK)	1 Tx Slot	33.80	32.32	32.41	32.24	9.03	24.77	23.29	23.38	23.21
	2 Tx Slots	31.00	29.53	29.53	29.53	6.02	24.98	23.51	23.51	23.51
	3 Tx Slots	29.10	27.67	27.63	27.52	4.26	24.84	23.41	23.37	23.26
	4 Tx Slots	27.80	26.25	26.13	26.04	3.01	24.79	23.24	23.12	23.03
EGPRS (8PSK)	1 Tx Slot	28.30	26.50	26.98	26.57	9.03	19.27	17.47	17.95	17.54
	2 Tx Slots	25.10	23.48	23.57	23.61	6.02	19.08	17.46	17.55	17.59
	3 Tx Slots	22.80	21.33	21.44	21.45	4.26	18.54	17.07	17.18	17.19
	4 Tx Slots	21.30	19.71	19.43	19.64	3.01	18.29	16.70	16.42	16.63
Notes: The worst-case configuration and mode for SAR testing is determined to be as follows: Standalone: GSM 850 GMSK (GPRS) mode with 2 time slots for Max power, based on the output power measurements above.										

GSM850										
Hotspot on		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power(dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	128/824.2	190/836.6	251/848.8		MAX	128/824.2	190/836.6	251/848.8
GSM	CS	30.00	28.75	28.63	28.56	9.03	20.97	19.72	19.60	19.53
GPRS/EGPRS (GMSK)	1 Tx Slot	30.00	28.76	28.68	28.56	9.03	20.97	19.73	19.65	19.53
	2 Tx Slots	27.20	25.84	25.69	25.59	6.02	21.18	19.82	19.67	19.57
	3 Tx Slots	25.30	23.88	23.78	23.66	4.26	21.04	19.62	19.52	19.40
	4 Tx Slots	24.00	22.67	22.46	22.35	3.01	20.99	19.66	19.45	19.34
EGPRS (8PSK)	1 Tx Slot	24.50	22.76	23.03	22.85	9.03	15.47	13.73	14.00	13.82
	2 Tx Slots	21.30	19.50	19.80	19.44	6.02	15.28	13.48	13.78	13.42
	3 Tx Slots	19.00	17.14	17.14	17.30	4.26	14.74	12.88	12.88	13.04
	4 Tx Slots	17.50	15.53	15.80	15.52	3.01	14.49	12.52	12.79	12.51
Notes: The worst-case configuration and mode for SAR testing is determined to be as follows: Standalone: GSM 850 GMSK (GPRS) mode with 2 time slots for Max power, based on the output power measurements above.										



GSM 1900										
Receiver on & Body SAR		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power (dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512/1850.2	661/1880	810/1909.8		MAX	512/1850.2	661/1880	810/1909.8
GSM	CS	30.80	29.88	29.68	29.63	9.03	21.77	20.85	20.65	20.60
GPRS/EGPRS (GMSK)	1 Tx Slot	30.80	29.83	29.67	29.58	9.03	21.77	20.80	20.64	20.55
	2 Tx Slots	28.00	27.08	26.90	26.84	6.02	21.98	21.06	20.88	20.82
	3 Tx Slots	26.20	25.25	25.10	25.04	4.26	21.94	20.99	20.84	20.78
	4 Tx Slots	24.80	23.84	23.67	23.68	3.01	21.79	20.83	20.66	20.67
EGPRS (8PSK)	1 Tx Slot	26.50	24.96	24.95	24.82	9.03	17.47	15.93	15.92	15.79
	2 Tx Slots	23.30	22.20	22.18	21.83	6.02	17.28	16.18	16.16	15.81
	3 Tx Slots	21.30	19.75	20.09	19.71	4.26	17.04	15.49	15.83	15.45
	4 Tx Slots	19.50	18.16	18.41	18.28	3.01	16.49	15.15	15.40	15.27

Notes: The worst-case configuration and mode for SAR testing is determined to be as follows:

Standalone: GSM 1900 GMSK (GPRS) mode with 2 time slots for Max power, based on the output power measurements above.

GSM 1900										
Hotspot on		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power (dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512/1850.2	661/1880	810/1909.8		MAX	512/1850.2	661/1880	810/1909.8
GSM	CS	30.80	29.78	29.58	29.55	9.03	21.77	20.75	20.55	20.52
GPRS/EGPRS (GMSK)	1 Tx Slot	30.80	29.75	29.57	29.50	9.03	21.77	20.72	20.54	20.47
	2 Tx Slots	28.00	27.00	26.78	26.78	6.02	21.98	20.98	20.76	20.76
	3 Tx Slots	26.20	25.17	25.02	24.98	4.26	21.94	20.91	20.76	20.72
	4 Tx Slots	24.80	23.76	23.58	23.55	3.01	21.79	20.75	20.57	20.54
EGPRS (8PSK)	1 Tx Slot	26.50	24.97	24.95	24.67	9.03	17.47	15.94	15.92	15.64
	2 Tx Slots	23.30	22.15	21.95	21.68	6.02	17.28	16.13	15.93	15.66
	3 Tx Slots	21.30	19.93	19.72	20.25	4.26	17.04	15.67	15.46	15.99
	4 Tx Slots	19.50	18.43	18.38	18.23	3.01	16.49	15.42	15.37	15.22

Notes: The worst-case configuration and mode for SAR testing is determined to be as follows:

Standalone: GSM 1900 GMSK (GPRS) mode with 2 time slots for Max power, based on the output power measurements above.



Div – Antenna

GSM 1900										
Body SAR		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power (dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512/1850.2	661/1880	810/1909.8		MAX	512/1850.2	661/1880	810/1909.8
GSM	CS	30.60	29.42	29.20	29.19	9.03	21.57	20.39	20.17	20.16
GPRS/EGPRS (GMSK)	1 Tx Slot	30.60	29.72	29.53	29.49	9.03	21.57	20.69	20.50	20.46
	2 Tx Slots	28.00	26.93	26.74	26.73	6.02	21.98	20.91	20.72	20.71
	3 Tx Slots	26.20	25.10	24.96	24.91	4.26	21.94	20.84	20.70	20.65
	4 Tx Slots	24.80	23.71	23.55	23.55	3.01	21.79	20.70	20.54	20.54
EGPRS (8PSK)	1 Tx Slot	27.00	25.10	25.06	25.03	9.03	17.97	16.07	16.03	16.00
	2 Tx Slots	23.80	22.02	22.05	21.91	6.02	17.78	16.00	16.03	15.89
	3 Tx Slots	21.80	20.31	19.95	20.01	4.26	17.54	16.05	15.69	15.75
	4 Tx Slots	20.00	18.14	18.29	18.06	3.01	16.99	15.13	15.28	15.05

Notes: The worst-case configuration and mode for SAR testing is determined to be as follows:

Standalone: GSM 1900 GMSK (GPRS) mode with 2 time slots for Max power, based on the output power measurements above.

GSM 1900										
Receiver on		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power (dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512/1850.2	661/1880	810/1909.8		MAX	512/1850.2	661/1880	810/1909.8
GSM	CS	29.20	28.33	28.20	28.11	9.03	20.17	19.30	19.17	19.08
GPRS/EGPRS (GMSK)	1 Tx Slot	29.20	28.35	28.20	28.18	9.03	20.17	19.32	19.17	19.15
	2 Tx Slots	26.60	25.37	25.23	25.22	6.02	20.58	19.35	19.21	19.20
	3 Tx Slots	24.80	23.41	23.27	23.27	4.26	20.54	19.15	19.01	19.01
	4 Tx Slots	23.40	22.21	22.08	22.10	3.01	20.39	19.20	19.07	19.09
EGPRS (8PSK)	1 Tx Slot	25.60	23.70	23.65	23.82	9.03	16.57	14.67	14.62	14.79
	2 Tx Slots	22.40	20.46	20.47	20.62	6.02	16.38	14.44	14.45	14.60
	3 Tx Slots	20.40	18.51	18.55	18.43	4.26	16.14	14.25	14.29	14.17
	4 Tx Slots	18.60	16.68	16.85	16.62	3.01	15.59	13.67	13.84	13.61

Notes: The worst-case configuration and mode for SAR testing is determined to be as follows:

Standalone: GSM 1900 GMSK (GPRS) mode with 2 time slots for Max power, based on the output power measurements above.

GSM 1900										
Hotspot on		Burst-Averaged Output Power(dBm)				Division Factors	Frame-Averaged Output Power (dBm)			
		Tune-up	Channel/Frequency(MHz)				Tune-up	Channel/Frenqucy(MHz)		
		MAX	512/1850.2	661/1880	810/1909.8		MAX	512/1850.2	661/1880	810/1909.8
GSM	CS	27.80	27.17	27.00	26.96	9.03	18.77	18.14	17.97	17.93
GPRS/EGPRS (GMSK)	1 Tx Slot	27.80	27.17	27.00	26.95	9.03	18.77	18.14	17.97	17.92
	2 Tx Slots	25.20	24.08	23.93	23.90	6.02	19.18	18.06	17.91	17.88
	3 Tx Slots	23.40	22.15	22.04	22.00	4.26	19.14	17.89	17.78	17.74



	4 Tx Slots	22.00	20.98	20.90	20.87	3.01	18.99	17.97	17.89	17.86
EGPRS (8PSK)	1 Tx Slot	24.20	22.30	22.52	22.39	9.03	15.17	13.27	13.49	13.36
	2 Tx Slots	21.00	19.46	19.47	19.18	6.02	14.98	13.44	13.45	13.16
	3 Tx Slots	19.00	17.21	17.11	17.39	4.26	14.74	12.95	12.85	13.13
	4 Tx Slots	17.20	15.27	15.34	15.38	3.01	14.19	12.26	12.33	12.37

Notes: The worst-case configuration and mode for SAR testing is determined to be as follows:

Standalone: GSM 1900 GMSK (GPRS) mode with 2 time slots for Max power, based on the output power measurements above.

9.2 WCDMA Mode

The following tests were completed according to the test requirements outlined in the 3GPP TS34.121 specification.

Main- Antenna

WCDMA Band II					
Receiver on		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		9262/1852.4	9400/1880	9538/1907.6	
RMC	12.2k	23.30	23.28	23.38	24.30
AMR	12.2k	22.93	22.91	22.91	24.30
HSDPA	Subtest 1	21.90	21.89	21.94	23.30
	Subtest 2	21.86	21.92	21.94	23.30
	Subtest 3	21.37	21.41	21.43	22.80
	Subtest 4	21.38	21.39	21.38	22.80
HSUPA	Subtest 1	20.38	20.40	19.95	21.30
	Subtest 2	19.88	19.95	19.97	21.30
	Subtest 3	20.89	20.91	20.91	22.30
	Subtest 4	19.37	19.40	19.42	20.80
	Subtest 5	20.85	20.92	20.89	22.30
DC-HSDPA	Subtest 1	21.96	22.12	22.14	23.30
	Subtest 2	22.00	22.10	22.30	23.30
	Subtest 3	21.86	21.78	21.88	22.80
	Subtest 4	21.74	21.98	22.04	22.80
HSPA+	16QAM	20.68	20.62	20.54	21.10

Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA Band II					
Body SAR & Hotspot on		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		9262/1852.4	9400/1880	9538/1907.6	
RMC	12.2k	21.86	21.79	21.95	22.90
AMR	12.2k	22.02	21.95	22.03	22.90
HSDPA	Subtest 1	20.66	20.73	20.67	21.90
	Subtest 2	20.76	20.51	20.75	21.90
	Subtest 3	20.00	20.03	20.21	21.40
	Subtest 4	20.22	20.05	20.19	21.40
HSUPA	Subtest 1	18.53	19.02	19.08	19.90
	Subtest 2	18.53	18.57	18.60	19.90
	Subtest 3	19.52	19.54	19.56	20.90
	Subtest 4	18.04	18.02	18.08	19.40



	Subtest 5	19.49	19.55	19.60	20.90
DC-HSDPA	Subtest 1	20.74	20.57	20.75	21.90
	Subtest 2	20.70	20.75	20.75	21.90
	Subtest 3	20.12	20.21	20.39	21.40
	Subtest 4	20.44	20.53	20.49	21.40
HSPA+	16QAM	19.16	18.95	19.19	19.70
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band IV					
Receiver on		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		1312/1712.4	1413/1732.6	1513/1752.6	
RMC	12.2k	23.47	23.43	23.21	24.50
AMR	12.2k	23.31	23.27	23.09	24.50
HSDPA	Subtest 1	22.33	22.23	22.05	23.50
	Subtest 2	22.31	22.23	21.91	23.50
	Subtest 3	21.85	21.85	21.61	23.00
	Subtest 4	21.61	21.71	21.31	23.00
HSUPA	Subtest 1	20.57	20.29	20.35	21.50
	Subtest 2	19.81	19.85	19.71	21.50
	Subtest 3	21.01	20.97	21.01	22.50
	Subtest 4	19.81	19.79	19.55	21.00
	Subtest 5	21.27	21.15	20.79	22.50
DC-HSDPA	Subtest 1	22.19	22.27	21.85	23.50
	Subtest 2	22.41	22.29	21.99	23.50
	Subtest 3	21.93	21.69	21.47	23.00
	Subtest 4	21.91	21.97	21.69	23.00
HSPA+	16QAM	20.86	20.68	20.68	21.30
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band IV					
Body SAR		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		1312/1712.4	1413/1732.6	1513/1752.6	
RMC	12.2k	21.73	21.65	21.60	22.60
AMR	12.2k	21.79	21.59	21.70	22.60
HSDPA	Subtest 1	20.65	20.43	20.38	21.60
	Subtest 2	20.53	20.35	20.30	21.60
	Subtest 3	19.93	20.05	19.94	21.10
	Subtest 4	19.97	19.85	19.92	21.10
HSUPA	Subtest 1	18.73	18.53	18.44	19.60



	Subtest 2	18.13	18.31	18.08	19.60
	Subtest 3	19.37	19.33	19.32	20.60
	Subtest 4	18.07	17.75	17.80	19.10
	Subtest 5	19.33	19.43	19.16	20.60
DC-HSDPA	Subtest 1	20.41	20.51	20.28	21.60
	Subtest 2	20.57	20.33	20.48	21.60
	Subtest 3	20.07	20.17	20.08	21.10
	Subtest 4	20.21	20.39	20.34	21.10
HSPA+	16QAM	19.01	18.95	18.86	19.40
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band IV					
Hotspot on		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		1312/1712.4	1413/1732.6	1513/1752.6	
RMC	12.2k	21.32	21.22	20.93	22.40
AMR	12.2k	21.18	21.32	21.01	22.40
HSDPA	Subtest 1	20.22	20.12	19.67	21.40
	Subtest 2	20.06	20.04	19.73	21.40
	Subtest 3	19.62	19.66	19.21	20.90
	Subtest 4	19.46	19.38	18.99	20.90
HSUPA	Subtest 1	18.22	18.18	17.93	19.40
	Subtest 2	17.78	17.66	17.72	19.40
	Subtest 3	19.00	18.86	18.63	20.40
	Subtest 4	17.46	17.52	17.05	18.90
	Subtest 5	18.98	18.78	18.61	20.40
DC-HSDPA	Subtest 1	20.06	20.14	19.77	21.40
	Subtest 2	20.02	19.92	19.85	21.40
	Subtest 3	19.80	19.72	19.41	20.90
	Subtest 4	19.78	19.86	19.49	20.90
HSPA+	16QAM	18.69	18.51	18.46	19.20
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

WCDMA Band V					
Receiver on & Body SAR & Hotspot on		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		4132/826.4	4183/836.6	4233/846.6	
RMC	12.2k	23.84	23.82	23.81	25.30
AMR	12.2k	23.80	23.72	23.97	25.30
HSDPA	Subtest 1	22.90	22.79	22.67	24.30
	Subtest 2	22.77	22.61	22.63	24.30



	Subtest 3	22.23	22.15	22.05	23.80
	Subtest 4	22.32	22.14	22.08	23.80
HSUPA	Subtest 1	21.36	21.35	20.76	22.30
	Subtest 2	20.89	20.88	20.78	22.30
	Subtest 3	21.85	21.87	21.75	23.30
	Subtest 4	20.38	20.40	20.26	21.80
	Subtest 5	21.85	21.85	21.75	23.30
DC-HSDPA	Subtest 1	22.82	22.62	22.83	24.30
	Subtest 2	22.84	22.66	22.73	24.30
	Subtest 3	22.40	22.38	22.09	23.80
	Subtest 4	22.30	22.30	22.17	23.80
HSPA+	16QAM	21.66	21.60	21.63	22.10
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					



Div – Antenna

WCDMA Band II					
Body SAR		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		9262/1852.4	9400/1880	9538/1907.6	
RMC	12.2k	21.05	20.97	21.12	22.10
AMR	12.2k	20.70	20.86	20.71	22.10
HSDPA	Subtest 1	19.69	19.71	19.63	21.10
	Subtest 2	19.68	19.72	19.58	21.10
	Subtest 3	19.25	19.23	19.11	20.60
	Subtest 4	19.22	19.23	19.09	20.60
HSUPA	Subtest 1	17.75	18.19	18.10	19.10
	Subtest 2	17.75	17.78	17.67	19.10
	Subtest 3	18.69	18.72	18.59	20.10
	Subtest 4	17.26	17.29	17.16	18.60
	Subtest 5	18.65	18.70	18.59	20.10
DC-HSDPA	Subtest 1	20.05	19.81	19.86	21.10
	Subtest 2	19.77	19.79	20.02	21.10
	Subtest 3	19.39	19.33	19.70	20.60
	Subtest 4	19.43	19.21	19.62	20.60
HSPA+	16QAM	18.16	18.14	18.39	18.90

Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA Band II					
Receiver on		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		9262/1852.4	9400/1880	9538/1907.6	
RMC	12.2k	18.50	18.36	18.65	19.60
AMR	12.2k	18.40	18.34	18.67	19.60
HSDPA	Subtest 1	17.34	17.26	17.37	18.60
	Subtest 2	17.24	17.34	17.55	18.60
	Subtest 3	16.78	16.78	16.93	18.10
	Subtest 4	16.86	16.58	16.93	18.10
HSUPA	Subtest 1	15.59	15.55	15.80	16.60
	Subtest 2	15.27	15.05	15.46	16.60
	Subtest 3	16.29	16.07	16.54	17.60
	Subtest 4	14.69	14.55	14.98	16.10
	Subtest 5	16.28	15.94	16.31	17.60
DC-HSDPA	Subtest 1	17.38	17.22	17.49	18.60
	Subtest 2	17.22	17.10	17.35	18.60
	Subtest 3	17.00	16.72	17.05	18.10
	Subtest 4	17.00	16.74	17.03	18.10



HSPA+	16QAM	15.72	15.70	15.89	16.40
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Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA Band II					
Hotspot on		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		9262/1852.4	9400/1880	9538/1907.6	
RMC	12.2k	16.42	16.43	16.50	17.50
AMR	12.2k	16.50	16.33	16.60	17.50
HSDPA	Subtest 1	15.22	15.39	15.44	16.50
	Subtest 2	15.22	15.27	15.46	16.50
	Subtest 3	14.74	14.83	14.80	16.00
	Subtest 4	14.76	14.73	14.82	16.00
HSUPA	Subtest 1	13.63	13.62	13.67	14.50
	Subtest 2	13.11	13.40	13.49	14.50
	Subtest 3	14.35	14.40	14.37	15.50
	Subtest 4	12.61	12.64	12.97	14.00
	Subtest 5	14.00	13.99	14.26	15.50
DC-HSDPA	Subtest 1	15.26	15.19	15.48	16.50
	Subtest 2	15.22	15.23	15.40	16.50
	Subtest 3	14.96	14.79	15.04	16.00
	Subtest 4	14.72	14.77	14.76	16.00
HSPA+	16QAM	13.67	13.72	13.59	14.30

Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA Band IV					
Body SAR		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		1312/1712.4	1413/1732.6	1513/1752.6	
RMC	12.2k	20.30	20.43	20.32	21.20
AMR	12.2k	20.30	20.55	20.16	21.20
HSDPA	Subtest 1	19.24	19.39	19.02	20.20
	Subtest 2	19.26	19.29	19.10	20.20
	Subtest 3	18.70	18.79	18.72	19.70
	Subtest 4	18.80	18.67	18.78	19.70
HSUPA	Subtest 1	17.29	17.60	17.29	18.20
	Subtest 2	17.29	17.36	17.11	18.20
	Subtest 3	18.01	18.40	17.99	19.20
	Subtest 4	16.57	16.80	16.61	17.70
	Subtest 5	17.90	18.07	17.98	19.20
DC-HSDPA	Subtest 1	19.10	19.11	19.12	20.20



	Subtest 2	19.20	19.11	19.02	20.20
	Subtest 3	18.58	18.95	18.88	19.70
	Subtest 4	18.60	18.69	18.86	19.70
HSPA+	16QAM	17.47	17.58	17.45	18.00

Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA Band IV					
Receiver on		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		1312/1712.4	1413/1732.6	1513/1752.6	
RMC	12.2k	17.77	17.90	17.89	18.70
AMR	12.2k	17.61	18.06	17.73	18.70
HSDPA	Subtest 1	16.61	16.74	16.67	17.70
	Subtest 2	16.51	16.80	16.59	17.70
	Subtest 3	16.27	16.22	16.23	17.20
	Subtest 4	16.27	16.40	16.11	17.20
HSUPA	Subtest 1	14.82	15.15	15.02	15.70
	Subtest 2	14.64	14.77	14.66	15.70
	Subtest 3	15.64	15.85	15.84	16.70
	Subtest 4	14.16	14.21	14.32	15.20
	Subtest 5	15.39	15.58	15.77	16.70
DC-HSDPA	Subtest 1	16.57	16.70	16.65	17.70
	Subtest 2	16.55	16.64	16.61	17.70
	Subtest 3	16.33	16.44	16.19	17.20
	Subtest 4	16.31	16.32	16.35	17.20
HSPA+	16QAM	15.04	15.05	15.16	15.50

Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

WCDMA Band IV					
Hotspot on		Maximum Output Power (dBm)			
		Channel/Frequency(MHz)			Tune-up
		1312/1712.4	1413/1732.6	1513/1752.6	
RMC	12.2k	15.55	15.73	15.59	16.50
AMR	12.2k	15.67	15.67	15.65	16.50
HSDPA	Subtest 1	14.49	14.67	14.31	15.50
	Subtest 2	14.43	14.59	14.41	15.50
	Subtest 3	13.85	14.25	13.97	15.00
	Subtest 4	13.99	14.27	13.97	15.00
HSUPA	Subtest 1	12.72	12.78	12.84	13.50
	Subtest 2	12.30	12.66	12.52	13.50
	Subtest 3	13.28	13.54	13.58	14.50



	Subtest 4	11.96	12.16	12.08	13.00
	Subtest 5	13.29	13.31	13.17	14.50
DC-HSDPA	Subtest 1	14.29	14.59	14.35	15.50
	Subtest 2	14.43	14.69	14.59	15.50
	Subtest 3	14.09	14.03	14.01	15.00
	Subtest 4	13.83	14.11	13.85	15.00
HSPA+	16QAM	12.86	13.04	12.68	13.30
Note: Per KDB 941225 D01, SAR for each exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".					

9.3 LTE Mode

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 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

Main- Antenna

LTE Band 2							
Receiver on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	22.72	22.73	22.68	24.30
		1	2	22.96	22.90	22.76	24.30
		1	5	22.62	22.61	22.52	24.30
		3	0	22.77	22.82	22.67	24.30
		3	2	22.75	22.81	22.72	24.30
		3	3	22.82	22.60	22.41	24.30
		6	0	21.84	21.79	21.60	23.30
	16QAM	1	0	21.96	22.12	21.96	23.30
		1	2	22.20	22.24	22.09	23.30
		1	5	21.87	21.86	21.90	23.30
		3	0	21.79	21.81	21.62	23.30
		3	2	21.80	21.80	21.70	23.30
		3	3	21.79	21.61	21.37	23.30
		6	0	20.83	20.78	20.58	22.30
	64QAM	1	0	20.83	20.99	20.82	22.30
		1	2	21.15	21.18	20.96	22.30
		1	5	20.90	20.83	20.68	22.30
		3	0	20.79	20.82	20.68	22.30
		3	2	20.81	20.82	20.74	22.30
		3	3	20.86	20.63	20.37	22.30
		6	0	19.83	19.81	19.62	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	22.74	22.77	22.71	24.30



		1	7	22.94	22.93	22.80	24.30
		1	14	22.65	22.66	22.56	24.30
		8	0	21.87	21.94	21.80	23.30
		8	4	21.87	21.91	21.84	23.30
		8	7	21.92	21.71	21.51	23.30
		15	0	21.84	21.83	21.63	23.30
		15	0	21.84	21.83	21.63	23.30
	16QAM	1	0	21.96	22.14	21.99	23.30
		1	7	22.20	22.24	22.13	23.30
		1	14	21.89	21.90	21.93	23.30
		8	0	20.90	20.94	20.74	22.30
		8	4	20.91	20.93	20.82	22.30
		8	7	20.89	20.73	20.50	22.30
		15	0	20.86	20.82	20.61	22.30
	64QAM	1	0	20.86	21.01	20.85	22.30
		1	7	21.18	21.18	20.98	22.30
		1	14	20.92	20.82	20.71	22.30
		8	0	19.90	19.95	19.80	21.30
		8	4	19.92	19.95	19.86	21.30
		8	7	19.96	19.75	19.50	21.30
		15	0	19.86	19.85	19.65	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	22.71	22.75	22.67	24.30
		1	13	22.92	22.89	22.77	24.30
		1	24	22.62	22.61	22.52	24.30
		12	0	21.84	21.89	21.76	23.30
		12	6	21.85	21.87	21.79	23.30
		12	13	21.90	21.69	21.47	23.30
		25	0	21.84	21.82	21.61	23.30
	16QAM	1	0	21.96	22.10	21.96	23.30
		1	13	22.20	22.22	22.10	23.30
		1	24	21.86	21.88	21.89	23.30
		12	0	20.88	20.90	20.71	22.30
		12	6	20.88	20.88	20.78	22.30
		12	13	20.86	20.68	20.46	22.30
		25	0	20.84	20.78	20.56	22.30
	64QAM	1	0	20.83	21.01	20.82	22.30
		1	13	21.15	21.20	20.95	22.30
		1	24	20.93	20.80	20.67	22.30
		12	0	19.88	19.91	19.81	21.30
		12	6	19.89	19.90	19.82	21.30
		12	13	19.93	19.70	19.46	21.30
		25	0	19.84	19.81	19.60	21.30



Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	22.73	22.76	22.70	24.30
		1	25	22.95	22.94	22.81	24.30
		1	49	22.64	22.65	22.55	24.30
		25	0	21.87	21.94	21.80	23.30
		25	13	21.88	21.92	21.83	23.30
		25	25	21.92	21.73	21.52	23.30
		50	0	21.88	21.84	21.65	23.30
	16QAM	1	0	22.00	22.13	21.98	23.30
		1	25	22.24	22.26	22.13	23.30
		1	49	21.89	21.90	21.92	23.30
		25	0	20.91	20.95	20.75	22.30
		25	13	20.90	20.92	20.81	22.30
		25	25	20.89	20.73	20.50	22.30
		50	0	20.87	20.83	20.60	22.30
	64QAM	1	0	20.85	21.00	20.84	22.30
		1	25	21.18	21.20	20.98	22.30
		1	49	20.92	20.82	20.70	22.30
		25	0	19.91	19.96	19.81	21.30
		25	13	19.91	19.94	19.85	21.30
		25	25	19.96	19.75	19.50	21.30
		50	0	19.87	19.86	19.64	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	22.72	22.72	22.68	24.30
		1	38	22.93	22.93	22.78	24.30
		1	74	22.61	22.60	22.51	24.30
		36	0	21.85	21.90	21.77	23.30
		36	18	21.85	21.87	21.79	23.30
		36	39	21.89	21.70	21.48	23.30
		75	0	21.86	21.80	21.60	23.30
	16QAM	1	0	21.98	22.11	21.96	23.30
		1	38	22.22	22.23	22.11	23.30
		1	74	21.87	21.86	21.89	23.30
		36	0	20.88	20.93	20.72	22.30
		36	18	20.87	20.87	20.77	22.30
		36	39	20.87	20.69	20.47	22.30
		75	0	20.84	20.78	20.56	22.30
	64QAM	1	0	20.80	20.98	20.82	22.30
		1	38	21.16	21.17	20.96	22.30
		1	74	20.93	20.81	20.71	22.30
		36	0	19.90	19.98	19.82	21.30



		36	18	19.89	19.91	19.84	21.30
		36	39	19.94	19.71	19.47	21.30
		75	0	19.84	19.81	19.60	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	22.69	22.68	22.65	24.30
		1	50	22.92	22.89	22.76	24.30
		1	99	22.59	22.59	22.48	24.30
		50	0	21.82	21.85	21.73	23.30
		50	25	21.83	21.83	21.76	23.30
		50	50	21.86	21.65	21.44	23.30
		100	0	21.83	21.75	21.56	23.30
	16QAM	1	0	21.95	22.07	21.91	23.30
		1	50	22.19	22.21	22.07	23.30
		1	99	21.84	21.83	21.87	23.30
		50	0	20.85	20.89	20.69	22.30
		50	25	20.84	20.85	20.74	22.30
		50	50	20.84	20.64	20.43	22.30
		100	0	20.82	20.74	20.53	22.30
	64QAM	1	0	20.78	20.94	20.77	22.30
		1	50	21.12	21.15	20.92	22.30
		1	99	20.87	20.75	20.65	22.30
		50	0	19.85	19.90	19.75	21.30
		50	25	19.85	19.87	19.78	21.30
		50	50	19.91	19.66	19.43	21.30
		100	0	19.82	19.77	19.57	21.30

LTE Band 2							
Body SAR & Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	21.95	21.94	21.82	23.60
		1	2	22.17	22.12	21.97	23.60
		1	5	21.84	21.77	21.75	23.60
		3	0	22.77	22.91	22.72	23.60
		3	2	22.77	22.87	22.79	23.60
		3	3	22.85	22.62	22.45	23.60
		6	0	21.83	21.87	21.64	23.30
	16QAM	1	0	22.06	22.15	22.02	23.30
		1	2	22.25	22.32	22.15	23.30
		1	5	21.94	21.94	21.86	23.30
		3	0	21.79	21.86	21.70	23.30
		3	2	21.85	21.84	21.77	23.30



		3	3	21.84	21.65	21.43	23.30
		6	0	20.88	20.82	20.65	22.30
	64QAM	1	0	20.94	20.99	20.98	22.30
		1	2	21.08	21.27	21.16	22.30
		1	5	20.84	20.92	20.88	22.30
		3	0	20.84	20.83	20.73	22.30
		3	2	20.90	20.88	20.78	22.30
		3	3	20.88	20.69	20.47	22.30
		6	0	19.88	19.86	19.67	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	21.97	21.98	21.85	23.60
		1	7	22.15	22.15	22.01	23.60
		1	14	21.87	21.82	21.79	23.60
		8	0	21.87	22.03	21.85	23.30
		8	4	21.89	21.97	21.91	23.30
		8	7	21.95	21.73	21.55	23.30
		15	0	21.83	21.91	21.67	23.30
	16QAM	1	0	22.06	22.17	22.05	23.30
		1	7	22.25	22.32	22.19	23.30
		1	14	21.96	21.98	21.89	23.30
		8	0	20.90	20.99	20.82	22.30
		8	4	20.96	20.97	20.89	22.30
		8	7	20.94	20.77	20.56	22.30
		15	0	20.91	20.86	20.68	22.30
	64QAM	1	0	20.97	21.01	21.01	22.30
		1	7	21.11	21.27	21.18	22.30
		1	14	20.86	20.91	20.91	22.30
		8	0	19.95	19.96	19.85	21.30
		8	4	20.01	20.01	19.90	21.30
		8	7	19.98	19.81	19.60	21.30
		15	0	19.91	19.90	19.70	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	21.94	21.96	21.81	23.60
		1	13	22.13	22.11	21.98	23.60
		1	24	21.84	21.77	21.75	23.60
		12	0	21.84	21.98	21.81	23.30
		12	6	21.87	21.93	21.86	23.30
		12	13	21.93	21.71	21.51	23.30
		25	0	21.83	21.90	21.65	23.30
	16QAM	1	0	22.06	22.13	22.02	23.30
		1	13	22.25	22.30	22.16	23.30



		1	24	21.93	21.96	21.85	23.30
		12	0	20.88	20.95	20.79	22.30
		12	6	20.93	20.92	20.85	22.30
		12	13	20.91	20.72	20.52	22.30
		25	0	20.89	20.82	20.63	22.30
	64QAM	1	0	20.94	21.01	20.98	22.30
		1	13	21.08	21.29	21.15	22.30
		1	24	20.87	20.89	20.87	22.30
		12	0	19.93	19.92	19.86	21.30
		12	6	19.98	19.96	19.86	21.30
		12	13	19.95	19.76	19.56	21.30
		25	0	19.89	19.86	19.65	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	21.96	21.97	21.84	23.60
		1	25	22.16	22.16	22.02	23.60
		1	49	21.86	21.81	21.78	23.60
		25	0	21.87	22.03	21.85	23.30
		25	13	21.90	21.98	21.90	23.30
		25	25	21.95	21.75	21.56	23.30
		50	0	21.87	21.92	21.69	23.30
	16QAM	1	0	22.10	22.16	22.04	23.30
		1	25	22.29	22.34	22.19	23.30
		1	49	21.96	21.98	21.88	23.30
		25	0	20.91	21.00	20.83	22.30
		25	13	20.95	20.96	20.88	22.30
		25	25	20.94	20.77	20.56	22.30
		50	0	20.92	20.87	20.67	22.30
	64QAM	1	0	20.96	21.00	21.00	22.30
		1	25	21.11	21.29	21.18	22.30
		1	49	20.86	20.91	20.90	22.30
		25	0	19.96	19.97	19.86	21.30
		25	13	20.00	20.00	19.89	21.30
		25	25	19.98	19.81	19.60	21.30
		50	0	19.92	19.91	19.69	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	21.95	21.93	21.82	23.60
		1	38	22.14	22.15	21.99	23.60
		1	74	21.83	21.76	21.74	23.60
		36	0	21.85	21.99	21.82	23.30
		36	18	21.87	21.93	21.86	23.30
		36	39	21.92	21.72	21.52	23.30



	16QAM	75	0	21.85	21.88	21.64	23.30
		1	0	22.08	22.14	22.02	23.30
		1	38	22.27	22.31	22.17	23.30
		1	74	21.94	21.94	21.85	23.30
		36	0	20.88	20.98	20.80	22.30
		36	18	20.92	20.91	20.84	22.30
		36	39	20.92	20.73	20.53	22.30
		75	0	20.89	20.82	20.63	22.30
	64QAM	1	0	20.91	20.98	20.98	22.30
		1	38	21.09	21.26	21.16	22.30
		1	74	20.87	20.90	20.91	22.30
		36	0	19.95	19.99	19.87	21.30
		36	18	19.98	19.97	19.88	21.30
		36	39	19.96	19.77	19.57	21.30
		75	0	19.89	19.86	19.65	21.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	21.92	21.89	21.79	23.60
		1	50	22.13	22.11	21.97	23.60
		1	99	21.81	21.75	21.71	23.60
		50	0	21.82	21.94	21.78	23.30
		50	25	21.85	21.89	21.83	23.30
		50	50	21.89	21.67	21.48	23.30
		100	0	21.82	21.83	21.60	23.30
	16QAM	1	0	22.05	22.10	21.97	23.30
		1	50	22.24	22.29	22.13	23.30
		1	99	21.91	21.91	21.83	23.30
		50	0	20.85	20.94	20.77	22.30
		50	25	20.89	20.89	20.81	22.30
		50	50	20.89	20.68	20.49	22.30
		100	0	20.87	20.78	20.60	22.30
	64QAM	1	0	20.89	20.94	20.93	22.30
		1	50	21.05	21.24	21.12	22.30
		1	99	20.81	20.84	20.85	22.30
		50	0	19.90	19.91	19.80	21.30
		50	25	19.94	19.93	19.82	21.30
		50	50	19.93	19.72	19.53	21.30
		100	0	19.87	19.82	19.62	21.30



LTE Band 4							
Receiver on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	22.64	22.62	22.71	23.70
		1	2	22.66	22.68	22.85	23.70
		1	5	22.51	22.55	22.66	23.70
		3	0	22.57	22.62	22.75	23.70
		3	2	22.52	22.67	22.84	23.70
		3	3	22.51	22.66	22.84	23.70
		6	0	21.61	21.70	21.87	22.70
	16QAM	1	0	21.84	21.81	21.94	22.70
		1	2	21.90	21.88	22.07	22.70
		1	5	21.72	21.80	21.80	22.70
		3	0	21.58	21.63	21.77	22.70
		3	2	21.60	21.68	21.81	22.70
		3	3	21.55	21.71	21.77	22.70
		6	0	20.66	20.71	20.86	21.70
	64QAM	1	0	20.80	20.89	20.95	21.70
		1	2	20.77	20.80	21.11	21.70
		1	5	20.61	20.79	20.79	21.70
		3	0	20.60	20.61	20.73	21.70
		3	2	20.56	20.66	20.81	21.70
		3	3	20.51	20.68	20.78	21.70
		6	0	19.63	19.72	19.88	20.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	22.66	22.66	22.74	23.70
		1	7	22.64	22.71	22.89	23.70
		1	14	22.54	22.60	22.70	23.70
		8	0	21.67	21.74	21.88	22.70
		8	4	21.64	21.77	21.96	22.70
		8	7	21.61	21.77	21.94	22.70
		15	0	21.61	21.74	21.90	22.70
	16QAM	1	0	21.84	21.83	21.97	22.70
		1	7	21.90	21.88	22.11	22.70
		1	14	21.74	21.84	21.83	22.70
		8	0	20.69	20.76	20.89	21.70
		8	4	20.71	20.81	20.93	21.70
		8	7	20.65	20.83	20.90	21.70
		15	0	20.69	20.75	20.89	21.70
	64QAM	1	0	20.83	20.91	20.98	21.70
1		7	20.80	20.80	21.13	21.70	



		1	14	20.63	20.78	20.82	21.70
		8	0	19.71	19.74	19.85	20.70
		8	4	19.67	19.79	19.93	20.70
		8	7	19.61	19.80	19.91	20.70
		15	0	19.66	19.76	19.91	20.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	22.63	22.64	22.70	23.70
		1	13	22.62	22.67	22.86	23.70
		1	24	22.51	22.55	22.66	23.70
		12	0	21.64	21.69	21.84	22.70
		12	6	21.62	21.73	21.91	22.70
		12	13	21.59	21.75	21.90	22.70
		25	0	21.61	21.73	21.88	22.70
	16QAM	1	0	21.84	21.79	21.94	22.70
		1	13	21.90	21.86	22.08	22.70
		1	24	21.71	21.82	21.79	22.70
		12	0	20.67	20.72	20.86	21.70
		12	6	20.68	20.76	20.89	21.70
		12	13	20.62	20.78	20.86	21.70
		25	0	20.67	20.71	20.84	21.70
	64QAM	1	0	20.80	20.91	20.95	21.70
		1	13	20.77	20.82	21.10	21.70
		1	24	20.64	20.76	20.78	21.70
		12	0	19.69	19.70	19.86	20.70
		12	6	19.64	19.74	19.89	20.70
		12	13	19.58	19.75	19.87	20.70
		25	0	19.64	19.72	19.86	20.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	22.65	22.65	22.73	23.70
		1	25	22.65	22.72	22.90	23.70
		1	49	22.53	22.59	22.69	23.70
		25	0	21.67	21.74	21.88	22.70
		25	13	21.65	21.78	21.95	22.70
		25	25	21.61	21.79	21.95	22.70
		50	0	21.65	21.75	21.92	22.70
	16QAM	1	0	21.88	21.82	21.96	22.70
		1	25	21.94	21.90	22.11	22.70
		1	49	21.74	21.84	21.82	22.70
		25	0	20.70	20.77	20.90	21.70
		25	13	20.70	20.80	20.92	21.70
		25	25	20.65	20.83	20.90	21.70



	64QAM	50	0	20.70	20.76	20.88	21.70
		1	0	20.82	20.90	20.97	21.70
		1	25	20.80	20.82	21.13	21.70
		1	49	20.63	20.78	20.81	21.70
		25	0	19.72	19.75	19.86	20.70
		25	13	19.66	19.78	19.92	20.70
		25	25	19.61	19.80	19.91	20.70
		50	0	19.67	19.77	19.90	20.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	22.64	22.61	22.71	23.70
		1	38	22.63	22.71	22.87	23.70
		1	74	22.50	22.54	22.65	23.70
		36	0	21.65	21.70	21.85	22.70
		36	18	21.62	21.73	21.91	22.70
		36	39	21.58	21.76	21.91	22.70
		75	0	21.63	21.71	21.87	22.70
	16QAM	1	0	21.86	21.80	21.94	22.70
		1	38	21.92	21.87	22.09	22.70
		1	74	21.72	21.80	21.79	22.70
		36	0	20.67	20.75	20.87	21.70
		36	18	20.67	20.75	20.88	21.70
		36	39	20.63	20.79	20.87	21.70
		75	0	20.67	20.71	20.84	21.70
	64QAM	1	0	20.77	20.88	20.95	21.70
		1	38	20.78	20.79	21.11	21.70
		1	74	20.64	20.77	20.82	21.70
		36	0	19.71	19.77	19.87	20.70
		36	18	19.64	19.75	19.91	20.70
		36	39	19.59	19.76	19.88	20.70
		75	0	19.64	19.72	19.86	20.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	22.61	22.57	22.68	23.70
		1	50	22.62	22.67	22.85	23.70
		1	99	22.48	22.53	22.62	23.70
		50	0	21.62	21.65	21.81	22.70
		50	25	21.60	21.69	21.88	22.70
		50	50	21.55	21.71	21.87	22.70
		100	0	21.60	21.66	21.83	22.70
	16QAM	1	0	21.83	21.76	21.89	22.70
		1	50	21.89	21.85	22.05	22.70
		1	99	21.69	21.77	21.77	22.70



