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# FCC SAR Test Report

Report No. : SA140624C19

Applicant : HTC Corporation

Address : 1F, 6-3 Baoqiang Road, Xindian District, New Taipei City, Taiwan 231

Product : Tablet

FCC ID : NM80P82300

Brand : HTC

Model No. : 0P82300

Standards : FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE 1528:2003  
 IEEE 1528a-2005 / KDB 865664 D01 v01r03 / KDB 248227 D01 v01r02  
 KDB 447498 D01 v05r02 / KDB 616217 D04 v01r01 / KDB 941225 D01 v02  
 KDB 941225 D02 v02r02 / KDB 941225 D03 v01 / KDB 941225 D05 v02r03

Sample Received Date : Jun. 24, 2014

Date of Testing : Jul. 27, 2014 ~ Sep. 19, 2014

**CERTIFICATION:** The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch – Lin Kou Laboratories**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample’s SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

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Approved By : Roy Wu / Manager



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## Release Control Record

Report No.	Reason for Change	Date Issued
SA140624C19	Initial release	Sep. 24, 2014



### 1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest Reported Body SAR <sub>1g</sub> (W/kg)
PCB	GSM850	0.78
	GSM1900	1.22
	WCDMA II	1.08
	WCDMA IV	1.18
	WCDMA V	0.59
	LTE 2	0.78
	LTE 4	1.15
	LTE 5	0.69
	LTE 7	0.66
	LTE 12	1.08
	LTE 13	0.88
	LTE 17	1.26
	LTE 25	0.86
	LTE 26	0.73
LTE 41	0.78	
DTS	2.4G WLAN	0.15
NII	5.2G WLAN	0.13
	5.3G WLAN	0.21
	5.6G WLAN	0.21
	5.8G WLAN	0.15
DSS	Bluetooth	N/A
DXX	NFC	N/A
Highest Simultaneous Transmission SAR		Body (W/kg)
PCB+DTS		1.41
PCB+NII		1.47
PCB+DSS		1.50

**Note:**

1. The SAR limit (**Body: SAR<sub>1g</sub> 1.6 W/kg**) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.



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## 2. Description of Equipment Under Test

<b>EUT Type</b>	Tablet
<b>FCC ID</b>	NM80P82300
<b>Brand Name</b>	HTC
<b>Model Name</b>	0P82300
<b>EUT Configuration</b>	EUT 1: Tablet + Battery 1 + eMMC 16G EUT 2: Tablet + Battery 2 + eMMC 64G
<b>Tx Frequency Bands (Unit: MHz)</b>	GSM850 : 824.2 ~ 848.8 GSM1900 : 1850.2 ~ 1909.8 WCDMA Band II : 1852.4 ~ 1907.6 WCDMA Band IV : 1712.4 ~ 1752.6 WCDMA Band V : 826.4 ~ 846.6 LTE Band 2 : 1850.7 ~ 1909.3 (1.4M), 1851.5 ~ 1908.5 (3M), 1852.5 ~ 1907.5 (5M), 1855 ~ 1905 (10M), 1857.5 ~ 1902.5 (15M), 1860 ~ 1900 (20M) LTE Band 4 : 1710.7 ~ 1754.3 (1.4M), 1711.5 ~ 1753.5 (3M), 1712.5 ~ 1752.5 (5M), 1715 ~ 1750 (10M), 1717.5 ~ 1747.5 (15M), 1720 ~ 1745 (20M) LTE Band 5 : 824.7 ~ 848.3 (1.4M), 825.5 ~ 847.5 (3M), 826.5 ~ 846.5 (5M), 829 ~ 844 (10M) LTE Band 7 : 2502.5 ~ 2567.5 (5M), 2505 ~ 2565 (10M), 2507.5 ~ 2562.5 (15M), 2510 ~ 2560 (20M) LTE Band 12 : 699.7 ~ 715.3 (1.4M), 700.5 ~ 714.5 (3M), 701.5 ~ 713.5 (5M), 704 ~ 711 (10M) LTE Band 13 : 779.5 ~ 784.5 (5M), 782 (10M) LTE Band 17 : 706.5 ~ 713.5 (5M), 709 ~ 711 (10M) LTE Band 25 : 1850.7 ~ 1914.3 (1.4M), 1851.5 ~ 1913.5 (3M), 1852.5 ~ 1912.5 (5M), 1855 ~ 1910 (10M), 1857.5 ~ 1907.5 (15M), 1860 ~ 1905 (20M) LTE Band 26 : 814.7 ~ 848.3 (1.4M), 815.5 ~ 847.5 (3M), 816.5 ~ 846.5 (5M), 819 ~ 844 (10M), 821.5 ~ 841.5 (15M) LTE Band 41 : 2498.5 ~ 2687.5 (5M), 2501 ~ 2685 (10M), 2503.5 ~ 2682.5 (15M), 2506 ~ 2680 (20M) WLAN : 2412 ~ 2462, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5700, 5745 ~ 5825 Bluetooth : 2402 ~ 2480 NFC : 13.56
<b>Uplink Modulations</b>	GPRS : GMSK EDGE : 8PSK WCDMA : QPSK LTE : QPSK, 16QAM 802.11b : DSSS 802.11a/g/n/ac : OFDM Bluetooth : GFSK NFC : ASK
<b>Release Number</b>	LTE : Rel. 8 WCDMA : Rel. 99 HSDPA : Rel. 7 HSUPA : Rel. 6



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<b>Maximum Tune-up Conducted Power (Unit: dBm)</b>	GSM850 : 33.0
	GSM1900 : 30.5
	WCDMA Band II : 23.5
	WCDMA Band IV : 23.5
	WCDMA Band V : 23.5
	LTE Band 2 : 22.6
	LTE Band 4 : 22.6
	LTE Band 5 : 22.6
	LTE Band 7 : 22.5
	LTE Band 12 : 22.1
	LTE Band 13 : 22.7
	LTE Band 17 : 22.7
	LTE Band 25 : 22.6
	LTE Band 26 : 22.6
	LTE Band 41 : 22.6
	WLAN 2.4G : 18.5
	WLAN 5.2G : 17.0
WLAN 5.3G : 17.0	
WLAN 5.6G : 16.5	
WLAN 5.8G : 17.0	
Bluetooth : 7.5	
<b>Antenna Type</b>	Fixed Internal Antenna
<b>EUT Stage</b>	Identical Prototype

**Note:**

1. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

### **3. SAR Measurement System**

#### **3.1 Definition of Specific Absorption Rate (SAR)**

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

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

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

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

SAR measurement can be related to the electrical field in the tissue by

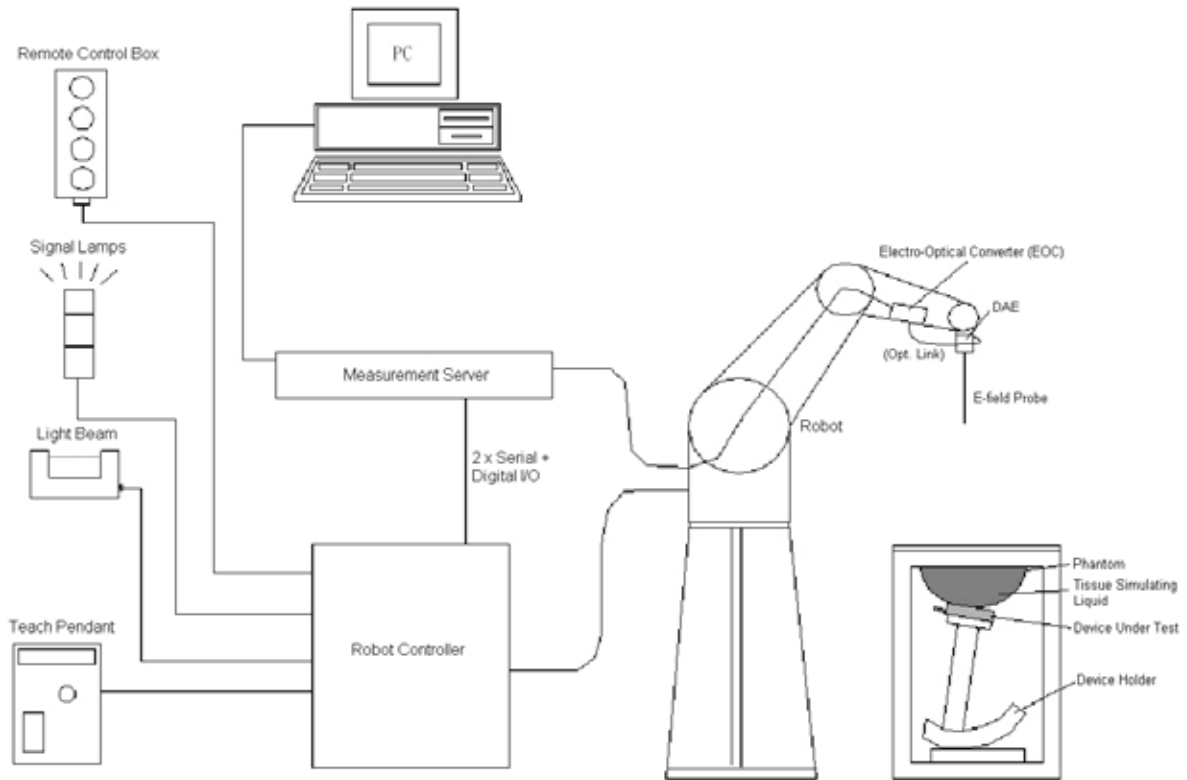
$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where:  $\sigma$  is the conductivity of the tissue,  $\rho$  is the mass density of the tissue and E is the RMS electrical field strength.

#### **3.2 SPEAG DASY System**

DASY system consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY4/5 software defined. The DASY software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC.

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**Fig-3.1 DASY System Setup**

### 3.2.1 Robot

The DASY system uses the high precision robots from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY4: CS7MB; DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability  $\pm 0.035$  mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)



**Fig-3.2 DASY4**




**Fig-3.3 DASY5**




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### 3.2.2 Probes

The SAR measurement is conducted with the dosimetric probe. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

<b>Model</b>	EX3DV4	
<b>Construction</b>	Symmetrical design with triangular core. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).	
<b>Frequency</b>	10 MHz to 6 GHz Linearity: $\pm 0.2$ dB	
<b>Directivity</b>	$\pm 0.3$ dB in HSL (rotation around probe axis) $\pm 0.5$ dB in tissue material (rotation normal to probe axis)	
<b>Dynamic Range</b>	10 $\mu$ W/g to 100 mW/g Linearity: $\pm 0.2$ dB (noise: typically $< 1$ $\mu$ W/g)	
<b>Dimensions</b>	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	


<b>Model</b>	ES3DV3	
<b>Construction</b>	Symmetrical design with triangular core. Interleaved sensors. Built-in shielding against static charges. PEEK enclosure material (resistant to organic solvents, e.g., DGBE).	
<b>Frequency</b>	10 MHz to 4 GHz Linearity: $\pm 0.2$ dB	
<b>Directivity</b>	$\pm 0.2$ dB in HSL (rotation around probe axis) $\pm 0.3$ dB in tissue material (rotation normal to probe axis)	
<b>Dynamic Range</b>	5 $\mu$ W/g to 100 mW/g Linearity: $\pm 0.2$ dB	
<b>Dimensions</b>	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm	


### 3.2.3 Data Acquisition Electronics (DAE)

<b>Model</b>	DAE3, DAE4	
<b>Construction</b>	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
<b>Measurement Range</b>	-100 to +300 mV (16 bit resolution and two range settings: 4mV, 400mV)	
<b>Input Offset Voltage</b>	$< 5$ $\mu$ V (with auto zero)	
<b>Input Bias Current</b>	$< 50$ fA	
<b>Dimensions</b>	60 x 60 x 68 mm	

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## 3.2.4 Phantoms


<b>Model</b>	Twin SAM	
<b>Construction</b>	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.	
<b>Material</b>	Vinylester, glass fiber reinforced (VE-GF)	
<b>Shell Thickness</b>	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
<b>Dimensions</b>	Length: 1000 mm Width: 500 mm Height: adjustable feet	
<b>Filling Volume</b>	approx. 25 liters	

<b>Model</b>	ELI	
<b>Construction</b>	Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
<b>Material</b>	Vinylester, glass fiber reinforced (VE-GF)	
<b>Shell Thickness</b>	2.0 ± 0.2 mm (bottom plate)	
<b>Dimensions</b>	Major axis: 600 mm Minor axis: 400 mm	
<b>Filling Volume</b>	approx. 30 liters	


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## 3.2.5 Device Holder

<b>Model</b>	Mounting Device	
<b>Construction</b>	In combination with the Twin SAM Phantom or ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Rotation point is the ear opening point. Transmitter devices can be easily and accurately positioned according to IEC, IEEE, FCC or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat).	
<b>Material</b>	POM	

<b>Model</b>	Laptop Extensions Kit	
<b>Construction</b>	Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner.	
<b>Material</b>	POM, Acrylic glass, Foam	

## 3.2.6 System Validation Dipoles

<b>Model</b>	D-Serial	
<b>Construction</b>	Symmetrical dipole with 1/4 balun. Enables measurement of feed point impedance with NWA. Matched for use near flat phantoms filled with tissue simulating solutions.	
<b>Frequency</b>	750 MHz to 5800 MHz	
<b>Return Loss</b>	> 20 dB	
<b>Power Capability</b>	> 100 W (f < 1GHz), > 40 W (f > 1GHz)	

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### 3.2.7 Tissue Simulating Liquids

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in Table-3.1.



The dielectric properties of the head tissue simulating liquids are defined in IEEE 1528, and KDB 865664 D01 Appendix A. For the body tissue simulating liquids, the dielectric properties are defined in KDB 865664 D01 Appendix A. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using an Agilent 85070D Dielectric Probe Kit and an Agilent Network Analyzer.