		50	0	20.64	20.71	20.84	21.70
		50	25	20.64	20.73	20.85	21.70
		50	50	20.60	20.74	20.83	21.70
		100	0	20.65	20.67	20.81	21.70
	64QAM	1	0	20.75	20.84	20.90	21.70
		1	50	20.74	20.77	21.07	21.70
		1	99	20.58	20.71	20.76	21.70
		50	0	19.66	19.69	19.80	20.70
		50	25	19.60	19.71	19.85	20.70
		50	50	19.56	19.71	19.84	20.70
		100	0	19.62	19.68	19.83	20.70

LTE Band 4							
Body SAR & Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	21.58	21.52	21.65	22.60
		1	2	21.57	21.57	21.79	22.60
		1	5	21.44	21.49	21.64	22.60
		3	0	21.57	21.61	21.70	22.60
		3	2	21.52	21.63	21.82	22.60
		3	3	21.52	21.62	21.82	22.60
		6	0	21.53	21.63	21.78	22.60
	16QAM	1	0	21.84	21.82	21.86	22.60
		1	2	21.85	21.91	22.00	22.60
		1	5	21.68	21.77	21.81	22.60
		3	0	21.66	21.68	21.83	22.60
		3	2	21.68	21.73	21.86	22.60
		3	3	21.60	21.74	21.85	22.60
		6	0	20.73	20.77	20.90	21.70
	64QAM	1	0	20.92	20.82	20.88	21.70
		1	2	20.86	20.85	20.98	21.70
		1	5	20.77	20.79	20.72	21.70
		3	0	20.65	20.65	20.78	21.70
		3	2	20.64	20.70	20.88	21.70
		3	3	20.55	20.77	20.84	21.70
		6	0	19.70	19.73	19.92	20.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	21.60	21.56	21.68	22.60
		1	7	21.55	21.60	21.83	22.60
		1	14	21.47	21.54	21.68	22.60
		8	0	21.62	21.68	21.78	22.60



		8	4	21.59	21.68	21.89	22.60
		8	7	21.57	21.68	21.87	22.60
		15	0	21.53	21.67	21.81	22.60
	16QAM	1	0	21.84	21.84	21.89	22.60
		1	7	21.85	21.91	22.04	22.60
		1	14	21.70	21.81	21.84	22.60
		8	0	20.77	20.81	20.95	21.70
		8	4	20.79	20.86	20.98	21.70
		8	7	20.70	20.86	20.98	21.70
		15	0	20.76	20.81	20.93	21.70
	64QAM	1	0	20.95	20.84	20.91	21.70
		1	7	20.89	20.85	21.00	21.70
		1	14	20.79	20.78	20.75	21.70
		8	0	19.76	19.78	19.90	20.70
		8	4	19.75	19.83	20.00	20.70
		8	7	19.65	19.89	19.97	20.70
		15	0	19.73	19.77	19.95	20.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	21.57	21.54	21.64	22.60
		1	13	21.53	21.56	21.80	22.60
		1	24	21.44	21.49	21.64	22.60
		12	0	21.59	21.63	21.74	22.60
		12	6	21.57	21.64	21.84	22.60
		12	13	21.55	21.66	21.83	22.60
		25	0	21.53	21.66	21.79	22.60
	16QAM	1	0	21.84	21.80	21.86	22.60
		1	13	21.85	21.89	22.01	22.60
		1	24	21.67	21.79	21.80	22.60
		12	0	20.75	20.77	20.92	21.70
		12	6	20.76	20.81	20.94	21.70
		12	13	20.67	20.81	20.94	21.70
		25	0	20.74	20.77	20.88	21.70
	64QAM	1	0	20.92	20.84	20.88	21.70
		1	13	20.86	20.87	20.97	21.70
		1	24	20.80	20.76	20.71	21.70
		12	0	19.74	19.74	19.91	20.70
		12	6	19.72	19.78	19.96	20.70
		12	13	19.62	19.84	19.93	20.70
		25	0	19.71	19.73	19.90	20.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	21.59	21.55	21.67	22.60



		1	25	21.56	21.61	21.84	22.60
		1	49	21.46	21.53	21.67	22.60
		25	0	21.62	21.68	21.78	22.60
		25	13	21.60	21.69	21.88	22.60
		25	25	21.57	21.70	21.88	22.60
		50	0	21.57	21.68	21.83	22.60
	16QAM	1	0	21.88	21.83	21.88	22.60
		1	25	21.89	21.93	22.04	22.60
		1	49	21.70	21.81	21.83	22.60
		25	0	20.78	20.82	20.96	21.70
		25	13	20.78	20.85	20.97	21.70
		25	25	20.70	20.86	20.98	21.70
		50	0	20.77	20.82	20.92	21.70
	64QAM	1	0	20.94	20.83	20.90	21.70
		1	25	20.89	20.87	21.00	21.70
		1	49	20.79	20.78	20.74	21.70
		25	0	19.77	19.79	19.91	20.70
		25	13	19.74	19.82	19.99	20.70
		25	25	19.65	19.89	19.97	20.70
		50	0	19.74	19.78	19.94	20.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	21.58	21.51	21.65	22.60
		1	38	21.54	21.60	21.81	22.60
		1	74	21.43	21.48	21.63	22.60
		36	0	21.60	21.64	21.75	22.60
		36	18	21.57	21.64	21.84	22.60
		36	39	21.54	21.67	21.84	22.60
		75	0	21.55	21.64	21.78	22.60
	16QAM	1	0	21.86	21.81	21.86	22.60
		1	38	21.87	21.90	22.02	22.60
		1	74	21.68	21.77	21.80	22.60
		36	0	20.75	20.80	20.93	21.70
		36	18	20.75	20.80	20.93	21.70
		36	39	20.68	20.82	20.95	21.70
		75	0	20.74	20.77	20.88	21.70
	64QAM	1	0	20.89	20.81	20.88	21.70
		1	38	20.87	20.84	20.98	21.70
		1	74	20.80	20.77	20.75	21.70
		36	0	19.76	19.81	19.92	20.70
		36	18	19.72	19.79	19.98	20.70
		36	39	19.63	19.85	19.94	20.70
		75	0	19.71	19.73	19.90	20.70



Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	21.55	21.47	21.62	22.60
		1	50	21.53	21.56	21.79	22.60
		1	99	21.41	21.47	21.60	22.60
		50	0	21.57	21.59	21.71	22.60
		50	25	21.55	21.60	21.81	22.60
		50	50	21.51	21.62	21.80	22.60
		100	0	21.52	21.59	21.74	22.60
	16QAM	1	0	21.83	21.77	21.81	22.60
		1	50	21.84	21.88	21.98	22.60
		1	99	21.65	21.74	21.78	22.60
		50	0	20.72	20.76	20.90	21.70
		50	25	20.72	20.78	20.90	21.70
		50	50	20.65	20.77	20.91	21.70
		100	0	20.72	20.73	20.85	21.70
	64QAM	1	0	20.87	20.77	20.83	21.70
		1	50	20.83	20.82	20.94	21.70
		1	99	20.74	20.71	20.69	21.70
		50	0	19.71	19.73	19.85	20.70
		50	25	19.68	19.75	19.92	20.70
		50	50	19.60	19.80	19.90	20.70
		100	0	19.69	19.69	19.87	20.70

LTE Band 5							
Receiver on &Body SAR & Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	24.31	24.37	24.28	25.30
		1	2	24.53	24.45	24.31	25.30
		1	5	24.39	24.27	24.25	25.30
		3	0	24.36	24.36	24.30	25.30
		3	2	24.33	24.35	24.31	25.30
		3	3	24.41	24.33	24.21	25.30
		6	0	23.45	23.43	23.35	24.30
	16QAM	1	0	23.61	23.61	23.56	24.30
		1	2	23.79	23.66	23.54	24.30
		1	5	23.66	23.48	23.44	24.30
		3	0	23.38	23.33	23.33	24.30
		3	2	23.37	23.35	23.31	24.30
		3	3	23.38	23.36	23.20	24.30
		6	0	22.42	22.47	22.39	23.30
	64QAM	1	0	22.56	22.57	22.44	23.30



		1	2	22.70	22.64	22.49	23.30
		1	5	22.61	22.63	22.41	23.30
		3	0	22.37	22.34	22.32	23.30
		3	2	22.35	22.34	22.32	23.30
		3	3	22.40	22.36	22.20	23.30
		6	0	21.43	21.48	21.39	22.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	24.32	24.40	24.30	25.30
		1	7	24.52	24.49	24.36	25.30
		1	14	24.41	24.31	24.28	25.30
		8	0	23.46	23.48	23.43	24.30
		8	4	23.46	23.46	23.42	24.30
		8	7	23.51	23.46	23.32	24.30
		15	0	23.49	23.48	23.40	24.30
	16QAM	1	0	23.65	23.62	23.58	24.30
		1	7	23.83	23.68	23.58	24.30
		1	14	23.68	23.52	23.46	24.30
		8	0	22.50	22.47	22.46	23.30
		8	4	22.47	22.47	22.42	23.30
		8	7	22.48	22.48	22.33	23.30
		15	0	22.46	22.52	22.41	23.30
	64QAM	1	0	22.58	22.58	22.46	23.30
		1	7	22.73	22.66	22.51	23.30
		1	14	22.63	22.62	22.43	23.30
		8	0	21.49	21.48	21.45	22.30
		8	4	21.45	21.46	21.43	22.30
		8	7	21.50	21.48	21.33	22.30
		15	0	21.47	21.53	21.41	22.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	24.31	24.36	24.28	25.30
		1	13	24.50	24.48	24.33	25.30
		1	24	24.38	24.26	24.24	25.30
		12	0	23.44	23.44	23.40	24.30
		12	6	23.43	23.41	23.38	24.30
		12	13	23.48	23.43	23.28	24.30
		25	0	23.47	23.44	23.35	24.30
	16QAM	1	0	23.63	23.60	23.56	24.30
		1	13	23.81	23.65	23.56	24.30
		1	24	23.66	23.48	23.43	24.30
		12	0	22.47	22.45	22.43	23.30
		12	6	22.44	22.42	22.38	23.30



		12	13	22.46	22.44	22.30	23.30
		25	0	22.43	22.47	22.37	23.30
	64QAM	1	0	22.53	22.56	22.44	23.30
		1	13	22.71	22.63	22.49	23.30
		1	24	22.64	22.61	22.44	23.30
		12	0	21.48	21.50	21.46	22.30
		12	6	21.43	21.43	21.42	22.30
		12	13	21.48	21.44	21.30	22.30
		25	0	21.44	21.48	21.37	22.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	24.28	24.32	24.25	25.30
		1	25	24.49	24.44	24.31	25.30
		1	49	24.36	24.25	24.21	25.30
		25	0	23.41	23.39	23.36	24.30
		25	13	23.41	23.37	23.35	24.30
		25	25	23.45	23.38	23.24	24.30
		50	0	23.44	23.39	23.31	24.30
	16QAM	1	0	23.60	23.56	23.51	24.30
		1	25	23.78	23.63	23.52	24.30
		1	49	23.63	23.45	23.41	24.30
		25	0	22.44	22.41	22.40	23.30
		25	13	22.41	22.40	22.35	23.30
		25	25	22.43	22.39	22.26	23.30
		50	0	22.41	22.43	22.34	23.30
	64QAM	1	0	22.51	22.52	22.39	23.30
		1	25	22.67	22.61	22.45	23.30
		1	49	22.58	22.55	22.38	23.30
		25	0	21.43	21.42	21.39	22.30
		25	13	21.39	21.39	21.36	22.30
		25	25	21.45	21.39	21.26	22.30
		50	0	21.42	21.44	21.34	22.30

LTE Band 7							
Body SAR				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	20.15	20.04	20.10	21.10
		1	13	20.38	20.27	20.34	21.10
		1	24	20.14	20.22	20.24	21.10
		12	0	20.20	20.23	20.32	21.10
		12	6	20.30	20.33	20.39	21.10
		12	13	20.36	20.36	20.35	21.10



	16QAM	25	0	20.23	20.32	20.32	21.10
		1	0	20.51	20.32	20.32	21.10
		1	13	20.73	20.58	20.61	21.10
		1	24	20.47	20.58	20.58	21.10
		12	0	20.23	20.23	20.31	21.10
		12	6	20.38	20.35	20.38	21.10
		12	13	20.35	20.38	20.35	21.10
		25	0	20.31	20.26	20.32	21.10
	64QAM	1	0	20.39	20.32	20.36	21.10
		1	13	20.61	20.52	20.62	21.10
		1	24	20.46	20.52	20.53	21.10
		12	0	20.19	20.23	20.31	21.10
		12	6	20.36	20.32	20.40	21.10
		12	13	20.34	20.36	20.35	21.10
		25	0	20.27	20.26	20.32	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	20.17	20.05	20.13	21.10
		1	25	20.41	20.32	20.38	21.10
		1	49	20.16	20.26	20.27	21.10
		25	0	20.23	20.28	20.36	21.10
		25	13	20.33	20.38	20.43	21.10
		25	25	20.38	20.40	20.40	21.10
		50	0	20.27	20.34	20.36	21.10
	16QAM	1	0	20.55	20.35	20.34	21.10
		1	25	20.77	20.62	20.64	21.10
		1	49	20.50	20.60	20.61	21.10
		25	0	20.26	20.28	20.35	21.10
		25	13	20.40	20.39	20.41	21.10
		25	25	20.38	20.43	20.39	21.10
		50	0	20.34	20.31	20.36	21.10
	64QAM	1	0	20.41	20.31	20.38	21.10
		1	25	20.64	20.52	20.65	21.10
		1	49	20.45	20.54	20.56	21.10
		25	0	20.22	20.28	20.31	21.10
		25	13	20.38	20.36	20.43	21.10
		25	25	20.37	20.41	20.39	21.10
		50	0	20.30	20.31	20.36	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	20.16	20.01	20.11	21.10
		1	38	20.39	20.31	20.35	21.10
		1	74	20.13	20.21	20.23	21.10



		36	0	20.21	20.24	20.33	21.10
		36	18	20.30	20.33	20.39	21.10
		36	39	20.35	20.37	20.36	21.10
		75	0	20.25	20.30	20.31	21.10
	16QAM	1	0	20.53	20.33	20.32	21.10
		1	38	20.75	20.59	20.62	21.10
		1	74	20.48	20.56	20.58	21.10
		36	0	20.23	20.26	20.32	21.10
		36	18	20.37	20.34	20.37	21.10
		36	39	20.36	20.39	20.36	21.10
		75	0	20.31	20.26	20.32	21.10
	64QAM	1	0	20.36	20.29	20.36	21.10
		1	38	20.62	20.49	20.63	21.10
		1	74	20.46	20.53	20.57	21.10
		36	0	20.21	20.30	20.32	21.10
		36	18	20.36	20.33	20.42	21.10
		36	39	20.35	20.37	20.36	21.10
		75	0	20.27	20.26	20.32	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	20.13	19.97	20.08	21.10
		1	50	20.38	20.27	20.33	21.10
		1	99	20.11	20.20	20.20	21.10
		50	0	20.18	20.19	20.29	21.10
		50	25	20.28	20.29	20.36	21.10
		50	50	20.32	20.32	20.32	21.10
		100	0	20.22	20.25	20.27	21.10
	16QAM	1	0	20.50	20.29	20.27	21.10
		1	50	20.72	20.57	20.58	21.10
		1	99	20.45	20.53	20.56	21.10
		50	0	20.20	20.22	20.29	21.10
		50	25	20.34	20.32	20.34	21.10
		50	50	20.33	20.34	20.32	21.10
		100	0	20.29	20.22	20.29	21.10
	64QAM	1	0	20.34	20.25	20.31	21.10
		1	50	20.58	20.47	20.59	21.10
		1	99	20.40	20.47	20.51	21.10
		50	0	20.16	20.22	20.25	21.10
		50	25	20.32	20.29	20.36	21.10
		50	50	20.32	20.32	20.32	21.10
		100	0	20.25	20.22	20.29	21.10



LTE Band 7							
Receiver on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	17.96	17.97	18.02	19.00
		1	13	18.27	18.18	18.25	19.00
		1	24	18.00	18.13	18.23	19.00
		12	0	18.06	18.14	18.22	19.00
		12	6	18.17	18.21	18.27	19.00
		12	13	18.24	18.24	18.23	19.00
		25	0	18.14	18.23	18.24	19.00
	16QAM	1	0	18.34	18.23	18.34	19.00
		1	13	18.59	18.51	18.64	19.00
		1	24	18.27	18.37	18.49	19.00
		12	0	18.07	18.13	18.24	19.00
		12	6	18.20	18.25	18.32	19.00
		12	13	18.22	18.28	18.30	19.00
		25	0	18.18	18.17	18.30	19.00
	64QAM	1	0	18.25	18.23	18.12	19.00
		1	13	18.50	18.46	18.41	19.00
		1	24	18.30	18.42	18.37	19.00
		12	0	18.07	18.16	18.25	19.00
		12	6	18.20	18.22	18.29	19.00
		12	13	18.24	18.26	18.27	19.00
		25	0	18.15	18.20	18.20	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	17.98	17.98	18.05	19.00
		1	25	18.30	18.23	18.29	19.00
		1	49	18.02	18.17	18.26	19.00
		25	0	18.09	18.19	18.26	19.00
		25	13	18.20	18.26	18.31	19.00
		25	25	18.26	18.28	18.28	19.00
		50	0	18.18	18.25	18.28	19.00
	16QAM	1	0	18.38	18.26	18.36	19.00
		1	25	18.63	18.55	18.67	19.00
		1	49	18.30	18.39	18.52	19.00
		25	0	18.10	18.18	18.28	19.00
		25	13	18.22	18.29	18.35	19.00
		25	25	18.25	18.33	18.34	19.00
		50	0	18.21	18.22	18.34	19.00
	64QAM	1	0	18.27	18.22	18.14	19.00



		1	25	18.53	18.46	18.44	19.00
		1	49	18.29	18.44	18.40	19.00
		25	0	18.10	18.21	18.25	19.00
		25	13	18.22	18.26	18.32	19.00
		25	25	18.27	18.31	18.31	19.00
		50	0	18.18	18.25	18.24	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	17.97	17.94	18.03	19.00
		1	38	18.28	18.22	18.26	19.00
		1	74	17.99	18.12	18.22	19.00
		36	0	18.07	18.15	18.23	19.00
		36	18	18.17	18.21	18.27	19.00
		36	39	18.23	18.25	18.24	19.00
		75	0	18.16	18.21	18.23	19.00
	16QAM	1	0	18.36	18.24	18.34	19.00
		1	38	18.61	18.52	18.65	19.00
		1	74	18.28	18.35	18.49	19.00
		36	0	18.07	18.16	18.25	19.00
		36	18	18.19	18.24	18.31	19.00
		36	39	18.23	18.29	18.31	19.00
		75	0	18.18	18.17	18.30	19.00
	64QAM	1	0	18.22	18.20	18.12	19.00
		1	38	18.51	18.43	18.42	19.00
		1	74	18.30	18.43	18.41	19.00
		36	0	18.09	18.23	18.26	19.00
		36	18	18.20	18.23	18.31	19.00
		36	39	18.25	18.27	18.28	19.00
		75	0	18.15	18.20	18.20	19.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	17.94	17.90	18.00	19.00
		1	50	18.27	18.18	18.24	19.00
		1	99	17.97	18.11	18.19	19.00
		50	0	18.04	18.10	18.19	19.00
		50	25	18.15	18.17	18.24	19.00
		50	50	18.20	18.20	18.20	19.00
		100	0	18.13	18.16	18.19	19.00
	16QAM	1	0	18.33	18.20	18.29	19.00
		1	50	18.58	18.50	18.61	19.00
		1	99	18.25	18.32	18.47	19.00
		50	0	18.04	18.12	18.22	19.00
		50	25	18.16	18.22	18.28	19.00



		50	50	18.20	18.24	18.27	19.00
		100	0	18.16	18.13	18.27	19.00
	64QAM	1	0	18.20	18.16	18.07	19.00
		1	50	18.47	18.41	18.38	19.00
		1	99	18.24	18.37	18.35	19.00
		50	0	18.04	18.15	18.19	19.00
		50	25	18.16	18.19	18.25	19.00
		50	50	18.22	18.22	18.24	19.00
		100	0	18.13	18.16	18.17	19.00

LTE Band 7							
Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	15.37	15.77	15.77	16.40
		1	13	15.58	15.57	15.63	16.40
		1	24	15.36	15.56	15.64	16.40
		12	0	15.41	15.52	15.57	16.40
		12	6	15.54	15.62	15.68	16.40
		12	13	15.60	15.63	15.63	16.40
		25	0	15.51	15.60	15.61	16.40
	16QAM	1	0	15.63	15.71	15.80	16.40
		1	13	15.90	15.89	16.02	16.40
		1	24	15.70	15.89	15.96	16.40
		12	0	15.44	15.50	15.60	16.40
		12	6	15.61	15.59	15.69	16.40
		12	13	15.61	15.67	15.64	16.40
		25	0	15.57	15.58	15.65	16.40
	64QAM	1	0	15.77	15.55	15.58	16.40
		1	13	15.85	15.73	15.80	16.40
		1	24	15.68	15.68	15.76	16.40
		12	0	15.48	15.25	15.65	16.40
		12	6	15.63	15.51	15.71	16.40
		12	13	15.59	15.65	15.58	16.40
		25	0	15.56	15.54	15.64	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	15.39	15.78	15.80	16.40
		1	25	15.61	15.62	15.67	16.40
		1	49	15.38	15.60	15.67	16.40
		25	0	15.44	15.57	15.61	16.40
		25	13	15.57	15.67	15.72	16.40
		25	25	15.62	15.67	15.68	16.40



	16QAM	50	0	15.55	15.62	15.65	16.40
		1	0	15.67	15.74	15.82	16.40
		1	25	15.94	15.93	16.05	16.40
		1	49	15.73	15.91	15.99	16.40
		25	0	15.47	15.55	15.64	16.40
		25	13	15.63	15.63	15.72	16.40
		25	25	15.64	15.72	15.68	16.40
		50	0	15.60	15.63	15.69	16.40
	64QAM	1	0	15.79	15.54	15.60	16.40
		1	25	15.88	15.73	15.83	16.40
		1	49	15.67	15.70	15.79	16.40
		25	0	15.51	15.30	15.65	16.40
		25	13	15.65	15.55	15.74	16.40
		25	25	15.62	15.70	15.62	16.40
		50	0	15.59	15.59	15.68	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	15.38	15.74	15.78	16.40
		1	38	15.59	15.61	15.64	16.40
		1	74	15.35	15.55	15.63	16.40
		36	0	15.42	15.53	15.58	16.40
		36	18	15.54	15.62	15.68	16.40
		36	39	15.59	15.64	15.64	16.40
		75	0	15.53	15.58	15.60	16.40
	16QAM	1	0	15.65	15.72	15.80	16.40
		1	38	15.92	15.90	16.03	16.40
		1	74	15.71	15.87	15.96	16.40
		36	0	15.44	15.53	15.61	16.40
		36	18	15.60	15.58	15.68	16.40
		36	39	15.62	15.68	15.65	16.40
		75	0	15.57	15.58	15.65	16.40
	64QAM	1	0	15.74	15.52	15.58	16.40
		1	38	15.86	15.70	15.81	16.40
		1	74	15.68	15.69	15.80	16.40
		36	0	15.50	15.32	15.66	16.40
		36	18	15.63	15.52	15.73	16.40
		36	39	15.60	15.66	15.59	16.40
		75	0	15.56	15.54	15.64	16.40
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	15.35	15.70	15.75	16.40
		1	50	15.58	15.57	15.62	16.40
		1	99	15.33	15.54	15.60	16.40



		50	0	15.39	15.48	15.54	16.40
		50	25	15.52	15.58	15.65	16.40
		50	50	15.56	15.59	15.60	16.40
		100	0	15.50	15.53	15.56	16.40
	16QAM	1	0	15.62	15.68	15.75	16.40
		1	50	15.89	15.88	15.99	16.40
		1	99	15.68	15.84	15.94	16.40
		50	0	15.41	15.49	15.58	16.40
		50	25	15.57	15.56	15.65	16.40
		50	50	15.59	15.63	15.61	16.40
		100	0	15.55	15.54	15.62	16.40
	64QAM	1	0	15.72	15.48	15.53	16.40
		1	50	15.82	15.68	15.77	16.40
		1	99	15.62	15.63	15.74	16.40
		50	0	15.45	15.24	15.59	16.40
		50	25	15.59	15.48	15.67	16.40
		50	50	15.57	15.61	15.55	16.40
		100	0	15.54	15.50	15.61	16.40

LTE Band 12							
Receiver on & Body SAR & Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	24.49	24.51	24.53	25.30
		1	2	24.67	24.62	24.59	25.30
		1	5	24.59	24.48	24.53	25.30
		3	0	24.60	24.61	24.61	25.30
		3	2	24.56	24.65	24.62	25.30
		3	3	24.60	24.63	24.59	25.30
		6	0	23.63	23.71	23.68	24.30
	16QAM	1	0	23.83	23.78	23.95	24.30
		1	2	23.91	24.00	23.89	24.30
		1	5	23.88	23.77	23.81	24.30
		3	0	23.54	23.56	23.58	24.30
		3	2	23.61	23.61	23.57	24.30
		3	3	23.64	23.63	23.56	24.30
		6	0	22.67	22.71	22.73	23.30
	64QAM	1	0	22.86	22.81	22.70	23.30
		1	2	23.00	22.96	22.82	23.30
		1	5	22.92	22.81	22.71	23.30
		3	0	22.60	22.59	22.56	23.30
		3	2	22.59	22.64	22.56	23.30
		3	3	22.60	22.66	22.55	23.30



		6	0	21.65	21.69	21.71	22.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	24.50	24.54	24.55	25.30
		1	7	24.66	24.66	24.64	25.30
		1	14	24.61	24.52	24.56	25.30
		8	0	23.70	23.73	23.74	24.30
		8	4	23.69	23.76	23.73	24.30
		8	7	23.70	23.76	23.70	24.30
		15	0	23.67	23.76	23.73	24.30
	16QAM	1	0	23.87	23.79	23.97	24.30
		1	7	23.95	24.02	23.93	24.30
		1	14	23.90	23.81	23.83	24.30
		8	0	22.66	22.70	22.71	23.30
		8	4	22.71	22.73	22.68	23.30
		8	7	22.74	22.75	22.69	23.30
		15	0	22.71	22.76	22.75	23.30
	64QAM	1	0	22.88	22.82	22.72	23.30
		1	7	23.03	22.98	22.84	23.30
		1	14	22.94	22.80	22.73	23.30
		8	0	21.72	21.73	21.69	22.30
		8	4	21.69	21.76	21.67	22.30
		8	7	21.70	21.78	21.68	22.30
		15	0	21.69	21.74	21.73	22.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	24.49	24.50	24.53	25.30
		1	13	24.64	24.65	24.61	25.30
		1	24	24.58	24.47	24.52	25.30
		12	0	23.68	23.69	23.71	24.30
		12	6	23.66	23.71	23.69	24.30
		12	13	23.67	23.73	23.66	24.30
		25	0	23.65	23.72	23.68	24.30
	16QAM	1	0	23.85	23.77	23.95	24.30
		1	13	23.93	23.99	23.91	24.30
		1	24	23.88	23.77	23.80	24.30
		12	0	22.63	22.68	22.68	23.30
		12	6	22.68	22.68	22.64	23.30
		12	13	22.72	22.71	22.66	23.30
		25	0	22.68	22.71	22.71	23.30
	64QAM	1	0	22.83	22.80	22.70	23.30
		1	13	23.01	22.95	22.82	23.30
		1	24	22.95	22.79	22.74	23.30



		12	0	21.71	21.75	21.70	22.30
		12	6	21.67	21.73	21.66	22.30
		12	13	21.68	21.74	21.65	22.30
		25	0	21.66	21.69	21.69	22.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	24.46	24.46	24.50	25.30
		1	25	24.63	24.61	24.59	25.30
		1	49	24.56	24.46	24.49	25.30
		25	0	23.65	23.64	23.67	24.30
		25	13	23.64	23.67	23.66	24.30
		25	25	23.64	23.68	23.62	24.30
		50	0	23.62	23.67	23.64	24.30
	16QAM	1	0	23.82	23.73	23.90	24.30
		1	25	23.90	23.97	23.87	24.30
		1	49	23.85	23.74	23.78	24.30
		25	0	22.60	22.64	22.65	23.30
		25	13	22.65	22.66	22.61	23.30
		25	25	22.69	22.66	22.62	23.30
		50	0	22.66	22.67	22.68	23.30
	64QAM	1	0	22.81	22.76	22.65	23.30
		1	25	22.97	22.93	22.78	23.30
		1	49	22.89	22.73	22.68	23.30
		25	0	21.66	21.67	21.63	22.30
		25	13	21.63	21.69	21.60	22.30
		25	25	21.65	21.69	21.61	22.30
		50	0	21.64	21.65	21.66	22.30

LTE Band 13							
Receiver on & Body SAR & Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				23205/779.5	23230/782	23255/784.5	
5MHz	QPSK	1	0	24.38	24.52	24.40	25.30
		1	13	24.56	24.62	24.56	25.30
		1	24	24.44	24.57	24.47	25.30
		12	0	23.52	23.67	23.54	24.30
		12	6	23.57	23.70	23.59	24.30
		12	13	23.57	23.71	23.61	24.30
		25	0	23.53	23.66	23.54	24.30
	16QAM	1	0	23.68	23.81	23.69	24.30
		1	13	23.88	23.96	23.89	24.30
		1	24	23.66	23.77	23.68	24.30
		12	0	22.52	22.63	22.55	23.30



		12	6	22.58	22.73	22.62	23.30
		12	13	22.58	22.73	22.60	23.30
		25	0	22.50	22.63	22.52	23.30
	64QAM	1	0	22.62	22.79	22.67	23.30
		1	13	22.70	22.80	22.73	23.30
		1	24	22.56	22.75	22.62	23.30
		12	0	21.55	21.70	21.58	22.30
		12	6	21.63	21.81	21.67	22.30
		12	13	21.55	21.70	21.57	22.30
		25	0	21.52	21.65	21.54	22.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				/	23230/782	/	
10MHz	QPSK	1	0	/	24.35	/	25.30
		1	25	/	24.54	/	25.30
		1	49	/	24.41	/	25.30
		25	0	/	23.48	/	24.30
		25	13	/	23.54	/	24.30
		25	25	/	23.53	/	24.30
		50	0	/	23.49	/	24.30
	16QAM	1	0	/	23.63	/	24.30
		1	25	/	23.84	/	24.30
		1	49	/	23.64	/	24.30
		25	0	/	22.49	/	23.30
		25	13	/	22.55	/	23.30
		25	25	/	22.54	/	23.30
		50	0	/	22.47	/	23.30
	64QAM	1	0	/	22.57	/	23.30
		1	25	/	22.66	/	23.30
		1	49	/	22.50	/	23.30
		25	0	/	21.48	/	22.30
		25	13	/	21.57	/	22.30
		25	25	/	21.51	/	22.30
		50	0	/	21.49	/	22.30

LTE Band 17							
Receiver on & Body SAR & Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	24.66	24.60	24.64	25.30
		1	13	24.86	24.80	24.79	25.30
		1	24	24.67	24.61	24.63	25.30
		12	0	23.81	23.84	23.83	24.30
		12	6	23.84	23.82	23.83	24.30



		12	13	23.80	23.84	23.80	24.30
		25	0	23.81	23.83	23.82	24.30
	16QAM	1	0	23.97	23.92	24.00	24.30
		1	13	24.17	24.06	24.12	24.30
		1	24	23.88	23.86	23.88	24.30
		12	0	22.81	22.80	22.77	23.30
		12	6	22.83	22.83	22.78	23.30
		12	13	22.75	22.80	22.74	23.30
		25	0	22.78	22.83	22.80	23.30
		1	0	22.86	22.81	22.86	23.30
	64QAM	1	13	23.03	23.00	23.02	23.30
		1	24	22.75	22.79	22.83	23.30
		12	0	21.82	21.79	21.78	22.30
		12	6	21.84	21.81	21.81	22.30
		12	13	21.82	21.81	21.75	22.30
		25	0	21.81	21.82	21.80	22.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	24.62	24.52	24.59	25.30
		1	25	24.83	24.75	24.74	25.30
		1	49	24.62	24.55	24.56	25.30
		25	0	23.76	23.75	23.76	24.30
		25	13	23.79	23.73	23.76	24.30
		25	25	23.74	23.76	23.72	24.30
		50	0	23.76	23.74	23.73	24.30
	16QAM	1	0	23.92	23.86	23.93	24.30
		1	25	24.12	24.01	24.06	24.30
		1	49	23.83	23.79	23.83	24.30
		25	0	22.75	22.74	22.71	23.30
		25	13	22.77	22.76	22.71	23.30
		25	25	22.70	22.71	22.67	23.30
		50	0	22.73	22.74	22.73	23.30
	64QAM	1	0	22.79	22.75	22.79	23.30
		1	25	22.97	22.95	22.96	23.30
		1	49	22.70	22.72	22.78	23.30
		25	0	21.76	21.73	21.72	22.30
		25	13	21.78	21.74	21.74	22.30
		25	25	21.77	21.72	21.68	22.30
		50	0	21.76	21.73	21.73	22.30



LTE Band 26							
Receiver on & Body SAR & Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				26697/814.7	26865/831.5	27033/848.3	
1.4MHz	QPSK	1	0	24.34	24.35	24.26	25.30
		1	2	24.45	24.44	24.32	25.30
		1	5	24.39	24.33	24.24	25.30
		3	0	24.36	24.41	24.30	25.30
		3	2	24.37	24.41	24.36	25.30
		3	3	24.38	24.34	24.27	25.30
		6	0	23.44	23.44	23.39	24.30
	16QAM	1	0	23.54	23.65	23.56	24.30
		1	2	23.68	23.77	23.57	24.30
		1	5	23.62	23.55	23.43	24.30
		3	0	23.36	23.40	23.27	24.30
		3	2	23.40	23.40	23.34	24.30
		3	3	23.38	23.40	23.24	24.30
		6	0	22.41	22.46	22.39	23.30
	64QAM	1	0	22.48	22.48	22.55	23.30
		1	2	22.60	22.66	22.55	23.30
		1	5	22.52	22.55	22.49	23.30
		3	0	22.38	22.35	22.32	23.30
		3	2	22.42	22.44	22.37	23.30
		3	3	22.40	22.38	22.29	23.30
		6	0	21.42	21.47	21.37	22.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				26705/815.5	26865/831.5	27025/847.5	
3MHz	QPSK	1	0	24.33	24.37	24.25	25.30
		1	7	24.41	24.43	24.33	25.30
		1	14	24.39	24.33	24.24	25.30
		8	0	23.43	23.48	23.39	24.30
		8	4	23.47	23.47	23.43	24.30
		8	7	23.46	23.43	23.33	24.30
		15	0	23.44	23.47	23.40	24.30
	16QAM	1	0	23.54	23.63	23.56	24.30
		1	7	23.68	23.75	23.58	24.30
		1	14	23.61	23.57	23.42	24.30
		8	0	22.45	22.49	22.36	23.30
		8	4	22.48	22.48	22.42	23.30
		8	7	22.45	22.47	22.33	23.30
		15	0	22.42	22.46	22.37	23.30
	64QAM	1	0	22.48	22.50	22.55	23.30
		1	7	22.60	22.68	22.54	23.30



		1	14	22.55	22.52	22.48	23.30
		8	0	21.47	21.44	21.45	22.30
		8	4	21.50	21.52	21.45	22.30
		8	7	21.47	21.45	21.38	22.30
		15	0	21.43	21.47	21.35	22.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				26715/816.5	26865/831.5	27015/846.5	
5MHz	QPSK	1	0	24.35	24.38	24.28	25.30
		1	13	24.44	24.48	24.37	25.30
		1	24	24.41	24.37	24.27	25.30
		12	0	23.46	23.53	23.43	24.30
		12	6	23.50	23.52	23.47	24.30
		12	13	23.48	23.47	23.38	24.30
		25	0	23.48	23.49	23.44	24.30
	16QAM	1	0	23.58	23.66	23.58	24.30
		1	13	23.72	23.79	23.61	24.30
		1	24	23.64	23.59	23.45	24.30
		12	0	22.48	22.54	22.40	23.30
		12	6	22.50	22.52	22.45	23.30
		12	13	22.48	22.52	22.37	23.30
		25	0	22.45	22.51	22.41	23.30
	64QAM	1	0	22.50	22.49	22.57	23.30
		1	13	22.63	22.68	22.57	23.30
		1	24	22.54	22.54	22.51	23.30
		12	0	21.50	21.49	21.45	22.30
		12	6	21.52	21.56	21.48	22.30
		12	13	21.50	21.50	21.42	22.30
		25	0	21.46	21.52	21.39	22.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				26740/819	26865/831.5	26990/844	
10MHz	QPSK	1	0	24.34	24.34	24.26	25.30
		1	25	24.42	24.47	24.34	25.30
		1	49	24.38	24.32	24.23	25.30
		25	0	23.44	23.49	23.40	24.30
		25	13	23.47	23.47	23.43	24.30
		25	25	23.45	23.44	23.34	24.30
		50	0	23.46	23.45	23.39	24.30
	16QAM	1	0	23.56	23.64	23.56	24.30
		1	25	23.70	23.76	23.59	24.30
		1	49	23.62	23.55	23.42	24.30
		25	0	22.45	22.52	22.37	23.30
		25	13	22.47	22.47	22.41	23.30
		25	25	22.46	22.48	22.34	23.30



	64QAM	50	0	22.42	22.46	22.37	23.30
		1	0	22.45	22.47	22.55	23.30
		1	25	22.61	22.65	22.55	23.30
		1	49	22.55	22.53	22.52	23.30
		25	0	21.49	21.51	21.46	22.30
		25	13	21.50	21.53	21.47	22.30
		25	25	21.48	21.46	21.39	22.30
		50	0	21.43	21.47	21.35	22.30
		50	0	21.43	21.47	21.35	22.30
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				26765/821.5	26865/831.5	26965/841.5	
15MHz	QPSK	1	0	24.31	24.30	24.23	25.30
		1	38	24.41	24.43	24.32	25.30
		1	74	24.36	24.31	24.20	25.30
		36	0	23.41	23.44	23.36	24.30
		36	18	23.45	23.43	23.40	24.30
		36	39	23.42	23.39	23.30	24.30
		75	0	23.43	23.40	23.35	24.30
	16QAM	1	0	23.53	23.60	23.51	24.30
		1	38	23.67	23.74	23.55	24.30
		1	74	23.59	23.52	23.40	24.30
		36	0	22.42	22.48	22.34	23.30
		36	18	22.44	22.45	22.38	23.30
		36	39	22.43	22.43	22.30	23.30
		75	0	22.40	22.42	22.34	23.30
	64QAM	1	0	22.43	22.43	22.50	23.30
		1	38	22.57	22.63	22.51	23.30
		1	74	22.49	22.47	22.46	23.30
		36	0	21.44	21.43	21.39	22.30
		36	18	21.46	21.49	21.41	22.30
		36	39	21.45	21.41	21.35	22.30
		75	0	21.41	21.43	21.32	22.30

LTE Band 38							
Body SAR				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	23.07	23.07	23.04	24.10
		1	13	23.21	23.26	23.30	24.10
		1	24	23.07	23.09	23.05	24.10
		12	0	22.14	22.19	22.22	23.10
		12	6	22.22	22.25	22.30	23.10
		12	13	22.20	22.24	22.25	23.10
		25	0	22.18	22.23	22.26	23.10



	16QAM	1	0	22.29	22.29	22.27	23.10
		1	13	22.45	22.46	22.54	23.10
		1	24	22.30	22.31	22.24	23.10
		12	0	21.22	21.21	21.24	22.10
		12	6	21.29	21.27	21.36	22.10
		12	13	21.22	21.30	21.30	22.10
		25	0	21.24	21.24	21.29	22.10
	64QAM	1	0	21.18	21.14	21.15	22.10
		1	13	21.32	21.38	21.41	22.10
		1	24	21.19	21.18	21.17	22.10
		12	0	20.21	20.21	20.26	21.10
		12	6	20.28	20.28	20.35	21.10
		12	13	20.24	20.26	20.27	21.10
		25	0	20.20	20.22	20.27	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	23.09	23.08	23.07	24.10
		1	25	23.24	23.31	23.34	24.10
		1	49	23.09	23.13	23.08	24.10
		25	0	22.17	22.24	22.26	23.10
		25	13	22.25	22.30	22.34	23.10
		25	25	22.22	22.28	22.30	23.10
		50	0	22.22	22.25	22.30	23.10
	16QAM	1	0	22.33	22.32	22.29	23.10
		1	25	22.49	22.50	22.57	23.10
		1	49	22.33	22.33	22.27	23.10
		25	0	21.25	21.26	21.28	22.10
		25	13	21.31	21.31	21.39	22.10
		25	25	21.25	21.35	21.34	22.10
		50	0	21.27	21.29	21.33	22.10
	64QAM	1	0	21.20	21.13	21.17	22.10
		1	25	21.35	21.38	21.44	22.10
		1	49	21.18	21.20	21.20	22.10
		25	0	20.24	20.26	20.26	21.10
		25	13	20.30	20.32	20.38	21.10
		25	25	20.27	20.31	20.31	21.10
		50	0	20.23	20.27	20.31	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	23.08	23.04	23.05	24.10
		1	38	23.22	23.30	23.31	24.10
		1	74	23.06	23.08	23.04	24.10
		36	0	22.15	22.20	22.23	23.10