Table-3.1 Targets of Tissue Simulating Liquid

Frequency (MHz)	Target Permittivity	Range of $\pm 5\%$	Target Conductivity	Range of $\pm 5\%$
<b>For Head</b>				
750	41.9	39.8 ~ 44.0	0.89	0.85 ~ 0.93
835	41.5	39.4 ~ 43.6	0.90	0.86 ~ 0.95
900	41.5	39.4 ~ 43.6	0.97	0.92 ~ 1.02
1450	40.5	38.5 ~ 42.5	1.20	1.14 ~ 1.26
1640	40.3	38.3 ~ 42.3	1.29	1.23 ~ 1.35
1750	40.1	38.1 ~ 42.1	1.37	1.30 ~ 1.44
1800	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
1900	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2000	40.0	38.0 ~ 42.0	1.40	1.33 ~ 1.47
2300	39.5	37.5 ~ 41.5	1.67	1.59 ~ 1.75
2450	39.2	37.2 ~ 41.2	1.80	1.71 ~ 1.89
2600	39.0	37.1 ~ 41.0	1.96	1.86 ~ 2.06
3500	37.9	36.0 ~ 39.8	2.91	2.76 ~ 3.06
5200	36.0	34.2 ~ 37.8	4.66	4.43 ~ 4.89
5300	35.9	34.1 ~ 37.7	4.76	4.52 ~ 5.00
5500	35.6	33.8 ~ 37.4	4.96	4.71 ~ 5.21
5600	35.5	33.7 ~ 37.3	5.07	4.82 ~ 5.32
5800	35.3	33.5 ~ 37.1	5.27	5.01 ~ 5.53
<b>For Body</b>				
750	55.5	52.7 ~ 58.3	0.96	0.91 ~ 1.01
835	55.2	52.4 ~ 58.0	0.97	0.92 ~ 1.02
900	55.0	52.3 ~ 57.8	1.05	1.00 ~ 1.10
1450	54.0	51.3 ~ 56.7	1.30	1.24 ~ 1.37
1640	53.8	51.1 ~ 56.5	1.40	1.33 ~ 1.47
1750	53.4	50.7 ~ 56.1	1.49	1.42 ~ 1.56
1800	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
1900	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
2000	53.3	50.6 ~ 56.0	1.52	1.44 ~ 1.60
2300	52.9	50.3 ~ 55.5	1.81	1.72 ~ 1.90
2450	52.7	50.1 ~ 55.3	1.95	1.85 ~ 2.05
2600	52.5	49.9 ~ 55.1	2.16	2.05 ~ 2.27
3500	51.3	48.7 ~ 53.9	3.31	3.14 ~ 3.48
5200	49.0	46.6 ~ 51.5	5.30	5.04 ~ 5.57
5300	48.9	46.5 ~ 51.3	5.42	5.15 ~ 5.69
5500	48.6	46.2 ~ 51.0	5.65	5.37 ~ 5.93
5600	48.5	46.1 ~ 50.9	5.77	5.48 ~ 6.06
5800	48.2	45.8 ~ 50.6	6.00	5.70 ~ 6.30

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The following table gives the recipes for tissue simulating liquids.

**Table-3.2 Recipes of Tissue Simulating Liquid**

Tissue Type	Bactericide	DGBE	HEC	NaCl	Sucrose	Triton X-100	Water	Diethylene Glycol Mono-hexylether
H750	0.2	-	0.2	1.5	56.0	-	42.1	-
H835	0.2	-	0.2	1.5	57.0	-	41.1	-
H900	0.2	-	0.2	1.4	58.0	-	40.2	-
H1450	-	43.3	-	0.6	-	-	56.1	-
H1640	-	45.8	-	0.5	-	-	53.7	-
H1750	-	47.0	-	0.4	-	-	52.6	-
H1800	-	44.5	-	0.3	-	-	55.2	-
H1900	-	44.5	-	0.2	-	-	55.3	-
H2000	-	44.5	-	0.1	-	-	55.4	-
H2300	-	44.9	-	0.1	-	-	55.0	-
H2450	-	45.0	-	0.1	-	-	54.9	-
H2600	-	45.1	-	0.1	-	-	54.8	-
H3500	-	8.0	-	0.2	-	20.0	71.8	-
H5G	-	-	-	-	-	17.2	65.5	17.3
B750	0.2	-	0.2	0.8	48.8	-	50.0	-
B835	0.2	-	0.2	0.9	48.5	-	50.2	-
B900	0.2	-	0.2	0.9	48.2	-	50.5	-
B1450	-	34.0	-	0.3	-	-	65.7	-
B1640	-	32.5	-	0.3	-	-	67.2	-
B1750	-	31.0	-	0.2	-	-	68.8	-
B1800	-	29.5	-	0.4	-	-	70.1	-
B1900	-	29.5	-	0.3	-	-	70.2	-
B2000	-	30.0	-	0.2	-	-	69.8	-
B2300	-	31.0	-	0.1	-	-	68.9	-
B2450	-	31.4	-	0.1	-	-	68.5	-
B2600	-	31.8	-	0.1	-	-	68.1	-
B3500	-	28.8	-	0.1	-	-	71.1	-
B5G	-	-	-	-	-	10.7	78.6	10.7

### 3.3 SAR System Verification

The system check verifies that the system operates within its specifications. It is performed daily or before every SAR measurement. The system check uses normal SAR measurements in the flat section of the phantom with a matched dipole at a specified distance. The system verification setup is shown as below.

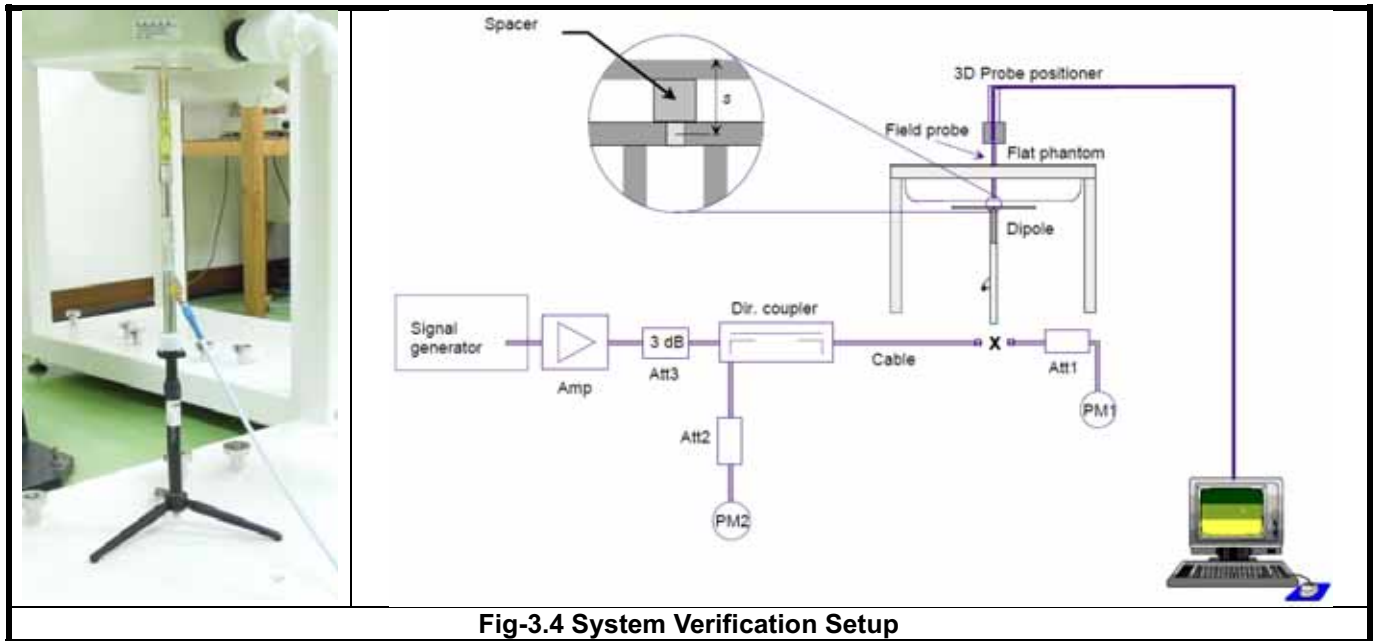


Fig-3.4 System Verification Setup

The validation dipole is placed beneath the flat phantom with the specific spacer in place. The distance spacer is touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The power meter PM1 measures the forward power at the location of the system check dipole connector. The signal generator is adjusted for the desired forward power (250 mW is used for 700 MHz to 3 GHz, 100 mW is used for 3.5 GHz to 6 GHz) at the dipole connector and the power meter PM2 is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter PM2.

After system check testing, the SAR result will be normalized to 1W forward input power and compared with the reference SAR value derived from validation dipole certificate report. The deviation of system check should be within 10 %.

**3.4 SAR Measurement Procedure**

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

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

The SAR measurement procedures for each of test conditions are as follows:

- (a) Make EUT to transmit maximum output power
- (b) Measure conducted output power through RF cable
- (c) Place the EUT in the specific position of phantom
- (d) Perform SAR testing steps on the DASY system
- (e) Record the SAR value

**3.4.1 Area & Zoom Scan Procedure**

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. According to KDB 865664 D01, the resolution for Area and Zoom scan is specified in the table below.

Items	<= 2 GHz	2-3 GHz	3-4 GHz	4-5 GHz	5-6 GHz
Area Scan ( $\Delta x, \Delta y$ )	<= 15 mm	<= 12 mm	<= 12 mm	<= 10 mm	<= 10 mm
Zoom Scan ( $\Delta x, \Delta y$ )	<= 8 mm	<= 5 mm	<= 5 mm	<= 4 mm	<= 4 mm
Zoom Scan ( $\Delta z$ )	<= 5 mm	<= 5 mm	<= 4 mm	<= 3 mm	<= 2 mm
Zoom Scan Volume	>= 30 mm	>= 30 mm	>= 28 mm	>= 25 mm	>= 22 mm

**Note:**

When zoom scan is required and report SAR is <= 1.4 W/kg, the zoom scan resolution of  $\Delta x / \Delta y$  (2-3GHz: <= 8 mm, 3-4GHz: <= 7 mm, 4-6GHz: <= 5 mm) may be applied.

**3.4.2 Volume Scan Procedure**

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





### 3.4.3 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 drift more than 5%, the SAR will be retested.

### 3.4.4 Spatial Peak SAR Evaluation

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

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

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

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

### 3.4.5 SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5 mm.



## 4. SAR Measurement Evaluation

### 4.1 EUT Configuration and Setting

The device supports WWAN, WLAN, and Bluetooth capabilities. It is designed with a proximity sensor which can trigger/not trigger power reduction for WWAN and WLAN on Rear Face, Top Side and Bottom Side of EUT for SAR compliance. Others RF capability (Bluetooth) have no power reduction. The power levels for all wireless technologies and the power reduction please refer to section 4.6.1 of this report.

According to the procedures noticed in KDB 616217 D04, the proximity sensor triggering distance is 11 mm for EUT Rear Face, and 10 mm for Top Side and Bottom Side. The separation distance of 10 mm determined by the smallest triggering distance on Top Side and Bottom Side is used to access the tilt angle influence and the sensor does not release during ±45 degree. Therefore, the smallest separation distance for tilt angle influence is 10 mm for both Top Side and Bottom Side. The details can be found in technical document. The conservation triggering distances based on the separation distance for the sensor trigger / not triggered as EUT with power reduction at 0 mm, and EUT without power reduction at 10 mm for EUT Rear Face, and 9 mm for Top Side and Bottom Side is used to test SAR.

The power reduction is depends on the proximity sensor input. For a steady SAR test, the power reduction was enabled/disabled manually by engineering software during SAR testing.

The EUT is a data transmitter device that contains one WWAN transmitter (GSM / WCDMA / LTE), and two WWAN antennas for transmit diversity. Confirming the LTE transmitter follows 3GPP standards, is category 3, FDD-LTE band 2 (BW 1.4/3/5/10/15/20 MHz), FDD-LTE band 4 (BW 1.4/3/5/10/15/20 MHz), FDD-LTE band 5 (BW 1.4/3/5/10 MHz), FDD-LTE band 7 (BW 5/10/15/20 MHz), FDD-LTE band 12 (BW 1.4/3/5/10 MHz), FDD-LTE band 13 (BW 5/10 MHz), FDD-LTE band 17 (BW 5/10 MHz), FDD-LTE band 25 (BW 1.4/3/5/10/15/20 MHz), FDD-LTE band 26 (BW 1.4/3/5/10/15 MHz), TDD-LTE band 41 (BW 5/10/15/20 MHz), supports QPSK / 16QAM modulations, and supports data transmission only. Tested per 3GPP 36.521 maximum transmit procedures for both QPSK / 16QAM.

**LTE Maximum Power Reduction in accordance with 3GPP 36.101:** Power Reduction in accordance to 3GPP is active all times during LTE operation.

Modulation	Channel Bandwidth / RB Configurations						LTE MPR Setting (dB)
	BW 1.4 MHz	BW 3 MHz	BW 5 MHz	BW 10 MHz	BW 15 MHz	BW 20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	<= 5	<= 4	<= 8	<= 12	<= 16	<= 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2

**Note:** MPR is according to the standard and implemented in the circuit (mandatory).

In addition, the device is compliant with A-MPR requirements defined in 36.101 section 6.2.4 that may be required to meet 3GPP Adjacent Channel Leakage Ratio (“ACLR”) requirements. A-MPR was disabled for all FCC compliance testing.



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The simultaneous transmission possibilities are listed as below.

Simultaneous Tx Combination	RF Configuration
1	GSM850 (Data) + WLAN (Data)
2	GSM1900 (Data) + WLAN (Data)
3	WCDMA II (Data) + WLAN (Data)
4	WCDMA IV (Data) + WLAN (Data)
5	WCDMA V (Data) + WLAN (Data)
6	LTE Band 2 (Data) + WLAN (Data)
7	LTE Band 4 (Data) + WLAN (Data)
8	LTE Band 5 (Data) + WLAN (Data)
9	LTE Band 7 (Data) + WLAN (Data)
10	LTE Band 12 (Data) + WLAN (Data)
11	LTE Band 13 (Data) + WLAN (Data)
12	LTE Band 17 (Data) + WLAN (Data)
13	LTE Band 25 (Data) + WLAN (Data)
14	LTE Band 26 (Data) + WLAN (Data)
15	LTE Band 41 (Data) + WLAN (Data)
16	GSM850 (Data) + BT (Data)
17	GSM1900 (Data) + BT (Data)
18	WCDMA II (Data) + BT (Data)
19	WCDMA IV (Data) + BT (Data)
20	WCDMA V (Data) + BT (Data)
21	LTE Band 2 (Data) + BT (Data)
22	LTE Band 4 (Data) + BT (Data)
23	LTE Band 5 (Data) + BT (Data)
24	LTE Band 7 (Data) + BT (Data)
25	LTE Band 12 (Data) + BT (Data)
26	LTE Band 13 (Data) + BT (Data)
27	LTE Band 17 (Data) + BT (Data)
28	LTE Band 25 (Data) + BT (Data)
29	LTE Band 26 (Data) + BT (Data)
30	LTE Band 41 (Data) + BT (Data)

**Note :**

1. This device does not support voice transmission capability.
2. The 2.4G WLAN and 5G WLAN cannot transmit simultaneously.
3. WLAN and BT cannot transmit at the same time.



## FCC SAR Test Report

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For WWAN SAR testing, the EUT was linked and controlled by base station emulator (Agilent E5515C is used for GSM/WCDMA, and Anritsu MT8820C is used for LTE). Communication between the EUT and the emulator was established by air link. The distance between the EUT and the communicating antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during SAR testing.

For GSM850, the power control level is set to 5. For GPRS850 (GMSK, CS1), the power control level is set to 5. For EDGE850 (GMSK: MCS1, 8PSK:MCS9), the power control level is set to 8. For GSM1900, the power control level is set to 0. For GPRS1900 (GMSK, CS1), the power control level is set to 0. For EDGE1900 (GMSK: MCS1, 8PSK:MCS9), the power control level is set to 2.

For WCDMA, body SAR is tested under 12.2k RMC mode with power control set all up bits. SAR for AMR is not required since its power is less than 1/4 dB higher than RMC. SAR for HSDPA/HSUPA is not required since its power is less than 1/4 dB higher than RMC without HSDPA/HSUPA and SAR for 12.2 kbps RMC is less than 75% of the SAR limit (1.2 W/kg).

For LTE, set the related parameters of operating band, channel bandwidth, uplink channel number, modulation type, and RB in base station simulator. When the EUT has registered and communicated to base station simulator, set the simulator to make EUT transmitting the maximum radiated power. The steps for system simulator (Anritsu MT8820C) setup are as below.

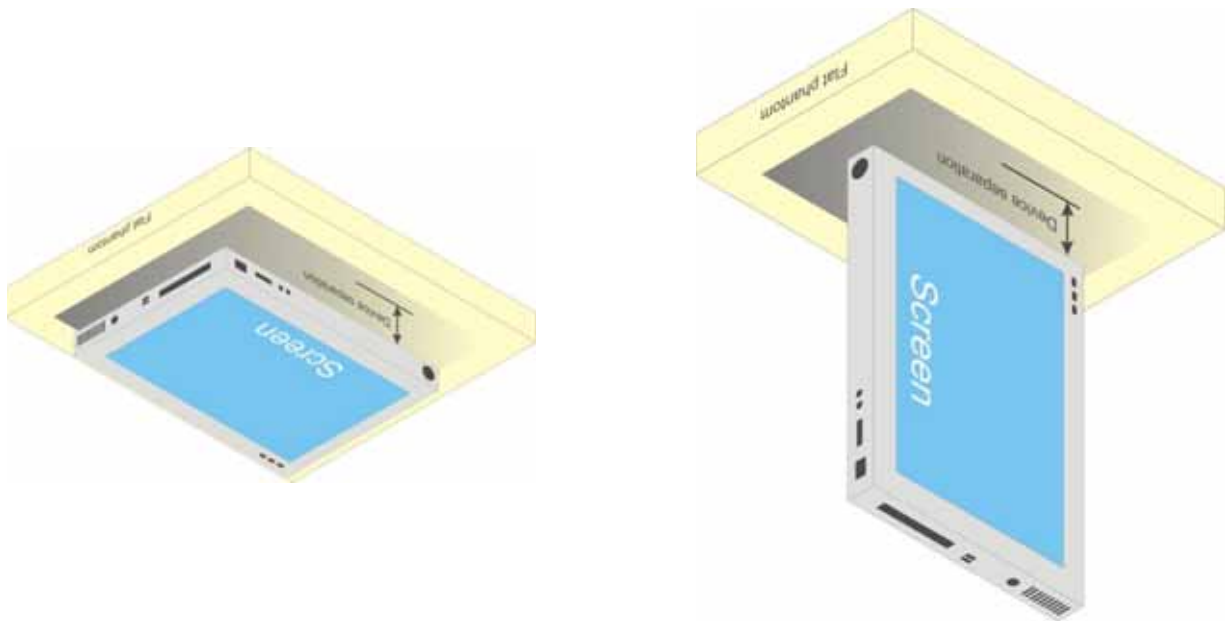
1. Press the "Std" button to select "LTE 22.20S" function
2. Choose the "Screen Select" item to "Fundamental Measurement"
3. Enter the "Common" item
4. Set the Operating Band
5. Set the Channel Bandwidth
6. Set the UL Channel & Frequency
7. Set the Modulation
8. Set the RB number and RB shift
9. Press "Start Call" button when EUT register to the system simulator
10. Set the TX-1 Max. Power to make the EUT transmit maximum output power

In addition, the TDD-LTE for this device supports Uplink-Downlink configuration 0 only. Therefore, SAR is tested with fixed periodic duty at the highest duty factor using Uplink-Downlink configuration 0 with special sub-frame configuration 5 per KDB 941225 D05 and 3GPP TS 36.211. A KDB Inquiry was submitted to the FCC to determine SAR test requirements for LTE. Please see operational description for more information.

For WLAN SAR testing, the EUT has installed WLAN engineering testing software which can provide continuous transmitting RF signal. According to KDB 248227 D01, WLAN SAR should tested at the lowest data rate, and testing at higher data rate is not required when the maximum average output power is less than 1/4 dB higher than those measured at the lowest data rate. Since the WLAN power at lowest data rate has highest output power, WLAN SAR for this device was performed at the lowest data rate.

## **4.2 EUT Testing Position**

According to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.



**Fig-4.1 Illustration for Tablet Setup**

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According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

1. For the test separation distance  $\leq 50$  mm

$$\frac{\text{Max. Tune up Power}_{(mW)}}{\text{Min. Test Separation Distance}_{(mm)}} \times \sqrt{f_{(GHz)}} \leq 3.0$$

When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

2. For the test separation distance  $> 50$  mm, and the frequency at 100 MHz to 1500 MHz

$$\left[ (\text{Threshold at 50 mm in Step 1}) + (\text{Test Separation Distance} - 50 \text{ mm}) \times \left( \frac{f_{(MHz)}}{150} \right) \right]_{(mW)}$$

3. For the test separation distance  $> 50$  mm, and the frequency at  $> 1500$  MHz to 6 GHz

$$[(\text{Threshold at 50 mm in Step 1}) + (\text{Test Separation Distance} - 50 \text{ mm}) \times 10]_{(mW)}$$

## <For WWAN Ant-0>

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Rear Face			Left Side			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
GSM 850	26.5	447	5	82.4	Yes	40.28	10.2	Yes	107.4	488 mW	No	0	82.4	Yes	219	1119 mW	No
GSM 1900	24.0	251	5	69.4	Yes	40.28	8.6	Yes	107.4	683 mW	No	0	69.4	Yes	219	1799 mW	No
WCDMA II	23.5	224	5	61.9	Yes	40.28	7.7	Yes	107.4	683 mW	No	0	61.9	Yes	219	1799 mW	No
WCDMA IV	23.5	224	5	59.3	Yes	40.28	7.4	Yes	107.4	687 mW	No	0	59.3	Yes	219	1803 mW	No
WCDMA V	23.5	224	5	41.2	Yes	40.28	5.1	Yes	107.4	487 mW	No	0	41.2	Yes	219	1117 mW	No
LTE2	22.6	182	5	50.3	Yes	40.28	6.2	Yes	107.4	683 mW	No	0	50.3	Yes	219	1799 mW	No
LTE4	22.6	182	5	48.2	Yes	40.28	6	Yes	107.4	687 mW	No	0	48.2	Yes	219	1803 mW	No
LTE5	22.6	182	5	33.5	Yes	40.28	4.2	Yes	107.4	487 mW	No	0	33.5	Yes	219	1118 mW	No
LTE7	22.5	178	5	57	Yes	40.28	7.1	Yes	107.4	668 mW	No	0	57	Yes	219	1784 mW	No
LTE12	22.1	162	5	27.4	Yes	40.28	3.4	Yes	107.4	451 mW	No	0	27.4	Yes	219	983 mW	No
LTE13	22.7	186	5	33	Yes	40.28	4.1	Yes	107.4	470 mW	No	0	33	Yes	219	1054 mW	No
LTE17	22.7	186	5	31.4	Yes	40.28	3.9	Yes	107.4	451 mW	No	0	31.4	Yes	219	982 mW	No
LTE25	22.6	182	5	50.4	Yes	40.28	6.3	Yes	107.4	682 mW	No	0	50.4	Yes	219	1798 mW	No
LTE26	22.6	182	5	33.5	Yes	40.28	4.2	Yes	107.4	487 mW	No	0	33.5	Yes	219	1118 mW	No
LTE41	22.6	182	5	59.7	Yes	40.28	7.4	Yes	107.4	665 mW	No	0	59.7	Yes	219	1781 mW	No

### Note:

Since GSM has multi-slot operation, the maximum tune-up power shown in above table for GSM is source-based time-averaged maximum power.



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## <For WWAN Ant-1>

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Rear Face			Left Side			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
GSM 850	26.5	447	5	82.4	Yes	105.75	478 mW	No	40.87	10.1	Yes	220.69	1129 mW	No	0	82.4	Yes
GSM 1900	24.0	251	5	69.4	Yes	105.75	666 mW	No	40.87	8.5	Yes	220.69	1815 mW	No	0	69.4	Yes
WCDMA II	23.5	224	5	61.9	Yes	105.75	666 mW	No	40.87	7.6	Yes	220.69	1815 mW	No	0	61.9	Yes
WCDMA IV	23.5	224	5	59.3	Yes	105.75	671 mW	No	40.87	7.3	Yes	220.69	1820 mW	No	0	59.3	Yes
WCDMA V	23.5	224	5	41.2	Yes	105.75	478 mW	No	40.87	5	Yes	220.69	1127 mW	No	0	41.2	Yes
LTE 2	22.6	182	5	50.3	Yes	105.75	666 mW	No	40.87	6.2	Yes	220.69	1815 mW	No	0	50.3	Yes
LTE 4	22.6	182	5	48.2	Yes	105.75	671 mW	No	40.87	5.9	Yes	220.69	1820 mW	No	0	48.2	Yes
LTE 5	22.6	182	5	33.5	Yes	105.75	478 mW	No	40.87	4.1	Yes	220.69	1128 mW	No	0	33.5	Yes
LTE 7	22.5	178	5	57	Yes	105.75	651 mW	No	40.87	7	Yes	220.69	1801 mW	No	0	57	Yes
LTE 12	22.1	162	5	27.4	Yes	105.75	443 mW	No	40.87	3.4	Yes	220.69	991 mW	No	0	27.4	Yes
LTE 13	22.7	186	5	33	Yes	105.75	461 mW	No	40.87	4	Yes	220.69	1063 mW	No	0	33	Yes
LTE 17	22.7	186	5	31.4	Yes	105.75	443 mW	No	40.87	3.8	Yes	220.69	990 mW	No	0	31.4	Yes
LTE 25	22.6	182	5	50.4	Yes	105.75	666 mW	No	40.87	6.2	Yes	220.69	1815 mW	No	0	50.4	Yes
LTE 26	22.6	182	5	33.5	Yes	105.75	478 mW	No	40.87	4.1	Yes	220.69	1128 mW	No	0	33.5	Yes
LTE 41	22.6	182	5	59.7	Yes	105.75	649 mW	No	40.87	7.3	Yes	220.69	1798 mW	No	0	59.7	Yes

### Note:

Since GSM has multi-slot operation, the maximum tune-up power shown in above table for GSM is source-based time-averaged maximum power.

## <For BT/WLAN Ant-0>

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Rear Face			Left Side			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
WLAN 2.4G	18.5	71	5	22.3	Yes	85.7	453 mW	No	47	2.4	No	4.3	22.3	Yes	217.5	1771 mW	No
WLAN 5.2G	17.0	50	5	22.9	Yes	85.7	423 mW	No	47	2.4	No	4.3	22.9	Yes	217.5	1741 mW	No
WLAN 5.3G	17.0	50	5	23.1	Yes	85.7	422 mW	No	47	2.5	No	4.3	23.1	Yes	217.5	1740 mW	No
WLAN 5.6G	16.0	40	5	19.1	Yes	85.7	420 mW	No	47	2	No	4.3	19.1	Yes	217.5	1738 mW	No
WLAN 5.8G	17.0	50	5	24.1	Yes	85.7	419 mW	No	47	2.6	No	4.3	24.1	Yes	217.5	1737 mW	No
BT	7.5	6	5	1.9	No	85.7	452 mW	No	47	0.2	No	4.3	1.9	No	217.5	1770 mW	No





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## <For WLAN Ant-1>

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Rear Face			Left Side			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
WLAN 2.4G	18.5	71	5	22.3	Yes	24.778	4.5	Yes	106.85	664 mW	No	214.69	1742 mW	No	6	18.6	Yes
WLAN 5.2G	16.5	45	5	20.6	Yes	24.778	4.2	Yes	106.85	634 mW	No	214.69	1712 mW	No	6	17.2	Yes
WLAN 5.3G	17.0	50	5	23.1	Yes	24.778	4.7	Yes	106.85	634 mW	No	214.69	1712 mW	No	6	19.2	Yes
WLAN 5.6G	16.5	45	5	21.5	Yes	24.778	4.3	Yes	106.85	631 mW	No	214.69	1710 mW	No	6	17.9	Yes
WLAN 5.8G	16.0	40	5	19.3	Yes	24.778	3.9	Yes	106.85	631 mW	No	214.69	1709 mW	No	6	16.1	Yes

## <For WLAN Ant-0 + Ant-1>

Mode	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Rear Face			Left Side			Right Side			Top Side			Bottom Side		
			Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
WLAN 2.4G	14.5	28	5	8.8	Yes	24.778	1.8	No	47	0.9	No	4.3	8.8	Yes	6	7.3	Yes
WLAN 5.2G	17.0	50	5	22.9	Yes	24.778	4.6	Yes	47	2.4	No	4.3	22.9	Yes	6	19.1	Yes
WLAN 5.3G	17.0	50	5	23.1	Yes	24.778	4.7	Yes	47	2.5	No	4.3	23.1	Yes	6	19.2	Yes
WLAN 5.6G	16.5	45	5	21.5	Yes	24.778	4.3	Yes	47	2.3	No	4.3	21.5	Yes	6	17.9	Yes
WLAN 5.8G	17.0	50	5	24.1	Yes	24.778	4.9	Yes	47	2.6	No	4.3	24.1	Yes	6	20.1	Yes

## 4.3 Tissue Verification

The measuring results for tissue simulating liquid are shown as below.