		36	18	22.22	22.25	22.30	23.10
		36	39	22.19	22.25	22.26	23.10
		75	0	22.20	22.21	22.25	23.10
	16QAM	1	0	22.31	22.30	22.27	23.10
		1	38	22.47	22.47	22.55	23.10
		1	74	22.31	22.29	22.24	23.10
		36	0	21.22	21.24	21.25	22.10
		36	18	21.28	21.26	21.35	22.10
		36	39	21.23	21.31	21.31	22.10
		75	0	21.24	21.24	21.29	22.10
		1	0	21.15	21.11	21.15	22.10
	64QAM	1	38	21.33	21.35	21.42	22.10
		1	74	21.19	21.19	21.21	22.10
		36	0	20.23	20.28	20.27	21.10
		36	18	20.28	20.29	20.37	21.10
		36	39	20.25	20.27	20.28	21.10
		75	0	20.20	20.22	20.27	21.10
		1	0	21.15	21.11	21.15	22.10
		1	38	21.33	21.35	21.42	22.10
		1	74	21.19	21.19	21.21	22.10
		36	0	20.23	20.28	20.27	21.10
		36	18	20.28	20.29	20.37	21.10
		36	39	20.25	20.27	20.28	21.10
		75	0	20.20	20.22	20.27	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	23.05	23.00	23.02	24.10
		1	50	23.21	23.26	23.29	24.10
		1	99	23.04	23.07	23.01	24.10
		50	0	22.12	22.15	22.19	23.10
		50	25	22.20	22.21	22.27	23.10
		50	50	22.16	22.20	22.22	23.10
		100	0	22.17	22.16	22.21	23.10
	16QAM	1	0	22.28	22.26	22.22	23.10
		1	50	22.44	22.45	22.51	23.10
		1	99	22.28	22.26	22.22	23.10
		50	0	21.19	21.20	21.22	22.10
		50	25	21.25	21.24	21.32	22.10
		50	50	21.20	21.26	21.27	22.10
		100	0	21.22	21.20	21.26	22.10
	64QAM	1	0	21.13	21.07	21.10	22.10
		1	50	21.29	21.33	21.38	22.10
		1	99	21.13	21.13	21.15	22.10
		50	0	20.18	20.20	20.20	21.10
		50	25	20.24	20.25	20.31	21.10
		50	50	20.22	20.22	20.24	21.10
		100	0	20.18	20.18	20.24	21.10



LTE Band 38							
Receiver on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	21.63	21.64	21.62	22.60
		1	13	21.82	21.84	21.85	22.60
		1	24	21.69	21.62	21.59	22.60
		12	0	21.72	21.71	21.73	22.60
		12	6	21.73	21.75	21.79	22.60
		12	13	21.70	21.76	21.77	22.60
		25	0	21.66	21.74	21.77	22.60
	16QAM	1	0	21.80	21.82	21.81	22.60
		1	13	21.98	22.04	22.08	22.60
		1	24	21.84	21.85	21.81	22.60
		12	0	21.23	21.25	21.27	22.10
		12	6	21.33	21.29	21.33	22.10
		12	13	21.22	21.31	21.27	22.10
		25	0	21.22	21.28	21.30	22.10
	64QAM	1	0	21.21	21.17	21.18	22.10
		1	13	21.36	21.41	21.42	22.10
		1	24	21.23	21.20	21.15	22.10
		12	0	20.25	20.21	20.26	21.10
		12	6	20.29	20.27	20.29	21.10
		12	13	20.26	20.26	20.23	21.10
		25	0	20.22	20.26	20.23	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	21.65	21.65	21.65	22.60
		1	25	21.85	21.89	21.89	22.60
		1	49	21.71	21.66	21.62	22.60
		25	0	21.75	21.76	21.77	22.60
		25	13	21.76	21.80	21.83	22.60
		25	25	21.72	21.80	21.82	22.60
		50	0	21.70	21.76	21.81	22.60
	16QAM	1	0	21.84	21.85	21.83	22.60
		1	25	22.02	22.08	22.11	22.60
		1	49	21.87	21.87	21.84	22.60
		25	0	21.26	21.30	21.31	22.10
		25	13	21.35	21.33	21.36	22.10
		25	25	21.25	21.36	21.31	22.10
		50	0	21.25	21.33	21.34	22.10
	64QAM	1	0	21.23	21.16	21.20	22.10
		1	25	21.39	21.41	21.45	22.10



		1	49	21.22	21.22	21.18	22.10
		25	0	20.28	20.26	20.26	21.10
		25	13	20.31	20.31	20.32	21.10
		25	25	20.29	20.31	20.27	21.10
		50	0	20.25	20.31	20.27	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	21.64	21.61	21.63	22.60
		1	38	21.83	21.88	21.86	22.60
		1	74	21.68	21.61	21.58	22.60
		36	0	21.73	21.72	21.74	22.60
		36	18	21.73	21.75	21.79	22.60
		36	39	21.69	21.77	21.78	22.60
		75	0	21.68	21.72	21.76	22.60
	16QAM	1	0	21.82	21.83	21.81	22.60
		1	38	22.00	22.05	22.09	22.60
		1	74	21.85	21.83	21.81	22.60
		36	0	21.23	21.28	21.28	22.10
		36	18	21.32	21.28	21.32	22.10
		36	39	21.23	21.32	21.28	22.10
		75	0	21.22	21.28	21.30	22.10
	64QAM	1	0	21.18	21.14	21.18	22.10
		1	38	21.37	21.38	21.43	22.10
		1	74	21.23	21.21	21.19	22.10
		36	0	20.27	20.28	20.27	21.10
		36	18	20.29	20.28	20.31	21.10
		36	39	20.27	20.27	20.24	21.10
		75	0	20.22	20.26	20.23	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	21.61	21.57	21.60	22.60
		1	50	21.82	21.84	21.84	22.60
		1	99	21.66	21.60	21.55	22.60
		50	0	21.70	21.67	21.70	22.60
		50	25	21.71	21.71	21.76	22.60
		50	50	21.66	21.72	21.74	22.60
		100	0	21.65	21.67	21.72	22.60
	16QAM	1	0	21.79	21.79	21.76	22.60
		1	50	21.97	22.03	22.05	22.60
		1	99	21.82	21.80	21.79	22.60
		50	0	21.20	21.24	21.25	22.10
		50	25	21.29	21.26	21.29	22.10
		50	50	21.20	21.27	21.24	22.10



		100	0	21.20	21.24	21.27	22.10
	64QAM	1	0	21.16	21.10	21.13	22.10
		1	50	21.33	21.36	21.39	22.10
		1	99	21.17	21.15	21.13	22.10
		50	0	20.22	20.20	20.20	21.10
		50	25	20.25	20.24	20.25	21.10
		50	50	20.24	20.22	20.20	21.10
		100	0	20.20	20.22	20.20	21.10

LTE Band 38							
Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	18.61	18.61	18.59	19.50
		1	13	18.77	18.85	18.78	19.50
		1	24	18.65	18.59	18.58	19.50
		12	0	18.65	18.62	18.63	19.50
		12	6	18.68	18.67	18.72	19.50
		12	13	18.64	18.67	18.69	19.50
		25	0	18.63	18.70	18.73	19.50
	16QAM	1	0	18.80	18.81	18.82	19.50
		1	13	18.96	18.98	19.05	19.50
		1	24	18.86	18.84	18.74	19.50
		12	0	18.69	18.66	18.71	19.50
		12	6	18.76	18.73	18.80	19.50
		12	13	18.65	18.73	18.75	19.50
		25	0	18.68	18.69	18.72	19.50
	64QAM	1	0	18.67	18.64	18.64	19.50
		1	13	18.81	18.87	18.88	19.50
		1	24	18.67	18.68	18.62	19.50
		12	0	18.66	18.64	18.72	19.50
		12	6	18.74	18.72	18.78	19.50
		12	13	18.62	18.74	18.71	19.50
		25	0	18.68	18.69	18.73	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	18.63	18.62	18.62	19.50
		1	25	18.80	18.90	18.82	19.50
		1	49	18.67	18.63	18.61	19.50
		25	0	18.68	18.67	18.67	19.50
		25	13	18.71	18.72	18.76	19.50
		25	25	18.66	18.71	18.74	19.50
		50	0	18.67	18.72	18.77	19.50



	16QAM	1	0	18.84	18.84	18.84	19.50
		1	25	19.00	19.02	19.08	19.50
		1	49	18.89	18.86	18.77	19.50
		25	0	18.72	18.71	18.75	19.50
		25	13	18.78	18.77	18.83	19.50
		25	25	18.68	18.78	18.79	19.50
		50	0	18.71	18.74	18.76	19.50
	64QAM	1	0	18.69	18.63	18.66	19.50
		1	25	18.84	18.87	18.91	19.50
		1	49	18.66	18.70	18.65	19.50
		25	0	18.69	18.69	18.72	19.50
		25	13	18.76	18.76	18.81	19.50
		25	25	18.65	18.79	18.75	19.50
		50	0	18.71	18.74	18.77	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	18.62	18.58	18.60	19.50
		1	38	18.78	18.89	18.79	19.50
		1	74	18.64	18.58	18.57	19.50
		36	0	18.66	18.63	18.64	19.50
		36	18	18.68	18.67	18.72	19.50
		36	39	18.63	18.68	18.70	19.50
		75	0	18.65	18.68	18.72	19.50
	16QAM	1	0	18.82	18.82	18.82	19.50
		1	38	18.98	18.99	19.06	19.50
		1	74	18.87	18.82	18.74	19.50
		36	0	18.69	18.69	18.72	19.50
		36	18	18.75	18.72	18.79	19.50
		36	39	18.66	18.74	18.76	19.50
		75	0	18.68	18.69	18.72	19.50
	64QAM	1	0	18.64	18.61	18.64	19.50
		1	38	18.82	18.84	18.89	19.50
		1	74	18.67	18.69	18.66	19.50
		36	0	18.68	18.71	18.73	19.50
		36	18	18.74	18.73	18.80	19.50
		36	39	18.63	18.75	18.72	19.50
		75	0	18.68	18.69	18.73	19.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	18.59	18.54	18.57	19.50
		1	50	18.77	18.85	18.77	19.50
		1	99	18.62	18.57	18.54	19.50
		50	0	18.63	18.58	18.60	19.50



		50	25	18.66	18.63	18.69	19.50
		50	50	18.60	18.63	18.66	19.50
		100	0	18.62	18.63	18.68	19.50
	16QAM	1	0	18.79	18.78	18.77	19.50
		1	50	18.95	18.97	19.02	19.50
		1	99	18.84	18.79	18.72	19.50
		50	0	18.66	18.65	18.69	19.50
		50	25	18.72	18.70	18.76	19.50
		50	50	18.63	18.69	18.72	19.50
		100	0	18.66	18.65	18.69	19.50
	64QAM	1	0	18.62	18.57	18.59	19.50
		1	50	18.78	18.82	18.85	19.50
		1	99	18.61	18.63	18.60	19.50
		50	0	18.63	18.63	18.66	19.50
		50	25	18.70	18.69	18.74	19.50
		50	50	18.60	18.70	18.68	19.50
		100	0	18.66	18.65	18.70	19.50

LTE Band 41									
Body SAR				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/ 2498.5	40148/ 2545.8	40620/ 2593	41093/ 2640.3	41565/ 2687.5	
5MHz	QPSK	1	0	22.38	22.40	22.27	22.19	22.14	23.30
		1	13	22.58	22.56	22.44	22.38	22.24	23.30
		1	24	22.37	22.33	22.29	22.30	22.09	23.30
		12	0	22.33	22.31	22.22	22.13	22.06	23.10
		12	6	22.39	22.38	22.24	22.13	22.08	23.10
		12	13	22.38	22.34	22.21	22.21	22.09	23.10
		25	0	22.35	22.37	22.23	22.19	22.10	23.10
	16QAM	1	0	22.41	22.38	22.31	22.23	22.13	23.10
		1	13	22.54	22.50	22.44	22.41	22.27	23.10
		1	24	22.37	22.38	22.28	22.28	22.12	23.10
		12	0	21.37	21.32	21.24	21.19	21.07	22.10
		12	6	21.44	21.40	21.26	21.24	21.12	22.10
		12	13	21.40	21.38	21.23	21.22	21.13	22.10
		25	0	21.39	21.38	21.25	21.21	21.10	22.10
	64QAM	1	0	21.37	21.34	21.22	21.20	21.08	22.10
		1	13	21.49	21.47	21.29	21.30	21.24	22.10
		1	24	21.32	21.25	21.10	21.19	21.00	22.10
		12	0	20.34	20.25	20.25	20.16	20.04	21.10
		12	6	20.46	20.39	20.26	20.24	20.04	21.10
		12	13	20.38	20.36	20.21	20.20	20.12	21.10



		25	0	20.36	20.35	20.23	20.18	20.05	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/ 2501	40160/ 2547	40620/ 2593	41080/ 2639	41540/ 2685	
10MHz	QPSK	1	0	22.21	22.15	22.40	22.41	22.30	23.30
		1	25	22.41	22.29	22.61	22.61	22.48	23.30
		1	49	22.32	22.13	22.39	22.37	22.32	23.30
		25	0	22.16	22.11	22.36	22.36	22.26	23.10
		25	13	22.16	22.13	22.42	22.43	22.28	23.10
		25	25	22.23	22.13	22.40	22.38	22.26	23.10
		50	0	22.23	22.12	22.39	22.39	22.27	23.10
	16QAM	1	0	22.27	22.16	22.45	22.41	22.33	23.10
		1	25	22.45	22.31	22.58	22.54	22.47	23.10
		1	49	22.31	22.14	22.40	22.40	22.31	23.10
		25	0	21.22	21.12	21.40	21.37	21.28	22.10
		25	13	21.26	21.16	21.46	21.44	21.29	22.10
		25	25	21.25	21.18	21.43	21.43	21.27	22.10
		50	0	21.24	21.15	21.42	21.43	21.29	22.10
	64QAM	1	0	21.22	21.07	21.39	21.33	21.24	22.10
		1	25	21.33	21.24	21.52	21.47	21.32	22.10
		1	49	21.18	21.02	21.31	21.27	21.13	22.10
		25	0	20.19	20.09	20.37	20.30	20.25	21.10
		25	13	20.26	20.08	20.48	20.43	20.29	21.10
		25	25	20.23	20.17	20.41	20.41	20.25	21.10
		50	0	20.21	20.10	20.39	20.40	20.27	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/ 2503.5	40173/ 2548.3	40620/ 2593	41068/ 2637.8	41515/ 2682.5	
15MHz	QPSK	1	0	22.20	22.11	22.39	22.37	22.28	23.30
		1	38	22.39	22.28	22.59	22.60	22.45	23.30
		1	74	22.29	22.08	22.36	22.32	22.28	23.30
		36	0	22.14	22.07	22.34	22.32	22.23	23.10
		36	18	22.13	22.08	22.39	22.38	22.24	23.10
		36	39	22.20	22.10	22.37	22.35	22.22	23.10
		75	0	22.21	22.08	22.37	22.35	22.22	23.10
	16QAM	1	0	22.25	22.14	22.43	22.39	22.31	23.10
		1	38	22.43	22.28	22.56	22.51	22.45	23.10
		1	74	22.29	22.10	22.38	22.36	22.28	23.10
		36	0	21.19	21.10	21.37	21.35	21.25	22.10
		36	18	21.23	21.11	21.43	21.39	21.25	22.10
		36	39	21.23	21.14	21.41	21.39	21.24	22.10
		75	0	21.21	21.10	21.39	21.38	21.25	22.10
	64QAM	1	0	21.17	21.05	21.34	21.31	21.22	22.10



		1	38	21.31	21.21	21.50	21.44	21.30	22.10
		1	74	21.19	21.01	21.32	21.26	21.14	22.10
		36	0	20.18	20.11	20.36	20.32	20.26	21.10
		36	18	20.24	20.05	20.46	20.40	20.28	21.10
		36	39	20.21	20.13	20.39	20.37	20.22	21.10
		75	0	20.18	20.05	20.36	20.35	20.23	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/ 2506	40185/ 2549.5	40620/ 2593	41055/ 2636.5	41490/ 2680	
20MHz	QPSK	1	0	22.36	22.33	22.25	22.17	22.07	23.30
		1	50	22.58	22.56	22.43	22.38	22.24	23.30
		1	99	22.34	22.31	22.25	22.27	22.07	23.30
		50	0	22.31	22.27	22.19	22.11	22.02	23.10
		50	25	22.37	22.34	22.21	22.11	22.04	23.10
		50	50	22.34	22.30	22.18	22.17	22.05	23.10
		100	0	22.34	22.30	22.18	22.18	22.03	23.10
	16QAM	1	0	22.40	22.35	22.26	22.22	22.10	23.10
		1	50	22.53	22.49	22.41	22.40	22.26	23.10
		1	99	22.35	22.33	22.26	22.26	22.07	23.10
		50	0	21.34	21.31	21.22	21.16	21.06	22.10
		50	25	21.40	21.37	21.22	21.20	21.09	22.10
		50	50	21.38	21.34	21.20	21.20	21.09	22.10
		100	0	21.37	21.34	21.22	21.19	21.06	22.10
	64QAM	1	0	21.32	21.27	21.17	21.15	21.01	22.10
		1	50	21.46	21.42	21.26	21.27	21.19	22.10
		1	99	21.26	21.20	21.08	21.13	20.95	22.10
		50	0	20.31	20.24	20.19	20.13	20.03	21.10
		50	25	20.42	20.36	20.22	20.20	20.01	21.10
		50	50	20.36	20.32	20.18	20.18	20.08	21.10
		100	0	20.34	20.31	20.20	20.16	20.01	21.10

LTE Band 41									
Receiver on				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/ 2498.5	40148/ 2545.8	40620/ 2593	41093/ 2640.3	41565/ 2687.5	
5MHz	QPSK	1	0	20.46	20.56	20.71	20.66	20.51	21.60
		1	13	20.61	20.66	20.87	20.79	20.67	21.60
		1	24	20.43	20.49	20.72	20.52	20.53	21.60
		12	0	20.46	20.55	20.76	20.73	20.59	21.60
		12	6	20.49	20.58	20.81	20.67	20.68	21.60
		12	13	20.53	20.61	20.82	20.66	20.66	21.60
		25	0	20.48	20.63	20.79	20.72	20.68	21.60



	16QAM	1	0	20.61	20.70	20.92	20.79	20.75	21.60
		1	13	20.80	20.86	21.05	20.98	20.94	21.60
		1	24	20.65	20.73	20.87	20.80	20.77	21.60
		12	0	20.53	20.57	20.84	20.71	20.62	21.60
		12	6	20.58	20.64	20.89	20.69	20.74	21.60
		12	13	20.58	20.67	20.84	20.70	20.71	21.60
		25	0	20.53	20.62	20.81	20.72	20.70	21.60
	64QAM	1	0	20.45	20.54	20.79	20.64	20.59	21.60
		1	13	20.66	20.74	20.90	20.88	20.81	21.60
		1	24	20.51	20.55	20.75	20.59	20.62	21.60
		12	0	20.00	20.04	20.32	20.21	20.16	21.60
		12	6	20.07	20.13	20.38	20.21	20.23	21.60
		12	13	20.05	20.14	20.31	20.17	20.20	21.60
		25	0	20.01	20.10	20.31	20.21	20.18	21.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/ 2501	40160/ 2547	40620/ 2593	41080/ 2639	41540/ 2685	
10MHz	QPSK	1	0	20.73	20.67	20.54	20.48	20.57	21.60
		1	25	20.90	20.84	20.71	20.64	20.71	21.60
		1	49	20.74	20.56	20.56	20.45	20.53	21.60
		25	0	20.79	20.78	20.63	20.49	20.60	21.60
		25	13	20.84	20.72	20.72	20.52	20.63	21.60
		25	25	20.84	20.70	20.71	20.55	20.65	21.60
		50	0	20.83	20.74	20.72	20.52	20.65	21.60
	16QAM	1	0	20.96	20.82	20.77	20.65	20.73	21.60
		1	25	21.09	21.02	20.97	20.84	20.90	21.60
		1	49	20.90	20.82	20.80	20.68	20.75	21.60
		25	0	20.87	20.76	20.66	20.56	20.62	21.60
		25	13	20.91	20.73	20.77	20.60	20.68	21.60
		25	25	20.87	20.75	20.75	20.61	20.72	21.60
		50	0	20.84	20.77	20.74	20.56	20.67	21.60
	64QAM	1	0	20.81	20.63	20.61	20.47	20.53	21.60
		1	25	20.93	20.88	20.84	20.69	20.74	21.60
		1	49	20.74	20.61	20.65	20.50	20.57	21.60
		25	0	20.35	20.26	20.16	20.03	20.09	21.60
		25	13	20.40	20.25	20.26	20.09	20.17	21.60
		25	25	20.34	20.22	20.24	20.08	20.19	21.60
		50	0	20.34	20.26	20.22	20.04	20.15	21.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/ 2503.5	40173/ 2548.3	40620/ 2593	41068/ 2637.8	41515/ 2682.5	
15MHz	QPSK	1	0	20.72	20.63	20.52	20.47	20.53	21.60
		1	38	20.88	20.83	20.68	20.62	20.70	21.60



		1	74	20.71	20.51	20.52	20.42	20.48	21.60
		36	0	20.77	20.74	20.60	20.47	20.56	21.60
		36	18	20.81	20.67	20.68	20.49	20.58	21.60
		36	39	20.81	20.67	20.67	20.52	20.62	21.60
		75	0	20.81	20.70	20.67	20.50	20.61	21.60
		1	0	20.94	20.80	20.75	20.63	20.71	21.60
		1	38	21.07	20.99	20.95	20.82	20.87	21.60
	16QAM	1	74	20.88	20.78	20.77	20.66	20.71	21.60
		36	0	20.84	20.74	20.63	20.53	20.60	21.60
		36	18	20.88	20.68	20.73	20.57	20.63	21.60
		36	39	20.85	20.71	20.72	20.59	20.68	21.60
		75	0	20.81	20.72	20.70	20.53	20.62	21.60
		1	0	20.76	20.61	20.59	20.42	20.51	21.60
		1	38	20.91	20.85	20.82	20.67	20.71	21.60
	64QAM	1	74	20.75	20.60	20.66	20.51	20.56	21.60
		36	0	20.34	20.28	20.17	20.02	20.11	21.60
		36	18	20.38	20.22	20.25	20.07	20.14	21.60
		36	39	20.32	20.18	20.21	20.06	20.15	21.60
		75	0	20.31	20.21	20.18	20.01	20.10	21.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/ 2506	40185/ 2549.5	40620/ 2593	41055/ 2636.5	41490/ 2680	
20MHz	QPSK	1	0	20.69	20.59	20.49	20.44	20.49	21.60
		1	50	20.87	20.79	20.66	20.61	20.66	21.60
		1	99	20.69	20.50	20.49	20.40	20.47	21.60
		50	0	20.74	20.69	20.56	20.44	20.51	21.60
		50	25	20.79	20.63	20.65	20.47	20.54	21.60
		50	50	20.78	20.62	20.63	20.49	20.57	21.60
		100	0	20.78	20.65	20.63	20.47	20.56	21.60
	16QAM	1	0	20.91	20.76	20.70	20.60	20.67	21.60
		1	50	21.04	20.97	20.91	20.79	20.85	21.60
		1	99	20.85	20.75	20.75	20.63	20.68	21.60
		50	0	20.81	20.70	20.60	20.50	20.56	21.60
		50	25	20.85	20.66	20.70	20.54	20.61	21.60
		50	50	20.82	20.66	20.68	20.56	20.63	21.60
		100	0	20.79	20.68	20.67	20.51	20.58	21.60
	64QAM	1	0	20.74	20.57	20.54	20.40	20.47	21.60
		1	50	20.87	20.83	20.78	20.63	20.69	21.60
		1	99	20.69	20.54	20.60	20.45	20.50	21.60
		50	0	20.29	20.20	20.10	19.97	20.03	21.60
		50	25	20.34	20.18	20.19	20.03	20.10	21.60
		50	50	20.29	20.13	20.17	20.03	20.10	21.60
		100	0	20.29	20.17	20.15	19.99	20.06	21.60



LTE Band 41									
Hotspot on				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/ 2498.5	40148/ 2545.8	40620/ 2593	41093/ 2640.3	41565/ 2687.5	
5MHz	QPSK	1	0	17.59	17.52	17.79	17.85	17.69	18.60
		1	13	17.79	17.63	17.80	17.95	17.80	18.60
		1	24	17.68	17.52	17.63	17.71	17.60	18.60
		12	0	17.63	17.54	17.72	17.78	17.66	18.60
		12	6	17.69	17.58	17.76	17.86	17.71	18.60
		12	13	17.69	17.58	17.81	17.82	17.73	18.60
		25	0	17.68	17.60	17.74	17.88	17.68	18.60
	16QAM	1	0	17.78	17.75	17.92	18.00	17.90	18.60
		1	13	18.00	17.88	18.05	18.12	18.03	18.60
		1	24	17.81	17.68	17.95	18.00	17.87	18.60
		12	0	17.70	17.57	17.83	17.86	17.78	18.60
		12	6	17.79	17.61	17.84	17.93	17.78	18.60
		12	13	17.74	17.65	17.79	17.92	17.73	18.60
		25	0	17.76	17.58	17.80	17.92	17.75	18.60
	64QAM	1	0	17.65	17.61	17.81	17.88	17.72	18.60
		1	13	17.84	17.74	17.93	17.98	17.84	18.60
		1	24	17.67	17.56	17.80	17.80	17.65	18.60
		12	0	17.68	17.52	17.81	17.80	17.78	18.60
		12	6	17.74	17.65	17.81	17.90	17.74	18.60
		12	13	17.72	17.62	17.78	17.87	17.72	18.60
		25	0	17.70	17.58	17.78	17.91	17.73	18.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/ 2501	40160/ 2547	40620/ 2593	41080/ 2639	41540/ 2685	
10MHz	QPSK	1	0	17.61	17.53	17.81	17.86	17.72	18.60
		1	25	17.82	17.68	17.83	18.00	17.84	18.60
		1	49	17.70	17.56	17.65	17.75	17.63	18.60
		25	0	17.66	17.59	17.75	17.83	17.70	18.60
		25	13	17.72	17.63	17.79	17.91	17.75	18.60
		25	25	17.71	17.62	17.83	17.86	17.78	18.60
		50	0	17.72	17.62	17.78	17.90	17.72	18.60
	16QAM	1	0	17.82	17.78	17.96	18.03	17.92	18.60
		1	25	18.04	17.92	18.09	18.16	18.06	18.60
		1	49	17.84	17.70	17.98	18.02	17.90	18.60
		25	0	17.73	17.62	17.86	17.91	17.82	18.60
		25	13	17.81	17.65	17.86	17.97	17.81	18.60
		25	25	17.77	17.70	17.82	17.97	17.77	18.60



	64QAM	50	0	17.79	17.63	17.83	17.97	17.79	18.60
		1	0	17.67	17.60	17.83	17.87	17.74	18.60
		1	25	17.87	17.74	17.96	17.98	17.87	18.60
		1	49	17.66	17.58	17.79	17.82	17.68	18.60
		25	0	17.71	17.57	17.84	17.85	17.78	18.60
		25	13	17.76	17.69	17.83	17.94	17.77	18.60
		25	25	17.75	17.67	17.81	17.92	17.76	18.60
		50	0	17.73	17.63	17.81	17.96	17.77	18.60
		50	0	17.73	17.63	17.81	17.96	17.77	18.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/ 2503.5	40173/ 2548.3	40620/ 2593	41068/ 2637.8	41515/ 2682.5	
15MHz	QPSK	1	0	17.60	17.49	17.80	17.82	17.70	18.60
		1	38	17.80	17.67	17.81	17.99	17.81	18.60
		1	74	17.67	17.51	17.62	17.70	17.59	18.60
		36	0	17.64	17.55	17.73	17.79	17.67	18.60
		36	18	17.69	17.58	17.76	17.86	17.71	18.60
		36	39	17.68	17.59	17.80	17.83	17.74	18.60
		75	0	17.70	17.58	17.76	17.86	17.67	18.60
	16QAM	1	0	17.80	17.76	17.94	18.01	17.90	18.60
		1	38	18.02	17.89	18.07	18.13	18.04	18.60
		1	74	17.82	17.66	17.96	17.98	17.87	18.60
		36	0	17.70	17.60	17.83	17.89	17.79	18.60
		36	18	17.78	17.60	17.83	17.92	17.77	18.60
		36	39	17.75	17.66	17.80	17.93	17.74	18.60
		75	0	17.76	17.58	17.80	17.92	17.75	18.60
	64QAM	1	0	17.62	17.58	17.78	17.85	17.72	18.60
		1	38	17.85	17.71	17.94	17.95	17.85	18.60
		1	74	17.67	17.57	17.80	17.81	17.69	18.60
		36	0	17.70	17.59	17.83	17.87	17.79	18.60
		36	18	17.74	17.66	17.81	17.91	17.76	18.60
		36	39	17.73	17.63	17.79	17.88	17.73	18.60
		75	0	17.70	17.58	17.78	17.91	17.73	18.60
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/ 2506	40185/ 2549.5	40620/ 2593	41055/ 2636.5	41490/ 2680	
20MHz	QPSK	1	0	17.77	17.78	17.67	17.57	17.45	18.60
		1	50	17.80	17.95	17.79	17.79	17.63	18.60
		1	99	17.60	17.69	17.56	17.65	17.50	18.60
		50	0	17.70	17.74	17.63	17.61	17.50	18.60
		50	25	17.74	17.82	17.68	17.67	17.54	18.60
		50	50	17.77	17.78	17.70	17.65	17.54	18.60
		100	0	17.73	17.81	17.63	17.67	17.53	18.60
	16QAM	1	0	17.91	17.97	17.85	17.77	17.72	18.60



		1	50	18.04	18.11	18.00	17.99	17.87	18.60
		1	99	17.93	17.95	17.85	17.79	17.63	18.60
		50	0	17.80	17.85	17.76	17.67	17.56	18.60
		50	25	17.80	17.90	17.74	17.75	17.58	18.60
		50	50	17.77	17.88	17.70	17.72	17.61	18.60
		100	0	17.78	17.88	17.72	17.74	17.54	18.60
	64QAM	1	0	17.76	17.81	17.67	17.60	17.54	18.60
		1	50	17.90	17.93	17.81	17.81	17.69	18.60
		1	99	17.74	17.75	17.63	17.61	17.51	18.60
		50	0	17.78	17.79	17.72	17.65	17.51	18.60
		50	25	17.77	17.87	17.70	17.70	17.62	18.60
		50	50	17.76	17.83	17.69	17.70	17.58	18.60
		100	0	17.76	17.87	17.70	17.68	17.54	18.60

LTE Band 66							
Receiver on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	23.04	23.00	22.95	24.50
		1	2	23.23	23.08	23.09	24.50
		1	5	22.85	22.76	22.70	24.50
		3	0	23.07	23.07	22.92	24.50
		3	2	23.06	23.08	22.96	24.50
		3	3	23.02	22.86	22.82	24.50
		6	0	22.12	22.07	21.97	23.50
	16QAM	1	0	22.26	22.33	22.31	23.50
		1	2	22.51	22.48	22.39	23.50
		1	5	22.18	22.17	22.00	23.50
		3	0	22.04	22.02	21.92	23.50
		3	2	22.10	22.05	21.95	23.50
		3	3	22.02	21.87	21.81	23.50
		6	0	21.09	21.07	20.97	22.50
	64QAM	1	0	21.17	21.15	21.08	22.50
		1	2	21.42	21.28	21.18	22.50
		1	5	21.10	21.01	20.74	22.50
		3	0	21.10	21.07	20.93	22.50
		3	2	21.11	21.04	21.01	22.50
		3	3	21.01	20.91	20.81	22.50
		6	0	20.11	20.11	19.99	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	23.06	23.04	22.98	24.50
		1	7	23.21	23.11	23.13	24.50



		1	14	22.88	22.81	22.74	24.50
		8	0	22.17	22.19	22.05	23.50
		8	4	22.18	22.18	22.08	23.50
		8	7	22.12	21.97	21.92	23.50
		15	0	22.12	22.11	22.00	23.50
	16QAM	1	0	22.26	22.35	22.34	23.50
		1	7	22.51	22.48	22.43	23.50
		1	14	22.20	22.21	22.03	23.50
		8	0	21.15	21.15	21.04	22.50
		8	4	21.21	21.18	21.07	22.50
		8	7	21.12	20.99	20.94	22.50
		15	0	21.12	21.11	21.00	22.50
	64QAM	1	0	21.20	21.17	21.11	22.50
		1	7	21.45	21.28	21.20	22.50
		1	14	21.12	21.00	20.77	22.50
		8	0	20.21	20.20	20.05	21.50
		8	4	20.22	20.17	20.13	21.50
		8	7	20.11	20.03	19.94	21.50
		15	0	20.14	20.15	20.02	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	23.03	23.02	22.94	24.50
		1	13	23.19	23.07	23.10	24.50
		1	24	22.85	22.76	22.70	24.50
		12	0	22.14	22.14	22.01	23.50
		12	6	22.16	22.14	22.03	23.50
		12	13	22.10	21.95	21.88	23.50
		25	0	22.12	22.10	21.98	23.50
	16QAM	1	0	22.26	22.31	22.31	23.50
		1	13	22.51	22.46	22.40	23.50
		1	24	22.17	22.19	21.99	23.50
		12	0	21.13	21.11	21.01	22.50
		12	6	21.18	21.13	21.03	22.50
		12	13	21.09	20.94	20.90	22.50
		25	0	21.10	21.07	20.95	22.50
	64QAM	1	0	21.17	21.17	21.08	22.50
		1	13	21.42	21.30	21.17	22.50
		1	24	21.13	20.98	20.73	22.50
		12	0	20.19	20.16	20.06	21.50
		12	6	20.19	20.12	20.09	21.50
		12	13	20.08	19.98	19.90	21.50
		25	0	20.12	20.11	19.97	21.50



Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	23.05	23.03	22.97	24.50
		1	25	23.22	23.12	23.14	24.50
		1	49	22.87	22.80	22.73	24.50
		25	0	22.17	22.19	22.05	23.50
		25	13	22.19	22.19	22.07	23.50
		25	25	22.12	21.99	21.93	23.50
		50	0	22.16	22.12	22.02	23.50
	16QAM	1	0	22.30	22.34	22.33	23.50
		1	25	22.55	22.50	22.43	23.50
		1	49	22.20	22.21	22.02	23.50
		25	0	21.16	21.16	21.05	22.50
		25	13	21.20	21.17	21.06	22.50
		25	25	21.12	20.99	20.94	22.50
		50	0	21.13	21.12	20.99	22.50
	64QAM	1	0	21.19	21.16	21.10	22.50
		1	25	21.45	21.30	21.20	22.50
		1	49	21.12	21.00	20.76	22.50
		25	0	20.22	20.21	20.06	21.50
		25	13	20.21	20.16	20.12	21.50
		25	25	20.11	20.03	19.94	21.50
		50	0	20.15	20.16	20.01	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	23.04	22.99	22.95	24.50
		1	38	23.20	23.11	23.11	24.50
		1	74	22.84	22.75	22.69	24.50
		36	0	22.15	22.15	22.02	23.50
		36	18	22.16	22.14	22.03	23.50
		36	39	22.09	21.96	21.89	23.50
		75	0	22.14	22.08	21.97	23.50
	16QAM	1	0	22.28	22.32	22.31	23.50
		1	38	22.53	22.47	22.41	23.50
		1	74	22.18	22.17	21.99	23.50
		36	0	21.13	21.14	21.02	22.50
		36	18	21.17	21.12	21.02	22.50
		36	39	21.10	20.95	20.91	22.50
		75	0	21.10	21.07	20.95	22.50
	64QAM	1	0	21.14	21.14	21.08	22.50
		1	38	21.43	21.27	21.18	22.50
		1	74	21.13	20.99	20.77	22.50
		36	0	20.21	20.23	20.07	21.50



		36	18	20.19	20.13	20.11	21.50
		36	39	20.09	19.99	19.91	21.50
		75	0	20.12	20.11	19.97	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	23.01	22.95	22.92	24.50
		1	50	23.19	23.07	23.09	24.50
		1	99	22.82	22.74	22.66	24.50
		50	0	22.12	22.10	21.98	23.50
		50	25	22.14	22.10	22.00	23.50
		50	50	22.06	21.91	21.85	23.50
		100	0	22.11	22.03	21.93	23.50
	16QAM	1	0	22.25	22.28	22.26	23.50
		1	50	22.50	22.45	22.37	23.50
		1	99	22.15	22.14	21.97	23.50
		50	0	21.10	21.10	20.99	22.50
		50	25	21.14	21.10	20.99	22.50
		50	50	21.07	20.90	20.87	22.50
		100	0	21.08	21.03	20.92	22.50
	64QAM	1	0	21.12	21.10	21.03	22.50
		1	50	21.39	21.25	21.14	22.50
		1	99	21.07	20.93	20.71	22.50
		50	0	20.16	20.15	20.00	21.50
		50	25	20.15	20.09	20.05	21.50
		50	50	20.06	19.94	19.87	21.50
		100	0	20.10	20.07	19.94	21.50

LTE Band 66							
Body SAR				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	22.14	22.05	22.00	23.50
		1	2	22.30	22.17	22.13	23.50
		1	5	21.96	21.84	21.72	23.50
		3	0	22.21	22.22	22.03	23.50
		3	2	22.21	22.16	22.11	23.50
		3	3	22.17	21.96	21.92	23.50
		6	0	22.17	22.17	22.01	23.50
	16QAM	1	0	22.36	22.31	22.36	23.50
		1	2	22.56	22.44	22.43	23.50
		1	5	22.24	22.09	22.04	23.50
		3	0	22.12	22.08	21.96	23.50
		3	2	22.15	22.07	22.02	23.50



		3	3	22.07	21.97	21.84	23.50
		6	0	21.13	21.13	21.03	22.50
	64QAM	1	0	21.30	21.28	21.21	22.50
		1	2	21.38	21.36	21.36	22.50
		1	5	21.13	21.09	20.90	22.50
		3	0	21.15	21.09	20.96	22.50
		3	2	21.18	21.12	21.05	22.50
		3	3	21.10	20.99	20.86	22.50
		6	0	20.23	20.16	20.08	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	22.16	22.09	22.03	23.50
		1	7	22.28	22.20	22.17	23.50
		1	14	21.99	21.89	21.76	23.50
		8	0	22.24	22.27	22.09	23.50
		8	4	22.26	22.19	22.16	23.50
		8	7	22.20	22.00	21.95	23.50
		15	0	22.17	22.21	22.04	23.50
	16QAM	1	0	22.36	22.33	22.39	23.50
		1	7	22.56	22.44	22.47	23.50
		1	14	22.26	22.13	22.07	23.50
		8	0	21.23	21.21	21.08	22.50
		8	4	21.26	21.20	21.14	22.50
		8	7	21.17	21.09	20.97	22.50
		15	0	21.16	21.17	21.06	22.50
	64QAM	1	0	21.33	21.30	21.24	22.50
		1	7	21.41	21.36	21.38	22.50
		1	14	21.15	21.08	20.93	22.50
		8	0	20.26	20.22	20.08	21.50
		8	4	20.29	20.25	20.17	21.50
		8	7	20.20	20.11	19.99	21.50
		15	0	20.26	20.20	20.11	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	22.13	22.07	21.99	23.50
		1	13	22.26	22.16	22.14	23.50
		1	24	21.96	21.84	21.72	23.50
		12	0	22.21	22.22	22.05	23.50
		12	6	22.24	22.15	22.11	23.50
		12	13	22.18	21.98	21.91	23.50
		25	0	22.17	22.20	22.02	23.50
	16QAM	1	0	22.36	22.29	22.36	23.50
		1	13	22.56	22.42	22.44	23.50



		1	24	22.23	22.11	22.03	23.50
		12	0	21.21	21.17	21.05	22.50
		12	6	21.23	21.15	21.10	22.50
		12	13	21.14	21.04	20.93	22.50
	64QAM	25	0	21.14	21.13	21.01	22.50
		1	0	21.30	21.30	21.21	22.50
		1	13	21.38	21.38	21.35	22.50
		1	24	21.16	21.06	20.89	22.50
		12	0	20.24	20.18	20.09	21.50
		12	6	20.26	20.20	20.13	21.50
		12	13	20.17	20.06	19.95	21.50
		25	0	20.24	20.16	20.06	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	22.15	22.08	22.02	23.50
		1	25	22.29	22.21	22.18	23.50
		1	49	21.98	21.88	21.75	23.50
		25	0	22.24	22.27	22.09	23.50
		25	13	22.27	22.20	22.15	23.50
		25	25	22.20	22.02	21.96	23.50
		50	0	22.21	22.22	22.06	23.50
	16QAM	1	0	22.40	22.32	22.38	23.50
		1	25	22.60	22.46	22.47	23.50
		1	49	22.26	22.13	22.06	23.50
		25	0	21.24	21.22	21.09	22.50
		25	13	21.25	21.19	21.13	22.50
		25	25	21.17	21.09	20.97	22.50
		50	0	21.17	21.18	21.05	22.50
	64QAM	1	0	21.32	21.29	21.23	22.50
		1	25	21.41	21.38	21.38	22.50
		1	49	21.15	21.08	20.92	22.50
		25	0	20.27	20.23	20.09	21.50
		25	13	20.28	20.24	20.16	21.50
		25	25	20.20	20.11	19.99	21.50
		50	0	20.27	20.21	20.10	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	22.14	22.04	22.00	23.50
		1	38	22.27	22.20	22.15	23.50
		1	74	21.95	21.83	21.71	23.50
		36	0	22.22	22.23	22.06	23.50
		36	18	22.24	22.15	22.11	23.50
		36	39	22.17	21.99	21.92	23.50