Test Date	Tissue Type	Frequency (MHz)	Liquid Temp. (°C)	Measured Conductivity (σ)	Measured Permittivity (ε <sub>r</sub> )	Target Conductivity (σ)	Target Permittivity (ε <sub>r</sub> )	Conductivity Deviation (%)	Permittivity Deviation (%)
Aug. 13, 2014	Body	750	21.3	0.969	55.526	0.96	55.5	0.94	0.05
Aug. 15, 2014	Body	750	21.8	0.967	55.261	0.96	55.5	0.73	-0.43
Jul. 28, 2014	Body	835	21.2	0.975	55.506	0.97	55.2	0.52	0.55
Aug. 01, 2014	Body	835	21.1	0.972	55.205	0.97	55.2	0.21	0.01
Aug. 13, 2014	Body	835	21.3	0.976	55.240	0.97	55.2	0.62	0.07
Jul. 27, 2014	Body	1750	20.2	1.468	53.780	1.49	53.4	-1.48	0.71
Aug. 14, 2014	Body	1750	21.2	1.498	52.524	1.49	53.4	0.54	-1.64
Jul. 27, 2014	Body	1900	20.7	1.547	52.591	1.52	53.3	1.78	-1.33
Aug. 14, 2014	Body	1900	21.2	1.555	53.563	1.52	53.3	2.30	0.49
Sep. 06, 2014	Body	2450	21.5	1.966	51.383	1.95	52.7	0.82	-2.50
Sep. 19, 2014	Body	2450	21.3	1.970	51.396	1.95	52.7	1.03	-2.47
Aug. 14, 2014	Body	2600	21.1	2.200	52.401	2.16	52.5	1.85	-0.19
Sep. 15, 2014	Body	5200	20.4	5.237	51.076	5.30	49.0	-1.19	4.24
Sep. 19, 2014	Body	5200	21.1	5.339	47.479	5.30	49.0	0.74	-3.10
Sep. 15, 2014	Body	5300	20.4	5.400	50.973	5.42	48.9	-0.37	4.24
Sep. 19, 2014	Body	5300	21.1	5.473	47.306	5.42	48.9	0.98	-3.26
Sep. 05, 2014	Body	5600	21.6	5.753	47.615	5.77	48.5	-0.29	-1.82
Sep. 19, 2014	Body	5600	21.1	5.903	46.754	5.77	48.5	2.31	-3.60
Sep. 05, 2014	Body	5800	21.6	5.952	47.426	6.00	48.2	-0.80	-1.93
Sep. 19, 2014	Body	5800	21.1	6.190	46.373	6.00	48.2	3.17	-3.79

### Note:

The dielectric properties of the tissue simulating liquid must be measured within 24 hours before the SAR testing and within ±5% of the target values. Liquid temperature during the SAR testing must be within ±2 °C.





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## 4.4 System Validation

The SAR measurement system was validated according to procedures in KDB 865664 D01. The validation status in tabulated summary is as below.

Test Date	Probe S/N	Calibration Point		Measured Conductivity ( $\sigma$ )	Measured Permittivity ( $\epsilon_r$ )	Validation for CW			Validation for Modulation		
						Sensitivity Range	Probe Linearity	Probe Isotropy	Modulation Type	Duty Factor	PAR
Aug. 13, 2014	3650	Body	750	0.969	55.526	Pass	Pass	Pass	N/A	N/A	N/A
Aug. 15, 2014	3650	Body	750	0.967	55.261	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 28, 2014	3971	Body	835	0.975	55.506	Pass	Pass	Pass	GMSK	Pass	N/A
Aug. 01, 2014	3971	Body	835	0.972	55.205	Pass	Pass	Pass	N/A	N/A	N/A
Aug. 13, 2014	3650	Body	835	0.976	55.240	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 27, 2014	3971	Body	1750	1.468	53.780	Pass	Pass	Pass	N/A	N/A	N/A
Aug. 14, 2014	3650	Body	1750	1.498	52.524	Pass	Pass	Pass	N/A	N/A	N/A
Jul. 27, 2014	3971	Body	1900	1.547	52.591	Pass	Pass	Pass	GMSK	Pass	N/A
Aug. 14, 2014	3650	Body	1900	1.555	53.563	Pass	Pass	Pass	N/A	N/A	N/A
Sep. 06, 2014	3650	Body	2450	1.966	51.383	Pass	Pass	Pass	OFDM	N/A	N/A
Sep. 19, 2014	3650	Body	2450	1.970	51.396	Pass	Pass	Pass	OFDM	N/A	N/A
Aug. 14, 2014	3650	Body	2600	2.200	52.401	Pass	Pass	Pass	N/A	N/A	N/A
Sep. 15, 2014	3971	Body	5200	5.237	51.076	Pass	Pass	Pass	OFDM	N/A	N/A
Sep. 19, 2014	3650	Body	5200	5.339	47.479	Pass	Pass	Pass	OFDM	N/A	N/A
Sep. 15, 2014	3971	Body	5300	5.400	50.973	Pass	Pass	Pass	OFDM	N/A	N/A
Sep. 19, 2014	3650	Body	5300	5.473	47.306	Pass	Pass	Pass	OFDM	N/A	N/A
Sep. 05, 2014	3650	Body	5600	5.753	47.615	Pass	Pass	Pass	OFDM	N/A	N/A
Sep. 19, 2014	3650	Body	5600	5.903	46.754	Pass	Pass	Pass	OFDM	N/A	N/A
Sep. 05, 2014	3650	Body	5800	5.952	47.271	Pass	Pass	Pass	OFDM	N/A	N/A
Sep. 19, 2014	3650	Body	5800	6.190	46.373	Pass	Pass	Pass	OFDM	N/A	N/A

## 4.5 System Verification

The measuring result for system verification is tabulated as below.

Test Date	Mode	Frequency (MHz)	1W Target SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Normalized to 1W SAR-1g (W/kg)	Deviation (%)	Dipole S/N	Probe S/N	DAE S/N
Aug. 13, 2014	Body	750	8.81	2.22	8.88	0.79	1013	3650	1277
Aug. 15, 2014	Body	750	8.81	2.27	9.08	3.06	1013	3650	1277
Jul. 28, 2014	Body	835	9.69	2.47	9.88	1.96	4d121	3971	1431
Aug. 01, 2014	Body	835	9.69	2.46	9.84	1.55	4d121	3971	1431
Aug. 13, 2014	Body	835	9.69	2.27	9.08	-6.30	4d121	3650	1277
Jul. 27, 2014	Body	1750	36.90	9.80	39.20	6.23	1055	3971	1431
Aug. 14, 2014	Body	1750	36.90	9.41	37.64	2.01	1055	3650	1277
Jul. 27, 2014	Body	1900	41.00	10.20	40.80	-0.49	5d036	3971	1431
Aug. 14, 2014	Body	1900	41.00	9.97	39.88	-2.73	5d036	3650	1277
Sep. 06, 2014	Body	2450	49.50	12.80	51.20	3.43	737	3650	1277
Sep. 19, 2014	Body	2450	49.50	13.20	52.80	6.67	737	3650	1277
Aug. 14, 2014	Body	2600	55.80	14.20	56.80	1.79	1020	3650	1277
Sep. 15, 2014	Body	5200	74.70	7.30	73.00	-2.28	1019	3971	1431
Sep. 19, 2014	Body	5200	74.70	7.45	74.50	-0.27	1019	3650	1277
Sep. 15, 2014	Body	5300	77.10	7.30	73.00	-5.32	1019	3971	1431
Sep. 19, 2014	Body	5300	77.10	7.40	74.00	-4.02	1019	3650	1277
Sep. 05, 2014	Body	5600	80.80	7.83	78.30	-3.09	1019	3650	1277
Sep. 19, 2014	Body	5600	80.80	7.74	77.40	-4.21	1019	3650	1277
Sep. 05, 2014	Body	5800	73.90	7.68	76.80	3.92	1019	3650	1277
Sep. 19, 2014	Body	5800	73.90	7.74	77.40	4.74	1019	3650	1277



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### Note:

Comparing to the reference SAR value provided by SPEAG, the validation data should be within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots can be referred to Appendix A of this report.

## 4.6 Maximum Output Power

### 4.6.1 Maximum Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

Mode	GSM850 (without Power Reduction)	GSM850 (with Power Reduction)	Power Reduction (dB)
GPRS 8 (GMSK, 1 Uplink)	33.0	30.0	3.0
GPRS 10 (GMSK, 2 Uplink)	32.5	27.5	5.0
GPRS 11 (GMSK, 3 Uplink)	30.5	25.5	5.0
GPRS 12 (GMSK, 4 Uplink)	29.0	24.5	4.5
EDGE 8 (8PSK, 1 Uplink)	27.0	23.5	3.5
EDGE 10 (8PSK, 2 Uplink)	26.5	23.5	3.0
EDGE 11 (8PSK, 3 Uplink)	26.5	23.5	3.0
EDGE 12 (8PSK, 4 Uplink)	26.0	23.5	2.5

Mode	GSM1900 (without Power Reduction)	GSM1900 (with Power Reduction)	Power Reduction (dB)
GPRS 8 (GMSK, 1 Uplink)	30.5	22.5	8.0
GPRS 10 (GMSK, 2 Uplink)	30.0	20.5	9.5
GPRS 11 (GMSK, 3 Uplink)	28.0	18.5	9.5
GPRS 12 (GMSK, 4 Uplink)	27.0	17.5	9.5
EDGE 8 (8PSK, 1 Uplink)	26.5	18.5	8.0
EDGE 10 (8PSK, 2 Uplink)	26.0	18.5	7.5
EDGE 11 (8PSK, 3 Uplink)	26.0	18.0	8.0
EDGE 12 (8PSK, 4 Uplink)	25.5	17.5	8.0

Mode	WCDMA Band II (without Power Reduction)	WCDMA Band II (with Power Reduction)	Power Reduction (dB)
RMC 12.2K	23.5	16.5	7.0

Mode	WCDMA Band IV (without Power Reduction)	WCDMA Band IV (with Power Reduction)	Power Reduction (dB)
RMC 12.2K	23.5	14.0	9.5

Mode	WCDMA Band V (without Power Reduction)	WCDMA Band V (with Power Reduction)	Power Reduction (dB)
RMC 12.2K	23.5	19.0	4.5

Mode	LTE 2 (without Power Reduction)	LTE 2 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	22.6	16.6	6.0



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Mode	LTE 4 (without Power Reduction)	LTE 4 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	22.6	16.8	5.8

Mode	LTE 5 (without Power Reduction)	LTE 5 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	22.6	22.4	0.2

Mode	LTE 7 (without Power Reduction)	LTE 7 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	22.5	16.7	5.8

Mode	LTE 12 (without Power Reduction)	LTE 12 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	22.1	20.5	1.6

Mode	LTE 13 (without Power Reduction)	LTE 13 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	22.7	22.4	0.3

Mode	LTE 17 (without Power Reduction)	LTE 17 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	22.7	20.4	2.3

Mode	LTE 25 (without Power Reduction)	LTE 25 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	22.6	17.5	5.1

Mode	LTE 26 (without Power Reduction)	LTE 26 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	22.6	22.5	0.1

Mode	LTE 41 (without Power Reduction)	LTE 41 (with Power Reduction)	Power Reduction (dB)
QPSK / 16QAM	22.6	21.0	1.6

Mode	Tx Antenna	2.4G WLAN (without Power Reduction)	2.4G WLAN (with Power Reduction)	Power Reduction (dB)
802.11b	Ant-0	18.5	14.5	4.0
	Ant-1	18.5	12.5	6.0
802.11g	Ant-0	14.5	14.0	0.5
	Ant-1	14.5	12.5	2.0
802.11n HT20	Ant-0	14.5	14.0	0.5
	Ant-1	14.5	11.5	3.0
	Ant-0+Ant-1	14.5	13.5	1.0
802.11n HT40	Ant-0	13.5	13.5	0.0
	Ant-1	13.5	11.5	2.0
	Ant-0+Ant-1	14.5	14.0	0.5



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Mode	Tx Antenna	5.2G WLAN (without Power Reduction)	5.2G WLAN (with Power Reduction)	Power Reduction (dB)
802.11a	Ant-0	17.0	13.1	5.9
	Ant-1	16.5	11.5	5.0
802.11n HT20	Ant-0	17.0	12.0	5.0
	Ant-1	16.5	10.5	6.0
	Ant-0+Ant-1	17.0	16.0	1.0
802.11n HT40	Ant-0	13.5	12.6	0.9
	Ant-1	13.0	10.5	2.5
	Ant-0+Ant-1	13.5	13.5	0.0
802.11ac VHT80	Ant-0	12.5	10.1	2.4
	Ant-1	12.5	8.5	4.0
	Ant-0+Ant-1	13.0	13.0	0.0

Mode	Tx Antenna	5.3G WLAN (without Power Reduction)	5.3G WLAN (with Power Reduction)	Power Reduction (dB)
802.11a	Ant-0	17.0	13.0	4.0
	Ant-1	16.5	12.5	4.0
802.11n HT20	Ant-0	17.0	12.5	4.5
	Ant-1	17.0	12.0	5.0
	Ant-0+Ant-1	17.0	14.0	3.0
802.11n HT40	Ant-0	13.5	13.0	0.5
	Ant-1	13.0	12.5	0.5
	Ant-0+Ant-1	14.0	14.0	0.0
802.11ac VHT80	Ant-0	12.0	11.0	1.0
	Ant-1	12.5	11.0	1.5
	Ant-0+Ant-1	13.0	13.0	0.0

Mode	Tx Antenna	5.6G WLAN (without Power Reduction)	5.6G WLAN (with Power Reduction)	Power Reduction (dB)
802.11a	Ant-0	16.0	12.5	3.5
	Ant-1	16.5	12.0	4.5
802.11n HT20	Ant-0	16.0	15.0	1.0
	Ant-1	16.5	15.5	1.0
	Ant-0+Ant-1	16.5	16.5	0.0
802.11n HT40	Ant-0	14.0	14.0	0.0
	Ant-1	13.5	13.5	0.0
	Ant-0+Ant-1	13.5	13.5	0.0
802.11ac VHT80	Ant-0	13.0	13.0	0.0
	Ant-1	13.0	13.0	0.0
	Ant-0+Ant-1	13.5	13.0	0.5



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Mode	Tx Antenna	5.8G WLAN (without Power Reduction)	5.8G WLAN (with Power Reduction)	Power Reduction (dB)
802.11a	Ant-0	17.0	12.5	4.5
	Ant-1	16.0	14.5	1.5
802.11n HT20	Ant-0	17.0	11.5	5.5
	Ant-1	16.0	13.5	2.5
	Ant-0+Ant-1	17.0	16.5	0.5
802.11n HT40	Ant-0	13.5	11.5	2.0
	Ant-1	13.0	13.0	0.0
	Ant-0+Ant-1	13.5	13.5	0.0
802.11ac VHT80	Ant-0	13.5	10.0	3.5
	Ant-1	13.0	12.5	0.5
	Ant-0+Ant-1	14.0	13.0	1.0

Mode	Bluetooth
All	7.5



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## 4.6.2 Measured Conducted Power Result

The measuring conducted average power (Unit: dBm) is shown as below.

Band Channel	GSM850			GSM1900		
	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>						
<b>Maximum Burst-Averaged Output Power</b>						
GPRS 8 (GMSK, 1 Uplink)	32.87	<b>33.10</b>	32.89	30.14	<b>30.16</b>	30.12
GPRS 10 (GMSK, 2 Uplink)	32.22	32.25	32.24	29.55	29.57	29.53
GPRS 11 (GMSK, 3 Uplink)	30.03	30.06	30.05	27.94	27.96	27.92
GPRS 12 (GMSK, 4 Uplink)	28.93	28.96	28.95	26.94	26.96	26.92
EDGE 8 (8PSK, 1 Uplink)	26.59	26.62	26.61	26.02	26.04	26.00
EDGE 10 (8PSK, 2 Uplink)	26.46	26.49	26.48	25.89	25.91	25.87
EDGE 11 (8PSK, 3 Uplink)	26.31	26.34	26.33	25.72	25.74	25.70
EDGE 12 (8PSK, 4 Uplink)	25.88	25.91	25.90	25.33	25.35	25.31
<b>Maximum Frame-Averaged Output Power</b>						
GPRS 8 (GMSK, 1 Uplink)	23.87	24.10	23.89	21.14	21.16	21.12
GPRS 10 (GMSK, 2 Uplink)	26.22	<b>26.25</b>	26.24	23.55	23.57	23.53
GPRS 11 (GMSK, 3 Uplink)	25.77	25.80	25.79	23.68	23.70	23.66
GPRS 12 (GMSK, 4 Uplink)	25.93	25.96	25.95	23.94	<b>23.96</b>	23.92
EDGE 8 (8PSK, 1 Uplink)	17.59	17.62	17.61	17.02	17.04	17.00
EDGE 10 (8PSK, 2 Uplink)	20.46	20.49	20.48	19.89	19.91	19.87
EDGE 11 (8PSK, 3 Uplink)	22.05	22.08	22.07	21.46	21.48	21.44
EDGE 12 (8PSK, 4 Uplink)	22.88	22.91	22.90	22.33	22.35	22.31
<b>EUT with Power Reduction (P-Sensor Triggered)</b>						
<b>Maximum Burst-Averaged Output Power</b>						
GPRS 8 (GMSK, 1 Uplink)	29.56	<b>29.88</b>	29.20	22.26	<b>22.30</b>	22.12
GPRS 10 (GMSK, 2 Uplink)	27.03	27.35	26.67	20.46	20.49	20.32
GPRS 11 (GMSK, 3 Uplink)	25.00	25.32	24.64	18.35	18.38	18.21
GPRS 12 (GMSK, 4 Uplink)	23.84	24.16	23.48	17.26	17.29	17.12
EDGE 8 (8PSK, 1 Uplink)	23.10	23.42	22.74	18.22	18.25	18.08
EDGE 10 (8PSK, 2 Uplink)	22.85	23.17	22.49	18.08	18.11	17.94
EDGE 11 (8PSK, 3 Uplink)	22.20	22.52	21.84	17.62	17.65	17.48
EDGE 12 (8PSK, 4 Uplink)	22.95	23.27	22.59	17.23	17.26	17.09
<b>Maximum Frame-Averaged Output Power</b>						
GPRS 8 (GMSK, 1 Uplink)	20.56	20.88	20.20	13.26	13.30	13.12
GPRS 10 (GMSK, 2 Uplink)	21.03	<b>21.35</b>	20.67	14.46	<b>14.49</b>	14.32
GPRS 11 (GMSK, 3 Uplink)	20.74	21.06	20.38	14.09	14.12	13.95
GPRS 12 (GMSK, 4 Uplink)	20.84	21.16	20.48	14.26	14.29	14.12
EDGE 8 (8PSK, 1 Uplink)	14.10	14.42	13.74	9.22	9.25	9.08
EDGE 10 (8PSK, 2 Uplink)	16.85	17.17	16.49	12.08	12.11	11.94
EDGE 11 (8PSK, 3 Uplink)	17.94	18.26	17.58	13.36	13.39	13.22
EDGE 12 (8PSK, 4 Uplink)	19.95	20.27	19.59	14.23	14.26	14.09



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Band	WCDMA Band II			WCDMA Band V			3GPP MPR (dB)
Channel	9262	9400	9538	4132	4182	4233	
Frequency (MHz)	1852.4	1880.0	1907.6	826.4	836.4	846.6	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>							
RMC 12.2K	22.88	22.91	<b>23.12</b>	<b>23.04</b>	23.02	22.91	-
HSDPA Subtest-1	21.80	21.83	22.04	21.92	21.90	21.79	0
HSDPA Subtest-2	21.78	21.81	22.02	21.94	21.92	21.81	0
HSDPA Subtest-3	21.39	21.42	21.63	21.53	21.51	21.40	0.5
HSDPA Subtest-4	21.32	21.35	21.56	21.56	21.54	21.43	0.5
HSUPA Subtest-1	21.22	21.25	21.46	21.53	21.51	21.40	0
HSUPA Subtest-2	19.96	19.99	20.20	20.40	20.38	20.27	2
HSUPA Subtest-3	20.25	20.28	20.49	20.55	20.53	20.42	1
HSUPA Subtest-4	19.95	19.98	20.19	20.25	20.23	20.12	2
HSUPA Subtest-5	21.92	21.95	22.16	21.95	21.93	21.82	0
<b>EUT with Power Reduction (P-Sensor Triggered)</b>							
RMC 12.2K	15.81	16.17	<b>16.27</b>	<b>18.72</b>	18.45	18.68	-
HSDPA Subtest-1	15.80	16.16	16.26	18.66	18.39	18.62	-
HSDPA Subtest-2	15.83	16.19	16.25	18.66	18.39	18.62	-
HSDPA Subtest-3	15.28	15.64	15.74	18.20	17.93	18.16	-
HSDPA Subtest-4	15.28	15.64	15.74	18.23	17.96	18.19	-
HSUPA Subtest-1	14.80	15.16	15.26	18.59	18.32	18.55	-
HSUPA Subtest-2	14.70	15.06	15.16	17.24	16.97	17.20	-
HSUPA Subtest-3	14.53	14.89	14.99	17.33	17.06	17.29	-
HSUPA Subtest-4	15.45	15.81	15.91	18.32	18.05	18.28	-
HSUPA Subtest-5	15.84	16.20	16.18	18.63	18.36	18.59	-

Band	WCDMA Band IV			3GPP MPR (dB)
Channel	1312	1413	1513	
Frequency (MHz)	1712.4	1732.6	1752.6	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>				
RMC 12.2K	<b>23.18</b>	23.12	23.09	-
HSDPA Subtest-1	22.11	22.05	22.02	0
HSDPA Subtest-2	22.19	22.13	22.10	0
HSDPA Subtest-3	21.73	21.67	21.64	0.5
HSDPA Subtest-4	21.71	21.65	21.62	0.5
HSUPA Subtest-1	21.53	21.47	21.44	0
HSUPA Subtest-2	20.18	20.12	20.09	2
HSUPA Subtest-3	20.69	20.63	20.60	1
HSUPA Subtest-4	20.39	20.33	20.30	2
HSUPA Subtest-5	22.25	22.19	22.16	0
<b>EUT with Power Reduction (P-Sensor Triggered)</b>				
RMC 12.2K	<b>13.73</b>	13.70	13.71	-
HSDPA Subtest-1	13.40	13.37	13.38	-
HSDPA Subtest-2	13.44	13.41	13.42	-
HSDPA Subtest-3	12.96	12.93	12.94	-
HSDPA Subtest-4	13.08	13.05	13.06	-
HSUPA Subtest-1	12.43	12.40	12.41	-
HSUPA Subtest-2	12.45	12.42	12.43	-
HSUPA Subtest-3	12.96	12.93	12.94	-
HSUPA Subtest-4	12.51	12.48	12.49	-
HSUPA Subtest-5	13.61	13.58	13.59	-



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18607	Mid CH 18900	High CH 19193		Low CH 18607	Mid CH 18900	High CH 19193	
			1850.7 MHz	1880.0 MHz	1909.3 MHz		1850.7 MHz	1880.0 MHz	1909.3 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
2 / 1.4M	1	0	22.26	22.15	22.17	0	21.20	21.08	21.10	1
	1	2	22.09	22.01	22.07	0	21.02	20.94	21.00	1
	1	5	22.21	22.13	22.19	0	21.14	21.06	21.12	1
	3	0	22.17	22.09	22.15	0	21.10	21.02	21.08	1
	3	1	22.22	22.14	22.20	0	21.15	21.07	21.13	1
	3	3	22.25	22.17	22.23	0	21.18	21.10	21.16	1
	6	0	21.09	21.01	21.07	1	20.02	19.94	20.00	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
2 / 1.4M	1	0	15.94	16.12	15.92	0	14.88	15.06	14.86	1
	1	2	16.04	16.14	15.88	0	14.98	15.08	14.82	1
	1	5	15.90	15.97	15.70	0	14.84	14.91	14.64	1
	3	0	15.00	15.15	14.89	0	13.94	14.09	13.83	1
	3	1	15.06	15.12	14.70	0	14.00	14.06	13.64	1
	3	3	14.96	15.07	14.66	0	13.90	14.01	13.60	1
	6	0	14.97	15.07	14.81	1	13.91	14.01	13.75	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18615	Mid CH 18900	High CH 19185		Low CH 18615	Mid CH 18900	High CH 19185	
			1851.5 MHz	1880.0 MHz	1908.5 MHz		1851.5 MHz	1880.0 MHz	1908.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
2 / 3M	1	0	22.32	22.24	22.26	0	21.31	21.23	21.25	1
	1	7	22.18	22.10	22.16	0	21.17	21.09	21.15	1
	1	14	22.30	22.22	22.28	0	21.29	21.21	21.27	1
	8	0	21.13	21.05	21.11	1	20.12	20.04	20.10	2
	8	3	21.18	21.10	21.16	1	20.17	20.09	20.15	2
	8	7	21.21	21.13	21.19	1	20.20	20.12	20.18	2
	15	0	21.18	21.10	21.16	1	20.17	20.09	20.15	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
2 / 3M	1	0	16.03	16.21	16.01	0	14.97	15.15	14.95	1
	1	7	16.13	16.23	15.97	0	15.07	15.17	14.91	1
	1	14	15.99	16.06	15.79	0	14.93	15.00	14.73	1
	8	0	15.09	15.24	14.98	1	14.03	14.18	13.92	2
	8	3	15.15	15.21	14.79	1	14.09	14.15	13.73	2
	8	7	15.05	15.16	14.75	1	13.99	14.10	13.69	2
	15	0	15.06	15.16	14.90	1	14.00	14.10	13.84	2





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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18625	Mid CH 18900	High CH 19175		Low CH 18625	Mid CH 18900	High CH 19175	
			1852.5 MHz	1880.0 MHz	1907.5 MHz		1852.5 MHz	1880.0 MHz	1907.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
2 / 5M	1	0	22.40	22.29	22.31	0	21.30	21.22	21.24	1
	1	12	22.23	22.15	22.21	0	21.16	21.08	21.14	1
	1	24	22.35	22.27	22.33	0	21.28	21.20	21.26	1
	12	0	21.18	21.10	21.16	1	20.11	20.03	20.09	2
	12	6	21.23	21.15	21.21	1	20.16	20.08	20.14	2
	12	13	21.26	21.18	21.24	1	20.19	20.11	20.17	2
	25	0	21.23	21.15	21.21	1	20.16	20.08	20.14	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
2 / 5M	1	0	16.11	16.29	16.09	0	15.05	15.23	15.03	1
	1	12	16.21	16.31	16.05	0	15.15	15.25	14.99	1
	1	24	16.07	16.14	15.87	0	15.01	15.08	14.81	1
	12	0	15.17	15.32	15.06	1	14.11	14.26	14.00	2
	12	6	15.23	15.29	14.87	1	14.17	14.23	13.81	2
	12	13	15.13	15.24	14.83	1	14.07	14.18	13.77	2
	25	0	15.14	15.24	14.98	1	14.08	14.18	13.92	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18650	Mid CH 18900	High CH 19150		Low CH 18650	Mid CH 18900	High CH 19150	
			1855.0 MHz	1880.0 MHz	1905.0 MHz		1855.0 MHz	1880.0 MHz	1905.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
2 / 10M	1	0	22.43	22.35	22.37	0	21.37	21.29	21.31	1
	1	24	22.29	22.21	22.27	0	21.23	21.15	21.21	1
	1	49	22.41	22.33	22.39	0	21.35	21.27	21.33	1
	25	0	21.24	21.16	21.22	1	20.18	20.10	20.16	2
	25	12	21.29	21.21	21.27	1	20.23	20.15	20.21	2
	25	25	21.32	21.24	21.30	1	20.26	20.18	20.24	2
	50	0	21.29	21.21	21.27	1	20.23	20.15	20.21	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
2 / 10M	1	0	16.23	16.41	16.21	0	15.17	15.35	15.15	1
	1	24	16.33	16.43	16.17	0	15.27	15.37	15.11	1
	1	49	16.19	16.26	15.99	0	15.13	15.20	14.93	1
	25	0	15.29	15.44	15.18	1	14.23	14.38	14.12	2
	25	12	15.35	15.41	14.99	1	14.29	14.35	13.93	2
	25	25	15.25	15.36	14.95	1	14.19	14.30	13.89	2
	50	0	15.26	15.36	15.10	1	14.20	14.30	14.04	2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18675	Mid CH 18900	High CH 19125		Low CH 18675	Mid CH 18900	High CH 19125	
			1857.5 MHz	1880.0 MHz	1902.5 MHz		1857.5 MHz	1880.0 MHz	1902.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
2 / 15M	1	0	22.50	22.42	22.44	0	21.45	21.37	21.39	1
	1	37	22.36	22.28	22.34	0	21.31	21.23	21.29	1
	1	74	22.48	22.40	22.46	0	21.43	21.35	21.41	1
	36	0	21.31	21.23	21.29	1	20.26	20.18	20.24	2
	36	19	21.36	21.28	21.34	1	20.31	20.23	20.29	2
	36	39	21.39	21.31	21.37	1	20.34	20.26	20.32	2
	75	0	21.36	21.28	21.34	1	20.31	20.23	20.29	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
2 / 15M	1	0	16.33	16.51	16.31	0	15.27	15.45	15.25	1
	1	37	16.43	16.53	16.27	0	15.37	15.47	15.21	1
	1	74	16.29	16.36	16.09	0	15.23	15.30	15.03	1
	36	0	15.39	15.54	15.28	1	14.33	14.48	14.22	2
	36	19	15.45	15.51	15.09	1	14.39	14.45	14.03	2
	36	39	15.35	15.46	15.05	1	14.29	14.40	13.99	2
	75	0	15.36	15.46	15.20	1	14.30	14.40	14.14	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18700	Mid CH 18900	High CH 19100		Low CH 18700	Mid CH 18900	High CH 19100	
			1860.0 MHz	1880.0 MHz	1900.0 MHz		1860.0 MHz	1880.0 MHz	1900.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
2 / 20M	1	0	<b>22.57</b>	22.49	22.51	0	<b>21.51</b>	21.43	21.45	1
	1	50	22.43	22.35	22.41	0	21.37	21.29	21.35	1
	1	99	22.55	22.47	22.53	0	21.49	21.41	21.47	1
	50	0	21.38	21.30	21.36	1	20.32	20.24	20.30	2
	50	25	21.43	21.35	21.41	1	20.37	20.29	20.35	2
	50	50	21.46	21.38	21.44	1	20.40	20.32	20.38	2
	100	0	21.43	21.35	21.41	1	20.37	20.29	20.35	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
2 / 20M	1	0	16.39	<b>16.59</b>	16.37	0	15.33	15.51	15.31	1
	1	50	16.49	16.57	16.33	0	15.43	<b>15.53</b>	15.27	1
	1	99	16.35	16.42	16.15	0	15.29	15.36	15.09	1
	50	0	15.45	15.60	15.34	1	14.39	14.54	14.28	2
	50	25	15.51	15.57	15.15	1	14.45	14.51	14.09	2
	50	50	15.41	15.52	15.11	1	14.35	14.46	14.05	2
	100	0	15.42	15.52	15.26	1	14.36	14.46	14.20	2