		75	0	22.19	22.18	22.01	23.50
		1	0	22.38	22.30	22.36	23.50
		1	38	22.58	22.43	22.45	23.50
		1	74	22.24	22.09	22.03	23.50
		36	0	21.21	21.20	21.06	22.50
		36	18	21.22	21.14	21.09	22.50
		36	39	21.15	21.05	20.94	22.50
		75	0	21.14	21.13	21.01	22.50
		1	0	21.27	21.27	21.21	22.50
		1	38	21.39	21.35	21.36	22.50
		1	74	21.16	21.07	20.93	22.50
		36	0	20.26	20.25	20.10	21.50
		36	18	20.26	20.21	20.15	21.50
		36	39	20.18	20.07	19.96	21.50
		75	0	20.24	20.16	20.06	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	22.11	22.00	21.97	23.50
		1	50	22.26	22.16	22.13	23.50
		1	99	21.93	21.82	21.68	23.50
		50	0	22.19	22.18	22.02	23.50
		50	25	22.22	22.11	22.08	23.50
		50	50	22.14	21.94	21.88	23.50
		100	0	22.16	22.13	21.97	23.50
	16QAM	1	0	22.35	22.26	22.31	23.50
		1	50	22.55	22.41	22.41	23.50
		1	99	22.21	22.06	22.01	23.50
		50	0	21.18	21.16	21.03	22.50
		50	25	21.19	21.12	21.06	22.50
		50	50	21.12	21.00	20.90	22.50
		100	0	21.12	21.09	20.98	22.50
	64QAM	1	0	21.25	21.23	21.16	22.50
		1	50	21.35	21.33	21.32	22.50
		1	99	21.10	21.01	20.87	22.50
		50	0	20.21	20.17	20.03	21.50
		50	25	20.22	20.17	20.09	21.50
		50	50	20.15	20.02	19.92	21.50
		100	0	20.22	20.12	20.03	21.50



LTE Band 66							
Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	20.64	20.65	20.58	22.10
		1	2	20.81	20.73	20.65	22.10
		1	5	20.48	20.38	20.28	22.10
		3	0	20.75	20.79	20.62	22.10
		3	2	20.74	20.72	20.64	22.10
		3	3	20.69	20.53	20.51	22.10
		6	0	20.68	20.68	20.57	22.10
	16QAM	1	0	20.93	20.95	20.91	22.10
		1	2	21.07	21.05	21.03	22.10
		1	5	20.80	20.78	20.59	22.10
		3	0	20.80	20.75	20.56	22.10
		3	2	20.79	20.70	20.67	22.10
		3	3	20.68	20.58	20.51	22.10
		6	0	20.72	20.71	20.57	22.10
	64QAM	1	0	20.82	20.86	20.87	22.10
		1	2	20.99	20.96	20.97	22.10
		1	5	20.64	20.68	20.59	22.10
		3	0	20.83	20.83	20.66	22.10
		3	2	20.84	20.82	20.76	22.10
		3	3	20.72	20.67	20.53	22.10
		6	0	20.25	20.24	20.14	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	20.61	20.61	20.55	22.10
		1	7	20.80	20.69	20.63	22.10
		1	14	20.46	20.37	20.25	22.10
		8	0	20.72	20.74	20.58	22.10
		8	4	20.72	20.68	20.61	22.10
		8	7	20.66	20.48	20.47	22.10
		15	0	20.65	20.63	20.53	22.10
	16QAM	1	0	20.90	20.91	20.86	22.10
		1	7	21.04	21.03	20.99	22.10
		1	14	20.77	20.75	20.57	22.10
		8	0	20.77	20.71	20.53	22.10
		8	4	20.76	20.68	20.64	22.10
		8	7	20.65	20.53	20.47	22.10
		15	0	20.70	20.67	20.54	22.10
	64QAM	1	0	20.80	20.82	20.82	22.10
1		7	20.95	20.94	20.93	22.10	



		1	14	20.58	20.62	20.53	22.10
		8	0	20.26	20.23	20.07	21.50
		8	4	20.28	20.26	20.18	21.50
		8	7	20.17	20.10	19.97	21.50
		15	0	20.23	20.20	20.11	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	20.58	20.59	20.51	22.10
		1	13	20.78	20.65	20.60	22.10
		1	24	20.43	20.32	20.21	22.10
		12	0	20.69	20.69	20.54	22.10
		12	6	20.70	20.64	20.56	22.10
		12	13	20.64	20.46	20.43	22.10
		25	0	20.65	20.62	20.51	22.10
	16QAM	1	0	20.90	20.87	20.83	22.10
		1	13	21.04	21.01	20.96	22.10
		1	24	20.74	20.73	20.53	22.10
		12	0	20.75	20.67	20.50	22.10
		12	6	20.73	20.63	20.60	22.10
		12	13	20.62	20.48	20.43	22.10
		25	0	20.68	20.63	20.49	22.10
	64QAM	1	0	20.77	20.82	20.79	22.10
		1	13	20.92	20.96	20.90	22.10
		1	24	20.59	20.60	20.49	22.10
		12	0	20.24	20.19	20.08	21.50
		12	6	20.25	20.21	20.14	21.50
		12	13	20.14	20.05	19.93	21.50
		25	0	20.21	20.16	20.06	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	20.60	20.60	20.54	22.10
		1	25	20.81	20.70	20.64	22.10
		1	49	20.45	20.36	20.24	22.10
		25	0	20.72	20.74	20.58	22.10
		25	13	20.73	20.69	20.60	22.10
		25	25	20.66	20.50	20.48	22.10
		50	0	20.69	20.64	20.55	22.10
	16QAM	1	0	20.94	20.90	20.85	22.10
		1	25	21.08	21.05	20.99	22.10
		1	49	20.77	20.75	20.56	22.10
		25	0	20.78	20.72	20.54	22.10
		25	13	20.75	20.67	20.63	22.10
		25	25	20.65	20.53	20.47	22.10



	64QAM	50	0	20.71	20.68	20.53	22.10
		1	0	20.79	20.81	20.81	22.10
		1	25	20.95	20.96	20.93	22.10
		1	49	20.58	20.62	20.52	22.10
		25	0	20.27	20.24	20.08	21.50
		25	13	20.27	20.25	20.17	21.50
		25	25	20.17	20.10	19.97	21.50
		50	0	20.24	20.21	20.10	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	20.59	20.56	20.52	22.10
		1	38	20.79	20.69	20.61	22.10
		1	74	20.42	20.31	20.20	22.10
		36	0	20.70	20.70	20.55	22.10
		36	18	20.70	20.64	20.56	22.10
		36	39	20.63	20.47	20.44	22.10
		75	0	20.67	20.60	20.50	22.10
	16QAM	1	0	20.92	20.88	20.83	22.10
		1	38	21.06	21.02	20.97	22.10
		1	74	20.75	20.71	20.53	22.10
		36	0	20.75	20.70	20.51	22.10
		36	18	20.72	20.62	20.59	22.10
		36	39	20.63	20.49	20.44	22.10
		75	0	20.68	20.63	20.49	22.10
	64QAM	1	0	20.74	20.79	20.79	22.10
		1	38	20.93	20.93	20.91	22.10
		1	74	20.59	20.61	20.53	22.10
		36	0	20.26	20.26	20.09	21.50
		36	18	20.25	20.22	20.16	21.50
		36	39	20.15	20.06	19.94	21.50
		75	0	20.21	20.16	20.06	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	20.56	20.52	20.49	22.10
		1	50	20.78	20.65	20.59	22.10
		1	99	20.40	20.30	20.17	22.10
		50	0	20.67	20.65	20.51	22.10
		50	25	20.68	20.60	20.53	22.10
		50	50	20.60	20.42	20.40	22.10
		100	0	20.64	20.55	20.46	22.10
	16QAM	1	0	20.89	20.84	20.78	22.10
		1	50	21.03	21.00	20.93	22.10
		1	99	20.72	20.68	20.51	22.10



		50	0	20.72	20.66	20.48	22.10
		50	25	20.69	20.60	20.56	22.10
		50	50	20.60	20.44	20.40	22.10
		100	0	20.66	20.59	20.46	22.10
	64QAM	1	0	20.72	20.75	20.74	22.10
		1	50	20.89	20.91	20.87	22.10
		1	99	20.53	20.55	20.47	22.10
		50	0	20.21	20.18	20.02	21.50
		50	25	20.21	20.18	20.10	21.50
		50	50	20.12	20.01	19.90	21.50
		100	0	20.19	20.12	20.03	21.50



Div - Antenna

LTE Band 2							
Body SAR				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	21.52	21.65	21.51	22.50
		1	2	21.68	21.77	21.60	22.50
		1	5	21.40	21.40	21.38	22.50
		3	0	21.59	21.83	21.55	22.50
		3	2	21.65	21.71	21.59	22.50
		3	3	21.69	21.50	21.25	22.50
		6	0	21.58	21.68	21.39	22.50
	16QAM	1	0	21.80	21.90	21.75	22.50
		1	2	21.95	22.04	21.85	22.50
		1	5	21.71	21.77	21.56	22.50
		3	0	21.61	21.80	21.49	22.50
		3	2	21.69	21.71	21.58	22.50
		3	3	21.70	21.57	21.31	22.50
		6	0	21.58	21.68	21.37	22.50
	64QAM	1	0	21.67	21.79	21.68	22.50
		1	2	21.83	21.93	21.82	22.50
		1	5	21.53	21.65	21.59	22.50
		3	0	21.56	21.78	21.50	22.50
		3	2	21.65	21.68	21.61	22.50
		3	3	21.61	21.52	21.23	22.50
		6	0	20.63	20.73	20.43	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	21.49	21.61	21.48	22.50
		1	7	21.67	21.73	21.58	22.50
		1	14	21.38	21.39	21.35	22.50
		8	0	21.56	21.78	21.51	22.50
		8	4	21.63	21.67	21.56	22.50
		8	7	21.66	21.45	21.21	22.50
		15	0	21.55	21.63	21.35	22.50
	16QAM	1	0	21.77	21.86	21.70	22.50
		1	7	21.92	22.02	21.81	22.50
		1	14	21.68	21.74	21.54	22.50
		8	0	21.58	21.76	21.46	22.50
		8	4	21.66	21.69	21.55	22.50
		8	7	21.67	21.52	21.27	22.50
		15	0	21.56	21.64	21.34	22.50
	64QAM	1	0	21.65	21.75	21.63	22.50



		1	7	21.79	21.91	21.78	22.50
		1	14	21.47	21.59	21.53	22.50
		8	0	20.59	20.78	20.51	21.50
		8	4	20.69	20.72	20.63	21.50
		8	7	20.66	20.55	20.27	21.50
		15	0	20.61	20.69	20.40	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	21.46	21.59	21.44	22.50
		1	13	21.65	21.69	21.55	22.50
		1	24	21.35	21.34	21.31	22.50
		12	0	21.53	21.73	21.47	22.50
		12	6	21.61	21.63	21.51	22.50
		12	13	21.64	21.43	21.17	22.50
		25	0	21.55	21.62	21.33	22.50
	16QAM	1	0	21.77	21.82	21.67	22.50
		1	13	21.92	22.00	21.78	22.50
		1	24	21.65	21.72	21.50	22.50
		12	0	21.56	21.72	21.43	22.50
		12	6	21.63	21.64	21.51	22.50
		12	13	21.64	21.47	21.23	22.50
		25	0	21.54	21.60	21.29	22.50
	64QAM	1	0	21.62	21.75	21.60	22.50
		1	13	21.76	21.93	21.75	22.50
		1	24	21.48	21.57	21.49	22.50
		12	0	20.57	20.74	20.52	21.50
		12	6	20.66	20.67	20.59	21.50
		12	13	20.63	20.50	20.23	21.50
		25	0	20.59	20.65	20.35	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	21.48	21.60	21.47	22.50
		1	25	21.68	21.74	21.59	22.50
		1	49	21.37	21.38	21.34	22.50
		25	0	21.56	21.78	21.51	22.50
		25	13	21.64	21.68	21.55	22.50
		25	25	21.66	21.47	21.22	22.50
		50	0	21.59	21.64	21.37	22.50
	16QAM	1	0	21.81	21.85	21.69	22.50
		1	25	21.96	22.04	21.81	22.50
		1	49	21.68	21.74	21.53	22.50
		25	0	21.59	21.77	21.47	22.50
		25	13	21.65	21.68	21.54	22.50



		25	25	21.67	21.52	21.27	22.50
		50	0	21.57	21.65	21.33	22.50
	64QAM	1	0	21.64	21.74	21.62	22.50
		1	25	21.79	21.93	21.78	22.50
		1	49	21.47	21.59	21.52	22.50
		25	0	20.60	20.79	20.52	21.50
		25	13	20.68	20.71	20.62	21.50
		25	25	20.66	20.55	20.27	21.50
		50	0	20.62	20.70	20.39	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	21.47	21.56	21.45	22.50
		1	38	21.66	21.73	21.56	22.50
		1	74	21.34	21.33	21.30	22.50
		36	0	21.54	21.74	21.48	22.50
		36	18	21.61	21.63	21.51	22.50
		36	39	21.63	21.44	21.18	22.50
		75	0	21.57	21.60	21.32	22.50
	16QAM	1	0	21.79	21.83	21.67	22.50
		1	38	21.94	22.01	21.79	22.50
		1	74	21.66	21.70	21.50	22.50
		36	0	21.56	21.75	21.44	22.50
		36	18	21.62	21.63	21.50	22.50
		36	39	21.65	21.48	21.24	22.50
		75	0	21.54	21.60	21.29	22.50
	64QAM	1	0	21.59	21.72	21.60	22.50
		1	38	21.77	21.90	21.76	22.50
		1	74	21.48	21.58	21.53	22.50
		36	0	20.59	20.81	20.53	21.50
		36	18	20.66	20.68	20.61	21.50
		36	39	20.64	20.51	20.24	21.50
		75	0	20.59	20.65	20.35	21.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	21.44	21.52	21.42	22.50
		1	50	21.65	21.69	21.54	22.50
		1	99	21.32	21.32	21.27	22.50
		50	0	21.51	21.69	21.44	22.50
		50	25	21.59	21.59	21.48	22.50
		50	50	21.60	21.39	21.14	22.50
		100	0	21.54	21.55	21.28	22.50
	16QAM	1	0	21.76	21.79	21.62	22.50
		1	50	21.91	21.99	21.75	22.50



		1	99	21.63	21.67	21.48	22.50
		50	0	21.53	21.71	21.41	22.50
		50	25	21.59	21.61	21.47	22.50
		50	50	21.62	21.43	21.20	22.50
		100	0	21.52	21.56	21.26	22.50
	64QAM	1	0	21.57	21.68	21.55	22.50
		1	50	21.73	21.88	21.72	22.50
		1	99	21.42	21.52	21.47	22.50
		50	0	20.54	20.73	20.46	21.50
		50	25	20.62	20.64	20.55	21.50
		50	50	20.61	20.46	20.20	21.50
		100	0	20.57	20.61	20.32	21.50

LTE Band 2							
Receiver on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	19.13	19.14	19.01	20.00
		1	2	19.26	19.33	19.18	20.00
		1	5	19.01	18.95	18.93	20.00
		3	0	19.13	19.33	19.06	20.00
		3	2	19.18	19.26	19.15	20.00
		3	3	19.19	19.07	18.77	20.00
		6	0	19.11	19.22	18.93	20.00
	16QAM	1	0	19.40	19.50	19.31	20.00
		1	2	19.54	19.67	19.42	20.00
		1	5	19.33	19.27	19.15	20.00
		3	0	19.13	19.34	19.05	20.00
		3	2	19.26	19.24	19.18	20.00
		3	3	19.27	19.12	18.80	20.00
		6	0	19.19	19.25	18.93	20.00
	64QAM	1	0	19.37	19.30	19.29	20.00
		1	2	19.40	19.53	19.51	20.00
		1	5	19.21	19.25	19.21	20.00
		3	0	19.19	19.38	19.10	20.00
		3	2	19.25	19.30	19.19	20.00
		3	3	19.24	19.12	18.81	20.00
		6	0	19.16	19.24	18.95	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	19.10	19.10	18.98	20.00
		1	7	19.25	19.29	19.16	20.00
		1	14	18.99	18.94	18.90	20.00



		8	0	19.10	19.28	19.02	20.00
		8	4	19.16	19.22	19.12	20.00
		8	7	19.16	19.02	18.73	20.00
		15	0	19.08	19.17	18.89	20.00
	16QAM	1	0	19.37	19.46	19.26	20.00
		1	7	19.51	19.65	19.38	20.00
		1	14	19.30	19.24	19.13	20.00
		8	0	19.10	19.30	19.02	20.00
		8	4	19.23	19.22	19.15	20.00
		8	7	19.24	19.07	18.76	20.00
		15	0	19.17	19.21	18.90	20.00
	64QAM	1	0	19.35	19.26	19.24	20.00
		1	7	19.36	19.51	19.47	20.00
		1	14	19.15	19.19	19.15	20.00
		8	0	19.14	19.30	19.03	20.00
		8	4	19.21	19.26	19.13	20.00
		8	7	19.21	19.07	18.77	20.00
		15	0	19.14	19.20	18.92	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	19.07	19.08	18.94	20.00
		1	13	19.23	19.25	19.13	20.00
		1	24	18.96	18.89	18.86	20.00
		12	0	19.07	19.23	18.98	20.00
		12	6	19.14	19.18	19.07	20.00
		12	13	19.14	19.00	18.69	20.00
		25	0	19.08	19.16	18.87	20.00
	16QAM	1	0	19.37	19.42	19.23	20.00
		1	13	19.51	19.63	19.35	20.00
		1	24	19.27	19.22	19.09	20.00
		12	0	19.08	19.26	18.99	20.00
		12	6	19.20	19.17	19.11	20.00
		12	13	19.21	19.02	18.72	20.00
		25	0	19.15	19.17	18.85	20.00
	64QAM	1	0	19.32	19.26	19.21	20.00
		1	13	19.33	19.53	19.44	20.00
		1	24	19.16	19.17	19.11	20.00
		12	0	19.12	19.26	19.04	20.00
		12	6	19.18	19.21	19.09	20.00
		12	13	19.18	19.02	18.73	20.00
		25	0	19.12	19.16	18.87	20.00



Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	19.09	19.09	18.97	20.00
		1	25	19.26	19.30	19.17	20.00
		1	49	18.98	18.93	18.89	20.00
		25	0	19.10	19.28	19.02	20.00
		25	13	19.17	19.23	19.11	20.00
		25	25	19.16	19.04	18.74	20.00
		50	0	19.12	19.18	18.91	20.00
	16QAM	1	0	19.41	19.45	19.25	20.00
		1	25	19.55	19.67	19.38	20.00
		1	49	19.30	19.24	19.12	20.00
		25	0	19.11	19.31	19.03	20.00
		25	13	19.22	19.21	19.14	20.00
		25	25	19.24	19.07	18.76	20.00
		50	0	19.18	19.22	18.89	20.00
	64QAM	1	0	19.34	19.25	19.23	20.00
		1	25	19.36	19.53	19.47	20.00
		1	49	19.15	19.19	19.14	20.00
		25	0	19.15	19.31	19.04	20.00
		25	13	19.20	19.25	19.12	20.00
		25	25	19.21	19.07	18.77	20.00
		50	0	19.15	19.21	18.91	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	19.08	19.05	18.95	20.00
		1	38	19.24	19.29	19.14	20.00
		1	74	18.95	18.88	18.85	20.00
		36	0	19.08	19.24	18.99	20.00
		36	18	19.14	19.18	19.07	20.00
		36	39	19.13	19.01	18.70	20.00
		75	0	19.10	19.14	18.86	20.00
	16QAM	1	0	19.39	19.43	19.23	20.00
		1	38	19.53	19.64	19.36	20.00
		1	74	19.28	19.20	19.09	20.00
		36	0	19.08	19.29	19.00	20.00
		36	18	19.19	19.16	19.10	20.00
		36	39	19.22	19.03	18.73	20.00
		75	0	19.15	19.17	18.85	20.00
	64QAM	1	0	19.29	19.23	19.21	20.00
		1	38	19.34	19.50	19.45	20.00
		1	74	19.16	19.18	19.15	20.00
		36	0	19.14	19.33	19.05	20.00



		36	18	19.18	19.22	19.11	20.00
		36	39	19.19	19.03	18.74	20.00
		75	0	19.12	19.16	18.87	20.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	19.05	19.01	18.92	20.00
		1	50	19.23	19.25	19.12	20.00
		1	99	18.93	18.87	18.82	20.00
		50	0	19.05	19.19	18.95	20.00
		50	25	19.12	19.14	19.04	20.00
		50	50	19.10	18.96	18.66	20.00
		100	0	19.07	19.09	18.82	20.00
	16QAM	1	0	19.36	19.39	19.18	20.00
		1	50	19.50	19.62	19.32	20.00
		1	99	19.25	19.17	19.07	20.00
		50	0	19.05	19.25	18.97	20.00
		50	25	19.16	19.14	19.07	20.00
		50	50	19.19	18.98	18.69	20.00
		100	0	19.13	19.13	18.82	20.00
	64QAM	1	0	19.27	19.19	19.16	20.00
		1	50	19.30	19.48	19.41	20.00
		1	99	19.10	19.12	19.09	20.00
		50	0	19.09	19.25	18.98	20.00
		50	25	19.14	19.18	19.05	20.00
		50	50	19.16	18.98	18.70	20.00
		100	0	19.10	19.12	18.84	20.00

LTE Band 2							
Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	16.61	16.86	16.73	17.50
		1	2	16.78	16.90	16.68	17.50
		1	5	16.55	16.52	16.42	17.50
		3	0	16.67	16.87	16.60	17.50
		3	2	16.77	16.78	16.70	17.50
		3	3	16.75	16.59	16.29	17.50
		6	0	16.69	16.75	16.45	17.50
	16QAM	1	0	16.94	17.06	16.97	17.50
		1	2	17.06	17.19	17.04	17.50
		1	5	16.83	16.90	16.79	17.50
		3	0	16.72	16.89	16.61	17.50
		3	2	16.80	16.83	16.72	17.50



		3	3	16.81	16.66	16.35	17.50
		6	0	16.73	16.77	16.49	17.50
	64QAM	1	0	16.78	16.96	16.90	17.50
		1	2	17.02	17.03	17.07	17.50
		1	5	16.68	16.77	16.77	17.50
		3	0	16.76	16.91	16.62	17.50
		3	2	16.82	16.85	16.75	17.50
		3	3	16.81	16.66	16.35	17.50
		6	0	16.72	16.78	16.50	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	16.58	16.82	16.70	17.50
		1	7	16.77	16.86	16.66	17.50
		1	14	16.53	16.51	16.39	17.50
		8	0	16.64	16.82	16.56	17.50
		8	4	16.75	16.74	16.67	17.50
		8	7	16.72	16.54	16.25	17.50
		15	0	16.66	16.70	16.41	17.50
	16QAM	1	0	16.91	17.02	16.92	17.50
		1	7	17.03	17.17	17.00	17.50
		1	14	16.80	16.87	16.77	17.50
		8	0	16.69	16.85	16.58	17.50
		8	4	16.77	16.81	16.69	17.50
		8	7	16.78	16.61	16.31	17.50
		15	0	16.71	16.73	16.46	17.50
	64QAM	1	0	16.76	16.92	16.85	17.50
		1	7	16.98	17.01	17.03	17.50
		1	14	16.62	16.71	16.71	17.50
		8	0	16.71	16.83	16.55	17.50
		8	4	16.78	16.81	16.69	17.50
		8	7	16.78	16.61	16.31	17.50
		15	0	16.70	16.74	16.47	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	16.55	16.80	16.66	17.50
		1	13	16.75	16.82	16.63	17.50
		1	24	16.50	16.46	16.35	17.50
		12	0	16.61	16.77	16.52	17.50
		12	6	16.73	16.70	16.62	17.50
		12	13	16.70	16.52	16.21	17.50
		25	0	16.66	16.69	16.39	17.50
	16QAM	1	0	16.91	16.98	16.89	17.50
		1	13	17.03	17.15	16.97	17.50



		1	24	16.77	16.85	16.73	17.50
		12	0	16.67	16.81	16.55	17.50
		12	6	16.74	16.76	16.65	17.50
		12	13	16.75	16.56	16.27	17.50
		25	0	16.69	16.69	16.41	17.50
	64QAM	1	0	16.73	16.92	16.82	17.50
		1	13	16.95	17.03	17.00	17.50
		1	24	16.63	16.69	16.67	17.50
		12	0	16.69	16.79	16.56	17.50
		12	6	16.75	16.76	16.65	17.50
		12	13	16.75	16.56	16.27	17.50
		25	0	16.68	16.70	16.42	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	16.57	16.81	16.69	17.50
		1	25	16.78	16.87	16.67	17.50
		1	49	16.52	16.50	16.38	17.50
		25	0	16.64	16.82	16.56	17.50
		25	13	16.76	16.75	16.66	17.50
		25	25	16.72	16.56	16.26	17.50
		50	0	16.70	16.71	16.43	17.50
	16QAM	1	0	16.95	17.01	16.91	17.50
		1	25	17.07	17.19	17.00	17.50
		1	49	16.80	16.87	16.76	17.50
		25	0	16.70	16.86	16.59	17.50
		25	13	16.76	16.80	16.68	17.50
		25	25	16.78	16.61	16.31	17.50
		50	0	16.72	16.74	16.45	17.50
	64QAM	1	0	16.75	16.91	16.84	17.50
		1	25	16.98	17.03	17.03	17.50
		1	49	16.62	16.71	16.70	17.50
		25	0	16.72	16.84	16.56	17.50
		25	13	16.77	16.80	16.68	17.50
		25	25	16.78	16.61	16.31	17.50
		50	0	16.71	16.75	16.46	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	16.56	16.77	16.67	17.50
		1	38	16.76	16.86	16.64	17.50
		1	74	16.49	16.45	16.34	17.50
		36	0	16.62	16.78	16.53	17.50
		36	18	16.73	16.70	16.62	17.50
		36	39	16.69	16.53	16.22	17.50



	16QAM	75	0	16.68	16.67	16.38	17.50
		1	0	16.93	16.99	16.89	17.50
		1	38	17.05	17.16	16.98	17.50
		1	74	16.78	16.83	16.73	17.50
		36	0	16.67	16.84	16.56	17.50
		36	18	16.73	16.75	16.64	17.50
		36	39	16.76	16.57	16.28	17.50
		75	0	16.69	16.69	16.41	17.50
	64QAM	1	0	16.70	16.89	16.82	17.50
		1	38	16.96	17.00	17.01	17.50
		1	74	16.63	16.70	16.71	17.50
		36	0	16.71	16.86	16.57	17.50
		36	18	16.75	16.77	16.67	17.50
		36	39	16.76	16.57	16.28	17.50
		75	0	16.68	16.70	16.42	17.50
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	16.53	16.73	16.64	17.50
		1	50	16.75	16.82	16.62	17.50
		1	99	16.47	16.44	16.31	17.50
		50	0	16.59	16.73	16.49	17.50
		50	25	16.71	16.66	16.59	17.50
		50	50	16.66	16.48	16.18	17.50
		100	0	16.65	16.62	16.34	17.50
	16QAM	1	0	16.90	16.95	16.84	17.50
		1	50	17.02	17.14	16.94	17.50
		1	99	16.75	16.80	16.71	17.50
		50	0	16.64	16.80	16.53	17.50
		50	25	16.70	16.73	16.61	17.50
		50	50	16.73	16.52	16.24	17.50
		100	0	16.67	16.65	16.38	17.50
	64QAM	1	0	16.68	16.85	16.77	17.50
		1	50	16.92	16.98	16.97	17.50
		1	99	16.57	16.64	16.65	17.50
		50	0	16.66	16.78	16.50	17.50
		50	25	16.71	16.73	16.61	17.50
		50	50	16.73	16.52	16.24	17.50
		100	0	16.66	16.66	16.39	17.50



LTE Band 4							
Body SAR				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	20.80	20.86	20.95	21.50
		1	2	20.83	20.94	21.10	21.50
		1	5	20.68	20.85	21.03	21.50
		3	0	20.94	20.87	21.04	21.50
		3	2	20.79	21.01	21.20	21.50
		3	3	20.82	21.11	21.09	21.50
		6	0	20.86	20.95	21.08	21.50
	16QAM	1	0	21.11	21.09	21.35	21.50
		1	2	21.13	21.05	21.46	21.50
		1	5	21.05	21.19	21.27	21.50
		3	0	20.99	20.85	21.03	21.50
		3	2	20.89	20.92	21.18	21.50
		3	3	20.88	21.12	21.12	21.50
		6	0	20.95	20.92	21.08	21.50
	64QAM	1	0	20.99	20.91	21.15	21.50
		1	2	21.01	20.84	21.27	21.50
		1	5	20.87	20.97	21.17	21.50
		3	0	21.17	21.04	21.24	21.50
		3	2	21.11	21.12	21.37	21.50
		3	3	21.08	21.28	21.25	21.50
		6	0	20.44	20.42	20.58	20.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	20.77	20.82	20.92	21.50
		1	7	20.82	20.90	21.08	21.50
		1	14	20.66	20.84	21.00	21.50
		8	0	20.91	20.82	21.00	21.50
		8	4	20.77	20.97	21.17	21.50
		8	7	20.79	21.06	21.05	21.50
		15	0	20.83	20.90	21.04	21.50
	16QAM	1	0	21.08	21.05	21.30	21.50
		1	7	21.10	21.03	21.42	21.50
		1	14	21.02	21.16	21.25	21.50
		8	0	20.96	20.81	21.00	21.50
		8	4	20.86	20.90	21.15	21.50
		8	7	20.85	21.07	21.08	21.50
		15	0	20.93	20.88	21.05	21.50
	64QAM	1	0	20.97	20.87	21.10	21.50
1		7	20.97	20.82	21.23	21.50	



		1	14	20.81	20.91	21.11	21.50
		8	0	20.44	20.28	20.49	20.90
		8	4	20.39	20.40	20.63	20.90
		8	7	20.37	20.55	20.53	20.90
		15	0	20.42	20.38	20.55	20.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	20.74	20.80	20.88	21.50
		1	13	20.80	20.86	21.05	21.50
		1	24	20.63	20.79	20.96	21.50
		12	0	20.88	20.77	20.96	21.50
		12	6	20.75	20.93	21.12	21.50
		12	13	20.77	21.04	21.01	21.50
		25	0	20.83	20.89	21.02	21.50
	16QAM	1	0	21.08	21.01	21.27	21.50
		1	13	21.10	21.01	21.39	21.50
		1	24	20.99	21.14	21.21	21.50
		12	0	20.94	20.77	20.97	21.50
		12	6	20.83	20.85	21.11	21.50
		12	13	20.82	21.02	21.04	21.50
		25	0	20.91	20.84	21.00	21.50
	64QAM	1	0	20.94	20.87	21.07	21.50
		1	13	20.94	20.84	21.20	21.50
		1	24	20.82	20.89	21.07	21.50
		12	0	20.42	20.24	20.50	20.90
		12	6	20.36	20.35	20.59	20.90
		12	13	20.34	20.50	20.49	20.90
		25	0	20.40	20.34	20.50	20.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	20.76	20.81	20.91	21.50
		1	25	20.83	20.91	21.09	21.50
		1	49	20.65	20.83	20.99	21.50
		25	0	20.91	20.82	21.00	21.50
		25	13	20.78	20.98	21.16	21.50
		25	25	20.79	21.08	21.06	21.50
		50	0	20.87	20.91	21.06	21.50
	16QAM	1	0	21.12	21.04	21.29	21.50
		1	25	21.14	21.05	21.42	21.50
		1	49	21.02	21.16	21.24	21.50
		25	0	20.97	20.82	21.01	21.50
		25	13	20.85	20.89	21.14	21.50
		25	25	20.85	21.07	21.08	21.50



	64QAM	50	0	20.94	20.89	21.04	21.50
		1	0	20.96	20.86	21.09	21.50
		1	25	20.97	20.84	21.23	21.50
		1	49	20.81	20.91	21.10	21.50
		25	0	20.45	20.29	20.50	20.90
		25	13	20.38	20.39	20.62	20.90
		25	25	20.37	20.55	20.53	20.90
		50	0	20.43	20.39	20.54	20.90
		50	0	20.43	20.39	20.54	20.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	20.75	20.77	20.89	21.50
		1	38	20.81	20.90	21.06	21.50
		1	74	20.62	20.78	20.95	21.50
		36	0	20.89	20.78	20.97	21.50
		36	18	20.75	20.93	21.12	21.50
		36	39	20.76	21.05	21.02	21.50
		75	0	20.85	20.87	21.01	21.50
	16QAM	1	0	21.10	21.02	21.27	21.50
		1	38	21.12	21.02	21.40	21.50
		1	74	21.00	21.12	21.21	21.50
		36	0	20.94	20.80	20.98	21.50
		36	18	20.82	20.84	21.10	21.50
		36	39	20.83	21.03	21.05	21.50
		75	0	20.91	20.84	21.00	21.50
	64QAM	1	0	20.91	20.84	21.07	21.50
		1	38	20.95	20.81	21.21	21.50
		1	74	20.82	20.90	21.11	21.50
		36	0	20.44	20.31	20.51	20.90
		36	18	20.36	20.36	20.61	20.90
		36	39	20.35	20.51	20.50	20.90
		75	0	20.40	20.34	20.50	20.90
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	20.72	20.73	20.86	21.50
		1	50	20.80	20.86	21.04	21.50
		1	99	20.60	20.77	20.92	21.50
		50	0	20.86	20.73	20.93	21.50
		50	25	20.73	20.89	21.09	21.50
		50	50	20.73	21.00	20.98	21.50
		100	0	20.82	20.82	20.97	21.50
	16QAM	1	0	21.07	20.98	21.22	21.50
		1	50	21.09	21.00	21.36	21.50
		1	99	20.97	21.09	21.19	21.50
		1	99	20.97	21.09	21.19	21.50



		50	0	20.91	20.76	20.95	21.50
		50	25	20.79	20.82	21.07	21.50
		50	50	20.80	20.98	21.01	21.50
		100	0	20.89	20.80	20.97	21.50
	64QAM	1	0	20.89	20.80	21.02	21.50
		1	50	20.91	20.79	21.17	21.50
		1	99	20.76	20.84	21.05	21.50
		50	0	20.39	20.23	20.44	20.90
		50	25	20.32	20.32	20.55	20.90
		50	50	20.32	20.46	20.46	20.90
		100	0	20.38	20.30	20.47	20.90

LTE Band 4							
Receiver on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	18.28	18.29	18.37	18.80
		1	2	18.20	18.34	18.58	18.80
		1	5	18.18	18.28	18.33	18.80
		3	0	18.47	18.32	18.50	18.80
		3	2	18.26	18.44	18.63	18.80
		3	3	18.30	18.57	18.46	18.80
		6	0	18.34	18.42	18.53	18.80
	16QAM	1	0	18.47	18.41	18.64	18.80
		1	2	18.36	18.44	18.77	18.80
		1	5	18.31	18.49	18.53	18.80
		3	0	18.40	18.26	18.43	18.80
		3	2	18.31	18.37	18.59	18.80
		3	3	18.26	18.51	18.43	18.80
		6	0	18.31	18.35	18.48	18.80
	64QAM	1	0	18.24	18.21	18.49	18.80
		1	2	18.19	18.18	18.70	18.80
		1	5	18.09	18.32	18.46	18.80
		3	0	18.40	18.27	18.47	18.80
		3	2	18.32	18.37	18.60	18.80
		3	3	18.22	18.51	18.43	18.80
		6	0	18.29	18.34	18.48	18.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	18.25	18.25	18.34	18.80
		1	7	18.19	18.30	18.56	18.80
		1	14	18.16	18.27	18.30	18.80
		8	0	18.44	18.27	18.46	18.80



		8	4	18.24	18.40	18.60	18.80
		8	7	18.27	18.52	18.42	18.80
		15	0	18.31	18.37	18.49	18.80
	16QAM	1	0	18.44	18.37	18.59	18.80
		1	7	18.33	18.42	18.73	18.80
		1	14	18.28	18.46	18.51	18.80
		8	0	18.37	18.22	18.40	18.80
		8	4	18.28	18.35	18.56	18.80
		8	7	18.23	18.46	18.39	18.80
		15	0	18.29	18.31	18.45	18.80
	64QAM	1	0	18.22	18.17	18.44	18.80
		1	7	18.15	18.16	18.66	18.80
		1	14	18.03	18.26	18.40	18.80
		8	0	18.35	18.19	18.40	18.80
		8	4	18.28	18.33	18.54	18.80
		8	7	18.19	18.46	18.39	18.80
		15	0	18.27	18.30	18.45	18.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	18.22	18.23	18.30	18.80
		1	13	18.17	18.26	18.53	18.80
		1	24	18.13	18.22	18.26	18.80
		12	0	18.41	18.22	18.42	18.80
		12	6	18.22	18.36	18.55	18.80
		12	13	18.25	18.50	18.38	18.80
		25	0	18.31	18.36	18.47	18.80
	16QAM	1	0	18.44	18.33	18.56	18.80
		1	13	18.33	18.40	18.70	18.80
		1	24	18.25	18.44	18.47	18.80
		12	0	18.35	18.18	18.37	18.80
		12	6	18.25	18.30	18.52	18.80
		12	13	18.20	18.41	18.35	18.80
		25	0	18.27	18.27	18.40	18.80
	64QAM	1	0	18.19	18.17	18.41	18.80
		1	13	18.12	18.18	18.63	18.80
		1	24	18.04	18.24	18.36	18.80
		12	0	18.33	18.15	18.41	18.80
		12	6	18.25	18.28	18.50	18.80
		12	13	18.16	18.41	18.35	18.80
		25	0	18.25	18.26	18.40	18.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	18.24	18.24	18.33	18.80



		1	25	18.20	18.31	18.57	18.80
		1	49	18.15	18.26	18.29	18.80
		25	0	18.44	18.27	18.46	18.80
		25	13	18.25	18.41	18.59	18.80
		25	25	18.27	18.54	18.43	18.80
		50	0	18.35	18.38	18.51	18.80
	16QAM	1	0	18.48	18.36	18.58	18.80
		1	25	18.37	18.44	18.73	18.80
		1	49	18.28	18.46	18.50	18.80
		25	0	18.38	18.23	18.41	18.80
		25	13	18.27	18.34	18.55	18.80
		25	25	18.23	18.46	18.39	18.80
		50	0	18.30	18.32	18.44	18.80
	64QAM	1	0	18.21	18.16	18.43	18.80
		1	25	18.15	18.18	18.66	18.80
		1	49	18.03	18.26	18.39	18.80
		25	0	18.36	18.20	18.41	18.80
		25	13	18.27	18.32	18.53	18.80
		25	25	18.19	18.46	18.39	18.80
		50	0	18.28	18.31	18.44	18.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	18.23	18.20	18.31	18.80
		1	38	18.18	18.30	18.54	18.80
		1	74	18.12	18.21	18.25	18.80
		36	0	18.42	18.23	18.43	18.80
		36	18	18.22	18.36	18.55	18.80
		36	39	18.24	18.51	18.39	18.80
		75	0	18.33	18.34	18.46	18.80
	16QAM	1	0	18.46	18.34	18.56	18.80
		1	38	18.35	18.41	18.71	18.80
		1	74	18.26	18.42	18.47	18.80
		36	0	18.35	18.21	18.38	18.80
		36	18	18.24	18.29	18.51	18.80
		36	39	18.21	18.42	18.36	18.80
		75	0	18.27	18.27	18.40	18.80
	64QAM	1	0	18.16	18.14	18.41	18.80
		1	38	18.13	18.15	18.64	18.80
		1	74	18.04	18.25	18.40	18.80
		36	0	18.35	18.22	18.42	18.80
		36	18	18.25	18.29	18.52	18.80
		36	39	18.17	18.42	18.36	18.80
		75	0	18.25	18.26	18.40	18.80



Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	18.20	18.16	18.28	18.80
		1	50	18.17	18.26	18.52	18.80
		1	99	18.10	18.20	18.22	18.80
		50	0	18.39	18.18	18.39	18.80
		50	25	18.20	18.32	18.52	18.80
		50	50	18.21	18.46	18.35	18.80
		100	0	18.30	18.29	18.42	18.80
	16QAM	1	0	18.43	18.30	18.51	18.80
		1	50	18.32	18.39	18.67	18.80
		1	99	18.23	18.39	18.45	18.80
		50	0	18.32	18.17	18.35	18.80
		50	25	18.21	18.27	18.48	18.80
		50	50	18.18	18.37	18.32	18.80
		100	0	18.25	18.23	18.37	18.80
	64QAM	1	0	18.14	18.10	18.36	18.80
		1	50	18.09	18.13	18.60	18.80
		1	99	17.98	18.19	18.34	18.80
		50	0	18.30	18.14	18.35	18.80
		50	25	18.21	18.25	18.46	18.80
		50	50	18.14	18.37	18.32	18.80
		100	0	18.23	18.22	18.37	18.80

LTE Band 4							
Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	16.13	16.35	16.38	16.80
		1	2	16.14	16.21	16.44	16.80
		1	5	16.03	16.21	16.37	16.80
		3	0	16.33	16.29	16.43	16.80
		3	2	16.21	16.38	16.58	16.80
		3	3	16.23	16.49	16.49	16.80
		6	0	16.24	16.37	16.45	16.80
	16QAM	1	0	16.27	16.26	16.44	16.80
		1	2	16.20	16.25	16.62	16.80
		1	5	16.14	16.34	16.41	16.80
		3	0	16.30	16.18	16.33	16.80
		3	2	16.22	16.28	16.50	16.80
		3	3	16.15	16.45	16.44	16.80
		6	0	16.21	16.28	16.40	16.80
	64QAM	1	0	16.22	16.11	16.29	16.80