# FCC SAR Test Report

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 19957	Mid CH 20175	High CH 20393		Low CH 19957	Mid CH 20175	High CH 20393	
			1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
4 / 1.4M	1	0	21.82	21.77	21.80	0	20.76	20.71	20.74	1
	1	2	21.77	21.72	21.75	0	20.71	20.66	20.69	1
	1	5	21.69	21.64	21.67	0	20.63	20.58	20.61	1
	3	0	21.94	21.89	21.92	0	20.88	20.83	20.86	1
	3	1	21.92	21.87	21.90	0	20.86	20.81	20.84	1
	3	3	21.91	21.86	21.89	0	20.85	20.80	20.83	1
	6	0	20.88	20.83	20.86	1	19.82	19.77	19.80	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
4 / 1.4M	1	0	16.11	16.19	16.23	0	15.02	15.10	15.14	1
	1	2	16.24	16.26	16.18	0	15.15	15.17	15.09	1
	1	5	16.11	16.06	15.86	0	15.02	14.97	14.77	1
	3	0	15.26	15.32	15.29	0	14.17	14.23	14.20	1
	3	1	15.25	15.27	15.10	0	14.16	14.18	14.01	1
	3	3	15.20	15.23	15.04	0	14.11	14.14	13.95	1
	6	0	15.18	15.26	15.17	1	14.09	14.17	14.08	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 19965	Mid CH 20175	High CH 20385		Low CH 19965	Mid CH 20175	High CH 20385	
			1711.5 MHz	1732.5 MHz	1753.5 MHz		1711.5 MHz	1732.5 MHz	1753.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
4 / 3M	1	0	21.98	21.93	21.96	0	20.95	20.90	20.93	1
	1	7	21.93	21.88	21.91	0	20.90	20.85	20.88	1
	1	14	21.85	21.80	21.83	0	20.82	20.77	20.80	1
	8	0	21.03	20.98	21.01	1	20.00	19.95	19.98	2
	8	3	21.01	20.96	20.99	1	19.98	19.93	19.96	2
	8	7	21.00	20.95	20.98	1	19.97	19.92	19.95	2
	15	0	21.04	20.99	21.02	1	20.01	19.96	19.99	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
4 / 3M	1	0	16.23	16.31	16.35	0	15.14	15.22	15.26	1
	1	7	16.36	16.38	16.30	0	15.27	15.29	15.21	1
	1	14	16.23	16.18	15.98	0	15.14	15.09	14.89	1
	8	0	15.38	15.44	15.41	1	14.29	14.35	14.32	2
	8	3	15.37	15.39	15.22	1	14.28	14.30	14.13	2
	8	7	15.32	15.35	15.16	1	14.23	14.26	14.07	2
	15	0	15.30	15.38	15.29	1	14.21	14.29	14.20	2



# FCC SAR Test Report

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 19975	Mid CH 20175	High CH 20375		Low CH 19975	Mid CH 20175	High CH 20375	
			1712.5 MHz	1732.5 MHz	1752.5 MHz		1712.5 MHz	1732.5 MHz	1752.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
4 / 5M	1	0	22.12	22.07	22.10	0	21.05	21.00	21.03	1
	1	12	22.07	22.02	22.05	0	21.00	20.95	20.98	1
	1	24	21.99	21.94	21.97	0	20.92	20.87	20.90	1
	12	0	21.17	21.12	21.15	1	20.10	20.05	20.08	2
	12	6	21.15	21.10	21.13	1	20.08	20.03	20.06	2
	12	13	21.14	21.09	21.12	1	20.07	20.02	20.05	2
	25	0	21.18	21.13	21.16	1	20.11	20.06	20.09	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
4 / 5M	1	0	16.30	16.38	16.42	0	15.21	15.29	15.33	1
	1	12	16.43	16.45	16.37	0	15.34	15.36	15.28	1
	1	24	16.30	16.25	16.05	0	15.21	15.16	14.96	1
	12	0	15.45	15.51	15.48	1	14.36	14.42	14.39	2
	12	6	15.44	15.46	15.29	1	14.35	14.37	14.20	2
	12	13	15.39	15.42	15.23	1	14.30	14.33	14.14	2
	25	0	15.37	15.45	15.36	1	14.28	14.36	14.27	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20000	Mid CH 20175	High CH 20350		Low CH 20000	Mid CH 20175	High CH 20350	
			1715.0 MHz	1732.5 MHz	1750.0 MHz		1715.0 MHz	1732.5 MHz	1750.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
4 / 10M	1	0	22.26	22.21	22.24	0	21.21	21.16	21.19	1
	1	24	22.21	22.16	22.19	0	21.16	21.11	21.14	1
	1	49	22.13	22.08	22.11	0	21.08	21.03	21.06	1
	25	0	21.31	21.26	21.29	1	20.26	20.21	20.24	2
	25	12	21.29	21.24	21.27	1	20.24	20.19	20.22	2
	25	25	21.28	21.23	21.26	1	20.23	20.18	20.21	2
	50	0	21.32	21.27	21.30	1	20.27	20.22	20.25	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
4 / 10M	1	0	16.41	16.49	16.53	0	15.32	15.40	15.44	1
	1	24	16.54	16.56	16.48	0	15.45	15.47	15.39	1
	1	49	16.41	16.36	16.16	0	15.32	15.27	15.07	1
	25	0	15.56	15.62	15.59	1	14.47	14.53	14.50	2
	25	12	15.55	15.57	15.40	1	14.46	14.48	14.31	2
	25	25	15.50	15.53	15.34	1	14.41	14.44	14.25	2
	50	0	15.48	15.56	15.47	1	14.39	14.47	14.38	2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20025	Mid CH 20175	High CH 20325		Low CH 20025	Mid CH 20175	High CH 20325	
			1717.5 MHz	1732.5 MHz	1747.5 MHz		1717.5 MHz	1732.5 MHz	1747.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
4 / 15M	1	0	22.39	22.34	22.37	0	21.33	21.28	21.31	1
	1	37	22.34	22.29	22.32	0	21.28	21.23	21.26	1
	1	74	22.26	22.21	22.24	0	21.20	21.15	21.18	1
	36	0	21.44	21.39	21.42	1	20.38	20.33	20.36	2
	36	19	21.42	21.37	21.40	1	20.36	20.31	20.34	2
	36	39	21.41	21.36	21.39	1	20.35	20.30	20.33	2
	75	0	21.45	21.40	21.43	1	20.39	20.34	20.37	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
4 / 15M	1	0	16.49	16.57	16.61	0	15.40	15.48	15.52	1
	1	37	16.62	16.64	16.56	0	15.53	15.55	15.47	1
	1	74	16.49	16.44	16.24	0	15.40	15.35	15.15	1
	36	0	15.64	15.70	15.67	1	14.55	14.61	14.58	2
	36	19	15.63	15.65	15.48	1	14.54	14.56	14.39	2
	36	39	15.58	15.61	15.42	1	14.49	14.52	14.33	2
	75	0	15.56	15.64	15.55	1	14.47	14.55	14.46	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20050	Mid CH 20175	High CH 20300		Low CH 20050	Mid CH 20175	High CH 20300	
			1720.0 MHz	1732.5 MHz	1745.0 MHz		1720.0 MHz	1732.5 MHz	1745.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
4 / 20M	1	0	<b>22.60</b>	22.46	22.49	0	<b>21.55</b>	21.43	21.46	1
	1	50	22.46	22.41	22.44	0	21.43	21.38	21.41	1
	1	99	22.38	22.33	22.36	0	21.35	21.30	21.33	1
	50	0	21.56	21.51	21.54	1	20.53	20.48	20.51	2
	50	25	21.54	21.49	21.52	1	20.51	20.46	20.49	2
	50	50	21.53	21.48	21.51	1	20.50	20.45	20.48	2
	100	0	21.57	21.52	21.55	1	20.54	20.49	20.52	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
4 / 20M	1	0	16.59	16.67	16.71	0	15.50	15.58	15.62	1
	1	50	16.72	<b>16.74</b>	16.66	0	15.63	<b>15.65</b>	15.57	1
	1	99	16.59	16.54	16.34	0	15.50	15.45	15.25	1
	50	0	15.74	15.80	15.77	1	14.65	14.71	14.68	2
	50	25	15.73	15.75	15.58	1	14.64	14.66	14.49	2
	50	50	15.68	15.71	15.52	1	14.59	14.62	14.43	2
	100	0	15.66	15.74	15.65	1	14.57	14.65	14.56	2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20407	Mid CH 20525	High CH 20643		Low CH 20407	Mid CH 20525	High CH 20643	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
5 / 1.4M	1	0	22.07	22.27	22.12	0	21.06	21.26	21.11	1
	1	2	22.06	22.14	22.11	0	21.05	21.13	21.10	1
	1	5	22.06	22.14	22.11	0	21.05	21.13	21.10	1
	3	0	22.16	22.24	22.21	0	21.15	21.23	21.20	1
	3	1	22.19	22.15	22.24	0	21.18	21.14	21.23	1
	3	3	22.18	22.26	22.23	0	21.17	21.25	21.22	1
	6	0	21.15	21.23	21.20	1	20.14	20.22	20.19	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
5 / 1.4M	1	0	21.98	21.94	21.95	0	20.89	20.85	20.86	1
	1	2	22.02	22.09	21.93	0	20.93	21.00	20.84	1
	1	5	21.90	21.83	21.86	0	20.81	20.74	20.77	1
	3	0	21.16	21.12	20.93	0	20.07	20.03	19.84	1
	3	1	21.10	21.07	20.81	0	20.01	19.98	19.72	1
	3	3	21.04	20.97	20.91	0	19.95	19.88	19.82	1
	6	0	21.14	21.18	21.01	1	20.05	20.09	19.92	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20415	Mid CH 20525	High CH 20635		Low CH 20415	Mid CH 20525	High CH 20635	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
5 / 3M	1	0	22.20	22.28	22.25	0	21.18	21.26	21.23	1
	1	7	22.19	22.27	22.24	0	21.17	21.25	21.22	1
	1	14	22.19	22.27	22.24	0	21.17	21.25	21.22	1
	8	0	21.15	21.23	21.20	1	20.13	20.21	20.18	2
	8	3	21.18	21.26	21.23	1	20.16	20.24	20.21	2
	8	7	21.17	21.25	21.22	1	20.15	20.23	20.20	2
	15	0	21.28	21.36	21.33	1	20.26	20.34	20.31	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
5 / 3M	1	0	22.07	22.03	22.04	0	20.98	20.94	20.95	1
	1	7	22.11	22.18	22.02	0	21.02	21.09	20.93	1
	1	14	21.99	21.92	21.95	0	20.90	20.83	20.86	1
	8	0	21.25	21.21	21.02	1	20.16	20.12	19.93	2
	8	3	21.19	21.16	20.90	1	20.10	20.07	19.81	2
	8	7	21.13	21.06	21.00	1	20.04	19.97	19.91	2
	15	0	21.23	21.27	21.1	1	20.14	20.18	20.01	2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20425	Mid CH 20525	High CH 20625		Low CH 20425	Mid CH 20525	High CH 20625	
			826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
5 / 5M	1	0	22.33	22.41	22.38	0	21.27	21.35	21.32	1
	1	12	22.32	22.40	22.37	0	21.26	21.34	21.31	1
	1	24	22.32	22.40	22.37	0	21.26	21.34	21.31	1
	12	0	21.28	21.36	21.33	1	20.22	20.30	20.27	2
	12	6	21.31	21.39	21.36	1	20.25	20.33	20.30	2
	12	13	21.30	21.38	21.35	1	20.24	20.32	20.29	2
	25	0	21.41	21.49	21.46	1	20.35	20.43	20.40	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
5 / 5M	1	0	22.19	22.15	22.16	0	21.10	21.06	21.07	1
	1	12	22.23	22.30	22.14	0	21.14	21.21	21.05	1
	1	24	22.11	22.04	22.07	0	21.02	20.95	20.98	1
	12	0	21.37	21.33	21.14	1	20.28	20.24	20.05	2
	12	6	21.31	21.28	21.02	1	20.22	20.19	19.93	2
	12	13	21.25	21.18	21.12	1	20.16	20.09	20.03	2
	25	0	21.35	21.39	21.22	1	20.26	20.30	20.13	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20450	Mid CH 20525	High CH 20600		Low CH 20450	Mid CH 20525	High CH 20600	
			829.0 MHz	836.5 MHz	844.0 MHz		829.0 MHz	836.5 MHz	844.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
5 / 10M	1	0	22.48	<b>22.56</b>	22.53	0	21.42	<b>21.50</b>	21.47	1
	1	24	22.47	22.55	22.52	0	21.41	21.49	21.46	1
	1	49	22.47	22.55	22.52	0	21.41	21.49	21.46	1
	25	0	21.43	21.51	21.48	1	20.37	20.45	20.42	2
	25	12	21.46	21.54	21.51	1	20.40	20.48	20.45	2
	25	25	21.45	21.53	21.50	1	20.39	20.47	20.44	2
	50	0	21.56	21.64	21.61	1	20.50	20.58	20.55	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
5 / 10M	1	0	22.27	22.23	22.24	0	21.18	21.14	21.15	1
	1	24	22.31	<b>22.38</b>	22.22	0	21.22	<b>21.29</b>	21.13	1
	1	49	22.19	22.12	22.15	0	21.10	21.03	21.06	1
	25	0	21.45	21.41	21.22	1	20.36	20.32	20.13	2
	25	12	21.39	21.36	21.10	1	20.3	20.27	20.01	2
	25	25	21.33	21.26	21.20	1	20.24	20.17	20.11	2
	50	0	21.43	21.47	21.30	1	20.34	20.38	20.21	2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20775	Mid CH 21100	High CH 21425		Low CH 20775	Mid CH 21100	High CH 21425	
			2502.5 MHz	2535.0 MHz	2567.5 MHz		2502.5 MHz	2535.0 MHz	2567.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
7 / 5M	1	0	21.78	21.87	21.81	0	20.74	20.83	20.77	1
	1	12	21.83	21.92	21.86	0	20.79	20.88	20.82	1
	1	24	21.89	21.98	21.92	0	20.85	20.94	20.88	1
	12	0	20.76	20.85	20.79	1	19.72	19.81	19.75	2
	12	6	20.79	20.88	20.82	1	19.75	19.84	19.78	2
	12	13	20.74	20.83	20.77	1	19.70	19.79	19.73	2
	25	0	20.76	20.85	20.79	1	19.72	19.81	19.75	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
7 / 5M	1	0	15.91	16.14	16.23	0	14.87	15.10	15.19	1
	1	12	16.11	16.40	16.32	0	15.07	15.36	15.28	1
	1	24	16.24	16.37	16.21	0	15.20	15.33	15.17	1
	12	0	15.01	15.28	15.40	1	13.97	14.24	14.36	2
	12	6	15.36	15.41	15.38	1	14.32	14.37	14.34	2
	12	13	15.25	15.48	15.43	1	14.21	14.44	14.39	2
	25	0	15.10	15.44	15.38	1	14.06	14.40	14.34	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20800	Mid CH 21100	High CH 21400		Low CH 20800	Mid CH 21100	High CH 21400	
			2505.0 MHz	2535.0 MHz	2565.0 MHz		2505.0 MHz	2535.0 MHz	2565.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
7 / 10M	1	0	21.95	22.04	21.98	0	20.93	21.02	20.96	1
	1	24	22.00	22.09	22.03	0	20.98	21.07	21.01	1
	1	49	22.06	22.15	22.09	0	21.04	21.13	21.07	1
	25	0	20.93	21.02	20.96	1	19.91	20.00	19.94	2
	25	12	20.96	21.05	20.99	1	19.94	20.03	19.97	2
	25	25	20.91	21.00	20.94	1	19.89	19.98	19.92	2
	50	0	20.93	21.02	20.96	1	19.91	20.00	19.94	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
7 / 10M	1	0	15.99	16.22	16.31	0	14.95	15.18	15.27	1
	1	24	16.19	16.48	16.40	0	15.15	15.44	15.36	1
	1	49	16.32	16.45	16.29	0	15.28	15.41	15.25	1
	25	0	15.09	15.36	15.48	1	14.05	14.32	14.44	2
	25	12	15.44	15.49	15.46	1	14.40	14.45	14.42	2
	25	25	15.33	15.56	15.51	1	14.29	14.52	14.47	2
	50	0	15.18	15.52	15.46	1	14.14	14.48	14.42	2