		1	2	16.10	16.07	16.48	16.80
		1	5	16.03	16.12	16.31	16.80
		3	0	16.32	16.11	16.37	16.80
		3	2	16.20	16.32	16.52	16.80
		3	3	16.13	16.44	16.43	16.80
		6	0	16.22	16.24	16.37	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	16.09	16.27	16.33	16.80
		1	7	16.11	16.16	16.39	16.80
		1	14	15.98	16.15	16.30	16.80
		8	0	16.28	16.20	16.36	16.80
		8	4	16.16	16.29	16.51	16.80
		8	7	16.17	16.41	16.41	16.80
		15	0	16.19	16.28	16.36	16.80
	16QAM	1	0	16.22	16.20	16.37	16.80
		1	7	16.15	16.20	16.56	16.80
		1	14	16.09	16.27	16.36	16.80
		8	0	16.24	16.12	16.27	16.80
		8	4	16.16	16.21	16.43	16.80
		8	7	16.10	16.36	16.37	16.80
		15	0	16.16	16.19	16.33	16.80
	64QAM	1	0	16.15	16.05	16.22	16.80
		1	7	16.04	16.02	16.42	16.80
		1	14	15.98	16.05	16.26	16.80
		8	0	16.26	16.05	16.31	16.80
		8	4	16.14	16.25	16.45	16.80
		8	7	16.08	16.35	16.36	16.80
		15	0	16.17	16.15	16.30	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	16.06	16.25	16.29	16.80
		1	13	16.09	16.12	16.36	16.80
		1	24	15.95	16.10	16.26	16.80
		12	0	16.25	16.15	16.32	16.80
		12	6	16.14	16.25	16.46	16.80
		12	13	16.15	16.39	16.37	16.80
		25	0	16.19	16.27	16.34	16.80
	16QAM	1	0	16.22	16.16	16.34	16.80
		1	13	16.15	16.18	16.53	16.80
		1	24	16.06	16.25	16.32	16.80
		12	0	16.22	16.08	16.24	16.80
		12	6	16.13	16.16	16.39	16.80



		12	13	16.07	16.31	16.33	16.80
		25	0	16.14	16.15	16.28	16.80
	64QAM	1	0	16.12	16.05	16.19	16.80
		1	13	16.01	16.04	16.39	16.80
		1	24	15.99	16.03	16.22	16.80
		12	0	16.24	16.01	16.32	16.80
		12	6	16.11	16.20	16.41	16.80
		12	13	16.05	16.30	16.32	16.80
		25	0	16.15	16.11	16.25	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	16.08	16.26	16.32	16.80
		1	25	16.12	16.17	16.40	16.80
		1	49	15.97	16.14	16.29	16.80
		25	0	16.28	16.20	16.36	16.80
		25	13	16.17	16.30	16.50	16.80
		25	25	16.17	16.43	16.42	16.80
		50	0	16.23	16.29	16.38	16.80
	16QAM	1	0	16.26	16.19	16.36	16.80
		1	25	16.19	16.22	16.56	16.80
		1	49	16.09	16.27	16.35	16.80
		25	0	16.25	16.13	16.28	16.80
		25	13	16.15	16.20	16.42	16.80
		25	25	16.10	16.36	16.37	16.80
		50	0	16.17	16.20	16.32	16.80
	64QAM	1	0	16.14	16.04	16.21	16.80
		1	25	16.04	16.04	16.42	16.80
		1	49	15.98	16.05	16.25	16.80
		25	0	16.27	16.06	16.32	16.80
		25	13	16.13	16.24	16.44	16.80
		25	25	16.08	16.35	16.36	16.80
		50	0	16.18	16.16	16.29	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	16.07	16.22	16.30	16.80
		1	38	16.10	16.16	16.37	16.80
		1	74	15.94	16.09	16.25	16.80
		36	0	16.26	16.16	16.33	16.80
		36	18	16.14	16.25	16.46	16.80
		36	39	16.14	16.40	16.38	16.80
		75	0	16.21	16.25	16.33	16.80
	16QAM	1	0	16.24	16.17	16.34	16.80
		1	38	16.17	16.19	16.54	16.80



		1	74	16.07	16.23	16.32	16.80
		36	0	16.22	16.11	16.25	16.80
		36	18	16.12	16.15	16.38	16.80
		36	39	16.08	16.32	16.34	16.80
		75	0	16.14	16.15	16.28	16.80
	64QAM	1	0	16.09	16.02	16.19	16.80
		1	38	16.02	16.01	16.40	16.80
		1	74	15.99	16.04	16.26	16.80
		36	0	16.26	16.08	16.33	16.80
		36	18	16.11	16.21	16.43	16.80
		36	39	16.06	16.31	16.33	16.80
		75	0	16.15	16.11	16.25	16.80
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	16.04	16.18	16.27	16.80
		1	50	16.09	16.12	16.35	16.80
		1	99	15.92	16.08	16.22	16.80
		50	0	16.23	16.11	16.29	16.80
		50	25	16.12	16.21	16.43	16.80
		50	50	16.11	16.35	16.34	16.80
		100	0	16.18	16.20	16.29	16.80
	16QAM	1	0	16.21	16.13	16.29	16.80
		1	50	16.14	16.17	16.50	16.80
		1	99	16.04	16.20	16.30	16.80
		50	0	16.19	16.07	16.22	16.80
		50	25	16.09	16.13	16.35	16.80
		50	50	16.05	16.27	16.30	16.80
		100	0	16.12	16.11	16.25	16.80
	64QAM	1	0	16.07	15.98	16.14	16.80
		1	50	15.98	15.99	16.36	16.80
		1	99	15.93	15.98	16.20	16.80
		50	0	16.21	16.00	16.26	16.80
		50	25	16.07	16.17	16.37	16.80
		50	50	16.03	16.26	16.29	16.80
		100	0	16.13	16.07	16.22	16.80

LTE Band 7							
Receiver on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	23.20	23.18	23.17	24.10
		1	13	23.39	23.36	23.42	24.10
		1	24	23.15	23.30	23.32	24.10



		12	0	22.36	22.43	22.40	23.10
		12	6	22.43	22.48	22.55	23.10
		12	13	22.49	22.39	22.46	23.10
		25	0	22.44	22.43	22.46	23.10
	16QAM	1	0	22.42	22.37	22.52	23.10
		1	13	22.64	22.68	22.77	23.10
		1	24	22.41	22.63	22.56	23.10
		12	0	21.40	21.35	21.37	22.10
		12	6	21.48	21.45	21.46	22.10
		12	13	21.49	21.48	21.43	22.10
		25	0	21.45	21.37	21.40	22.10
	64QAM	1	0	21.52	21.30	21.42	22.10
		1	13	21.78	21.65	21.60	22.10
		1	24	21.57	21.60	21.48	22.10
		12	0	20.37	20.36	20.37	21.10
		12	6	20.45	20.45	20.48	21.10
		12	13	20.48	20.41	20.38	21.10
		25	0	20.46	20.37	20.40	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	23.22	23.19	23.20	24.10
		1	25	23.42	23.41	23.46	24.10
		1	49	23.17	23.34	23.35	24.10
		25	0	22.39	22.48	22.44	23.10
		25	13	22.46	22.53	22.59	23.10
		25	25	22.51	22.43	22.51	23.10
		50	0	22.48	22.45	22.50	23.10
	16QAM	1	0	22.46	22.40	22.54	23.10
		1	25	22.68	22.72	22.80	23.10
		1	49	22.44	22.65	22.59	23.10
		25	0	21.43	21.40	21.41	22.10
		25	13	21.50	21.49	21.49	22.10
		25	25	21.52	21.53	21.47	22.10
		50	0	21.48	21.42	21.44	22.10
	64QAM	1	0	21.54	21.29	21.44	22.10
		1	25	21.81	21.65	21.63	22.10
		1	49	21.56	21.62	21.51	22.10
		25	0	20.40	20.41	20.37	21.10
		25	13	20.47	20.49	20.51	21.10
		25	25	20.51	20.46	20.42	21.10
		50	0	20.49	20.42	20.44	21.10



Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	23.21	23.15	23.18	24.10
		1	38	23.40	23.40	23.43	24.10
		1	74	23.14	23.29	23.31	24.10
		36	0	22.37	22.44	22.41	23.10
		36	18	22.43	22.48	22.55	23.10
		36	39	22.48	22.40	22.47	23.10
		75	0	22.46	22.41	22.45	23.10
	16QAM	1	0	22.44	22.38	22.52	23.10
		1	38	22.66	22.69	22.78	23.10
		1	74	22.42	22.61	22.56	23.10
		36	0	21.40	21.38	21.38	22.10
		36	18	21.47	21.44	21.45	22.10
		36	39	21.50	21.49	21.44	22.10
		75	0	21.45	21.37	21.40	22.10
	64QAM	1	0	21.49	21.27	21.42	22.10
		1	38	21.79	21.62	21.61	22.10
		1	74	21.57	21.61	21.52	22.10
		36	0	20.39	20.43	20.38	21.10
		36	18	20.45	20.46	20.50	21.10
		36	39	20.49	20.42	20.39	21.10
		75	0	20.46	20.37	20.40	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	23.18	23.11	23.15	24.10
		1	50	23.39	23.36	23.41	24.10
		1	99	23.12	23.28	23.28	24.10
		50	0	22.34	22.39	22.37	23.10
		50	25	22.41	22.44	22.52	23.10
		50	50	22.45	22.35	22.43	23.10
		100	0	22.43	22.36	22.41	23.10
	16QAM	1	0	22.41	22.34	22.47	23.10
		1	50	22.63	22.67	22.74	23.10
		1	99	22.39	22.58	22.54	23.10
		50	0	21.37	21.34	21.35	22.10
		50	25	21.44	21.42	21.42	22.10
		50	50	21.47	21.44	21.40	22.10
		100	0	21.43	21.33	21.37	22.10
	64QAM	1	0	21.47	21.23	21.37	22.10
		1	50	21.75	21.60	21.57	22.10
		1	99	21.51	21.55	21.46	22.10
		50	0	20.34	20.35	20.31	21.10



		50	25	20.41	20.42	20.44	21.10
		50	50	20.46	20.37	20.35	21.10
		100	0	20.44	20.33	20.37	21.10

LTE Band 7							
Body SAR & Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	21.48	21.44	21.41	22.40
		1	13	21.73	21.66	21.67	22.40
		1	24	21.45	21.59	21.59	22.40
		12	0	21.60	21.66	21.58	22.40
		12	6	21.64	21.70	21.68	22.40
		12	13	21.72	21.64	21.63	22.40
		25	0	21.67	21.64	21.65	22.40
	16QAM	1	0	21.77	21.65	21.71	22.40
		1	13	22.02	21.86	21.90	22.40
		1	24	21.77	21.90	21.77	22.40
		12	0	21.37	21.32	21.36	22.10
		12	6	21.46	21.42	21.44	22.10
		12	13	21.52	21.39	21.38	22.10
		25	0	21.46	21.38	21.31	22.10
	64QAM	1	0	21.37	21.33	21.42	22.10
		1	13	21.61	21.61	21.62	22.10
		1	24	21.36	21.51	21.48	22.10
		12	0	20.37	20.34	20.34	21.10
		12	6	20.46	20.40	20.44	21.10
		12	13	20.50	20.39	20.40	21.10
		25	0	20.43	20.37	20.38	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	21.50	21.45	21.44	22.40
		1	25	21.76	21.71	21.71	22.40
		1	49	21.47	21.63	21.62	22.40
		25	0	21.63	21.71	21.62	22.40
		25	13	21.67	21.75	21.72	22.40
		25	25	21.74	21.68	21.68	22.40
		50	0	21.71	21.66	21.69	22.40
	16QAM	1	0	21.81	21.68	21.73	22.40
		1	25	22.06	21.90	21.93	22.40
		1	49	21.80	21.92	21.80	22.40
		25	0	21.40	21.37	21.40	22.10
		25	13	21.48	21.46	21.47	22.10



		25	25	21.55	21.44	21.42	22.10
		50	0	21.49	21.43	21.35	22.10
	64QAM	1	0	21.39	21.32	21.44	22.10
		1	25	21.64	21.61	21.65	22.10
		1	49	21.35	21.53	21.51	22.10
		25	0	20.40	20.39	20.34	21.10
		25	13	20.48	20.44	20.47	21.10
		25	25	20.53	20.44	20.44	21.10
		50	0	20.46	20.42	20.42	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	21.49	21.41	21.42	22.40
		1	38	21.74	21.70	21.68	22.40
		1	74	21.44	21.58	21.58	22.40
		36	0	21.61	21.67	21.59	22.40
		36	18	21.64	21.70	21.68	22.40
		36	39	21.71	21.65	21.64	22.40
		75	0	21.69	21.62	21.64	22.40
	16QAM	1	0	21.79	21.66	21.71	22.40
		1	38	22.04	21.87	21.91	22.40
		1	74	21.78	21.88	21.77	22.40
		36	0	21.37	21.35	21.37	22.10
		36	18	21.45	21.41	21.43	22.10
		36	39	21.53	21.40	21.39	22.10
		75	0	21.46	21.38	21.31	22.10
	64QAM	1	0	21.34	21.30	21.42	22.10
		1	38	21.62	21.58	21.63	22.10
		1	74	21.36	21.52	21.52	22.10
		36	0	20.39	20.41	20.35	21.10
		36	18	20.46	20.41	20.46	21.10
		36	39	20.51	20.40	20.41	21.10
		75	0	20.43	20.37	20.38	21.10
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	21.46	21.37	21.39	22.40
		1	50	21.73	21.66	21.66	22.40
		1	99	21.42	21.57	21.55	22.40
		50	0	21.58	21.62	21.55	22.40
		50	25	21.62	21.66	21.65	22.40
		50	50	21.68	21.60	21.60	22.40
		100	0	21.66	21.57	21.60	22.40
	16QAM	1	0	21.76	21.62	21.66	22.40
		1	50	22.01	21.85	21.87	22.40



		1	99	21.75	21.85	21.75	22.40
		50	0	21.34	21.31	21.34	22.10
		50	25	21.42	21.39	21.40	22.10
		50	50	21.50	21.35	21.35	22.10
		100	0	21.44	21.34	21.28	22.10
	64QAM	1	0	21.32	21.26	21.37	22.10
		1	50	21.58	21.56	21.59	22.10
		1	99	21.30	21.46	21.46	22.10
		50	0	20.34	20.33	20.28	21.10
		50	25	20.42	20.37	20.40	21.10
		50	50	20.48	20.35	20.37	21.10
		100	0	20.41	20.33	20.35	21.10

LTE Band 38							
Receiver on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	22.91	22.95	22.79	24.00
		1	13	23.07	23.06	23.00	24.00
		1	24	22.90	22.82	22.69	24.00
		12	0	22.09	22.07	22.00	23.00
		12	6	22.08	22.09	22.03	23.00
		12	13	22.01	22.00	21.95	23.00
		25	0	22.03	22.07	22.02	23.00
	16QAM	1	0	22.11	22.11	22.06	23.00
		1	13	22.28	22.27	22.22	23.00
		1	24	22.05	22.08	21.93	23.00
		12	0	21.10	21.09	20.99	22.00
		12	6	21.10	21.11	21.09	22.00
		12	13	21.05	21.05	21.00	22.00
		25	0	21.02	21.05	21.00	22.00
	64QAM	1	0	21.03	21.07	20.92	22.00
		1	13	21.18	21.23	21.15	22.00
		1	24	20.96	20.96	20.79	22.00
		12	0	20.09	20.09	20.03	21.00
		12	6	20.14	20.08	20.10	21.00
		12	13	20.04	20.07	20.00	21.00
		25	0	20.05	20.06	20.04	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	22.93	22.96	22.82	24.00
		1	25	23.10	23.11	23.04	24.00
		1	49	22.92	22.86	22.72	24.00



		25	0	22.12	22.12	22.04	23.00
		25	13	22.11	22.14	22.07	23.00
		25	25	22.03	22.04	22.00	23.00
		50	0	22.07	22.09	22.06	23.00
	16QAM	1	0	22.15	22.14	22.08	23.00
		1	25	22.32	22.31	22.25	23.00
		1	49	22.08	22.10	21.96	23.00
		25	0	21.13	21.14	21.03	22.00
		25	13	21.12	21.15	21.12	22.00
		25	25	21.08	21.10	21.04	22.00
		50	0	21.05	21.10	21.04	22.00
	64QAM	1	0	21.05	21.06	20.94	22.00
		1	25	21.21	21.23	21.18	22.00
		1	49	20.95	20.98	20.82	22.00
		25	0	20.12	20.14	20.03	21.00
		25	13	20.16	20.12	20.13	21.00
		25	25	20.07	20.12	20.04	21.00
		50	0	20.08	20.11	20.08	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	22.92	22.92	22.80	24.00
		1	38	23.08	23.10	23.01	24.00
		1	74	22.89	22.81	22.68	24.00
		36	0	22.10	22.08	22.01	23.00
		36	18	22.08	22.09	22.03	23.00
		36	39	22.00	22.01	21.96	23.00
		75	0	22.05	22.05	22.01	23.00
	16QAM	1	0	22.13	22.12	22.06	23.00
		1	38	22.30	22.28	22.23	23.00
		1	74	22.06	22.06	21.93	23.00
		36	0	21.10	21.12	21.00	22.00
		36	18	21.09	21.10	21.08	22.00
		36	39	21.06	21.06	21.01	22.00
		75	0	21.02	21.05	21.00	22.00
	64QAM	1	0	21.00	21.04	20.92	22.00
		1	38	21.19	21.20	21.16	22.00
		1	74	20.96	20.97	20.83	22.00
		36	0	20.11	20.16	20.04	21.00
		36	18	20.14	20.09	20.12	21.00
		36	39	20.05	20.08	20.01	21.00
		75	0	20.05	20.06	20.04	21.00



Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	22.89	22.88	22.77	24.00
		1	50	23.07	23.06	22.99	24.00
		1	99	22.87	22.80	22.65	24.00
		50	0	22.07	22.03	21.97	23.00
		50	25	22.06	22.05	22.00	23.00
		50	50	21.97	21.96	21.92	23.00
		100	0	22.02	22.00	21.97	23.00
	16QAM	1	0	22.10	22.08	22.01	23.00
		1	50	22.27	22.26	22.19	23.00
		1	99	22.03	22.03	21.91	23.00
		50	0	21.07	21.08	20.97	22.00
		50	25	21.06	21.08	21.05	22.00
		50	50	21.03	21.01	20.97	22.00
		100	0	21.00	21.01	20.97	22.00
	64QAM	1	0	20.98	21.00	20.87	22.00
		1	50	21.15	21.18	21.12	22.00
		1	99	20.90	20.91	20.77	22.00
		50	0	20.06	20.08	19.97	21.00
		50	25	20.10	20.05	20.06	21.00
		50	50	20.02	20.03	19.97	21.00
		100	0	20.03	20.02	20.01	21.00

LTE Band 38							
Body SAR & Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				37775/2572.5	38000/2595	38225/2617.5	
5MHz	QPSK	1	0	22.65	22.60	22.46	23.60
		1	13	22.73	22.70	22.70	23.60
		1	24	22.53	22.45	22.38	23.60
		12	0	22.09	22.10	22.00	23.00
		12	6	22.16	22.09	22.02	23.00
		12	13	22.06	22.04	21.97	23.00
		25	0	22.06	22.10	22.03	23.00
	16QAM	1	0	22.24	22.15	22.11	23.00
		1	13	22.37	22.31	22.25	23.00
		1	24	22.19	22.08	21.93	23.00
		12	0	21.18	21.08	21.05	22.00
		12	6	21.22	21.13	21.12	22.00
		12	13	21.10	21.10	21.02	22.00
		25	0	21.14	21.10	21.04	22.00
	64QAM	1	0	21.15	21.04	20.97	22.00



		1	13	21.25	21.24	21.15	22.00
		1	24	21.08	20.99	20.84	22.00
		12	0	20.15	20.08	20.03	21.00
		12	6	20.19	20.13	20.12	21.00
		12	13	20.10	20.06	19.99	21.00
		25	0	20.14	20.07	20.05	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37800/2575	38000/2595	38200/2615	
10MHz	QPSK	1	0	22.67	22.61	22.49	23.60
		1	25	22.76	22.75	22.74	23.60
		1	49	22.55	22.49	22.41	23.60
		25	0	22.12	22.15	22.04	23.00
		25	13	22.19	22.14	22.06	23.00
		25	25	22.08	22.08	22.02	23.00
		50	0	22.10	22.12	22.07	23.00
	16QAM	1	0	22.28	22.18	22.13	23.00
		1	25	22.41	22.35	22.28	23.00
		1	49	22.22	22.10	21.96	23.00
		25	0	21.21	21.13	21.09	22.00
		25	13	21.24	21.17	21.15	22.00
		25	25	21.13	21.15	21.06	22.00
		50	0	21.17	21.15	21.08	22.00
	64QAM	1	0	21.17	21.03	20.99	22.00
		1	25	21.28	21.24	21.18	22.00
		1	49	21.07	21.01	20.87	22.00
		25	0	20.18	20.13	20.03	21.00
		25	13	20.21	20.17	20.15	21.00
		25	25	20.13	20.11	20.03	21.00
		50	0	20.17	20.12	20.09	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37825/2577.5	38000/2595	38175/2612.5	
15MHz	QPSK	1	0	22.66	22.57	22.47	23.60
		1	38	22.74	22.74	22.71	23.60
		1	74	22.52	22.44	22.37	23.60
		36	0	22.10	22.11	22.01	23.00
		36	18	22.16	22.09	22.02	23.00
		36	39	22.05	22.05	21.98	23.00
		75	0	22.08	22.08	22.02	23.00
	16QAM	1	0	22.26	22.16	22.11	23.00
		1	38	22.39	22.32	22.26	23.00
		1	74	22.20	22.06	21.93	23.00
		36	0	21.18	21.11	21.06	22.00
		36	18	21.21	21.12	21.11	22.00



		36	39	21.11	21.11	21.03	22.00
		75	0	21.14	21.10	21.04	22.00
	64QAM	1	0	21.12	21.01	20.97	22.00
		1	38	21.26	21.21	21.16	22.00
		1	74	21.08	21.00	20.88	22.00
		36	0	20.17	20.15	20.04	21.00
		36	18	20.19	20.14	20.14	21.00
		36	39	20.11	20.07	20.00	21.00
		75	0	20.14	20.07	20.05	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				37850/2580	38000/2595	38150/2610	
20MHz	QPSK	1	0	22.63	22.53	22.44	23.60
		1	50	22.73	22.70	22.69	23.60
		1	99	22.50	22.43	22.34	23.60
		50	0	22.07	22.06	21.97	23.00
		50	25	22.14	22.05	21.99	23.00
		50	50	22.02	22.00	21.94	23.00
		100	0	22.05	22.03	21.98	23.00
	16QAM	1	0	22.23	22.12	22.06	23.00
		1	50	22.36	22.30	22.22	23.00
		1	99	22.17	22.03	21.91	23.00
		50	0	21.15	21.07	21.03	22.00
		50	25	21.18	21.10	21.08	22.00
		50	50	21.08	21.06	20.99	22.00
		100	0	21.12	21.06	21.01	22.00
	64QAM	1	0	21.10	20.97	20.92	22.00
		1	50	21.22	21.19	21.12	22.00
		1	99	21.02	20.94	20.82	22.00
		50	0	20.12	20.07	19.97	21.00
		50	25	20.15	20.10	20.08	21.00
		50	50	20.08	20.02	19.96	21.00
		100	0	20.12	20.03	20.02	21.00

LTE Band 41									
Receiver on & Body SAR & Hotspot on				Maximum Output Power (dBm)					Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					
				39675/2498.5	40148/2545.8	40620/2593	41093/2640.3	41565/2687.5	
5MHz	QPSK	1	0	23.11	23.17	23.01	22.85	22.55	24.00
		1	13	23.30	23.31	23.17	22.98	22.65	24.00
		1	24	23.12	23.12	22.94	22.80	22.53	24.00
		12	0	22.21	22.23	22.12	22.01	21.57	23.00



	16QAM	12	6	22.23	22.28	22.12	21.98	21.73	23.00
		12	13	22.29	22.27	22.01	21.96	21.77	23.00
		25	0	22.24	22.34	22.07	21.94	21.72	23.00
		1	0	22.31	22.35	22.28	22.02	21.76	23.00
		1	13	22.51	22.55	22.39	22.17	21.87	23.00
		1	24	22.33	22.40	22.17	22.03	21.78	23.00
		12	0	21.28	21.26	21.17	21.03	20.65	22.00
		12	6	21.28	21.35	21.18	21.09	20.80	22.00
		12	13	21.30	21.29	21.08	20.97	20.83	22.00
		25	0	21.30	21.32	21.12	21.04	20.76	22.00
	64QAM	1	0	21.24	21.26	21.11	20.97	20.66	22.00
		1	13	21.44	21.47	21.26	21.04	20.74	22.00
		1	24	21.25	21.24	21.00	20.85	20.65	22.00
		12	0	20.26	20.22	20.18	20.03	19.67	21.00
		12	6	20.35	20.35	20.12	20.06	19.77	21.00
		12	13	20.30	20.32	20.09	19.94	19.78	21.00
		25	0	20.30	20.29	20.09	19.97	19.76	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39700/2501	40160/2547	40620/2593	41080/2639	41540/2685	
10MHz	QPSK	1	0	23.13	23.18	23.04	22.83	22.50	24.00
		1	25	23.33	23.36	23.21	22.97	22.65	24.00
		1	49	23.14	23.16	22.97	22.76	22.47	24.00
		25	0	22.24	22.28	22.16	21.99	21.53	23.00
		25	13	22.26	22.33	22.16	21.96	21.69	23.00
		25	25	22.31	22.31	22.06	21.93	21.76	23.00
		50	0	22.28	22.36	22.11	21.96	21.69	23.00
	16QAM	1	0	22.35	22.38	22.30	22.04	21.73	23.00
		1	25	22.55	22.59	22.42	22.19	21.86	23.00
		1	49	22.36	22.42	22.20	22.01	21.74	23.00
		25	0	21.31	21.31	21.21	21.01	20.64	22.00
		25	13	21.30	21.39	21.21	21.05	20.74	22.00
		25	25	21.33	21.34	21.12	20.95	20.79	22.00
		50	0	21.33	21.37	21.16	21.02	20.72	22.00
	64QAM	1	0	21.26	21.25	21.13	20.91	20.63	22.00
		1	25	21.47	21.47	21.29	21.02	20.73	22.00
		1	49	21.24	21.26	21.03	20.86	20.64	22.00
		25	0	20.29	20.27	20.18	20.03	19.70	21.00
		25	13	20.37	20.39	20.15	20.03	19.73	21.00
		25	25	20.33	20.37	20.13	19.92	19.74	21.00
		50	0	20.33	20.34	20.13	19.95	19.72	21.00



Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39725/2 503.5	40173/2 548.3	40620/ 2593	41068/2 637.8	41515/2 682.5	
15MHz	QPSK	1	0	23.12	23.14	23.02	22.84	22.54	24.00
		1	38	23.31	23.35	23.18	22.99	22.66	24.00
		1	74	23.11	23.11	22.93	22.79	22.52	24.00
		36	0	22.22	22.24	22.13	22.01	21.57	23.00
		36	18	22.23	22.28	22.12	21.99	21.74	23.00
		36	39	22.28	22.28	22.02	21.96	21.79	23.00
		75	0	22.26	22.32	22.06	21.98	21.73	23.00
	16QAM	1	0	22.33	22.36	22.28	22.06	21.75	23.00
		1	38	22.53	22.56	22.40	22.21	21.89	23.00
		1	74	22.34	22.38	22.17	22.03	21.78	23.00
		36	0	21.28	21.29	21.18	21.04	20.66	22.00
		36	18	21.27	21.34	21.17	21.08	20.79	22.00
		36	39	21.31	21.30	21.09	20.97	20.83	22.00
		75	0	21.30	21.32	21.12	21.05	20.77	22.00
	64QAM	1	0	21.21	21.23	21.11	20.96	20.65	22.00
		1	38	21.45	21.44	21.27	21.04	20.76	22.00
		1	74	21.25	21.25	21.04	20.85	20.65	22.00
		36	0	20.28	20.29	20.19	20.04	19.68	21.00
		36	18	20.35	20.36	20.14	20.05	19.76	21.00
		36	39	20.31	20.33	20.10	19.94	19.78	21.00
		75	0	20.30	20.29	20.09	19.98	19.77	21.00
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)					Tune-up
				39750/2 506	40185/2 549.5	40620/ 2593	41055/2 636.5	41490/2 680	
20MHz	QPSK	1	0	23.09	23.10	22.99	22.80	22.46	24.00
		1	50	23.30	23.31	23.16	22.96	22.61	24.00
		1	99	23.09	23.10	22.90	22.74	22.46	24.00
		50	0	22.19	22.19	22.09	21.96	21.48	23.00
		50	25	22.21	22.24	22.09	21.94	21.65	23.00
		50	50	22.25	22.23	21.98	21.90	21.71	23.00
		100	0	22.23	22.27	22.02	21.93	21.64	23.00
	16QAM	1	0	22.30	22.32	22.23	22.01	21.69	23.00
		1	50	22.50	22.54	22.36	22.16	21.84	23.00
		1	99	22.31	22.35	22.15	21.98	21.71	23.00
		50	0	21.25	21.25	21.15	20.98	20.60	22.00
		50	25	21.24	21.32	21.14	21.02	20.72	22.00
		50	50	21.28	21.25	21.05	20.92	20.74	22.00
		100	0	21.28	21.28	21.09	21.00	20.68	22.00
	64QAM	1	0	21.19	21.19	21.06	20.89	20.59	22.00
		1	50	21.41	21.42	21.23	20.98	20.71	22.00



		1	99	21.19	21.19	20.98	20.80	20.58	22.00
		50	0	20.23	20.21	20.12	19.98	19.62	21.00
		50	25	20.31	20.32	20.08	19.99	19.69	21.00
		50	50	20.28	20.28	20.06	19.89	19.69	21.00
		100	0	20.28	20.25	20.06	19.93	19.68	21.00

LTE Band 66							
Body SAR				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	20.89	20.94	20.90	22.00
		1	2	20.96	20.98	21.03	22.00
		1	5	20.73	20.72	20.71	22.00
		3	0	20.98	21.17	20.86	22.00
		3	2	20.95	21.04	21.00	22.00
		3	3	20.99	20.79	20.76	22.00
		6	0	20.95	21.04	20.84	22.00
	16QAM	1	0	21.15	21.22	21.30	22.00
		1	2	21.25	21.32	21.38	22.00
		1	5	21.00	21.07	21.03	22.00
		3	0	20.97	21.13	20.86	22.00
		3	2	21.03	21.05	21.05	22.00
		3	3	21.05	20.86	20.78	22.00
		6	0	21.04	20.99	20.84	22.00
	64QAM	1	0	21.16	21.07	21.20	22.00
		1	2	21.27	21.21	21.16	22.00
		1	5	21.00	20.92	20.78	22.00
		3	0	21.19	21.27	21.11	22.00
		3	2	21.23	21.22	21.23	22.00
		3	3	21.19	21.06	21.01	22.00
		6	0	20.73	20.82	20.64	21.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	20.87	20.87	20.88	22.00
		1	7	20.96	20.98	21.02	22.00
		1	14	20.70	20.70	20.67	22.00
		8	0	20.96	21.13	20.83	22.00
		8	4	20.93	21.00	20.97	22.00
		8	7	20.95	20.75	20.73	22.00
		15	0	20.94	20.97	20.79	22.00
	16QAM	1	0	21.14	21.19	21.25	22.00
		1	7	21.24	21.31	21.35	22.00
		1	14	20.98	21.02	21.01	22.00



		8	0	20.94	21.12	20.84	22.00
		8	4	20.99	21.02	21.01	22.00
		8	7	21.03	20.82	20.75	22.00
		15	0	21.02	20.95	20.81	22.00
	64QAM	1	0	21.11	21.00	21.15	22.00
		1	7	21.24	21.16	21.13	22.00
		1	14	20.94	20.87	20.76	22.00
		8	0	20.73	20.83	20.62	21.70
		8	4	20.76	20.76	20.76	21.70
		8	7	20.74	20.59	20.55	21.70
		15	0	20.71	20.78	20.61	21.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	20.84	20.85	20.84	22.00
		1	13	20.94	20.94	20.99	22.00
		1	24	20.67	20.65	20.63	22.00
		12	0	20.93	21.08	20.79	22.00
		12	6	20.91	20.96	20.92	22.00
		12	13	20.93	20.73	20.69	22.00
		25	0	20.94	20.96	20.77	22.00
	16QAM	1	0	21.14	21.15	21.22	22.00
		1	13	21.24	21.29	21.32	22.00
		1	24	20.95	21.00	20.97	22.00
		12	0	20.92	21.08	20.81	22.00
		12	6	20.96	20.97	20.97	22.00
		12	13	21.00	20.77	20.71	22.00
		25	0	21.00	20.91	20.76	22.00
	64QAM	1	0	21.08	21.00	21.12	22.00
		1	13	21.21	21.18	21.10	22.00
		1	24	20.95	20.85	20.72	22.00
		12	0	20.71	20.79	20.63	21.70
		12	6	20.73	20.71	20.72	21.70
		12	13	20.71	20.54	20.51	21.70
		25	0	20.69	20.74	20.56	21.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	20.86	20.86	20.87	22.00
		1	25	20.97	20.99	21.03	22.00
		1	49	20.69	20.69	20.66	22.00
		25	0	20.96	21.13	20.83	22.00
		25	13	20.94	21.01	20.96	22.00
		25	25	20.95	20.77	20.74	22.00
		50	0	20.98	20.98	20.81	22.00



	16QAM	1	0	21.18	21.18	21.24	22.00
		1	25	21.28	21.33	21.35	22.00
		1	49	20.98	21.02	21.00	22.00
		25	0	20.95	21.13	20.85	22.00
		25	13	20.98	21.01	21.00	22.00
		25	25	21.03	20.82	20.75	22.00
		50	0	21.03	20.96	20.80	22.00
	64QAM	1	0	21.10	20.99	21.14	22.00
		1	25	21.24	21.18	21.13	22.00
		1	49	20.94	20.87	20.75	22.00
		25	0	20.74	20.84	20.63	21.70
		25	13	20.75	20.75	20.75	21.70
		25	25	20.74	20.59	20.55	21.70
		50	0	20.72	20.79	20.60	21.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	20.85	20.82	20.85	22.00
		1	38	20.95	20.98	21.00	22.00
		1	74	20.66	20.64	20.62	22.00
		36	0	20.94	21.09	20.80	22.00
		36	18	20.91	20.96	20.92	22.00
		36	39	20.92	20.74	20.70	22.00
		75	0	20.96	20.94	20.76	22.00
	16QAM	1	0	21.16	21.16	21.22	22.00
		1	38	21.26	21.30	21.33	22.00
		1	74	20.96	20.98	20.97	22.00
		36	0	20.92	21.11	20.82	22.00
		36	18	20.95	20.96	20.96	22.00
		36	39	21.01	20.78	20.72	22.00
		75	0	21.00	20.91	20.76	22.00
	64QAM	1	0	21.05	20.97	21.12	22.00
		1	38	21.22	21.15	21.11	22.00
		1	74	20.95	20.86	20.76	22.00
		36	0	20.73	20.86	20.64	21.70
		36	18	20.73	20.72	20.74	21.70
		36	39	20.72	20.55	20.52	21.70
		75	0	20.69	20.74	20.56	21.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	20.82	20.78	20.82	22.00
		1	50	20.94	20.94	20.98	22.00
		1	99	20.64	20.63	20.59	22.00
		50	0	20.91	21.04	20.76	22.00



		50	25	20.89	20.92	20.89	22.00
		50	50	20.89	20.69	20.66	22.00
		100	0	20.93	20.89	20.72	22.00
	16QAM	1	0	21.13	21.12	21.17	22.00
		1	50	21.23	21.28	21.29	22.00
		1	99	20.93	20.95	20.95	22.00
		50	0	20.89	21.07	20.79	22.00
		50	25	20.92	20.94	20.93	22.00
		50	50	20.98	20.73	20.68	22.00
		100	0	20.98	20.87	20.73	22.00
	64QAM	1	0	21.03	20.93	21.07	22.00
		1	50	21.18	21.13	21.07	22.00
		1	99	20.89	20.80	20.70	22.00
		50	0	20.68	20.78	20.57	21.70
		50	25	20.69	20.68	20.68	21.70
		50	50	20.69	20.50	20.48	21.70
		100	0	20.67	20.70	20.53	21.70

LTE Band 66							
Receiver on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	18.65	18.68	18.69	19.70
		1	2	18.79	18.88	18.88	19.70
		1	5	18.54	18.52	18.54	19.70
		3	0	18.78	18.94	18.66	19.70
		3	2	18.70	18.81	18.79	19.70
		3	3	18.78	18.57	18.56	19.70
		6	0	18.73	18.80	18.62	19.70
	16QAM	1	0	18.90	18.97	19.15	19.70
		1	2	19.14	19.12	19.22	19.70
		1	5	18.86	18.95	18.88	19.70
		3	0	18.80	18.91	18.67	19.70
		3	2	18.79	18.83	18.84	19.70
		3	3	18.81	18.66	18.58	19.70
		6	0	18.78	18.83	18.66	19.70
	64QAM	1	0	18.95	18.84	18.91	19.70
		1	2	19.17	18.99	19.01	19.70
		1	5	18.83	18.83	18.69	19.70
		3	0	18.80	18.95	18.69	19.70
		3	2	18.83	18.85	18.84	19.70
		3	3	18.80	18.65	18.62	19.70
		6	0	18.78	18.80	18.68	19.70



Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	18.62	18.64	18.66	19.70
		1	7	18.78	18.84	18.86	19.70
		1	14	18.52	18.51	18.51	19.70
		8	0	18.75	18.89	18.62	19.70
		8	4	18.68	18.77	18.76	19.70
		8	7	18.75	18.52	18.52	19.70
		15	0	18.70	18.75	18.58	19.70
	16QAM	1	0	18.87	18.93	19.10	19.70
		1	7	19.11	19.10	19.18	19.70
		1	14	18.83	18.92	18.86	19.70
		8	0	18.77	18.87	18.64	19.70
		8	4	18.76	18.81	18.81	19.70
		8	7	18.78	18.61	18.54	19.70
		15	0	18.76	18.79	18.63	19.70
	64QAM	1	0	18.93	18.80	18.86	19.70
		1	7	19.13	18.97	18.97	19.70
		1	14	18.77	18.77	18.63	19.70
		8	0	18.75	18.87	18.62	19.70
		8	4	18.79	18.81	18.78	19.70
		8	7	18.77	18.60	18.58	19.70
		15	0	18.76	18.76	18.65	19.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	18.59	18.62	18.62	19.70
		1	13	18.76	18.80	18.83	19.70
		1	24	18.49	18.46	18.47	19.70
		12	0	18.72	18.84	18.58	19.70
		12	6	18.66	18.73	18.71	19.70
		12	13	18.73	18.50	18.48	19.70
		25	0	18.70	18.74	18.56	19.70
	16QAM	1	0	18.87	18.89	19.07	19.70
		1	13	19.11	19.08	19.15	19.70
		1	24	18.80	18.90	18.82	19.70
		12	0	18.75	18.83	18.61	19.70
		12	6	18.73	18.76	18.77	19.70
		12	13	18.75	18.56	18.50	19.70
		25	0	18.74	18.75	18.58	19.70
	64QAM	1	0	18.90	18.80	18.83	19.70
		1	13	19.10	18.99	18.94	19.70
		1	24	18.78	18.75	18.59	19.70
		12	0	18.73	18.83	18.63	19.70



		12	6	18.76	18.76	18.74	19.70
		12	13	18.74	18.55	18.54	19.70
		25	0	18.74	18.72	18.60	19.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	18.61	18.63	18.65	19.70
		1	25	18.79	18.85	18.87	19.70
		1	49	18.51	18.50	18.50	19.70
		25	0	18.75	18.89	18.62	19.70
		25	13	18.69	18.78	18.75	19.70
		25	25	18.75	18.54	18.53	19.70
		50	0	18.74	18.76	18.60	19.70
	16QAM	1	0	18.91	18.92	19.09	19.70
		1	25	19.15	19.12	19.18	19.70
		1	49	18.83	18.92	18.85	19.70
		25	0	18.78	18.88	18.65	19.70
		25	13	18.75	18.80	18.80	19.70
		25	25	18.78	18.61	18.54	19.70
		50	0	18.77	18.80	18.62	19.70
	64QAM	1	0	18.92	18.79	18.85	19.70
		1	25	19.13	18.99	18.97	19.70
		1	49	18.77	18.77	18.62	19.70
		25	0	18.76	18.88	18.63	19.70
		25	13	18.78	18.80	18.77	19.70
		25	25	18.77	18.60	18.58	19.70
		50	0	18.77	18.77	18.64	19.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	18.60	18.59	18.63	19.70
		1	38	18.77	18.84	18.84	19.70
		1	74	18.48	18.45	18.46	19.70
		36	0	18.73	18.85	18.59	19.70
		36	18	18.66	18.73	18.71	19.70
		36	39	18.72	18.51	18.49	19.70
		75	0	18.72	18.72	18.55	19.70
	16QAM	1	0	18.89	18.90	19.07	19.70
		1	38	19.13	19.09	19.16	19.70
		1	74	18.81	18.88	18.82	19.70
		36	0	18.75	18.86	18.62	19.70
		36	18	18.72	18.75	18.76	19.70
		36	39	18.76	18.57	18.51	19.70
		75	0	18.74	18.75	18.58	19.70
	64QAM	1	0	18.87	18.77	18.83	19.70