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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20825	Mid CH 21100	High CH 21375		Low CH 20825	Mid CH 21100	High CH 21375	
			2507.5 MHz	2535.0 MHz	2562.5 MHz		2507.5 MHz	2535.0 MHz	2562.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
7 / 15M	1	0	22.11	22.20	22.14	0	21.07	21.16	21.10	1
	1	37	22.16	22.25	22.19	0	21.12	21.21	21.15	1
	1	74	22.22	22.31	22.25	0	21.18	21.27	21.21	1
	36	0	21.09	21.18	21.12	1	20.05	20.14	20.08	2
	36	19	21.12	21.21	21.15	1	20.08	20.17	20.11	2
	36	39	21.07	21.16	21.10	1	20.03	20.12	20.06	2
	75	0	21.09	21.18	21.12	1	20.05	20.14	20.08	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
7 / 15M	1	0	16.08	16.31	16.40	0	15.04	15.27	15.36	1
	1	37	16.28	16.57	16.49	0	15.24	15.53	15.45	1
	1	74	16.41	16.54	16.38	0	15.37	15.50	15.34	1
	36	0	15.18	15.45	15.57	1	14.14	14.41	14.53	2
	36	19	15.53	15.58	15.55	1	14.49	14.54	14.51	2
	36	39	15.42	15.65	15.60	1	14.38	14.61	14.56	2
	75	0	15.27	15.61	15.55	1	14.23	14.57	14.51	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20850	Mid CH 21100	High CH 21350		Low CH 20850	Mid CH 21100	High CH 21350	
			2510.0 MHz	2535.0 MHz	2560.0 MHz		2510.0 MHz	2535.0 MHz	2560.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
7 / 20M	1	0	22.30	22.39	22.33	0	21.23	21.32	21.26	1
	1	50	22.35	22.44	22.38	0	21.28	21.37	21.31	1
	1	99	22.41	<b>22.50</b>	22.44	0	21.34	<b>21.43</b>	21.37	1
	50	0	21.28	21.37	21.31	1	20.21	20.30	20.24	2
	50	25	21.31	21.40	21.34	1	20.24	20.33	20.27	2
	50	50	21.26	21.35	21.29	1	20.19	20.28	20.22	2
	100	0	21.28	21.37	21.31	1	20.21	20.30	20.24	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
7 / 20M	1	0	16.14	16.37	16.46	0	15.10	15.33	15.42	1
	1	50	16.34	<b>16.63</b>	16.55	0	15.30	<b>15.59</b>	15.51	1
	1	99	16.47	16.60	16.44	0	15.43	15.56	15.40	1
	50	0	15.24	15.51	15.63	1	14.20	14.47	14.59	2
	50	25	15.59	15.64	15.61	1	14.55	14.60	14.57	2
	50	50	15.48	15.70	15.66	1	14.44	14.67	14.62	2
	100	0	15.33	15.67	15.61	1	14.29	14.63	14.57	2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23017	Mid CH 23095	High CH 23173		Low CH 23017	Mid CH 23095	High CH 23173	
			699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
12 / 1.4M	1	0	21.72	21.48	21.33	0	20.67	20.43	20.28	1
	1	2	21.63	21.47	21.55	0	20.58	20.42	20.50	1
	1	5	21.58	21.46	21.42	0	20.53	20.41	20.37	1
	3	0	20.70	20.56	20.60	0	19.65	19.51	19.55	1
	3	1	20.61	20.59	20.56	0	19.56	19.54	19.51	1
	3	3	20.65	20.61	20.54	0	19.60	19.56	19.49	1
	6	0	20.69	20.68	20.65	1	19.64	19.63	19.60	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
12 / 1.4M	1	0	19.82	19.72	19.73	0	19.64	19.54	19.55	1
	1	2	19.96	19.86	19.87	0	19.78	19.68	19.69	1
	1	5	19.87	19.77	19.78	0	19.69	19.59	19.60	1
	3	0	18.98	18.88	18.89	0	18.80	18.70	18.71	1
	3	1	18.96	18.86	18.87	0	18.78	18.68	18.69	1
	3	3	18.89	18.79	18.80	0	18.71	18.61	18.62	1
	6	0	18.95	18.85	18.86	1	18.77	18.67	18.68	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23025	Mid CH 23095	High CH 23165		Low CH 23025	Mid CH 23095	High CH 23165	
			700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
12 / 3M	1	0	21.84	21.60	21.45	0	20.79	20.55	20.40	1
	1	7	21.75	21.59	21.67	0	20.70	20.54	20.62	1
	1	14	21.70	21.58	21.54	0	20.65	20.53	20.49	1
	8	0	20.82	20.68	20.72	1	19.77	19.63	19.67	2
	8	3	20.73	20.71	20.68	1	19.68	19.66	19.63	2
	8	7	20.77	20.73	20.66	1	19.72	19.68	19.61	2
	15	0	20.81	20.80	20.77	1	19.76	19.75	19.72	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
12 / 3M	1	0	19.95	19.85	19.86	0	18.93	18.83	18.84	1
	1	7	20.09	19.99	20.00	0	19.07	18.97	18.98	1
	1	14	20.00	19.90	19.91	0	18.98	18.88	18.89	1
	8	0	19.11	19.01	19.02	1	18.09	17.99	18.00	2
	8	3	19.09	18.99	19.00	1	18.07	17.97	17.98	2
	8	7	19.02	18.92	18.93	1	18.00	17.90	17.91	2
	15	0	19.08	18.98	18.99	1	18.06	17.96	17.97	2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23035	Mid CH 23095	High CH 23155		Low CH 23035	Mid CH 23095	High CH 23155	
			701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
12 / 5M	1	0	21.94	21.70	21.55	0	20.89	20.65	20.50	1
	1	12	21.85	21.69	21.77	0	20.80	20.64	20.72	1
	1	24	21.80	21.68	21.64	0	20.75	20.63	20.59	1
	12	0	20.92	20.78	20.82	1	19.87	19.73	19.77	2
	12	6	20.83	20.81	20.78	1	19.78	19.76	19.73	2
	12	13	20.87	20.83	20.76	1	19.82	19.78	19.71	2
	25	0	20.91	20.90	20.87	1	19.86	19.85	19.82	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
12 / 5M	1	0	20.12	20.02	20.03	0	19.06	18.96	18.97	1
	1	12	20.26	20.16	20.17	0	19.20	19.10	19.11	1
	1	24	20.17	20.07	20.08	0	19.11	19.01	19.02	1
	12	0	19.28	19.18	19.19	1	18.22	18.12	18.13	2
	12	6	19.26	19.16	19.17	1	18.20	18.10	18.11	2
	12	13	19.19	19.09	19.10	1	18.13	18.03	18.04	2
	25	0	19.25	19.15	19.16	1	18.19	18.09	18.10	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23060	Mid CH 23095	High CH 23130		Low CH 23060	Mid CH 23095	High CH 23130	
			704.0 MHz	707.5 MHz	711.0 MHz		704.0 MHz	707.5 MHz	711.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
12 / 10M	1	0	<b>22.02</b>	21.78	21.63	0	<b>20.97</b>	20.73	20.58	1
	1	24	21.93	21.77	21.85	0	20.88	20.72	20.80	1
	1	49	21.88	21.76	21.72	0	20.83	20.71	20.67	1
	25	0	21.00	20.86	20.90	1	19.95	19.81	19.85	2
	25	12	20.91	20.89	20.86	1	19.86	19.84	19.81	2
	25	25	20.95	20.91	20.84	1	19.90	19.86	19.79	2
	50	0	20.99	20.98	20.95	1	19.94	19.93	19.90	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
12 / 10M	1	0	20.28	20.18	20.19	0	19.23	19.13	19.14	1
	1	24	<b>20.42</b>	20.32	20.33	0	<b>19.37</b>	19.27	19.28	1
	1	49	20.33	20.23	20.24	0	19.28	19.18	19.19	1
	25	0	19.44	19.34	19.35	1	18.39	18.29	18.30	2
	25	12	19.42	19.32	19.33	1	18.37	18.27	18.28	2
	25	25	19.35	19.25	19.26	1	18.30	18.20	18.21	2
	50	0	19.41	19.31	19.32	1	18.36	18.26	18.27	2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23205	Mid CH 23230	High CH 23255		Low CH 23205	Mid CH 23230	High CH 23255	
			779.5 MHz	782.0 MHz	784.5 MHz		779.5 MHz	782.0 MHz	784.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
13 / 5M	1	0	22.52	22.54	22.48	0	21.46	21.48	21.42	1
	1	12	22.45	22.47	22.41	0	21.39	21.41	21.35	1
	1	24	22.47	22.49	22.43	0	21.41	21.43	21.37	1
	12	0	21.49	21.51	21.45	1	20.43	20.45	20.39	2
	12	6	21.42	21.44	21.38	1	20.36	20.38	20.32	2
	12	13	21.46	21.48	21.42	1	20.40	20.42	20.36	2
	25	0	21.45	21.47	21.41	1	20.39	20.41	20.35	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
13 / 5M	1	0	22.28	22.30	22.27	0	21.23	21.25	21.22	1
	1	12	22.33	22.35	22.32	0	21.28	21.30	21.27	1
	1	24	22.14	22.16	22.13	0	21.09	21.11	21.08	1
	12	0	21.37	21.39	21.36	1	20.32	20.34	20.31	2
	12	6	21.33	21.35	21.32	1	20.28	20.30	20.27	2
	12	13	21.29	21.31	21.28	1	20.24	20.26	20.23	2
	25	0	21.40	21.42	21.39	1	20.35	20.37	20.34	2