		1	38	19.11	18.96	18.95	19.70
		1	74	18.78	18.76	18.63	19.70
		36	0	18.75	18.90	18.64	19.70
		36	18	18.76	18.77	18.76	19.70
		36	39	18.75	18.56	18.55	19.70
		75	0	18.74	18.72	18.60	19.70
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	18.57	18.55	18.60	19.70
		1	50	18.76	18.80	18.82	19.70
		1	99	18.46	18.44	18.43	19.70
		50	0	18.70	18.80	18.55	19.70
		50	25	18.64	18.69	18.68	19.70
		50	50	18.69	18.46	18.45	19.70
		100	0	18.69	18.67	18.51	19.70
	16QAM	1	0	18.86	18.86	19.02	19.70
		1	50	19.10	19.07	19.12	19.70
		1	99	18.78	18.85	18.80	19.70
		50	0	18.72	18.82	18.59	19.70
		50	25	18.69	18.73	18.73	19.70
		50	50	18.73	18.52	18.47	19.70
		100	0	18.72	18.71	18.55	19.70
	64QAM	1	0	18.85	18.73	18.78	19.70
		1	50	19.07	18.94	18.91	19.70
		1	99	18.72	18.70	18.57	19.70
		50	0	18.70	18.82	18.57	19.70
		50	25	18.72	18.73	18.70	19.70
		50	50	18.72	18.51	18.51	19.70
		100	0	18.72	18.68	18.57	19.70

LTE Band 66							
Hotspot on				Maximum Output Power (dBm)			Tune-up
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	16.20	16.56	16.59	17.20
		1	2	16.31	16.39	16.44	17.20
		1	5	16.12	16.16	16.15	17.20
		3	0	16.33	16.51	16.24	17.20
		3	2	16.28	16.38	16.42	17.20
		3	3	16.33	16.13	16.13	17.20
		6	0	16.24	16.40	16.21	17.20
	16QAM	1	0	16.51	16.61	16.77	17.20
		1	2	16.68	16.72	16.92	17.20



		1	5	16.40	16.51	16.53	17.20
		3	0	16.38	16.48	16.25	17.20
		3	2	16.40	16.46	16.44	17.20
		3	3	16.38	16.24	16.16	17.20
		6	0	16.34	16.43	16.26	17.20
	64QAM	1	0	16.57	16.51	16.52	17.20
		1	2	16.61	16.56	16.63	17.20
		1	5	16.40	16.39	16.26	17.20
		3	0	16.41	16.47	16.23	17.20
		3	2	16.39	16.45	16.45	17.20
		3	3	16.41	16.25	16.17	17.20
		6	0	16.34	16.41	16.23	17.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131987/1711.5	132322/1745	132657/1778.5	
3MHz	QPSK	1	0	16.15	16.47	16.53	17.20
		1	7	16.29	16.35	16.40	17.20
		1	14	16.06	16.09	16.07	17.20
		8	0	16.28	16.42	16.17	17.20
		8	4	16.24	16.30	16.34	17.20
		8	7	16.27	16.07	16.06	17.20
		15	0	16.23	16.32	16.14	17.20
	16QAM	1	0	16.50	16.54	16.69	17.20
		1	7	16.67	16.69	16.86	17.20
		1	14	16.35	16.44	16.47	17.20
		8	0	16.33	16.43	16.20	17.20
		8	4	16.33	16.38	16.36	17.20
		8	7	16.33	16.15	16.09	17.20
		15	0	16.30	16.35	16.18	17.20
	64QAM	1	0	16.49	16.44	16.44	17.20
		1	7	16.55	16.53	16.57	17.20
		1	14	16.35	16.32	16.20	17.20
		8	0	16.36	16.42	16.18	17.20
		8	4	16.32	16.37	16.37	17.20
		8	7	16.36	16.16	16.10	17.20
		15	0	16.30	16.33	16.15	17.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	16.12	16.45	16.49	17.20
		1	13	16.27	16.31	16.37	17.20
		1	24	16.03	16.04	16.03	17.20
		12	0	16.25	16.37	16.13	17.20
		12	6	16.22	16.26	16.29	17.20
		12	13	16.25	16.05	16.02	17.20



		25	0	16.23	16.31	16.12	17.20
		1	0	16.50	16.50	16.66	17.20
		1	13	16.67	16.67	16.83	17.20
		1	24	16.32	16.42	16.43	17.20
		12	0	16.31	16.39	16.17	17.20
		12	6	16.30	16.33	16.32	17.20
		12	13	16.30	16.10	16.05	17.20
		25	0	16.28	16.31	16.13	17.20
		1	0	16.46	16.44	16.41	17.20
		1	13	16.52	16.55	16.54	17.20
		1	24	16.36	16.30	16.16	17.20
		12	0	16.34	16.38	16.19	17.20
		12	6	16.29	16.32	16.33	17.20
		12	13	16.33	16.11	16.06	17.20
		25	0	16.28	16.29	16.10	17.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	16.14	16.46	16.52	17.20
		1	25	16.30	16.36	16.41	17.20
		1	49	16.05	16.08	16.06	17.20
		25	0	16.28	16.42	16.17	17.20
		25	13	16.25	16.31	16.33	17.20
		25	25	16.27	16.09	16.07	17.20
		50	0	16.27	16.33	16.16	17.20
	16QAM	1	0	16.54	16.53	16.68	17.20
		1	25	16.71	16.71	16.86	17.20
		1	49	16.35	16.44	16.46	17.20
		25	0	16.34	16.44	16.21	17.20
		25	13	16.32	16.37	16.35	17.20
		25	25	16.33	16.15	16.09	17.20
		50	0	16.31	16.36	16.17	17.20
	64QAM	1	0	16.48	16.43	16.43	17.20
		1	25	16.55	16.55	16.57	17.20
		1	49	16.35	16.32	16.19	17.20
		25	0	16.37	16.43	16.19	17.20
		25	13	16.31	16.36	16.36	17.20
		25	25	16.36	16.16	16.10	17.20
		50	0	16.31	16.34	16.14	17.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	16.13	16.42	16.50	17.20
		1	38	16.28	16.35	16.38	17.20
		1	74	16.02	16.03	16.02	17.20



		36	0	16.26	16.38	16.14	17.20
		36	18	16.22	16.26	16.29	17.20
		36	39	16.24	16.06	16.03	17.20
		75	0	16.25	16.29	16.11	17.20
	16QAM	1	0	16.52	16.51	16.66	17.20
		1	38	16.69	16.68	16.84	17.20
		1	74	16.33	16.40	16.43	17.20
		36	0	16.31	16.42	16.18	17.20
		36	18	16.29	16.32	16.31	17.20
		36	39	16.31	16.11	16.06	17.20
		75	0	16.28	16.31	16.13	17.20
	64QAM	1	0	16.43	16.41	16.41	17.20
		1	38	16.53	16.52	16.55	17.20
		1	74	16.36	16.31	16.20	17.20
		36	0	16.36	16.45	16.20	17.20
		36	18	16.29	16.33	16.35	17.20
		36	39	16.34	16.12	16.07	17.20
		75	0	16.28	16.29	16.10	17.20
Bandwidth	Modulation	RB allocation	offset	Channel/Frequency(MHz)			Tune-up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	16.10	16.38	16.47	17.20
		1	50	16.27	16.31	16.36	17.20
		1	99	16.00	16.02	15.99	17.20
		50	0	16.23	16.33	16.10	17.20
		50	25	16.20	16.22	16.26	17.20
		50	50	16.21	16.01	15.99	17.20
		100	0	16.22	16.24	16.07	17.20
	16QAM	1	0	16.49	16.47	16.61	17.20
		1	50	16.66	16.66	16.80	17.20
		1	99	16.30	16.37	16.41	17.20
		50	0	16.28	16.38	16.15	17.20
		50	25	16.26	16.30	16.28	17.20
		50	50	16.28	16.06	16.02	17.20
		100	0	16.26	16.27	16.10	17.20
	64QAM	1	0	16.41	16.37	16.36	17.20
		1	50	16.49	16.50	16.51	17.20
		1	99	16.30	16.25	16.14	17.20
		50	0	16.31	16.37	16.13	17.20
		50	25	16.25	16.29	16.29	17.20
		50	50	16.31	16.07	16.03	17.20
		100	0	16.26	16.25	16.07	17.20

9.4 DL CA Mode

CA configuration	CC1 UL					CC2 DL			Aggregated BW	MPR	CA Active (dBm)	CA Inactive (dBm)	Delta
	Modle	BW(MHz)	Channel	Fre(MHz)	RB,Offset	BW(MHz)	Channel	Fre(MHz)					
CA_2C	QPSK	20	18801	1870.1	1,50	20	999	1969.9	40	0	22.63	22.75	-0.12
CA_7C	QPSK	20	21001	2525.1	1,50	20	3199	2664.9	40	0	22.91	22.98	-0.07
CA_38C	QPSK	20	37901	2585.1	1,50	20	38099	2604.9	40	0	23.03	23.03	0
CA configuration	CC1 UL					CC2 DL			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
	Modle	BW(MHz)	Channel	Fre(MHz)	RB,Offset	BW(MHz)	Channel	Fre(MHz)					
CA_7A-7A	QPSK	20	20850	2510	1,50	20	3350	2680	40	0	22.98	22.98	0
CA configuration	CC1 UL					CC2 DL			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
	Modle	BW(MHz)	Channel	Fre(MHz)	RB,Offset	BW(MHz)	Channel	Fre(MHz)					
CA_2A-4A	QPSK	20	18900	1880	1,0	20	2175	2132.5	40	0	22.7	22.75	-0.05
CA_2A-5A	QPSK	20	18900	1880	1,0	10	2600	889	30	0	22.75	22.75	0
CA_2A-7A	QPSK	20	18900	1880	1,0	20	3100	2655	40	0	22.75	22.75	0
CA_4A-5A	QPSK	20	20175	1732.5	1,0	10	2525	881.5	30	0	22.57	22.63	-0.06
CA_4A-7A	QPSK	20	20175	1732.5	1,0	20	3100	2655	40	0	22.6	22.63	-0.03



9.5 WLAN Mode

Wi-Fi 2.4G Receiver on Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	12.00	10.47
	6/2437	12.00	10.77
	11/2462	12.00	10.44
802.11g (6M)	1/2412	12.00	10.38
	6/2437	12.00	10.60
	11/2462	12.00	10.20
802.11n-HT20 (MCS0)	1/2412	12.00	10.16
	6/2437	12.00	10.52
	11/2462	12.00	10.10

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G Receiver off Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	14.50	13.11
	2/2417	19.00	17.44
	6/2437	19.00	17.51
	11/2462	19.00	17.32
802.11g (6M)	1/2412	16.50	14.82
	2/2417	18.50	16.95
	3/2422	20.00	18.33
	6/2437	20.00	18.38
	7/2442	20.00	18.44
	8/2447	18.50	16.78
	9/2452	17.50	15.82
	10/2457	16.00	14.35
	11/2462	14.50	12.65
802.11n-HT20 (MCS0)	1/2412	14.50	12.94
	2/2417	18.50	16.85
	3/2422	19.00	17.38
	6/2437	19.00	17.43
	7/2442	19.00	17.44
	8/2447	18.50	16.43
	9/2452	17.50	15.76



	10/2457	16.00	14.10
	11/2462	14.50	12.48

Note: Initial test configuration is 802.11b mode.

Wi-Fi 2.4G Hotspot on Mode	Channel /Frequency(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11b (1M)	1/2412	14.50	13.11
	2/2417	17.00	15.33
	6/2437	17.00	15.66
	11/2462	17.00	15.25
802.11g (6M)	1/2412	16.50	14.70
	2/2417	17.00	15.59
	6/2437	17.00	15.44
	10/2457	17.00	15.16
	11/2462	16.50	14.64
802.11n-HT20 (MCS0)	1/2412	14.50	12.94
	2/2417	17.00	15.26
	6/2437	17.00	15.35
	9/2452	17.00	15.25
	10/2457	16.50	14.72
	11/2462	14.50	12.63

Note: Initial test configuration is 802.11b mode.

5GHz Wi-Fi U-NII-1 Receiver off	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	36/5180	13.50	12.07
	40/5200	16.00	14.08
	44/5220	18.00	16.22
	48/5240	18.00	16.16
802.11nHT20(MCS0)	36/5180	13.50	11.57
	40/5200	16.00	14.04
	44/5220	18.00	15.92
	48/5240	18.00	16.09
802.11nHT40(MCS0)	38/5190	13.00	10.72
	46/5230	17.00	14.90
802.11ac-VHT20(MCS0)	36/5180	13.50	11.13
	40/5200	16.00	14.00
	44/5220	18.00	15.93
	48/5240	18.00	16.05



802.11ac-VHT40(MCS0)	38/5190	13.00	11.07
	46/5230	17.00	15.32
802.11ac-VHT80(MCS0)	42/5210	13.00	10.84

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

5GHz Wi-Fi (U-NII-2A) Receiver off	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	52/5260	18.00	16.52
	56/5280	18.00	16.62
	60/5300	17.00	15.60
	64/5320	15.00	13.42
802.11nHT20(MCS0)	52/5260	18.00	16.17
	56/5280	18.00	16.09
	60/5300	17.00	15.08
	64/5320	15.00	13.03
802.11nHT40(MCS0)	54/5270	16.50	14.92
	62/5310	13.00	11.02
802.11ac-VHT20(MCS0)	52/5260	18.00	16.50
	56/5280	18.00	16.61
	60/5300	17.00	15.63
	64/5320	15.00	13.53
802.11ac-VHT40(MCS0)	54/5270	16.50	15.33
	62/5310	13.00	11.73
802.11ac-VHT80(MCS0)	58/5290	11.50	9.26

Note. Initial test configuration is 802.11a mode, since the highest maximum output power.

5GHz Wi-Fi U-NII-2C Receiver off	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	12.50	11.37
	116/5580	18.00	17.02
	128/5640	18.00	17.10
	132/5660	18.00	17.16
	140/5700	12.00	10.92
802.11nHT20 (MCS0)	100/5500	12.50	11.15
	116/5580	18.00	16.71
	128/5640	18.00	16.85
	132/5660	18.00	16.84
	140/5700	12.00	10.63
802.11nHT40 (MCS0)	102/5510	12.00	10.68
	110/5550	18.00	17.08
	118/5590	18.00	16.97



	126/5630	18.00	17.14
	134/5670	14.50	13.18
802.11ac-VHT20 (MCS0)	100/5500	12.50	11.42
	116/5580	18.00	16.83
	128/5640	18.00	16.95
	132/5660	18.00	16.85
	140/5700	12.00	10.63
802.11ac-VHT40 (MCS0)	102/5510	12.00	11.33
	110/5550	18.00	17.01
	118/5590	18.00	17.10
	126/5630	18.00	16.61
	134/5670	14.50	13.11
802.11ac-VHT80 (MCS0)	106/5530	11.50	9.68
	122/5610	15.50	13.72
Note. Initial test configuration is 802.11nHT40 mode, since the highest maximum output power.			

5GHz Wi-Fi U-NII-3 Receiver off	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	149/5745	18.00	16.80
	157/5785	18.00	16.76
	165/5825	18.00	16.95
802.11nHT20(MCS0)	149/5745	18.00	16.72
	157/5785	18.00	16.76
	165/5825	18.00	16.77
802.11nHT40(MCS0)	151/5755	18.00	16.48
	159/5795	18.00	16.53
802.11ac-VHT20(MCS0)	149/5745	18.00	16.83
	157/5785	18.00	16.74
	165/5825	18.00	16.77
802.11ac-VHT40(MCS0)	151/5755	18.00	16.42
	159/5795	18.00	16.52
802.11ac-VHT80(MCS0)	155/5775	16.50	15.41
Note. Initial test configuration is 802.11nHT40 mode, since the highest maximum output power.			

5GHz Wi-Fi U-NII-1 Receiver on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	36/5180	12.50	11.32
	40/5200	12.50	10.91
	44/5220	12.50	11.03
	48/5240	12.50	10.85
802.11nHT20(MCS0)	36/5180	12.50	10.33



	40/5200	12.50	10.37
	44/5220	12.50	10.36
	48/5240	12.50	10.44
802.11nHT40(MCS0)	38/5190	12.50	10.39
	46/5230	12.50	10.52
802.11ac-VHT20(MCS0)	36/5180	12.50	10.38
	40/5200	12.50	10.29
	44/5220	12.50	10.42
	48/5240	12.50	10.51
802.11ac-VHT40(MCS0)	38/5190	12.50	10.60
	46/5230	12.50	10.83
802.11ac-VHT80(MCS0)	42/5210	12.50	10.55
Note. Initial test configuration is 802.11ac-VHT80 mode, since the highest maximum output power.			

5GHz Wi-Fi (U-NII-2A) Receiver on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	52/5260	12.50	10.95
	56/5280	12.50	10.62
	60/5300	12.50	10.75
	64/5320	12.50	10.98
802.11nHT20(MCS0)	52/5260	12.50	10.93
	56/5280	12.50	10.68
	60/5300	12.50	10.75
	64/5320	12.50	10.62
802.11nHT40(MCS0)	54/5270	12.50	10.63
	62/5310	12.50	10.58
802.11ac-VHT20(MCS0)	52/5260	12.50	10.72
	56/5280	12.50	10.81
	60/5300	12.50	10.69
	64/5320	12.50	11.02
802.11ac-VHT40(MCS0)	54/5270	12.50	10.94
	62/5310	12.50	10.99
802.11ac-VHT80(MCS0)	58/5290	11.50	9.52
Note. Initial test configuration is 802.11nHT40 mode, since the highest maximum output power.			

5GHz Wi-Fi U-NII-2C Receiver on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	12.50	11.37
	116/5580	12.50	11.26
	128/5640	12.50	11.42
	132/5660	12.50	11.25



	140/5700	12.50	11.33
802.11nHT20 (MCS0)	100/5500	12.50	11.15
	116/5580	12.50	11.26
	128/5640	12.50	11.30
	132/5660	12.50	11.12
	140/5700	12.50	11.08
802.11nHT40 (MCS0)	102/5510	12.00	10.68
	110/5550	12.50	11.32
	118/5590	12.50	11.22
	126/5630	12.50	11.06
	134/5670	12.50	11.38
802.11ac-VHT20 (MCS0)	100/5500	12.50	11.42
	116/5580	12.50	11.26
	128/5640	12.50	11.18
	132/5660	12.50	11.32
	140/5700	12.50	11.25
802.11ac-VHT40 (MCS0)	102/5510	12.00	11.33
	110/5550	12.50	11.10
	118/5590	12.50	11.32
	126/5630	12.50	11.21
	134/5670	12.50	11.26
802.11ac-VHT80 (MCS0)	106/5530	11.50	9.68
	122/5610	12.50	10.88
Note. Initial test configuration is 802.11ac-VHT80mode, since the highest maximum output power.			

5GHz Wi-Fi U-NII-3 Receiver on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	149/5745	12.50	11.39
	157/5785	12.50	11.32
	165/5825	12.50	11.16
802.11nHT20(MCS0)	149/5745	12.50	11.52
	157/5785	12.50	11.33
	165/5825	12.50	11.24
802.11nHT40(MCS0)	151/5755	12.50	11.11
	159/5795	12.50	11.29
802.11ac-VHT20(MCS0)	149/5745	12.50	11.28
	157/5785	12.50	11.32
	165/5825	12.50	11.26
802.11ac-VHT40(MCS0)	151/5755	12.50	11.49
	159/5795	12.50	11.08
802.11ac-VHT80(MCS0)	155/5775	12.50	10.71
Note. Initial test configuration is 802.11ac-VHT80 mode, since the highest maximum output power.			



5GHz Wi-Fi U-NII-1 Hotspot on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	36/5180	13.50	12.10
	40/5200	16.00	14.42
	44/5220	17.00	15.43
	48/5240	17.00	15.51
802.11nHT20(MCS0)	36/5180	13.50	11.35
	40/5200	16.00	13.76
	44/5220	17.00	15.03
	48/5240	17.00	15.02
802.11nHT40(MCS0)	38/5190	13.00	11.16
	46/5230	17.00	15.20
802.11ac-VHT20(MCS0)	36/5180	13.50	11.42
	40/5200	16.00	13.96
	44/5220	17.00	15.06
	48/5240	17.00	15.11
802.11ac-VHT40(MCS0)	38/5190	13.00	10.96
	46/5230	17.00	15.16
802.11ac-VHT80(MCS0)	42/5210	13.00	10.84
Note. Initial test configuration is 802.11nHT40 mode, since the highest maximum output power.			

5GHz Wi-Fi (U-NII-2A) Hotspot on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	52/5260	17.00	15.58
	56/5280	17.00	15.65
	60/5300	17.00	15.63
	64/5320	15.00	13.61
802.11nHT20(MCS0)	52/5260	17.00	15.72
	56/5280	17.00	15.61
	60/5300	17.00	15.62
	64/5320	15.00	13.46
802.11nHT40(MCS0)	54/5270	16.50	14.90
	62/5310	13.00	11.42
802.11ac-VHT20(MCS0)	52/5260	17.00	15.27
	56/5280	17.00	15.46
	60/5300	17.00	15.44
	64/5320	15.00	13.38
802.11ac-VHT40(MCS0)	54/5270	16.50	15.10
	62/5310	13.00	11.32
802.11ac-VHT80(MCS0)	58/5290	11.50	9.86
Note. Initial test configuration is 802.11a mode, since the highest maximum output power.			



5GHz Wi-Fi U-NII-2C Hotspot on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a (6M)	100/5500	12.50	11.37
	116/5580	17.00	15.68
	128/5640	17.00	15.79
	132/5660	17.00	15.70
	140/5700	12.00	10.90
802.11nHT20 (MCS0)	100/5500	12.50	11.15
	116/5580	17.00	15.82
	128/5640	17.00	15.64
	132/5660	17.00	15.66
	140/5700	12.00	10.72
802.11nHT40 (MCS0)	102/5510	12.00	10.68
	110/5550	17.00	15.60
	118/5590	17.00	15.72
	126/5630	17.00	15.71
	134/5670	14.50	13.20
802.11ac-VHT20 (MCS0)	100/5500	12.50	11.42
	116/5580	17.00	15.70
	128/5640	17.00	15.84
	132/5660	17.00	15.81
	140/5700	12.00	10.62
802.11ac-VHT40 (MCS0)	102/5510	12.00	11.33
	110/5550	17.00	15.82
	118/5590	17.00	15.71
	126/5630	17.00	15.66
	134/5670	14.50	13.10
802.11ac-VHT80 (MCS0)	106/5530	11.50	9.68
	122/5610	15.50	13.72
Note. Initial test configuration is 802.11nHT40 mode, since the highest maximum output power.			

5GHz Wi-Fi U-NII-3 Hotspot on	Channel /Freq.(MHz)	Maximum Output Power (dBm)	
		Tune-up	Meas.
802.11a(6M)	149/5745	17.00	15.68
	157/5785	17.00	15.49
	165/5825	17.00	15.83
802.11nHT20(MCS0)	149/5745	17.00	15.72
	157/5785	17.00	15.70
	165/5825	17.00	15.68
802.11nHT40(MCS0)	151/5755	17.00	15.66



	159/5795	17.00	15.71
802.11ac-VHT20(MCS0)	149/5745	17.00	15.54
	157/5785	17.00	15.62
	165/5825	17.00	15.55
802.11ac-VHT40(MCS0)	151/5755	17.00	15.70
	159/5795	17.00	15.61
802.11ac-VHT80(MCS0)	155/5775	16.50	15.41
Note. Initial test configuration is 802.11nHT40 mode, since the highest maximum output power.			

9.6 Bluetooth Mode

Bluetooth	Conducted Power(dBm)			Tune-up Limit (dBm)
	Channel/Frequency(MHz)			
	Ch 0/2402 MHz	Ch 39/2441 MHz	Ch 78/2480 MHz	
GFSK	9.30	11.16	10.31	12.00
π/4DQPSK	7.34	9.50	8.43	11.00
8DPSK	7.55	9.67	8.53	11.00
BLE	Ch 0/2402 MHz	Ch 19/2440 MHz	Ch 39/2480 MHz	Tune-up Limit (dBm)
GFSK(1M)	4.65	6.04	5.05	9.00
GFSK(2M)	2.95	4.33	3.36	9.00

10 Measured and Reported (Scaled) SAR Results

10.1 EUT Antenna Locations

Ant 0	Main Antenna: GSM1900; WCDMA Band II/IV; LTE Band 2/4/66
	Div Antenna: LTE Band 7/38/41
Ant 1	Main Antenna: GSM 850; WCDMA Band V; LTE Band 5/12/13/17/26
Ant 2	Div Antenna: GSM1900; WCDMA Band II/IV; LTE Band 2/4/66
Ant 4	Main Antenna: LTE Band 7/38/41
Ant 6	Wi-Fi 5G
Ant 9	Wi-Fi 2.4G/Bluetooth

The Detailed Antenna Locations refer to *Antenna Locations*.

Overall (Length x Width): 162.9 mm x 74.55 mm Overall Diagonal: 179.15 mm/Display Diagonal: 169mm						
Distance of the Antenna to the EUT Surface/Edge						
Antenna	Back Side	Front Side	Left Edge	Right Edge	Top Edge	Bottom Edge
Ant 0	<25mm	<25mm	<25mm	>25mm	>25mm	<25mm
Ant 1	<25mm	<25mm	>25mm	<25mm	>25mm	<25mm
Ant 2	<25mm	<25mm	<25mm	>25mm	<25mm	>25mm
Ant 4	<25mm	<25mm	<25mm	>25mm	>25mm	>25mm
Ant 6	<25mm	<25mm	>25mm	<25mm	<25mm	>25mm
Ant 9	<25mm	<25mm	>25mm	<25mm	<25mm	>25mm
Hotspot mode, Positions for SAR Tests						
Mode	Back Side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
Ant 0	Yes	Yes	Yes	N/A	N/A	Yes
Ant 1	Yes	Yes	N/A	Yes	N/A	Yes
Ant 2	Yes	Yes	Yes	N/A	Yes	N/A
Ant 4	Yes	Yes	Yes	N/A	N/A	N/A
Ant 6	Yes	Yes	N/A	Yes	Yes	N/A
Ant 9	Yes	Yes	N/A	Yes	Yes	N/A

Note:

1. Per KDB 941225 D06, when the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 10mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
2. For smart phones with an overall diagonal dimension is 179.15mm. Per KDB 648474 D04, for smart phones with a display diagonal dimension $> 15.0\text{ cm}$ or an overall diagonal dimension $> 16.0\text{ cm}$, product specific 10-g SAR must be tested as a phablet to determine SAR compliance. For Phablet, Since hotspot mode 1-g *reported* SAR $< 1.2\text{W/kg}$, product specific 10-g SAR is no required.
3. Per FCC KDB 447498 D01, for each exposure position, testing of other requised 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:

- a) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - b) ≤ 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.
 - c) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.
4. When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
5. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required.

10.2 Measured SAR Results

Note:

1. The value with blue color is the maximum SAR Value of each test band.
2. For GSM, when multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.
3. For WCDMA, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.
4. For LTE, QPSK with 100% RB allocation, SAR is required when and the highest reported SAR for 1 RB and 50% RB allocation in are $\geq 50\%$ limit(1g).
5. The highest reported SAR for a test configuration is > 1.2 W/kg, SAR is required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. Since the band U-NII-2A does not support hotspot function, hotspot SAR for U-NII-1 is required.

Head SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
GSM 850	Main	Left cheek	0	GSM	Receiver on	-	-	190/836.6	33.80	32.38	0.119	0.152	1.39	0.165	/
		Left Tilt	0	GSM	Receiver on	-	-	190/836.6	33.80	32.38	0.054	0.060	1.39	0.075	/
		Right cheek	0	GSM	Receiver on	-	-	190/836.6	33.80	32.38	0.110	0.060	1.39	0.153	/
		Right Tilt	0	GSM	Receiver on	-	-	190/836.6	33.80	32.38	0.066	0.051	1.39	0.092	/
	Main	Left cheek (Battery2)	0	GSM	Receiver on	-	-	190/836.6	33.80	32.38	0.138	-0.020	1.39	0.191	21
	Main	Left cheek	0	GSM	Receiver on	-	-	661/1880	30.80	29.68	0.036	-0.110	1.29	0.047	/
		Left Tilt	0	GSM	Receiver on	-	-	661/1880	30.80	29.68	0.023	0.008	1.29	0.030	/
		Right cheek	0	GSM	Receiver on	-	-	661/1880	30.80	29.68	0.022	0.014	1.29	0.028	/
		Right Tilt	0	GSM	Receiver on	-	-	661/1880	30.80	29.68	0.033	0.042	1.29	0.042	/
GSM 1900	Main	Left cheek	0	GSM	Receiver on	-	-	661/1880	29.20	28.20	0.453	0.000	1.26	0.570	/
		Left Tilt	0	GSM	Receiver on	-	-	661/1880	29.20	28.20	0.541	0.010	1.26	0.681	/
		Right cheek	0	GSM	Receiver on	-	-	661/1880	29.20	28.20	0.489	-0.020	1.26	0.616	/
		Right Tilt	0	GSM	Receiver on	-	-	661/1880	29.20	28.20	0.634	-0.090	1.26	0.798	22
	Div	Right Tilt (Battery2)	0	GSM	Receiver on	-	-	661/1880	29.20	28.20	0.602	0.015	1.26	0.758	/
	Main	Left cheek	0	RMC 12.2K	Receiver on	-	-	9400/1880	24.30	23.28	0.065	0.013	1.26	0.082	/
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	9400/1880	24.30	23.28	0.043	0.041	1.26	0.055	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	9400/1880	24.30	23.28	0.054	0.190	1.26	0.068	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	9400/1880	24.30	23.28	0.033	0.038	1.26	0.042	/
WCDMA II	Main	Left cheek	0	RMC 12.2K	Receiver on	-	-	9400/1880	19.60	18.36	0.416	0.110	1.33	0.553	/
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	9400/1880	19.60	18.36	0.556	0.020	1.33	0.740	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	9400/1880	19.60	18.36	0.538	0.070	1.33	0.716	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	9400/1880	19.60	18.36	0.576	0.020	1.33	0.766	23



	Div	Right Tilt (Battery2)	0	RMC 12.2K	Receiver on	-	-	9400/1880	19.60	18.36	0.525	-0.100	1.33	0.698	/
WCDMA IV	Main	Left cheek	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	24.50	23.43	0.129	0.034	1.28	0.165	/
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	24.50	23.43	0.052	0.038	1.28	0.066	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	24.50	23.43	0.100	0.096	1.28	0.127	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	24.50	23.43	0.056	0.100	1.28	0.071	/
	Div	Left cheek	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	18.70	17.90	0.402	0.040	1.20	0.483	/
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	18.70	17.90	0.522	0.030	1.20	0.628	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	18.70	17.90	0.532	0.120	1.20	0.640	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	18.70	17.90	0.645	0.030	1.20	0.775	24
	Div	Right Tilt (Battery2)	0	RMC 12.2K	Receiver on	-	-	1413/1732.6	18.70	17.90	0.532	0.019	1.20	0.640	/
WCDMA V	Main	Left cheek	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.30	23.82	0.178	0.071	1.41	0.250	25
		Left Tilt	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.30	23.82	0.087	0.150	1.41	0.122	/
		Right cheek	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.30	23.82	0.157	0.115	1.41	0.221	/
		Right Tilt	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.30	23.82	0.099	0.130	1.41	0.140	/
	Main	Left cheek (Battery2)	0	RMC 12.2K	Receiver on	-	-	4183/836.6	25.30	23.82	0.136	0.026	1.41	0.191	/
LTE 2	Main	Left cheek	0	QPSK	Receiver on	1	50	18700/1860	24.30	22.92	0.058	-0.170	1.37	0.080	/
			0	QPSK	Receiver on	50%	50	18700/1860	23.30	21.86	0.046	0.010	1.39	0.064	/
		Left Tilt	0	QPSK	Receiver on	1	50	18700/1860	24.30	22.92	0.026	0.030	1.37	0.036	/
			0	QPSK	Receiver on	50%	50	18700/1860	23.30	21.86	0.020	-0.090	1.39	0.028	/
		Right cheek	0	QPSK	Receiver on	1	50	18700/1860	24.30	22.92	0.075	-0.010	1.37	0.103	/
			0	QPSK	Receiver on	50%	50	18700/1860	23.30	21.86	0.059	-0.030	1.39	0.082	/
		Right Tilt	0	QPSK	Receiver on	1	50	18700/1860	24.30	22.92	0.050	-0.060	1.37	0.069	/
			0	QPSK	Receiver on	50%	50	18700/1860	23.30	21.86	0.040	-0.180	1.39	0.056	/
	Div	Left cheek	0	QPSK	Receiver on	1	50	18900/1880	20.00	19.25	0.341	0.000	1.19	0.405	/
			0	QPSK	Receiver on	50%	0	18900/1880	20.00	19.19	0.349	0.000	1.21	0.421	/
		Left Tilt	0	QPSK	Receiver on	1	50	18900/1880	20.00	19.25	0.436	0.000	1.19	0.518	/
			0	QPSK	Receiver on	50%	0	18900/1880	20.00	19.19	0.434	-0.020	1.21	0.523	/
		Right cheek	0	QPSK	Receiver on	1	50	18900/1880	20.00	19.25	0.463	0.000	1.19	0.550	/
			0	QPSK	Receiver on	50%	0	18900/1880	20.00	19.19	0.464	-0.010	1.21	0.559	/
		Right Tilt	0	QPSK	Receiver on	1	50	18900/1880	20.00	19.25	0.506	-0.010	1.19	0.601	/
			0	QPSK	Receiver on	50%	0	18900/1880	20.00	19.19	0.512	0.010	1.21	0.617	/
	Div	Right Tilt (Battery2)	0	QPSK	Receiver on	50%	0	18900/1880	20.00	19.19	0.564	-0.190	1.21	0.680	26
LTE 5	Main	Left cheek	0	QPSK	Receiver on	1	25	20450/829	25.30	24.49	0.158	0.035	1.21	0.190	27
			0	QPSK	Receiver on	50%	25	20450/829	24.30	23.45	0.122	0.039	1.22	0.148	/
		Left Tilt	0	QPSK	Receiver on	1	25	20450/829	25.30	24.49	0.084	0.130	1.21	0.101	/
			0	QPSK	Receiver on	50%	25	20450/829	24.30	23.45	0.066	0.110	1.22	0.080	/
		Right cheek	0	QPSK	Receiver on	1	25	20450/829	25.30	24.49	0.154	0.049	1.21	0.186	/
			0	QPSK	Receiver on	50%	25	20450/829	24.30	23.45	0.120	0.071	1.22	0.146	/
		Right Tilt	0	QPSK	Receiver on	1	25	20450/829	25.30	24.49	0.094	0.039	1.21	0.114	/
			0	QPSK	Receiver on	1	25	20450/829	25.30	24.49	0.094	0.039	1.21	0.114	/



	Main		0	QPSK	Receiver on	50%	25	20450/829	24.30	23.45	0.072	0.190	1.22	0.087	/
		Left cheek (Battery2)	0	QPSK	Receiver on	1	25	20450/829	25.30	24.49	0.142	0.030	1.21	0.171	/
LTE 7	Main	Left cheek	0	QPSK	Receiver on	1	50	20850/2510	19.00	18.27	0.242	-0.120	1.18	0.286	/
			0	QPSK	Receiver on	50%	25	21350/2560	19.00	18.24	0.235	0.026	1.19	0.280	/
		Left Tilt	0	QPSK	Receiver on	1	50	20850/2510	19.00	18.27	0.120	-0.170	1.18	0.142	/
			0	QPSK	Receiver on	50%	25	21350/2560	19.00	18.24	0.091	0.024	1.19	0.109	/
		Right cheek	0	QPSK	Receiver on	1	50	20850/2510	19.00	18.27	0.329	0.057	1.18	0.389	28
			0	QPSK	Receiver on	50%	25	21350/2560	19.00	18.24	0.233	0.010	1.19	0.278	/
		Right Tilt	0	QPSK	Receiver on	1	50	20850/2510	19.00	18.27	0.217	0.023	1.18	0.257	/
			0	QPSK	Receiver on	50%	25	21350/2560	19.00	18.24	0.176	0.035	1.19	0.210	/
	Div	Left cheek	0	QPSK	Receiver on	1	50	21350/2560	24.10	23.41	0.150	0.049	1.17	0.176	/
			0	QPSK	Receiver on	50%	25	21350/2560	23.10	22.52	0.116	0.059	1.14	0.133	/
		Left Tilt	0	QPSK	Receiver on	1	50	21350/2560	24.10	23.41	0.096	0.032	1.17	0.113	/
			0	QPSK	Receiver on	50%	25	21350/2560	23.10	22.52	0.089	0.062	1.14	0.102	/
		Right cheek	0	QPSK	Receiver on	1	50	21350/2560	24.10	23.41	0.133	0.054	1.17	0.156	/
			0	QPSK	Receiver on	50%	25	21350/2560	23.10	22.52	0.118	0.020	1.14	0.135	/
		Right Tilt	0	QPSK	Receiver on	1	50	21350/2560	24.10	23.41	0.078	0.043	1.17	0.092	/
			0	QPSK	Receiver on	50%	25	21350/2560	23.10	22.52	0.069	0.095	1.14	0.078	/
	Main	Right cheek (Battery2)	0	QPSK	Receiver on	1	50	20850/2510	19.00	18.27	0.262	0.016	1.18	0.310	/
LTE 12	Main	Left cheek	0	QPSK	Receiver on	1	25	23060/704	25.30	24.63	0.093	-0.021	1.17	0.109	/
			0	QPSK	Receiver on	50%	25	23095/707.5	24.30	23.68	0.075	0.022	1.15	0.087	/
		Left Tilt	0	QPSK	Receiver on	1	25	23060/704	25.30	24.63	0.077	-0.020	1.17	0.090	/
			0	QPSK	Receiver on	50%	25	23095/707.5	24.30	23.68	0.065	0.060	1.15	0.075	/
		Right cheek	0	QPSK	Receiver on	1	25	23060/704	25.30	24.63	0.083	-0.014	1.17	0.097	/
			0	QPSK	Receiver on	50%	25	23095/707.5	24.30	23.68	0.069	0.030	1.15	0.080	/
		Right Tilt	0	QPSK	Receiver on	1	25	23060/704	25.30	24.63	0.047	0.029	1.17	0.055	/
			0	QPSK	Receiver on	50%	25	23095/707.5	24.30	23.68	0.039	0.042	1.15	0.045	/
	Main	Left cheek (Battery2)	0	QPSK	Receiver on	1	25	23060/704	25.30	24.63	0.132	0.052	1.17	0.154	29
LTE 13	Main	Left cheek	0	QPSK	Receiver on	1	25	23230/782	25.30	24.54	0.121	-0.030	1.19	0.144	/
			0	QPSK	Receiver on	50%	13	23230/782	24.30	23.54	0.100	0.000	1.19	0.119	/
		Left Tilt	0	QPSK	Receiver on	1	25	23230/782	25.30	24.54	0.085	-0.020	1.19	0.101	/
			0	QPSK	Receiver on	50%	13	23230/782	24.30	23.54	0.073	0.000	1.19	0.087	/
		Right cheek	0	QPSK	Receiver on	1	25	23230/782	25.30	24.54	0.104	-0.010	1.19	0.124	/
			0	QPSK	Receiver on	50%	13	23230/782	24.30	23.54	0.087	-0.020	1.19	0.104	/
		Right Tilt	0	QPSK	Receiver on	1	25	23230/782	25.30	24.54	0.052	-0.040	1.19	0.062	/
			0	QPSK	Receiver on	50%	13	23230/782	24.30	23.54	0.043	0.000	1.19	0.051	/
	Main	Left cheek (Battery2)	0	QPSK	Receiver on	1	25	23230/782	25.30	24.54	0.125	0.023	1.19	0.149	30
LTE 26	Main	Left cheek	0	QPSK	Receiver on	1	38	26865/831.5	25.30	24.43	0.190	-0.070	1.22	0.232	31
			0	QPSK	Receiver on	50%	18	26765/821.5	24.30	23.45	0.152	0.050	1.22	0.185	/



LTE 38	Main	Left Tilt	0	QPSK	Receiver on	1	38	26865/831.5	25.30	24.43	0.080	0.120	1.22	0.097	/
			0	QPSK	Receiver on	50%	18	26765/821.5	24.30	23.45	0.063	0.022	1.22	0.077	/
		Right cheek	0	QPSK	Receiver on	1	38	26865/831.5	25.30	24.43	0.152	-0.050	1.22	0.186	/
			0	QPSK	Receiver on	50%	18	26765/821.5	24.30	23.45	0.115	0.020	1.22	0.140	/
		Right Tilt	0	QPSK	Receiver on	1	38	26865/831.5	25.30	24.43	0.075	-0.030	1.22	0.092	/
			0	QPSK	Receiver on	50%	18	26765/821.5	24.30	23.45	0.059	-0.050	1.22	0.072	/
	Main	Left cheek (Battery2)	0	QPSK	Receiver on	1	38	26865/831.5	25.30	24.43	0.153	0.120	1.22	0.187	/
			0	QPSK	Receiver on	1	38	26865/831.5	25.30	24.43	0.153	0.120	1.22	0.187	/
LTE 41	Main	Left cheek	0	QPSK	Receiver on	1	50	38150/2610	22.60	21.84	0.518	0.061	1.19	0.617	32
			0	QPSK	Receiver on	50%	25	38150/2610	22.60	21.76	0.491	0.098	1.21	0.596	/
		Left Tilt	0	QPSK	Receiver on	1	50	38150/2610	22.60	21.84	0.119	0.030	1.19	0.142	/
			0	QPSK	Receiver on	50%	25	38150/2610	22.60	21.76	0.119	-0.070	1.21	0.144	/
		Right cheek	0	QPSK	Receiver on	1	50	38150/2610	22.60	21.84	0.355	0.078	1.19	0.423	/
			0	QPSK	Receiver on	50%	25	38150/2610	22.60	21.76	0.382	-0.034	1.21	0.464	/
		Right Tilt	0	QPSK	Receiver on	1	50	38150/2610	22.60	21.84	0.208	0.050	1.19	0.248	/
			0	QPSK	Receiver on	50%	25	38150/2610	22.60	21.76	0.204	0.066	1.21	0.248	/
	Div	Left cheek	0	QPSK	Receiver on	1	50	37850/2580	24.00	23.07	0.100	0.115	1.24	0.124	/
			0	QPSK	Receiver on	50%	0	37850/2580	23.00	22.07	0.090	0.037	1.24	0.111	/
		Left Tilt	0	QPSK	Receiver on	1	50	37850/2580	24.00	23.07	0.066	0.094	1.24	0.082	/
			0	QPSK	Receiver on	50%	0	37850/2580	23.00	22.07	0.055	0.092	1.24	0.068	/
		Right cheek	0	QPSK	Receiver on	1	50	37850/2580	24.00	23.07	0.060	0.131	1.24	0.074	/
			0	QPSK	Receiver on	50%	0	37850/2580	23.00	22.07	0.042	0.144	1.24	0.052	/
		Right Tilt	0	QPSK	Receiver on	1	50	37850/2580	24.00	23.07	0.049	0.082	1.24	0.060	/
			0	QPSK	Receiver on	50%	0	37850/2580	23.00	22.07	0.031	0.099	1.24	0.039	/
	Main	Left cheek (Battery2)	0	QPSK	Receiver on	1	50	38150/2610	22.60	21.84	0.462	0.040	1.19	0.550	/
			0	QPSK	Receiver on	1	50	38150/2610	22.60	21.84	0.462	0.040	1.19	0.550	/
LTE 41	Main	Left cheek	0	QPSK	Receiver on	1	50	39750/2506	21.60	20.87	0.438	0.034	1.18	0.518	/
			0	QPSK	Receiver on	50%	25	39750/2506	21.60	20.79	0.423	0.085	1.21	0.510	/
		Left Tilt	0	QPSK	Receiver on	1	50	39750/2506	21.60	20.87	0.298	-0.160	1.18	0.353	/
			0	QPSK	Receiver on	50%	25	39750/2506	21.60	20.79	0.279	0.074	1.21	0.336	/
		Right cheek	0	QPSK	Receiver on	1	50	39750/2506	21.60	20.87	0.451	0.011	1.18	0.534	33
			0	QPSK	Receiver on	50%	25	39750/2506	21.60	20.79	0.357	0.011	1.21	0.430	/
		Right Tilt	0	QPSK	Receiver on	1	50	39750/2506	21.60	20.87	0.185	0.074	1.18	0.219	/
			0	QPSK	Receiver on	50%	25	39750/2506	21.60	20.79	0.182	0.085	1.21	0.219	/
	Div	Left cheek	0	QPSK	Receiver on	1	50	40185/2549.5	24.00	23.31	0.118	0.014	1.17	0.138	/
			0	QPSK	Receiver on	50%	50	39750/2506	23.00	22.25	0.093	0.011	1.19	0.111	/
		Left Tilt	0	QPSK	Receiver on	1	50	40185/2549.5	24.00	23.31	0.061	0.110	1.17	0.072	/
			0	QPSK	Receiver on	50%	50	39750/2506	23.00	22.25	0.041	0.014	1.19	0.049	/
		Right cheek	0	QPSK	Receiver on	1	50	40185/2549.5	24.00	23.31	0.089	0.160	1.17	0.104	/
			0	QPSK	Receiver on	50%	50	39750/2506	23.00	22.25	0.067	0.028	1.19	0.080	/
		Right Tilt	0	QPSK	Receiver on	1	50	40185/2549.5	24.00	23.31	0.048	0.140	1.17	0.056	/
			0	QPSK	Receiver on	50%	50	39750/2506	23.00	22.25	0.042	0.058	1.19	0.050	/
	Main	Right cheek	0	QPSK	Receiver on	1	50	39750/2506	21.60	20.87	0.446	0.010	1.18	0.528	/
			0	QPSK	Receiver on	1	50	39750/2506	21.60	20.87	0.446	0.010	1.18	0.528	/



SAR Test Report

Report No.: R2211A1111-S1V1

		(Battery2)													
LTE 66	Main	Left cheek	0	QPSK	Receiver on	1	50	132072/1720	24.50	23.19	0.098	-0.039	1.35	0.132	/
			0	QPSK	Receiver on	50%	25	132072/1720	23.50	22.14	0.076	0.020	1.37	0.104	/
		Left Tilt	0	QPSK	Receiver on	1	50	132072/1720	24.50	23.19	0.043	0.020	1.35	0.058	/
			0	QPSK	Receiver on	50%	25	132072/1720	23.50	22.14	0.034	-0.090	1.37	0.047	/
		Right cheek	0	QPSK	Receiver on	1	50	132072/1720	24.50	23.19	0.078	-0.040	1.35	0.105	/
			0	QPSK	Receiver on	50%	25	132072/1720	23.50	22.14	0.060	0.000	1.37	0.082	/
		Right Tilt	0	QPSK	Receiver on	1	50	132072/1720	24.50	23.19	0.043	-0.170	1.35	0.058	/
			0	QPSK	Receiver on	50%	25	132072/1720	23.50	22.14	0.032	0.045	1.37	0.044	/
	Div	Left cheek	0	QPSK	Receiver on	1	50	132572/1770	19.70	18.82	0.351	0.010	1.22	0.430	/
			0	QPSK	Receiver on	50%	0	132322/1745	19.70	18.80	0.387	-0.020	1.23	0.476	/
		Left Tilt	0	QPSK	Receiver on	1	50	132572/1770	19.70	18.82	0.521	-0.010	1.22	0.638	/
			0	QPSK	Receiver on	50%	0	132322/1745	19.70	18.80	0.453	-0.010	1.23	0.557	/
		Right cheek	0	QPSK	Receiver on	1	50	132572/1770	19.70	18.82	0.624	-0.030	1.22	0.764	/
			0	QPSK	Receiver on	50%	0	132322/1745	19.70	18.80	0.558	-0.030	1.23	0.686	/
		Right Tilt	0	QPSK	Receiver on	1	50	132572/1770	19.70	18.82	0.698	-0.020	1.22	0.855	34
			0	QPSK	Receiver on	1	50	132322/1745	19.70	18.80	0.635	0.018	1.23	0.781	/
			0	QPSK	Receiver on	1	50	132072/1720	19.70	18.76	0.628	-0.040	1.24	0.780	/
			0	QPSK	Receiver on	50%	0	132322/1745	19.70	18.80	0.615	-0.010	1.23	0.757	/
			0	QPSK	Receiver on	100%	0	132072/1720	19.70	18.69	0.588	0.016	1.26	0.742	/
	Div	Right Tilt (SIM2)	0	QPSK	Receiver on	1	50	132572/1770	19.70	18.82	0.632	0.022	1.22	0.774	/
		Right Tilt (Battery2)	0	QPSK	Receiver on	1	50	132572/1770	19.70	18.82	0.621	0.018	1.22	0.760	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No
2.4G	Wi-Fi	Left cheek	0	802.11b	98.0%	Receiver on	6/2437	12.00	10.77	0.149	0.048	1.35	0.202	35
		Left Tilt	0	802.11b	98.0%	Receiver on	6/2437	12.00	10.77	0.070	-0.140	1.35	0.094	/
		Right cheek	0	802.11b	98.0%	Receiver on	6/2437	12.00	10.77	0.048	0.031	1.35	0.064	/
		Right Tilt	0	802.11b	98.0%	Receiver on	6/2437	12.00	10.77	0.030	-0.130	1.35	0.040	/
		Left cheek (Battery2)	0	802.11b	98.0%	Receiver on	6/2437	12.00	10.77	0.126	0.029	1.35	0.171	/
U-NII-1	Wi-Fi	Left cheek	0	802.11ac-VHT80	100.0%	Receiver on	42/5210	12.50	10.55	0.151	0.085	1.57	0.237	/
		Left Tilt	0	802.11ac-VHT80	100.0%	Receiver on	42/5210	12.50	10.55	0.234	0.052	1.57	0.367	/
		Right cheek	0	802.11ac-VHT80	100.0%	Receiver on	42/5210	12.50	10.55	0.155	0.025	1.57	0.243	/
		Right Tilt	0	802.11ac-VHT80	100.0%	Receiver on	42/5210	12.50	10.55	0.193	0.150	1.57	0.302	/
		Left Tilt (Battery2)	0	802.11ac-VHT80	100.0%	Receiver on	42/5210	12.50	10.55	0.200	0.055	1.57	0.313	/
U-NII-2A	Wi-Fi	Left cheek	0	802.11nHT40	100.0%	Receiver on	54/5270	12.50	10.63	0.159	-0.180	1.54	0.245	/
		Left Tilt	0	802.11nHT40	100.0%	Receiver on	54/5270	12.50	10.63	0.272	0.085	1.54	0.418	/
		Right cheek	0	802.11nHT40	100.0%	Receiver on	54/5270	12.50	10.63	0.193	0.170	1.54	0.297	/



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		Right Tilt	0	802.11nHT40	100.0%	Receiver on	54/5270	12.50	10.63	0.233	0.096	1.54	0.358	/
		Left Tilt (Battery2)	0	802.11nHT40	100.0%	Receiver on	54/5270	12.50	10.63	0.312	0.105	1.54	0.480	/
U-NII-2C	Wi-Fi	Left cheek	0	802.11ac-VHT80	100.0%	Receiver on	122/5610	12.50	10.88	0.246	0.085	1.45	0.357	/
		Left Tilt	0	802.11ac-VHT80	100.0%	Receiver on	122/5610	12.50	10.88	0.367	-0.180	1.45	0.533	/
		Right cheek	0	802.11ac-VHT80	100.0%	Receiver on	122/5610	12.50	10.88	0.225	-0.160	1.45	0.327	/
		Right Tilt	0	802.11ac-VHT80	100.0%	Receiver on	122/5610	12.50	10.88	0.291	0.058	1.45	0.423	/
		Left Tilt (Battery2)	0	802.11ac-VHT80	100.0%	Receiver on	122/5610	12.50	10.88	0.409	0.082	1.45	0.594	36
U-NII-3	Wi-Fi	Left cheek	0	802.11ac-VHT80	100.0%	Receiver on	155/5775	12.50	10.71	0.295	0.015	1.51	0.445	/
		Left Tilt	0	802.11ac-VHT80	100.0%	Receiver on	155/5775	12.50	10.71	0.401	0.085	1.51	0.606	/
		Right cheek	0	802.11ac-VHT80	100.0%	Receiver on	155/5775	12.50	10.71	0.263	0.058	1.51	0.397	/
		Right Tilt	0	802.11ac-VHT80	100.0%	Receiver on	155/5775	12.50	10.71	0.286	-0.110	1.51	0.432	/
		Left Tilt (Battery2)	0	802.11ac-VHT80	100.0%	Receiver on	155/5775	12.50	10.71	0.405	0.084	1.51	0.612	/
Bluetooth	BT	Left cheek	0	DH5	76.9%	Full Power	39/2441	12.00	11.16	0.067	0.052	1.58	0.106	37
		Left Tilt	0	DH5	76.9%	Full Power	39/2441	12.00	11.16	0.003	0.085	1.58	0.005	/
		Right cheek	0	DH5	76.9%	Full Power	39/2441	12.00	11.16	0.001	-0.096	1.58	0.002	/
		Right Tilt	0	DH5	76.9%	Full Power	39/2441	12.00	11.16	0.001	0.037	1.58	0.002	/
		Left cheek (Battery2)	0	DH5	76.9%	Full Power	39/2441	12.00	11.16	0.047	0.060	1.58	0.074	/



Body-worn SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
GSM 850	Main	Back Side	15	GSM	Body SAR	-	-	190/836.6	33.80	32.38	0.190	0.025	1.39	0.263	/
		Front Side	15	GSM	Body SAR	-	-	190/836.6	33.80	32.38	0.141	0.011	1.39	0.196	/
	Main	Back Side (Battery2)	15	GSM	Body SAR	-	-	190/836.6	33.80	32.38	0.194	0.040	1.39	0.269	38
GSM 1900	Main	Back Side	15	GSM	Body SAR	-	-	661/1880	30.80	29.68	0.135	0.019	1.29	0.175	/
		Front Side	15	GSM	Body SAR	-	-	661/1880	30.80	29.68	0.081	0.024	1.29	0.105	/
	Div	Back Side	15	GSM	Body SAR	-	-	661/1880	30.60	29.20	0.083	0.060	1.38	0.115	/
		Front Side	15	GSM	Body SAR	-	-	661/1880	30.60	29.20	0.068	-0.180	1.38	0.094	/
	Main	Back Side (Battery2)	15	GSM	Body SAR	-	-	661/1880	30.80	29.68	0.145	-0.070	1.29	0.188	39
WCDMA II	Main	Back Side	15	RMC	Body SAR	-	-	9400/1880	24.30	23.28	0.185	0.042	1.26	0.234	/
		Front Side	15	RMC	Body SAR	-	-	9400/1880	24.30	23.28	0.100	0.011	1.26	0.126	/
	Div	Back Side	15	RMC	Body SAR	-	-	9400/1880	22.10	20.97	0.278	0.120	1.30	0.361	40
		Front Side	15	RMC	Body SAR	-	-	9400/1880	22.10	20.97	0.238	0.100	1.30	0.309	/
	Div	Back Side (Battery2)	15	RMC	Body SAR	-	-	9400/1880	22.10	20.97	0.236	0.170	1.30	0.306	/
WCDMA IV	Main	Back Side	15	RMC	Body SAR	-	-	1413/1732.6	22.60	21.65	0.194	0.038	1.24	0.241	/
		Front Side	15	RMC	Body SAR	-	-	1413/1732.6	22.60	21.65	0.127	0.042	1.24	0.158	/
	Div	Back Side	15	RMC	Body SAR	-	-	1413/1732.6	21.20	20.43	0.166	-0.011	1.19	0.198	/
		Front Side	15	RMC	Body SAR	-	-	1413/1732.6	21.20	20.43	0.138	0.025	1.19	0.165	/
	Main	Back Side (Battery2)	15	RMC	Body SAR	-	-	1413/1732.6	22.60	21.65	0.209	0.100	1.24	0.260	41
WCDMA V	Main	Back Side	15	RMC	Body SAR	-	-	4183/836.6	25.30	23.82	0.243	0.014	1.41	0.342	/
		Front Side	15	RMC	Body SAR	-	-	4183/836.6	25.30	23.82	0.165	-0.020	1.41	0.232	/
	Main	Back Side (Battery2)	15	RMC	Body SAR	-	-	4183/836.6	25.30	23.82	0.256	0.060	1.41	0.360	42
LTE 2	Main	Back Side	15	QPSK	Body SAR	1	50	18700/1860	23.60	22.13	0.248	0.090	1.40	0.348	/
			15	QPSK	Body SAR	50%	0	18900/1880	23.30	21.94	0.245	-0.034	1.37	0.335	/
		Front Side	15	QPSK	Body SAR	1	50	18700/1860	23.60	22.13	0.142	0.029	1.40	0.199	/
			15	QPSK	Body SAR	50%	0	18900/1880	23.30	21.94	0.146	0.015	1.37	0.200	/
	Div	Back Side	15	QPSK	Body SAR	1	50	18900/1880	22.50	21.69	0.293	0.013	1.21	0.353	/
			15	QPSK	Body SAR	50%	0	18900/1880	22.50	21.69	0.309	0.090	1.21	0.372	43
		Front Side	15	QPSK	Body SAR	1	50	18900/1880	22.50	21.69	0.242	-0.011	1.21	0.292	/
			15	QPSK	Body SAR	50%	0	18900/1880	22.50	21.69	0.237	0.020	1.21	0.286	/
	Div	Back Side (SIM2)	15	QPSK	Body SAR	50%	0	18900/1880	22.50	21.69	0.276	-0.060	1.21	0.333	/
		Back Side (Battery2)	15	QPSK	Body SAR	50%	0	18900/1880	22.50	21.69	0.289	0.045	1.21	0.348	/
LTE 5	Main	Back Side	15	QPSK	Body SAR	1	25	20450/829	25.30	24.49	0.268	0.050	1.21	0.323	/
			15	QPSK	Body SAR	50%	25	20450/829	24.30	23.45	0.213	0.013	1.22	0.259	/



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		Front Side	15	QPSK	Body SAR	1	25	20450/829	25.30	24.49	0.213	0.060	1.21	0.257	/
			15	QPSK	Body SAR	50%	25	20450/829	24.30	23.45	0.168	0.100	1.22	0.204	/
LTE 7	Main	Back Side (Battery2)	15	QPSK	Body SAR	1	25	20450/829	25.30	24.49	0.283	-0.060	1.21	0.341	44
			15	QPSK	Body SAR	50%	25	20450/829	25.30	24.49	0.283	-0.060	1.21	0.341	44
		Front Side	15	QPSK	Body SAR	1	50	20850/2510	21.10	20.38	0.265	-0.020	1.18	0.313	45
			15	QPSK	Body SAR	50%	25	21350/2560	21.10	20.36	0.243	0.060	1.19	0.288	/
	Div	Back Side	15	QPSK	Body SAR	1	50	20850/2510	21.10	20.38	0.195	0.024	1.18	0.230	/
			15	QPSK	Body SAR	50%	25	21350/2560	21.10	20.36	0.204	0.038	1.19	0.242	/
		Front Side	15	QPSK	Body SAR	1	50	20850/2510	22.40	21.73	0.200	-0.024	1.17	0.233	/
			15	QPSK	Body SAR	50%	50	20850/2510	22.40	21.68	0.233	-0.150	1.18	0.275	/
	Main	Back Side (Battery2)	15	QPSK	Body SAR	1	50	20850/2510	22.40	21.73	0.163	0.028	1.17	0.190	/
			15	QPSK	Body SAR	50%	50	20850/2510	22.40	21.68	0.164	-0.010	1.18	0.194	/
LTE 12	Main	Back Side	15	QPSK	Body SAR	1	25	23060/704	25.30	24.63	0.220	0.021	1.17	0.257	46
			15	QPSK	Body SAR	50%	25	23095/707.5	24.30	23.68	0.182	0.019	1.15	0.210	/
		Front Side	15	QPSK	Body SAR	1	25	23060/704	25.30	24.63	0.182	0.025	1.17	0.212	/
			15	QPSK	Body SAR	50%	25	23095/707.5	24.30	23.68	0.147	-0.130	1.15	0.170	/
	Main	Back Side (Battery2)	15	QPSK	Body SAR	1	25	23060/704	25.30	24.63	0.187	0.070	1.17	0.218	/
			15	QPSK	Body SAR	1	25	23060/704	25.30	24.63	0.187	0.070	1.17	0.218	/
LTE 13	Main	Back Side	15	QPSK	Body SAR	1	25	23230/782	25.30	24.54	0.283	0.010	1.19	0.337	47
			15	QPSK	Body SAR	50%	13	23230/782	24.30	23.54	0.225	0.090	1.19	0.268	/
		Front Side	15	QPSK	Body SAR	1	25	23230/782	25.30	24.54	0.181	0.043	1.19	0.216	/
			15	QPSK	Body SAR	50%	13	23230/782	24.30	23.54	0.144	0.011	1.19	0.172	/
	Main	Back Side (Battery2)	15	QPSK	Body SAR	1	25	23230/782	25.30	24.54	0.258	0.015	1.19	0.307	/
			15	QPSK	Body SAR	1	25	23230/782	25.30	24.54	0.258	0.015	1.19	0.307	/
LTE 26	Main	Back Side	15	QPSK	Body SAR	1	38	26865/831.5	25.30	24.43	0.271	-0.011	1.22	0.331	48
			15	QPSK	Body SAR	50%	18	26765/821.5	24.30	23.45	0.215	-0.032	1.22	0.261	/
		Front Side	15	QPSK	Body SAR	1	38	26865/831.5	25.30	24.43	0.183	0.048	1.22	0.224	/
			15	QPSK	Body SAR	50%	18	26765/821.5	24.30	23.45	0.140	0.025	1.22	0.170	/
	Main	Back Side (Battery2)	15	QPSK	Body SAR	1	38	26865/831.5	25.30	24.43	0.229	0.010	1.22	0.280	/
			15	QPSK	Body SAR	1	38	26865/831.5	25.30	24.43	0.229	0.010	1.22	0.280	/
LTE 38	Main	Back Side	15	QPSK	Body SAR	1	50	38150/2610	24.10	23.29	0.159	0.150	1.21	0.192	/
			15	QPSK	Body SAR	50%	25	38150/2610	23.10	22.27	0.114	0.038	1.21	0.138	/
		Front Side	15	QPSK	Body SAR	1	50	38150/2610	24.10	23.29	0.126	-0.040	1.21	0.152	/
			15	QPSK	Body SAR	50%	25	38150/2610	23.10	22.27	0.100	0.010	1.21	0.121	/
	Div	Back Side	15	QPSK	Body SAR	1	50	37850/2580	23.60	22.73	0.165	-0.072	1.22	0.202	/
			15	QPSK	Body SAR	50%	25	37850/2580	23.00	22.14	0.144	0.015	1.22	0.176	/
		Front Side	15	QPSK	Body SAR	1	50	37850/2580	23.60	22.73	0.104	0.029	1.22	0.127	/
			15	QPSK	Body SAR	50%	25	37850/2580	23.00	22.14	0.088	-0.041	1.22	0.107	/
	Div	Back Side (Battery2)	15	QPSK	Body SAR	1	50	37850/2580	23.60	22.73	0.169	0.012	1.22	0.206	49
			15	QPSK	Body SAR	1	50	37850/2580	23.60	22.73	0.169	0.012	1.22	0.206	49
LTE	Main	Back Side	15	QPSK	Body SAR	1	50	39750/2506	23.30	22.58	0.162	0.025	1.18	0.191	/



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41			15	QPSK	Body SAR	50%	25	39750/2506	23.10	22.37	0.183	0.060	1.18	0.216	/
		Front Side	15	QPSK	Body SAR	1	50	39750/2506	23.30	22.58	0.158	0.048	1.18	0.186	/
			15	QPSK	Body SAR	50%	25	39750/2506	23.10	22.37	0.149	0.022	1.18	0.176	/
	Div	Back Side	15	QPSK	Body SAR	1	50	40185/2549.5	24.00	23.31	0.192	0.042	1.17	0.225	50
			15	QPSK	Body SAR	50%	50	39750/2506	23.00	22.25	0.143	0.013	1.19	0.170	/
		Front Side	15	QPSK	Body SAR	1	50	40185/2549.5	24.00	23.31	0.160	0.018	1.17	0.188	/
			15	QPSK	Body SAR	50%	50	39750/2506	23.00	22.25	0.114	-0.052	1.19	0.135	/
	Div	Back Side (Battery2)	15	QPSK	Body SAR	1	50	40185/2549.5	24.00	23.31	0.179	0.019	1.17	0.210	/
LTE 66	Main	Back Side	15	QPSK	Body SAR	1	50	132072/1720	23.50	22.26	0.239	0.028	1.33	0.318	/
			15	QPSK	Body SAR	50%	25	132072/1720	23.50	22.22	0.253	0.110	1.34	0.340	51
		Front Side	15	QPSK	Body SAR	1	50	132072/1720	23.50	22.26	0.139	0.015	1.33	0.185	/
			15	QPSK	Body SAR	50%	25	132072/1720	23.50	22.22	0.137	0.033	1.34	0.184	/
	Div	Back Side	15	QPSK	Body SAR	1	50	132572/1770	22.00	20.98	0.187	0.060	1.26	0.237	/
			15	QPSK	Body SAR	50%	0	132322/1745	22.00	21.04	0.157	0.018	1.25	0.196	/
		Front Side	15	QPSK	Body SAR	1	50	132572/1770	22.00	20.98	0.098	0.024	1.26	0.124	/
			15	QPSK	Body SAR	50%	0	132322/1745	22.00	21.04	0.070	-0.015	1.25	0.087	/
	Main (Battery2)	Back Side	15	QPSK	Body SAR	50%	25	132072/1720	23.50	22.22	0.244	0.110	1.34	0.328	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
2.4G	Wi-Fi	Back Side	15	802.11b	98.0%	Receiver off	6/2437	19.00	17.51	0.168	0.020	1.44	0.242	/
		Front Side	15	802.11b	98.0%	Receiver off	6/2437	19.00	17.51	0.096	0.026	1.44	0.138	/
		Back Side (Battery2)	15	802.11b	98.0%	Receiver off	6/2437	19.00	17.51	0.211	0.010	1.44	0.303	52
U-NII-1	Wi-Fi	Back Side	15	802.11a	100.0%	Receiver off	44/5220	18.00	16.22	0.253	0.038	1.51	0.381	/
		Front Side	15	802.11a	100.0%	Receiver off	44/5220	18.00	16.22	0.084	0.021	1.51	0.127	/
		Back Side (Battery2)	15	802.11a	100.0%	Receiver off	44/5220	18.00	16.22	0.181	0.099	1.51	0.273	/
U-NII-2A	Wi-Fi	Back Side	15	802.11a	100.0%	Receiver off	56/5280	18.00	16.62	0.286	-0.100	1.37	0.393	/
		Front Side	15	802.11a	100.0%	Receiver off	56/5280	18.00	16.62	0.102	0.032	1.37	0.140	/
		Back Side (Battery2)	15	802.11a	100.0%	Receiver off	56/5280	18.00	16.62	0.257	0.039	1.37	0.353	/
U-NII-2C	Wi-Fi	Back Side	15	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.14	0.314	0.011	1.22	0.383	53
		Front Side	15	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.14	0.105	0.028	1.22	0.128	/
		Back Side (Battery2)	15	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.14	0.267	0.059	1.22	0.325	/
U-NII-3	Wi-Fi	Back Side	15	802.11nHT40	100.0%	Receiver off	159/5795	18.00	16.53	0.268	0.060	1.40	0.376	/
		Front Side	15	802.11nHT40	100.0%	Receiver off	159/5795	18.00	16.53	0.129	0.015	1.40	0.181	/
		Back Side (Battery2)	15	802.11nHT40	100.0%	Receiver off	159/5795	18.00	16.53	0.239	0.146	1.40	0.335	/

**802.11g SAR Evaluation**

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Channel Frequency(MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g(W/Kg)	Scaling Factor	Report SAR1g(W/kg)	802.11g SAR
2.4G	Wi-Fi	Back Side	15	11b	98.0%	Receiver off	6/2437	20.00	19.00	0.242	1.28	0.310	NO
		Front Side	15	11b	98.0%	Receiver off	6/2437	20.00	19.00	0.138	1.28	0.177	NO



Hotspot SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Power Reduction	RB	Offset	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
GSM850	Main	Back Side	10	2TX Slots	Hotspot on	-	-	190/836.6	27.20	25.69	0.155	0.010	1.42	0.219	/
		Front Side	10	2TX Slots	Hotspot on	-	-	190/836.6	27.20	25.69	0.116	0.025	1.42	0.164	/
		Left Edge	10	2TX Slots	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	10	2TX Slots	Hotspot on	-	-	190/836.6	27.20	25.69	0.064	0.031	1.42	0.091	/
		Top Edge	10	2TX Slots	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	2TX Slots	Hotspot on	-	-	190/836.6	27.20	25.69	0.069	0.015	1.42	0.098	/
	Main	Back Side (Battery2)	10	2TX Slots	Hotspot on	-	-	190/836.6	27.20	25.69	0.180	0.010	1.42	0.255	54
GSM1900	Main	Back Side	10	2TX Slots	Hotspot on	-	-	661/1880	28.00	26.78	0.272	0.018	1.32	0.360	/
		Front Side	10	2TX Slots	Hotspot on	-	-	661/1880	28.00	26.78	0.164	0.036	1.32	0.217	/
		Left Edge	10	2TX Slots	Hotspot on	-	-	661/1880	28.00	26.78	0.069	-0.022	1.32	0.091	/
		Right Edge	10	2TX Slots	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	2TX Slots	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	2TX Slots	Hotspot on	-	-	661/1880	28.00	26.78	0.408	0.052	1.32	0.540	/
	Div	Back Side	10	2TX Slots	Hotspot on	-	-	661/1880	25.20	23.93	0.135	-0.032	1.34	0.181	/
		Front Side	10	2TX Slots	Hotspot on	-	-	661/1880	25.20	23.93	0.089	0.018	1.34	0.119	/
		Left Edge	10	2TX Slots	Hotspot on	-	-	661/1880	25.20	23.93	0.054	0.011	1.34	0.072	/
		Right Edge	10	2TX Slots	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	2TX Slots	Hotspot on	-	-	661/1880	25.20	23.93	0.245	0.042	1.34	0.328	/
		Bottom Edge	10	2TX Slots	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
	Main	Bottom Edge (Battery2)	10	2TX Slots	Hotspot on	-	-	661/1880	28.00	26.78	0.461	0.180	1.32	0.611	55
WCDMA II	Main	Back Side	10	RMC	Hotspot on	-	-	9400/1880	22.90	21.79	0.353	0.026	1.29	0.456	/
		Front Side	10	RMC	Hotspot on	-	-	9400/1880	22.90	21.79	0.198	0.044	1.29	0.256	/
		Left Edge	10	RMC	Hotspot on	-	-	9400/1880	22.90	21.79	0.090	0.020	1.29	0.116	/
		Right Edge	10	RMC	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	RMC	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	RMC	Hotspot on	-	-	9400/1880	22.90	21.79	0.431	0.053	1.29	0.557	56
	Div	Back Side	10	RMC	Hotspot on	-	-	9400/1880	17.50	16.43	0.110	0.042	1.28	0.141	/
		Front Side	10	RMC	Hotspot on	-	-	9400/1880	17.50	16.43	0.077	0.018	1.28	0.099	/
		Left Edge	10	RMC	Hotspot on	-	-	9400/1880	17.50	16.43	0.046	-0.010	1.28	0.059	/
		Right Edge	10	RMC	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	RMC	Hotspot on	-	-	9400/1880	17.50	16.43	0.222	0.011	1.28	0.284	/
		Bottom Edge	10	RMC	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
	Main	Bottom Edge (Battery2)	10	RMC	Hotspot on	-	-	9400/1880	22.90	21.79	0.427	0.053	1.29	0.551	/
WCDMA IV	Main	Back Side	10	RMC	Hotspot on	-	-	1413/1732.6	22.40	21.22	0.379	0.029	1.31	0.497	/
		Front Side	10	RMC	Hotspot on	-	-	1413/1732.6	22.40	21.22	0.209	0.010	1.31	0.274	/
		Left Edge	10	RMC	Hotspot on	-	-	1413/1732.6	22.40	21.22	0.078	-0.036	1.31	0.102	/



		Right Edge	10	RMC	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	RMC	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	RMC	Hotspot on	-	-	1413/1732.6	22.40	21.22	0.531	0.055	1.31	0.697	57
	Div	Back Side	10	RMC	Hotspot on	-	-	1413/1732.6	16.50	15.73	0.114	0.027	1.19	0.136	/
		Front Side	10	RMC	Hotspot on	-	-	1413/1732.6	16.50	15.73	0.080	0.031	1.19	0.096	/
		Left Edge	10	RMC	Hotspot on	-	-	1413/1732.6	16.50	15.73	0.045	0.018	1.19	0.054	/
		Right Edge	10	RMC	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	RMC	Hotspot on	-	-	1413/1732.6	16.50	15.73	0.250	0.041	1.19	0.298	/
		Bottom Edge	10	RMC	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge (Battery2)	10	RMC	Hotspot on	-	-	1413/1732.6	22.40	21.22	0.488	0.028	1.31	0.640	/
	Main	Bottom Edge (Battery2)	10	RMC	Hotspot on	-	-	1413/1732.6	22.40	21.22	0.488	0.028	1.31	0.640	/
WCDMA V	Main	Back Side	10	RMC	Hotspot on	-	-	4183/836.6	25.30	23.82	0.431	-0.024	1.41	0.606	58
		Front Side	10	RMC	Hotspot on	-	-	4183/836.6	25.30	23.82	0.323	0.012	1.41	0.454	/
		Left Edge	10	RMC	Hotspot on	-	-	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	10	RMC	Hotspot on	-	-	4183/836.6	25.30	23.82	0.125	0.060	1.41	0.176	/
		Top Edge	10	RMC	Hotspot on	-	-	N/A	N/A	N/A	0.092	NA	N/A	N/A	/
		Bottom Edge	10	RMC	Hotspot on	-	-	4183/836.6	25.30	23.82	0.203	0.048	1.41	0.285	/
	Main	Back Side (Battery2)	10	RMC	Hotspot on	-	-	4183/836.6	25.30	23.82	0.423	-0.024	1.41	0.595	/
LTE 2	Main	Back Side	10	QPSK	Hotspot on	1	50	18700/1860	23.60	22.13	0.326	0.017	1.40	0.457	/
			10	QPSK	Hotspot on	50%	0	18900/1880	23.30	21.94	0.337	0.029	1.37	0.461	/
		Front Side	10	QPSK	Hotspot on	1	50	18700/1860	23.60	22.13	0.193	0.032	1.40	0.271	/
			10	QPSK	Hotspot on	50%	0	18900/1880	23.30	21.94	0.192	0.015	1.37	0.263	/
		Left Edge	10	QPSK	Hotspot on	1	50	18700/1860	23.60	22.13	0.130	-0.080	1.40	0.182	/
			10	QPSK	Hotspot on	50%	0	18900/1880	23.30	21.94	0.079	0.033	1.37	0.108	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	50	18700/1860	23.60	22.13	0.489	0.049	1.40	0.686	59
			10	QPSK	Hotspot on	50%	0	18900/1880	23.30	21.94	0.426	0.052	1.37	0.583	/
	Div	Back Side	10	QPSK	Hotspot on	1	50	18900/1880	17.50	16.82	0.102	0.080	1.17	0.119	/
			10	QPSK	Hotspot on	50%	0	18900/1880	17.50	16.73	0.102	0.027	1.19	0.122	/
		Front Side	10	QPSK	Hotspot on	1	50	18900/1880	17.50	16.82	0.072	0.031	1.17	0.084	/
			10	QPSK	Hotspot on	50%	0	18900/1880	17.50	16.73	0.074	0.044	1.19	0.088	/
		Left Edge	10	QPSK	Hotspot on	1	50	18900/1880	17.50	16.82	0.045	0.041	1.17	0.053	/
			10	QPSK	Hotspot on	50%	0	18900/1880	17.50	16.73	0.045	0.029	1.19	0.054	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	QPSK	Hotspot on	1	50	18900/1880	17.50	16.82	0.247	0.060	1.17	0.289	/
			10	QPSK	Hotspot on	50%	0	18900/1880	17.50	16.73	0.211	0.031	1.19	0.252	/
		Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/



	Main	Bottom Edge (Battery2)	10	QPSK	Hotspot on	1	50	18700/1860	23.60	22.13	0.482	0.049	1.40	0.676	/
LTE 4	Main	Back Side	10	QPSK	Hotspot on	1	50	20300/1745	22.60	21.79	0.401	0.025	1.21	0.483	/
			10	QPSK	Hotspot on	50%	25	20300/1745	22.60	21.81	0.376	0.019	1.20	0.451	/
		Front Side	10	QPSK	Hotspot on	1	50	20300/1745	22.60	21.79	0.222	0.033	1.21	0.268	/
			10	QPSK	Hotspot on	50%	25	20300/1745	22.60	21.81	0.220	0.015	1.20	0.264	/
		Left Edge	10	QPSK	Hotspot on	1	50	20300/1745	22.60	21.79	0.059	0.080	1.21	0.071	/
			10	QPSK	Hotspot on	50%	25	20300/1745	22.60	21.81	0.055	-0.032	1.20	0.066	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	50	20300/1745	22.60	21.79	0.640	0.047	1.21	0.771	/
			10	QPSK	Hotspot on	50%	25	20300/1745	22.60	21.81	0.643	0.048	1.20	0.771	60
	Div	Back Side	10	QPSK	Hotspot on	1	50	20300/1745	16.80	16.35	0.126	0.015	1.11	0.140	/
			10	QPSK	Hotspot on	50%	25	20300/1745	16.80	16.43	0.109	0.038	1.09	0.119	/
		Front Side	10	QPSK	Hotspot on	1	50	20300/1745	16.80	16.35	0.077	0.024	1.11	0.085	/
			10	QPSK	Hotspot on	50%	25	20300/1745	16.80	16.43	0.081	0.011	1.09	0.088	/
		Left Edge	10	QPSK	Hotspot on	1	50	20300/1745	16.80	16.35	0.042	0.016	1.11	0.047	/
			10	QPSK	Hotspot on	50%	25	20300/1745	16.80	16.43	0.045	-0.050	1.09	0.049	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	QPSK	Hotspot on	1	50	20300/1745	16.80	16.35	0.190	0.028	1.11	0.211	/
			10	QPSK	Hotspot on	50%	25	20300/1745	16.80	16.43	0.278	0.033	1.09	0.303	/
		Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
	Main	Bottom Edge (SIM2)	10	QPSK	Hotspot on	50%	25	20300/1745	22.60	21.81	0.638	0.140	1.20	0.765	/
		Bottom Edge (Battery2)	10	QPSK	Hotspot on	50%	25	20300/1745	22.60	21.81	0.578	-0.026	1.20	0.693	/
LTE 5	Main	Back Side	10	QPSK	Hotspot on	1	25	20450/829	25.30	24.49	0.402	0.026	1.21	0.484	/
			10	QPSK	Hotspot on	50%	25	20450/829	24.30	23.45	0.337	0.015	1.22	0.410	/
		Front Side	10	QPSK	Hotspot on	1	25	20450/829	25.30	24.49	0.354	0.048	1.21	0.427	/
			10	QPSK	Hotspot on	50%	25	20450/829	24.30	23.45	0.227	-0.090	1.22	0.276	/
		Left Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	10	QPSK	Hotspot on	1	25	20450/829	25.30	24.49	0.159	0.022	1.21	0.192	/
			10	QPSK	Hotspot on	50%	25	20450/829	24.30	23.45	0.133	0.047	1.22	0.162	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	25	20450/829	25.30	24.49	0.225	0.019	1.21	0.271	/
			10	QPSK	Hotspot on	50%	25	20450/829	24.30	23.45	0.174	0.022	1.22	0.212	/
	Main	Back Side	10	QPSK	Hotspot on	1	25	20450/829	25.30	24.49	0.481	-0.100	1.21	0.580	61



		(Battery2)													
LTE 7	Main	Back Side	10	QPSK	Hotspot on	1	0	21350/2560	16.40	15.75	0.102	0.026	1.16	0.118	/
			10	QPSK	Hotspot on	50%	25	21350/2560	16.40	15.65	0.116	0.031	1.19	0.138	/
		Front Side	10	QPSK	Hotspot on	1	0	21350/2560	16.40	15.75	0.085	-0.020	1.16	0.099	/
			10	QPSK	Hotspot on	50%	25	21350/2560	16.40	15.65	0.083	0.049	1.19	0.099	/
		Left Edge	10	QPSK	Hotspot on	1	0	21350/2560	16.40	15.75	0.195	0.027	1.16	0.226	/
			10	QPSK	Hotspot on	50%	25	21350/2560	16.40	15.65	0.180	0.040	1.19	0.214	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
	Div	Back Side	10	QPSK	Hotspot on	1	50	20850/2510	22.40	21.73	0.393	-0.049	1.17	0.459	/
			10	QPSK	Hotspot on	50%	50	20850/2510	22.40	21.68	0.387	0.025	1.18	0.457	/
		Front Side	10	QPSK	Hotspot on	1	50	20850/2510	22.40	21.73	0.291	0.080	1.17	0.340	/
			10	QPSK	Hotspot on	50%	50	20850/2510	22.40	21.68	0.288	0.011	1.18	0.340	/
		Left Edge	10	QPSK	Hotspot on	1	50	20850/2510	22.40	21.73	0.108	0.016	1.17	0.126	/
			10	QPSK	Hotspot on	50%	50	20850/2510	22.40	21.68	0.153	0.031	1.18	0.181	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	N/A	Hotspot on	1	50	20850/2510	22.40	21.73	0.482	-0.010	1.17	0.562	/
			10	N/A	Hotspot on	50%	50	20850/2510	22.40	21.68	0.515	-0.050	1.18	0.608	62
	Div	Bottom Edge (Battery2)	10	N/A	Hotspot on	50%	50	20850/2510	22.40	21.68	0.475	-0.050	1.18	0.561	/
LTE 12	Main	Back Side	10	QPSK	Hotspot on	1	25	23060/704	25.30	24.63	0.335	-0.010	1.17	0.391	63
			10	QPSK	Hotspot on	50%	25	23095/707.5	24.30	23.68	0.267	0.015	1.15	0.308	/
		Front Side	10	QPSK	Hotspot on	1	25	23060/704	25.30	24.63	0.217	0.038	1.17	0.253	/
			10	QPSK	Hotspot on	50%	25	23095/707.5	24.30	23.68	0.179	0.029	1.15	0.206	/
		Left Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	10	QPSK	Hotspot on	1	25	23060/704	25.30	24.63	0.144	0.015	1.17	0.168	/
			10	QPSK	Hotspot on	50%	25	23095/707.5	24.30	23.68	0.078	0.043	1.15	0.090	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	25	23060/704	25.30	24.63	0.210	0.029	1.17	0.245	/
			10	QPSK	Hotspot on	50%	25	23095/707.5	24.30	23.68	0.141	0.011	1.15	0.163	/
	Main	Back Side (Battery2)	10	QPSK	Hotspot on	1	25	23060/704	25.30	24.63	0.321	0.060	1.17	0.375	/
LTE 13	Main	Back Side	10	QPSK	Hotspot on	1	25	23230/782	25.30	24.54	0.428	0.048	1.19	0.510	/
			10	QPSK	Hotspot on	50%	13	23230/782	24.30	23.54	0.343	0.050	1.19	0.409	/



		Front Side	10	QPSK	Hotspot on	1	25	23230/782	25.30	24.54	0.301	0.011	1.19	0.359	/
			10	QPSK	Hotspot on	50%	13	23230/782	24.30	23.54	0.245	-0.012	1.19	0.292	/
		Left Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	10	QPSK	Hotspot on	1	25	23230/782	25.30	24.54	0.162	0.026	1.19	0.193	/
			10	QPSK	Hotspot on	50%	13	23230/782	24.30	23.54	0.121	0.038	1.19	0.144	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	25	23230/782	25.30	24.54	0.260	0.011	1.19	0.310	/
			10	QPSK	Hotspot on	50%	13	23230/782	24.30	23.54	0.161	0.040	1.19	0.192	/
	Main	Back Side (Battery2)	10	QPSK	Hotspot on	1	25	23230/782	25.30	24.54	0.443	0.010	1.19	0.528	64
LTE 26	Main	Back Side	10	QPSK	Hotspot on	1	38	26865/831.5	25.30	24.43	0.452	-0.050	1.22	0.552	65
			10	QPSK	Hotspot on	50%	18	26765/821.5	24.30	23.45	0.360	0.032	1.22	0.438	/
		Front Side	10	QPSK	Hotspot on	1	38	26865/831.5	25.30	24.43	0.358	-0.012	1.22	0.437	/
			10	QPSK	Hotspot on	50%	18	26765/821.5	24.30	23.45	0.270	0.022	1.22	0.328	/
		Left Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Right Edge	10	QPSK	Hotspot on	1	38	26865/831.5	25.30	24.43	0.173	0.038	1.22	0.211	/
			10	QPSK	Hotspot on	50%	18	26765/821.5	24.30	23.45	0.134	0.014	1.22	0.163	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	1	38	26865/831.5	25.30	24.43	0.308	-0.026	1.22	0.376	/
			10	QPSK	Hotspot on	50%	18	26765/821.5	24.30	23.45	0.212	0.031	1.22	0.258	/
	Main	Back Side (Battery2)	10	QPSK	Hotspot on	1	38	26865/831.5	25.30	24.43	0.399	0.040	1.22	0.487	/
LTE 38	Main	Back Side	10	QPSK	Hotspot on	1	50	38000/2595	19.50	18.85	0.110	0.029	1.16	0.128	/
			10	QPSK	Hotspot on	50%	25	38150/2610	19.50	18.69	0.104	0.015	1.21	0.125	/
		Front Side	10	QPSK	Hotspot on	1	50	38000/2595	19.50	18.85	0.079	-0.080	1.16	0.092	/
			10	QPSK	Hotspot on	50%	25	38150/2610	19.50	18.69	0.075	0.027	1.21	0.090	/
		Left Edge	10	QPSK	Hotspot on	1	50	38000/2595	19.50	18.85	0.164	0.015	1.16	0.190	/
			10	QPSK	Hotspot on	50%	25	38150/2610	19.50	18.69	0.151	0.030	1.21	0.182	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
	Div	Back Side	10	QPSK	Hotspot on	1	50	37850/2580	23.60	22.73	0.268	0.021	1.22	0.327	/
			10	QPSK	Hotspot on	50%	25	37850/2580	23.00	22.14	0.233	-0.100	1.22	0.284	/
		Front Side	10	QPSK	Hotspot on	1	50	37850/2580	23.60	22.73	0.098	-0.020	1.22	0.120	/
			10	QPSK	Hotspot on	50%	25	37850/2580	23.00	22.14	0.102	0.028	1.22	0.124	/
		Left Edge	10	QPSK	Hotspot on	1	50	37850/2580	23.60	22.73	0.094	0.044	1.22	0.115	/
			10	QPSK	Hotspot on	1	50	37850/2580	23.60	22.73	0.094	0.044	1.22	0.115	/



			10	QPSK	Hotspot on	50%	25	37850/2580	23.00	22.14	0.090	0.019	1.22	0.110	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	N/A	Hotspot on	1	50	37850/2580	23.60	22.73	0.325	0.030	1.22	0.397	66
			10	N/A	Hotspot on	50%	25	37850/2580	23.00	22.14	0.303	-0.160	1.22	0.369	/
	Div	Bottom Edge (Battery2)	10	QPSK	Hotspot on	1	50	37850/2580	23.60	22.73	0.252	0.050	1.22	0.308	/
			10	QPSK	Hotspot on	1	50	37850/2580	23.60	22.73	0.252	0.050	1.22	0.308	/
			10	QPSK	Hotspot on	1	50	37850/2580	23.60	22.73	0.252	0.050	1.22	0.308	/
LTE 41	Main	Back Side	10	QPSK	Hotspot on	1	50	40185/2549.5	18.60	17.95	0.107	0.120	1.16	0.124	/
			10	QPSK	Hotspot on	50%	50	40185/2549.5	18.60	17.82	0.102	0.045	1.20	0.122	/
		Front Side	10	QPSK	Hotspot on	1	50	40185/2549.5	18.60	17.95	0.070	-0.090	1.16	0.081	/
			10	QPSK	Hotspot on	50%	50	40185/2549.5	18.60	17.82	0.081	0.032	1.20	0.097	/
		Left Edge	10	QPSK	Hotspot on	1	50	40185/2549.5	18.60	17.95	0.199	0.060	1.16	0.231	/
			10	QPSK	Hotspot on	50%	50	40185/2549.5	18.60	17.82	0.183	0.015	1.20	0.219	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
	Div	Back Side	10	QPSK	Hotspot on	1	50	40185/2549.5	24.00	23.31	0.298	0.024	1.17	0.349	/
			10	QPSK	Hotspot on	50%	50	39750/2506	23.00	22.25	0.256	0.038	1.19	0.304	/
		Front Side	10	QPSK	Hotspot on	1	50	40185/2549.5	24.00	23.31	0.245	0.011	1.17	0.287	/
			10	QPSK	Hotspot on	50%	50	39750/2506	23.00	22.25	0.194	-0.080	1.19	0.231	/
		Left Edge	10	QPSK	Hotspot on	1	50	40185/2549.5	24.00	23.31	0.077	0.019	1.17	0.090	/
			10	QPSK	Hotspot on	50%	50	39750/2506	23.00	22.25	0.068	0.022	1.19	0.081	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Top Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
		Bottom Edge	10	N/A	Hotspot on	1	50	40185/2549.5	24.00	23.31	0.381	0.041	1.17	0.447	67
			10	N/A	Hotspot on	50%	50	39750/2506	23.00	22.25	0.302	0.010	1.19	0.359	/
	Div	Bottom Edge (Battery2)	10	N/A	Hotspot on	1	50	40185/2549.5	24.00	23.31	0.305	-0.035	1.17	0.358	/
			10	N/A	Hotspot on	1	50	40185/2549.5	24.00	23.31	0.305	-0.035	1.17	0.358	/
LTE 66	Main	Back Side	10	QPSK	Hotspot on	1	50	132072/1720	22.10	20.78	0.302	0.022	1.36	0.409	/
			10	QPSK	Hotspot on	50%	25	132072/1720	22.10	20.68	0.293	0.049	1.39	0.406	/
		Front Side	10	QPSK	Hotspot on	1	50	132072/1720	22.10	20.78	0.179	-0.027	1.36	0.243	/
			10	QPSK	Hotspot on	50%	25	132072/1720	22.10	20.68	0.173	0.010	1.39	0.240	/
		Left Edge	10	QPSK	Hotspot on	1	50	132072/1720	22.10	20.78	0.070	0.039	1.36	0.095	/
			10	QPSK	Hotspot on	50%	25	132072/1720	22.10	20.68	0.067	0.022	1.39	0.093	/
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/



		Top Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
		Bottom Edge	10	QPSK	Hotspot on	1	50	132072/1720	22.10	20.78	0.437	0.015	1.36	0.592	/	
			10	QPSK	Hotspot on	50%	25	132072/1720	22.10	20.68	0.486	0.100	1.39	0.674	68	
	Div	Back Side	10	QPSK	Hotspot on	1	0	132572/1770	17.20	16.47	0.114	0.028	1.18	0.135	/	
			10	QPSK	Hotspot on	50%	0	132322/1745	17.20	16.33	0.099	-0.040	1.22	0.121	/	
		Front Side	10	QPSK	Hotspot on	1	0	132572/1770	17.20	16.47	0.077	0.032	1.18	0.091	/	
			10	QPSK	Hotspot on	50%	0	132322/1745	17.20	16.33	0.070	-0.060	1.22	0.086	/	
		Left Edge	10	QPSK	Hotspot on	1	0	132572/1770	17.20	16.47	0.052	0.010	1.18	0.062	/	
			10	QPSK	Hotspot on	50%	0	132322/1745	17.20	16.33	0.042	0.018	1.22	0.051	/	
		Right Edge	10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
			10	QPSK	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
		Top Edge	10	QPSK	Hotspot on	1	0	132572/1770	17.20	16.47	0.224	0.025	1.18	0.265	/	
			10	QPSK	Hotspot on	50%	0	132322/1745	17.20	16.33	0.238	-0.011	1.22	0.291	/	
		Bottom Edge	10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
			10	N/A	Hotspot on	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	/	
		Main	Bottom Edge (Battery2)	10	QPSK	Hotspot on	50%	25	132072/1720	22.10	20.68	0.472	0.047	1.39	0.655	/

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR1g (W/kg)	Plot No.
2.4G	Wi-Fi	Back Side	10	802.11b	98.0%	Hotspot on	6/2437	17.00	15.66	0.165	0.026	1.39	0.229	/
		Front Side	10	802.11b	98.0%	Hotspot on	6/2437	17.00	15.66	0.127	-0.011	1.39	0.176	/
		Left Edge	10	802.11b	98.0%	Hotspot on	6/2437	17.00	15.66	0.021	0.035	1.39	0.029	/
		Right Edge	10	802.11b	98.0%	Hotspot on	6/2437	17.00	15.66	0.280	0.038	1.39	0.389	/
		Top Edge	10	802.11b	98.0%	Hotspot on	6/2437	17.00	15.66	0.044	0.015	1.39	0.061	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge (Battery2)	10	802.11b	98.0%	Hotspot on	6/2437	17.00	15.66	0.290	-0.035	1.39	0.403	69
U-NII-1	Wi-Fi	Back Side	10	802.11nHT40	100.0%	Hotspot on	46/5230	17.00	15.20	0.259	-0.023	1.51	0.392	/
		Front Side	10	802.11nHT40	100.0%	Hotspot on	46/5230	17.00	15.20	0.064	0.120	1.51	0.097	/
		Left Edge	10	802.11nHT40	100.0%	Hotspot on	46/5230	17.00	15.20	0.042	-0.077	1.51	0.064	/
		Right Edge	10	802.11nHT40	100.0%	Hotspot on	46/5230	17.00	15.20	0.083	0.106	1.51	0.126	/
		Top Edge	10	802.11nHT40	100.0%	Hotspot on	38/5190	13.00	11.16	0.201	0.032	1.53	0.307	/
		Top Edge	10	802.11nHT40	100.0%	Hotspot on	46/5230	17.00	15.20	0.554	-0.050	1.51	0.839	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
U-NII-3	Wi-Fi	Top Edge (Battery2)	10	802.11nHT40	100.0%	Hotspot on	46/5230	17.00	15.20	0.638	-0.033	1.51	0.966	70
		Back Side	10	802.11nHT40	100.0%	Hotspot on	159/5795	17.00	15.71	0.294	-0.029	1.35	0.396	/
		Front Side	10	802.11nHT40	100.0%	Hotspot on	159/5795	17.00	15.71	0.142	-0.030	1.35	0.191	/
		Left Edge	10	802.11nHT40	100.0%	Hotspot on	159/5795	17.00	15.71	0.044	-0.047	1.35	0.059	/
		Right Edge	10	802.11nHT40	100.0%	Hotspot on	159/5795	17.00	15.71	0.053	0.057	1.35	0.071	/



SAR Test Report

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		Top Edge	10	802.11nHT40	100.0%	Hotspot on	159/5795	17.00	15.71	0.321	0.020	1.35	0.432	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge (Battery2)	10	802.11nHT40	100.0%	Hotspot on	159/5795	17.00	15.71	0.313	-0.020	1.35	0.421	/
Bluetooth	BT	Back Side	10	DH5	76.9%	Full Power	39/2441	12.00	11.16	0.035	-0.011	1.58	0.055	/
		Front Side	10	DH5	76.9%	Full Power	39/2441	12.00	11.16	0.009	0.025	1.58	0.014	/
		Left Edge	10	DH5	76.9%	Full Power	39/2441	12.00	11.16	0.001	0.024	1.58	0.002	/
		Right Edge	10	DH5	76.9%	Full Power	39/2441	12.00	11.16	0.053	0.038	1.58	0.084	71
		Top Edge	10	DH5	76.9%	Full Power	39/2441	12.00	11.16	0.001	0.016	1.58	0.002	/
		Bottom Edge	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Right Edge (Battery2)	10	DH5	76.9%	Full Power	39/2441	12.00	11.16	0.030	-0.157	1.58	0.048	/



Product-specific 10g SAR Evaluation

Band	Antenna	Test Position	Mode	Power Reduction	RB	Offset	Channel Frequency(MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Scaling Factor	Report SAR1g (W/kg)	0mm SAR
GSM850	Main	Back Side	2TX Slots	Body SAR	-	-	190/836.6	31.00	27.20	0.219	2.40	0.526	NO
		Front Side	2TX Slots	Body SAR	-	-	190/836.6	31.00	27.20	0.164	2.40	0.394	NO
		Left Edge	2TX Slots	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Right Edge	2TX Slots	Body SAR	-	-	190/836.6	31.00	27.20	0.091	2.40	0.217	NO
		Top Edge	2TX Slots	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	2TX Slots	Body SAR	-	-	190/836.6	31.00	27.20	0.098	2.40	0.234	NO
GSM1900	Main	Back Side	2TX Slots	Body SAR	-	-	661/1880	28.00	28.00	0.360	1.00	0.360	NO
		Front Side	2TX Slots	Body SAR	-	-	661/1880	28.00	28.00	0.217	1.00	0.217	NO
		Left Edge	2TX Slots	Body SAR	-	-	661/1880	28.00	28.00	0.091	1.00	0.091	NO
		Right Edge	2TX Slots	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	2TX Slots	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	2TX Slots	Body SAR	-	-	661/1880	28.00	28.00	0.540	1.00	0.540	NO
	Div	Back Side	2TX Slots	Body SAR	-	-	661/1880	28.00	25.20	0.181	1.91	0.345	NO
		Front Side	2TX Slots	Body SAR	-	-	661/1880	28.00	25.20	0.119	1.91	0.227	NO
		Left Edge	2TX Slots	Body SAR	-	-	661/1880	28.00	25.20	0.072	1.91	0.138	NO
		Right Edge	2TX Slots	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	2TX Slots	Body SAR	-	-	661/1880	28.00	25.20	0.328	1.91	0.625	NO
		Bottom Edge	2TX Slots	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WCDMA II	Main	Back Side	RMC	Body SAR	-	-	9400/1880	24.30	22.90	0.456	1.38	0.629	NO
		Front Side	RMC	Body SAR	-	-	9400/1880	24.30	22.90	0.256	1.38	0.353	NO
		Left Edge	RMC	Body SAR	-	-	9400/1880	24.30	22.90	0.116	1.38	0.160	NO
		Right Edge	RMC	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	RMC	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	RMC	Body SAR	-	-	9400/1880	24.30	22.90	0.557	1.38	0.768	NO
	Div	Back Side	RMC	Body SAR	-	-	9400/1880	22.10	17.50	0.141	2.88	0.406	NO
		Front Side	RMC	Body SAR	-	-	9400/1880	22.10	17.50	0.099	2.88	0.284	NO
		Left Edge	RMC	Body SAR	-	-	9400/1880	22.10	17.50	0.059	2.88	0.170	NO
		Right Edge	RMC	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	RMC	Body SAR	-	-	9400/1880	22.10	17.50	0.284	2.88	0.819	NO
		Bottom Edge	RMC	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WCDMA IV	Main	Back Side	RMC	Body SAR	-	-	1413/1732.6	22.60	22.40	0.497	1.05	0.521	NO
		Front Side	RMC	Body SAR	-	-	1413/1732.6	22.60	22.40	0.274	1.05	0.287	NO
		Left Edge	RMC	Body SAR	-	-	1413/1732.6	22.60	22.40	0.102	1.05	0.107	NO
		Right Edge	RMC	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	RMC	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	RMC	Body SAR	-	-	1413/1732.6	22.60	22.40	0.697	1.05	0.730	NO
	Div	Back Side	RMC	Body SAR	-	-	1413/1732.6	21.20	16.50	0.136	2.95	0.402	NO
		Front Side	RMC	Body SAR	-	-	1413/1732.6	21.20	16.50	0.096	2.95	0.282	NO
		Left Edge	RMC	Body SAR	-	-	1413/1732.6	21.20	16.50	0.054	2.95	0.159	NO



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		Right Edge	RMC	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	RMC	Body SAR	-	-	1413/1732.6	21.20	16.50	0.298	2.95	0.881	NO
		Bottom Edge	RMC	Body SAR	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LTE 2	Main	Back Side	QPSK	Body SAR	1	50	18700/1860	23.60	23.60	0.457	1.00	0.457	NO
			QPSK	Body SAR	50%	0	18900/1880	23.30	23.30	0.461	1.00	0.461	NO
		Front Side	QPSK	Body SAR	1	50	18700/1860	23.60	23.60	0.271	1.00	0.271	NO
			QPSK	Body SAR	50%	0	18900/1880	23.30	23.30	0.263	1.00	0.263	NO
		Left Edge	QPSK	Body SAR	1	50	18700/1860	23.60	23.60	0.182	1.00	0.182	NO
			QPSK	Body SAR	50%	0	18900/1880	23.30	23.30	0.108	1.00	0.108	NO
		Right Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	QPSK	Body SAR	1	50	18700/1860	23.60	23.60	0.686	1.00	0.686	NO
			QPSK	Body SAR	50%	0	18900/1880	23.30	23.30	0.583	1.00	0.583	NO
	Div	Back Side	QPSK	Body SAR	1	50	18900/1880	22.50	17.50	0.119	3.16	0.377	NO
			QPSK	Body SAR	50%	0	18900/1880	22.50	17.50	0.122	3.16	0.385	NO
		Front Side	QPSK	Body SAR	1	50	18900/1880	22.50	17.50	0.084	3.16	0.266	NO
			QPSK	Body SAR	50%	0	18900/1880	22.50	17.50	0.088	3.16	0.279	NO
		Left Edge	QPSK	Body SAR	1	50	18900/1880	22.50	17.50	0.053	3.16	0.166	NO
			QPSK	Body SAR	50%	0	18900/1880	22.50	17.50	0.054	3.16	0.170	NO
		Right Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	QPSK	Body SAR	1	50	18900/1880	22.50	17.50	0.289	3.16	0.913	NO
			QPSK	Body SAR	50%	0	18900/1880	22.50	17.50	0.252	3.16	0.797	NO
		Bottom Edge	N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LTE 4	Main	Back Side	QPSK	Body SAR	1	50	20300/1745	22.60	22.60	0.483	1.00	0.483	NO
			QPSK	Body SAR	50%	25	20300/1745	22.60	22.60	0.451	1.00	0.451	NO
		Front Side	QPSK	Body SAR	1	50	20300/1745	22.60	22.60	0.268	1.00	0.268	NO
			QPSK	Body SAR	50%	25	20300/1745	22.60	22.60	0.264	1.00	0.264	NO
		Left Edge	QPSK	Body SAR	1	50	20300/1745	22.60	22.60	0.071	1.00	0.071	NO
			QPSK	Body SAR	50%	25	20300/1745	22.60	22.60	0.066	1.00	0.066	NO
		Right Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	QPSK	Body SAR	1	50	20300/1745	22.60	22.60	0.771	1.00	0.771	NO
			QPSK	Body SAR	50%	25	20300/1745	22.60	22.60	0.771	1.00	0.771	NO
	Div	Back Side	QPSK	Body SAR	1	50	20300/1745	16.80	16.80	0.140	1.00	0.140	NO
			QPSK	Body SAR	50%	25	20300/1745	16.80	16.80	0.119	1.00	0.119	NO
		Front Side	QPSK	Body SAR	1	50	20300/1745	16.80	16.80	0.085	1.00	0.085	NO
			QPSK	Body SAR	50%	25	20300/1745	16.80	16.80	0.088	1.00	0.088	NO



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		Left Edge	QPSK	Body SAR	1	50	20300/1745	16.80	16.80	0.047	1.00	0.047	NO
			QPSK	Body SAR	50%	25	20300/1745	16.80	16.80	0.049	1.00	0.049	NO
		Right Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	QPSK	Body SAR	1	50	20300/1745	16.80	16.80	0.211	1.00	0.211	NO
			QPSK	Body SAR	50%	25	20300/1745	16.80	16.80	0.303	1.00	0.303	NO
		Bottom Edge	N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LTE 7	Main	Back Side	QPSK	Body SAR	1	0	21350/2560	21.10	16.40	0.118	2.95	0.350	NO
			QPSK	Body SAR	50%	25	21350/2560	21.10	16.40	0.138	2.95	0.407	NO
		Front Side	QPSK	Body SAR	1	0	21350/2560	21.10	16.40	0.099	2.95	0.291	NO
			QPSK	Body SAR	50%	25	21350/2560	21.10	16.40	0.099	2.95	0.291	NO
		Left Edge	QPSK	Body SAR	1	0	21350/2560	21.10	16.40	0.226	2.95	0.668	NO
			QPSK	Body SAR	50%	25	21350/2560	21.10	16.40	0.214	2.95	0.631	NO
		Right Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Div	Back Side	QPSK	Body SAR	1	50	20850/2510	22.40	22.40	0.459	1.00	0.459	NO
			QPSK	Body SAR	50%	50	20850/2510	22.40	22.40	0.457	1.00	0.457	NO
		Front Side	QPSK	Body SAR	1	50	20850/2510	22.40	22.40	0.340	1.00	0.340	NO
			QPSK	Body SAR	50%	50	20850/2510	22.40	22.40	0.340	1.00	0.340	NO
		Left Edge	QPSK	Body SAR	1	50	20850/2510	22.40	22.40	0.126	1.00	0.126	NO
			QPSK	Body SAR	50%	50	20850/2510	22.40	22.40	0.181	1.00	0.181	NO
		Right Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	N/A	Body SAR	1	50	20850/2510	22.40	22.40	0.562	1.00	0.562	NO
			N/A	Body SAR	50%	50	20850/2510	22.40	22.40	0.608	1.00	0.608	NO
LTE 38	Main	Back Side	QPSK	Body SAR	1	50	38000/2595	24.10	19.50	0.128	2.88	0.368	NO
			QPSK	Body SAR	50%	25	38150/2610	23.10	19.50	0.125	2.29	0.287	NO
		Front Side	QPSK	Body SAR	1	50	38000/2595	24.10	19.50	0.092	2.88	0.265	NO
			QPSK	Body SAR	50%	25	38150/2610	23.10	19.50	0.090	2.29	0.207	NO
		Left Edge	QPSK	Body SAR	1	50	38000/2595	24.10	19.50	0.190	2.88	0.549	NO
			QPSK	Body SAR	50%	25	38150/2610	23.10	19.50	0.182	2.29	0.417	NO
		Right Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



	Div		QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Back Side	QPSK	Body SAR	1	50	37850/2580	23.60	23.60	0.327	1.00	0.327	NO
			QPSK	Body SAR	50%	25	37850/2580	23.00	23.00	0.284	1.00	0.284	NO
		Front Side	QPSK	Body SAR	1	50	37850/2580	23.60	23.60	0.120	1.00	0.120	NO
			QPSK	Body SAR	50%	25	37850/2580	23.00	23.00	0.124	1.00	0.124	NO
		Left Edge	QPSK	Body SAR	1	50	37850/2580	23.60	23.60	0.115	1.00	0.115	NO
			QPSK	Body SAR	50%	25	37850/2580	23.00	23.00	0.110	1.00	0.110	NO
		Right Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LTE 41	Main	Back Side	QPSK	Body SAR	1	50	40185/2549.5	23.30	18.60	0.124	2.95	0.367	NO
			QPSK	Body SAR	50%	50	40185/2549.5	23.10	18.60	0.122	2.82	0.344	NO
		Front Side	QPSK	Body SAR	1	50	40185/2549.5	23.30	18.60	0.081	2.95	0.240	NO
			QPSK	Body SAR	50%	50	40185/2549.5	23.10	18.60	0.097	2.82	0.273	NO
		Left Edge	QPSK	Body SAR	1	50	40185/2549.5	23.30	18.60	0.231	2.95	0.682	NO
			QPSK	Body SAR	50%	50	40185/2549.5	23.10	18.60	0.219	2.82	0.617	NO
		Right Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Div	Back Side	QPSK	Body SAR	1	50	40185/2549.5	24.00	24.00	0.349	1.00	0.349	NO
			QPSK	Body SAR	50%	50	39750/2506	23.00	23.00	0.304	1.00	0.304	NO
		Front Side	QPSK	Body SAR	1	50	40185/2549.5	24.00	24.00	0.287	1.00	0.287	NO
			QPSK	Body SAR	50%	50	39750/2506	23.00	23.00	0.231	1.00	0.231	NO
		Left Edge	QPSK	Body SAR	1	50	40185/2549.5	24.00	24.00	0.209	1.00	0.209	NO
			QPSK	Body SAR	50%	50	39750/2506	23.00	23.00	0.081	1.00	0.081	NO
		Right Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	N/A	Body SAR	1	50	40185/2549.5	24.00	24.00	0.447	1.00	0.447	NO
			N/A	Body SAR	50%	50	39750/2506	23.00	23.00	0.359	1.00	0.359	NO
LTE 66	Main	Back Side	QPSK	Body SAR	1	50	132072/1720	23.50	22.10	0.409	1.38	0.565	NO
			QPSK	Body SAR	50%	25	132072/1720	23.50	22.10	0.406	1.38	0.561	NO
		Front Side	QPSK	Body SAR	1	50	132072/1720	23.50	22.10	0.243	1.38	0.335	NO
			QPSK	Body SAR	50%	25	132072/1720	23.50	22.10	0.240	1.38	0.331	NO
		Left Edge	QPSK	Body SAR	1	50	132072/1720	23.50	22.10	0.095	1.38	0.131	NO
			QPSK	Body SAR	50%	25	132072/1720	23.50	22.10	0.093	1.38	0.128	NO



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	Div	Right Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Bottom Edge	QPSK	Body SAR	1	50	132072/1720	23.50	22.10	0.592	1.38	0.817	NO
			QPSK	Body SAR	50%	25	132072/1720	23.50	22.10	0.674	1.38	0.930	NO
		Back Side	QPSK	Body SAR	1	0	132572/1770	22.00	17.20	0.135	3.02	0.407	NO
			QPSK	Body SAR	50%	0	132322/1745	22.00	17.20	0.121	3.02	0.365	NO
		Front Side	QPSK	Body SAR	1	0	132572/1770	22.00	17.20	0.091	3.02	0.275	NO
			QPSK	Body SAR	50%	0	132322/1745	22.00	17.20	0.086	3.02	0.258	NO
		Left Edge	QPSK	Body SAR	1	0	132572/1770	22.00	17.20	0.062	3.02	0.186	NO
			QPSK	Body SAR	50%	0	132322/1745	22.00	17.20	0.051	3.02	0.155	NO
		Right Edge	QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			QPSK	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Top Edge	QPSK	Body SAR	1	0	132572/1770	22.00	17.20	0.265	3.02	0.800	NO
			QPSK	Body SAR	50%	0	132322/1745	22.00	17.20	0.291	3.02	0.878	NO
		Bottom Edge	N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	Body SAR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Band	Antenna	Test Position	Mode	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR1g (W/Kg)	Scaling Factor	Report SAR1g (W/kg)	0mm SAR
2.4G	Wi-Fi	Back Side	802.11b	98.0%	Receiver off	6/2437	19.00	17.00	0.229	1.62	0.371	NO
		Front Side	802.11b	98.0%	Receiver off	6/2437	19.00	17.00	0.176	1.62	0.285	NO
		Left Edge	802.11b	98.0%	Receiver off	6/2437	19.00	17.00	0.029	1.62	0.047	NO
		Right Edge	802.11b	98.0%	Receiver off	6/2437	19.00	17.00	0.389	1.62	0.629	NO
		Top Edge	802.11b	98.0%	Receiver off	6/2437	19.00	17.00	0.061	1.62	0.099	NO
		Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
U-NII-1	Wi-Fi	Back Side	802.11nHT40	100.0%	Receiver off	46/5230	18.00	17.00	0.392	1.26	0.494	NO
		Front Side	802.11nHT40	100.0%	Receiver off	46/5230	18.00	17.00	0.097	1.26	0.122	NO
		Left Edge	802.11nHT40	100.0%	Receiver off	46/5230	18.00	17.00	0.064	1.26	0.080	NO
		Right Edge	802.11nHT40	100.0%	Receiver off	46/5230	18.00	17.00	0.126	1.26	0.158	NO
		Top Edge	802.11nHT40	100.0%	Receiver off	46/5230	18.00	17.00	0.839	1.26	1.056	NO
		Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
U-NII-3	Wi-Fi	Back Side	802.11ac-VHT80	100.0%	Receiver off	155/5775	18.00	17.00	0.396	1.26	0.498	NO
		Front Side	802.11ac-VHT80	100.0%	Receiver off	155/5775	18.00	17.00	0.191	1.26	0.241	NO
		Left Edge	802.11ac-VHT80	100.0%	Receiver off	155/5775	18.00	17.00	0.059	1.26	0.075	NO
		Right Edge	802.11ac-VHT80	100.0%	Receiver off	155/5775	18.00	17.00	0.071	1.26	0.090	NO
		Top Edge	802.11ac-VHT80	100.0%	Receiver off	155/5775	18.00	17.00	0.432	1.26	0.544	NO
		Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



Product-specific 10g SAR

Band	Antenna	Test Position	Dist. (mm)	Mode	Duty Cycle	Power Reduction	Ch./Freq. (MHz)	Tune-up (dBm)	Measured power (dBm)	Measured SAR10g (W/Kg)	Power Drift (dB)	Scaling Factor	Report SAR10g (W/kg)	Plot No
U-NII-2A	Wi-Fi	Back Side	0	802.11a	100.0%	Receiver off	56/5280	18.00	16.62	0.702	-0.030	1.37	0.965	/
		Front Side	0	802.11a	100.0%	Receiver off	56/5280	18.00	16.62	0.392	-0.040	1.37	0.539	/
		Left Edge	0	802.11a	100.0%	Receiver off	56/5280	18.00	16.62	0.089	-0.180	1.37	0.122	/
		Right Edge	0	802.11a	100.0%	Receiver off	56/5280	18.00	16.62	0.122	-0.020	1.37	0.168	/
		Top Edge	0	802.11a	100.0%	Receiver off	56/5280	18.00	16.62	1.280	-0.062	1.37	1.759	72
		Bottom Edge	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge (Battery2)	0	802.11a	100.0%	Receiver off	56/5280	18.00	16.62	1.120	0.030	1.37	1.539	/
U-NII-2C	Wi-Fi	Back Side	0	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.14	0.738	-0.039	1.22	0.900	/
		Front Side	0	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.14	0.495	0.020	1.22	0.603	/
		Left Edge	0	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.14	0.096	0.040	1.22	0.117	/
		Right Edge	0	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.14	0.084	0.080	1.22	0.102	/
		Top Edge	0	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.14	1.180	-0.180	1.22	1.438	/
		Bottom Edge	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/
		Top Edge (Battery2)	0	802.11nHT40	100.0%	Receiver off	126/5630	18.00	17.14	0.988	0.045	1.22	1.204	/

10.3 Simultaneous Transmission Analysis

Simultaneous Transmission Configurations	Head	Body-worn	Hotspot	Product Specific 10-g SAR
Main Antenna + Bluetooth	Yes	Yes	Yes	Yes
Div Antenna + Bluetooth	Yes	Yes	Yes	Yes
Main Antenna + Wi-Fi 2.4G	Yes	Yes	Yes	Yes
Div Antenna + Wi-Fi 2.4G	Yes	Yes	Yes	Yes
Main Antenna + Wi-Fi 5G	Yes	Yes	Yes	Yes
Div Antenna + Wi-Fi 5G	Yes	Yes	Yes	Yes
Main Antenna + Wi-Fi 5G+ Bluetooth	Yes	Yes	Yes	Yes
Div Antenna + Wi-Fi 5G+ Bluetooth	Yes	Yes	Yes	Yes
Wi-Fi 2.4G + Bluetooth	NA	NA	NA	NA
Wi-Fi 5G + Bluetooth	Yes	Yes	Yes	Yes
Wi-Fi 2.4G + Wi-Fi 5G	NA	NA	NA	NA
Main Antenna + Div Antenna	NA	NA	NA	NA

General Note:

- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation $< 1.6\text{W/kg}$, simultaneously transmission SAR measurement is not necessary.
 - $\text{SPLSR} = (\text{SAR1} + \text{SAR2})^{1.5} / (\text{min. separation distance, mm})$, 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.
 - If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

**The Maximum SAR_{1g} Value for Main-Antenna**

SAR _{1g} (W/kg)		GSM	GSM	WCDMA	WCDMA	WCDMA	LTE 2	LTE 4	LTE 5	LTE 7	LTE 12	LTE 13	LTE 26	LTE 38	LTE 41	LTE66	MAX.
Test Position		850	1900	Band II	Band IV	Band V											SAR _{1g}
Head	Left Cheek	0.191	0.047	0.082	0.165	0.250	0.080	N/A	0.190	0.286	0.154	0.149	0.232	0.617	0.518	0.132	0.617
	Left Tilt	0.075	0.030	0.055	0.066	0.122	0.036	N/A	0.101	0.142	0.090	0.101	0.097	0.144	0.353	0.058	0.353
	Right Cheek	0.153	0.028	0.068	0.127	0.221	0.103	N/A	0.186	0.389	0.097	0.124	0.186	0.464	0.534	0.105	0.534
	Right Tilt	0.092	0.042	0.042	0.071	0.140	0.069	N/A	0.114	0.257	0.055	0.062	0.092	0.248	0.219	0.058	0.257
Body worn	Back Side	0.269	0.188	0.234	0.260	0.360	0.348	N/A	0.341	0.313	0.257	0.337	0.331	0.192	0.216	0.340	0.360
	Front Side	0.196	0.105	0.126	0.158	0.232	0.200	N/A	0.257	0.242	0.212	0.216	0.224	0.152	0.186	0.185	0.257
Hotspot	Back Side	0.255	0.360	0.456	0.497	0.606	0.461	0.483	0.580	0.138	0.391	0.528	0.552	0.128	0.124	0.409	0.606
	Front Side	0.164	0.217	0.256	0.274	0.454	0.271	0.268	0.427	0.099	0.253	0.359	0.437	0.092	0.097	0.243	0.454
	Left Edge	N/A	0.091	0.116	0.102	N/A	0.182	0.071	N/A	0.226	N/A	N/A	N/A	0.190	0.231	0.095	0.231
	Right Edge	0.091	N/A	N/A	N/A	0.176	N/A	N/A	0.192	N/A	0.168	0.193	0.211	N/A	N/A	N/A	0.211
	Top Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bottom Edge	0.098	0.611	0.557	0.697	0.285	0.686	0.771	0.271	N/A	0.245	0.310	0.376	N/A	N/A	0.674	0.771

The Maximum SAR_{1g} Value for Div-Antenna

SAR _{1g} (W/kg)		GSM 1900	WCDMA	WCDMA	LTE 2	LTE 4	LTE 7	LTE 38	LTE 41	LTE66	MAX.
Test Position			Band II	Band IV							SAR _{1g}
Head	Left Cheek	0.570	0.553	0.483	0.421	N/A	0.176	0.124	0.138	0.476	0.570
	Left Tilt	0.681	0.740	0.628	0.523	N/A	0.113	0.082	0.072	0.638	0.740
	Right Cheek	0.616	0.716	0.640	0.559	N/A	0.156	0.074	0.104	0.764	0.764
	Right Tilt	0.798	0.766	0.775	0.680	N/A	0.092	0.060	0.056	0.855	0.855
Body worn	Back Side	0.115	0.361	0.198	0.372	N/A	0.275	0.206	0.225	0.237	0.372
	Front Side	0.094	0.309	0.165	0.292	N/A	0.194	0.127	0.188	0.124	0.309
Hotspot	Back Side	0.181	0.141	0.136	0.122	0.140	0.459	0.327	0.349	0.135	0.459
	Front Side	0.119	0.099	0.096	0.088	0.088	0.340	0.124	0.287	0.091	0.340
	Left Edge	0.072	0.059	0.054	0.054	0.049	0.181	0.115	0.090	0.062	0.181
	Right Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Top Edge	0.328	0.284	0.298	0.289	0.303	N/A	N/A	N/A	0.291	0.328
	Bottom Edge	N/A	N/A	N/A	N/A	N/A	0.608	0.397	0.447	N/A	0.608



About Wi-Fi 2.4G and WWAN Antenna

SAR _{1g/10g} (W/kg)		Main antenna	Div Antenna	Wi-Fi 2.4G	MAX. Σ SAR _{1g/10g}
Test Position					
Head	Left Cheek	0.617	0.570	0.202	0.819
	Left Tilt	0.353	0.740	0.094	0.834
	Right Cheek	0.534	0.764	0.064	0.828
	Right Tilt	0.257	0.855	0.040	0.895
Body worn	Back Side	0.360	0.372	0.303	0.675
	Front Side	0.257	0.309	0.138	0.447
Hotspot	Back Side	0.606	0.459	0.229	0.835
	Front Side	0.454	0.340	0.176	0.630
	Left Edge	0.231	0.181	0.029	0.260
	Right Edge	0.211	N/A	0.403	0.614
	Top Edge	N/A	0.328	0.061	0.389
	Bottom Edge	0.771	0.608	N/A	0.771
Product Specific 10-g SAR	Back Side	N/A	N/A	N/A	N/A
	Front Side	N/A	N/A	N/A	N/A
	Left Edge	N/A	N/A	N/A	N/A
	Right Edge	N/A	N/A	N/A	N/A
	Top Edge	N/A	N/A	N/A	N/A
	Bottom Edge	N/A	N/A	N/A	N/A

Note: 1. The value with blue color is the maximum Σ SAR_{1g/10g} Value.
2. MAX. Σ SAR_{1g/10g} = Unlicensed SAR_{MAX} + Licensed SAR_{MAX}

About Bluetooth and Wi-Fi 5G Antenna and Main Antenna/Div Antenna

SAR _{1g/10g} (W/kg)		Main antenna	Div Antenna	Wi-Fi 5G				Bluetooth	MAX. Σ SAR _{1g/10g}
Test Position				U-NII-1	U-NII-2A	U-NII-2C	U-NII-3		
Head	Left Cheek	0.617	0.570	0.237	0.245	0.357	0.445	0.106	1.168
	Left Tilt	0.353	0.740	0.367	0.480	0.594	0.612	0.005	1.357
	Right Cheek	0.534	0.764	0.243	0.297	0.327	0.397	0.002	1.163
	Right Tilt	0.257	0.855	0.302	0.358	0.423	0.432	0.002	1.289
Body worn	Back Side	0.360	0.372	0.381	0.393	0.383	0.376	0.055	0.820
	Front Side	0.257	0.309	0.127	0.140	0.128	0.181	0.014	0.504
Hotspot	Back Side	0.606	0.459	0.392	N/A	N/A	0.396	0.055	1.057
	Front Side	0.454	0.340	0.097	N/A	N/A	0.191	0.014	0.659
	Left Edge	0.231	0.181	0.064	N/A	N/A	0.059	0.002	0.297
	Right Edge	0.211	N/A	0.126	N/A	N/A	0.071	0.084	0.421
	Top Edge	N/A	0.328	0.966	N/A	N/A	0.432	0.002	1.296
	Bottom Edge	0.771	0.608	N/A	N/A	N/A	N/A	N/A	0.771
Product Specific 10-g SAR	Back Side	N/A	N/A	N/A	0.965	0.900	N/A	N/A	0.965
	Front Side	N/A	N/A	N/A	0.539	0.603	N/A	N/A	0.603
	Left Edge	N/A	N/A	N/A	0.122	0.117	N/A	N/A	0.122



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	Right Edge	N/A	N/A	N/A	0.168	0.102	N/A	N/A	0.168
	Top Edge	N/A	N/A	N/A	1.759	1.438	N/A	N/A	1.759
	Bottom Edge	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: 1. The value with blue color is the maximum $\Sigma SAR_{1g/10g}$ Value.

2. MAX. $\Sigma SAR_{1g/10g} = \text{Unlicensed } SAR_{MAX} + \text{Licensed } SAR_{MAX}$

MAX. $\Sigma SAR_{1g} = 1.357 \text{ W/kg} < 1.6 \text{ W/kg}$, MAX. $SAR_{10g} = 1.759 \text{ W/kg} < 4 \text{ W/kg}$ so the Simultaneous transimition SAR with volum scan are not required for BT / Wi-Fi Antenna and Main Antenna/Div Antenna.

Conclusion:

According to the KDB 690783 D01 section 1) d) i), when the sum of 1-g SAR applies for simultaneous transmission SAR test exclusion, the highest sum of 1-g SAR according to the highest reported stand-alone SAR values is used, and the highest Reported SAR for simultaneous transmission exposure conditions is 1.357 W/kg



11 Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528- 2013 is not required in SAR reports submitted for equipment approval. This also applies to the 10-g SAR required for phablets in KDB Publication 648474.

*******END OF REPORT*******