Band / BW	RB Size	RB Offset	QPSK		3GPP MPR (dB)	16QAM		3GPP MPR (dB)
			Mid CH 23230			Mid CH 23230		
			782.0 MHz			782.0 MHz		
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>								
13 / 10M	1	0	<b>22.65</b>		0	<b>21.63</b>		1
	1	24	22.61		0	21.59		1
	1	49	22.58		0	21.56		1
	25	0	21.62		1	20.60		2
	25	12	21.59		1	20.57		2
	25	25	21.58		1	20.56		2
	50	0	21.66		1	20.64		2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>								
13 / 10M	1	0	22.33		0	21.27		1
	1	24	<b>22.38</b>		0	<b>21.32</b>		1
	1	49	22.19		0	21.13		1
	25	0	21.40		1	20.36		2
	25	12	21.38		1	20.32		2
	25	25	21.34		1	20.28		2
	50	0	21.39		1	20.39		2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23755	Mid CH 23790	High CH 23825		Low CH 23755	Mid CH 23790	High CH 23825	
			706.5 MHz	710.0 MHz	713.5 MHz		706.5 MHz	710.0 MHz	713.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
17 / 5M	1	0	22.36	22.34	22.47	0	21.33	21.31	21.44	1
	1	12	22.40	22.38	22.51	0	21.37	21.35	21.48	1
	1	24	22.46	22.44	22.57	0	21.43	21.41	21.54	1
	12	0	21.35	21.33	21.46	1	20.32	20.30	20.43	2
	12	6	21.36	21.34	21.47	1	20.33	20.31	20.44	2
	12	13	21.37	21.35	21.48	1	20.34	20.32	20.45	2
	25	0	21.47	21.45	21.58	1	20.44	20.42	20.55	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
17 / 5M	1	0	20.13	20.14	20.11	0	19.07	19.08	19.05	1
	1	12	19.80	19.81	19.78	0	18.74	18.75	18.72	1
	1	24	20.21	20.22	20.19	0	19.15	19.16	19.13	1
	12	0	19.13	19.14	19.11	1	18.07	18.08	18.05	2
	12	6	19.11	19.12	19.09	1	18.05	18.06	18.03	2
	12	13	19.09	19.10	19.07	1	18.03	18.04	18.01	2
	25	0	19.17	19.18	19.15	1	18.11	18.12	18.09	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 23780	Mid CH 23790	High CH 23800		Low CH 23780	Mid CH 23790	High CH 23800	
			709.0 MHz	710.0 MHz	711.0 MHz		709.0 MHz	710.0 MHz	711.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
17 / 10M	1	0	22.47	22.45	22.58	0	21.41	21.39	21.52	1
	1	24	22.51	22.49	22.62	0	21.45	21.43	21.56	1
	1	49	22.57	22.55	<b>22.68</b>	0	21.51	21.49	<b>21.62</b>	1
	25	0	21.46	21.44	21.57	1	20.40	20.38	20.51	2
	25	12	21.47	21.45	21.58	1	20.41	20.39	20.52	2
	25	25	21.48	21.46	21.59	1	20.42	20.40	20.53	2
	50	0	21.58	21.56	21.69	1	20.52	20.50	20.63	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
17 / 10M	1	0	20.27	20.28	20.25	0	19.24	19.25	19.22	1
	1	24	19.94	19.95	19.92	0	18.91	18.92	18.89	1
	1	49	20.35	20.34	<b>20.36</b>	0	19.32	<b>19.33</b>	19.30	1
	25	0	19.27	19.25	19.20	1	18.24	18.25	18.22	2
	25	12	19.25	19.26	19.23	1	18.22	18.23	18.20	2
	25	25	19.23	19.26	19.28	1	18.20	18.21	18.18	2
	50	0	19.31	19.27	19.32	1	18.28	18.29	18.26	2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26047	Mid CH 26365	High CH 26683		Low CH 26047	Mid CH 26365	High CH 26683	
			1850.7 MHz	1882.5 MHz	1914.3 MHz		1850.7 MHz	1882.5 MHz	1914.3 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
25 / 1.4M	1	0	21.72	21.54	21.70	0	20.66	20.48	20.64	1
	1	2	21.60	21.42	21.58	0	20.54	20.36	20.52	1
	1	5	21.77	21.59	21.75	0	20.71	20.53	20.69	1
	3	0	21.72	21.54	21.70	0	20.66	20.48	20.64	1
	3	1	21.83	21.65	21.81	0	20.77	20.59	20.75	1
	3	3	21.88	21.70	21.86	0	20.82	20.64	20.80	1
	6	0	20.69	20.51	20.67	1	19.63	19.45	19.61	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
25 / 1.4M	1	0	16.70	16.97	16.84	0	15.61	15.88	15.75	1
	1	2	16.83	17.02	16.72	0	15.74	15.93	15.63	1
	1	5	16.81	16.83	16.48	0	15.72	15.74	15.39	1
	3	0	15.73	16.00	15.85	0	14.64	14.91	14.76	1
	3	1	15.75	16.13	15.81	0	14.66	15.04	14.72	1
	3	3	15.73	16.02	15.59	0	14.64	14.93	14.50	1
	6	0	15.70	16.11	15.76	1	14.61	15.02	14.67	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26055	Mid CH 26365	High CH 26675		Low CH 26055	Mid CH 26365	High CH 26675	
			1851.5 MHz	1882.5 MHz	1913.5 MHz		1851.5 MHz	1882.5 MHz	1913.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
25 / 3M	1	0	21.84	21.66	21.82	0	20.79	20.61	20.77	1
	1	7	21.72	21.54	21.70	0	20.67	20.49	20.65	1
	1	14	21.89	21.71	21.87	0	20.84	20.66	20.82	1
	8	0	20.70	20.52	20.68	1	19.65	19.47	19.63	2
	8	3	20.81	20.63	20.79	1	19.76	19.58	19.74	2
	8	7	20.86	20.68	20.84	1	19.81	19.63	19.79	2
	15	0	20.81	20.63	20.79	1	19.76	19.58	19.74	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
25 / 3M	1	0	16.78	17.05	16.92	0	15.69	15.96	15.83	1
	1	7	16.91	17.10	16.80	0	15.82	16.01	15.71	1
	1	14	16.89	16.91	16.56	0	15.80	15.82	15.47	1
	8	0	15.81	16.08	15.93	1	14.72	14.99	14.84	2
	8	3	15.83	16.21	15.89	1	14.74	15.12	14.8	2
	8	7	15.81	16.10	15.67	1	14.72	15.01	14.58	2
	15	0	15.78	16.19	15.84	1	14.69	15.10	14.75	2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26065	Mid CH 26365	High CH 26665		Low CH 26065	Mid CH 26365	High CH 26665	
			1852.5 MHz	1882.5 MHz	1912.5 MHz		1852.5 MHz	1882.5 MHz	1912.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
25 / 5M	1	0	22.15	21.97	22.13	0	21.12	20.94	21.10	1
	1	12	22.03	21.85	22.01	0	21.00	20.82	20.98	1
	1	24	22.20	22.02	22.18	0	21.17	20.99	21.15	1
	12	0	21.01	20.83	20.99	1	19.98	19.80	19.96	2
	12	6	21.12	20.94	21.10	1	20.09	19.91	20.07	2
	12	13	21.17	20.99	21.15	1	20.14	19.96	20.12	2
	25	0	21.12	20.94	21.10	1	20.09	19.91	20.07	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
25 / 5M	1	0	16.91	17.18	17.05	0	15.82	16.09	15.96	1
	1	12	17.04	17.23	16.93	0	15.95	16.14	15.84	1
	1	24	17.02	17.04	16.69	0	15.93	15.95	15.60	1
	12	0	15.94	16.21	16.06	1	14.85	15.12	14.97	2
	12	6	15.96	16.34	16.02	1	14.87	15.25	14.93	2
	12	13	15.94	16.23	15.80	1	14.85	15.14	14.71	2
	25	0	15.91	16.32	15.97	1	14.82	15.23	14.88	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26090	Mid CH 26365	High CH 26640		Low CH 26090	Mid CH 26365	High CH 26640	
			1855.0 MHz	1882.5 MHz	1910.0 MHz		1855.0 MHz	1882.5 MHz	1910.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
25 / 10M	1	0	22.27	22.09	22.25	0	21.22	21.04	21.20	1
	1	24	22.15	21.97	22.13	0	21.10	20.92	21.08	1
	1	49	22.32	22.14	22.30	0	21.27	21.09	21.25	1
	25	0	21.13	20.95	21.11	1	20.08	19.90	20.06	2
	25	12	21.24	21.06	21.22	1	20.19	20.01	20.17	2
	25	25	21.29	21.11	21.27	1	20.24	20.06	20.22	2
	50	0	21.24	21.06	21.22	1	20.19	20.01	20.17	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
25 / 10M	1	0	16.97	17.24	17.11	0	15.88	16.15	16.02	1
	1	24	17.10	17.29	16.99	0	16.01	16.20	15.90	1
	1	49	17.08	17.10	16.75	0	15.99	16.01	15.66	1
	25	0	16.00	16.27	16.12	1	14.91	15.18	15.03	2
	25	12	16.02	16.40	16.08	1	14.93	15.31	14.99	2
	25	25	16.00	16.29	15.86	1	14.91	15.20	14.77	2
	50	0	15.97	16.38	16.03	1	14.88	15.29	14.94	2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26115	Mid CH 26365	High CH 26615		Low CH 26115	Mid CH 26365	High CH 26615	
			1857.5 MHz	1882.5 MHz	1907.5 MHz		1857.5 MHz	1882.5 MHz	1907.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
25 / 15M	1	0	22.39	22.21	22.37	0	21.31	21.13	21.29	1
	1	37	22.27	22.09	22.25	0	21.19	21.01	21.17	1
	1	74	22.44	22.26	22.42	0	21.36	21.18	21.34	1
	36	0	21.25	21.07	21.23	1	20.17	19.99	20.15	2
	36	19	21.36	21.18	21.34	1	20.28	20.10	20.26	2
	36	39	21.41	21.23	21.39	1	20.33	20.15	20.31	2
	75	0	21.36	21.18	21.34	1	20.28	20.10	20.26	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
25 / 15M	1	0	17.06	17.33	17.2	0	15.97	16.24	16.11	1
	1	37	17.19	17.38	17.08	0	16.10	16.29	15.99	1
	1	74	17.17	17.19	16.84	0	16.08	16.10	15.75	1
	36	0	16.09	16.36	16.21	1	15.00	15.27	15.12	2
	36	19	16.11	16.49	16.17	1	15.02	15.4	15.08	2
	36	39	16.09	16.38	15.95	1	15.00	15.29	14.86	2
	75	0	16.06	16.47	16.12	1	14.97	15.38	15.03	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26140	Mid CH 26365	High CH 26590		Low CH 26140	Mid CH 26365	High CH 26590	
			1860.0 MHz	1882.5 MHz	1905.0 MHz		1860.0 MHz	1882.5 MHz	1905.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
25 / 20M	1	0	22.54	22.36	22.52	0	21.51	21.33	21.49	1
	1	50	22.42	22.24	22.40	0	21.39	21.21	21.37	1
	1	99	<b>22.59</b>	22.41	22.57	0	<b>21.56</b>	21.38	21.54	1
	50	0	21.40	21.22	21.38	1	20.37	20.19	20.35	2
	50	25	21.51	21.33	21.49	1	20.48	20.30	20.46	2
	50	50	21.56	21.38	21.54	1	20.53	20.35	20.51	2
	100	0	21.51	21.33	21.49	1	20.48	20.30	20.46	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
25 / 20M	1	0	17.16	17.30	17.31	0	16.07	16.34	16.21	1
	1	50	17.29	17.32	17.18	0	16.20	<b>16.39</b>	16.09	1
	1	99	<b>17.48</b>	17.27	16.94	0	16.18	16.20	15.85	1
	50	0	16.46	16.19	16.31	1	15.10	15.37	15.22	2
	50	25	16.48	16.21	16.27	1	15.12	15.40	15.18	2
	50	50	16.50	16.19	16.05	1	15.10	15.39	14.96	2
	100	0	16.49	16.16	16.22	1	15.07	15.48	15.13	2





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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26697	Mid CH 26865	High CH 27033		Low CH 26697	Mid CH 26865	High CH 27033	
			814.7 MHz	831.0 MHz	848.3 MHz		814.7 MHz	831.0 MHz	848.3 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
26 / 1.4M	1	0	22.07	21.91	21.90	0	21.06	20.90	20.89	1
	1	2	21.99	21.94	21.87	0	20.98	20.93	20.86	1
	1	5	21.96	21.91	21.90	0	20.95	20.90	20.89	1
	3	0	21.08	21.01	20.99	0	20.07	20.00	19.98	1
	3	1	21.04	20.98	20.89	0	20.03	19.97	19.88	1
	3	3	20.99	20.97	20.86	0	19.98	19.96	19.85	1
	6	0	21.09	21.01	21.00	1	20.08	20.00	19.99	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
26 / 1.4M	1	0	22.09	22.18	22.12	0	21.05	21.14	21.08	1
	1	2	22.18	22.31	22.36	0	21.14	21.27	21.32	1
	1	5	22.14	22.19	22.22	0	21.10	21.15	21.18	1
	3	0	21.17	21.26	21.29	0	20.13	20.22	20.25	1
	3	1	21.21	21.18	21.40	0	20.17	20.14	20.36	1
	3	3	21.26	21.18	21.38	0	20.22	20.14	20.34	1
	6	0	21.32	21.27	21.41	1	20.28	20.23	20.37	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26705	Mid CH 26865	High CH 27025		Low CH 26705	Mid CH 26865	High CH 27025	
			815.5 MHz	831.0 MHz	847.5 MHz		815.5 MHz	831.0 MHz	847.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
26 / 3M	1	0	22.13	21.97	21.96	0	21.12	20.96	20.95	1
	1	7	22.05	22.00	21.93	0	21.04	20.99	20.92	1
	1	14	22.02	21.97	21.96	0	21.01	20.96	20.95	1
	8	0	21.14	21.07	21.05	1	20.13	20.06	20.04	2
	8	3	21.10	21.04	20.95	1	20.09	20.03	19.94	2
	8	7	21.05	21.03	20.92	1	20.04	20.02	19.91	2
	15	0	21.15	21.07	21.06	1	20.14	20.06	20.05	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
26 / 3M	1	0	22.11	22.20	22.14	0	21.05	21.14	21.08	1
	1	7	22.20	22.33	22.38	0	21.14	21.27	21.32	1
	1	14	22.16	22.21	22.24	0	21.10	21.15	21.18	1
	8	0	21.19	21.28	21.31	1	20.13	20.22	20.25	2
	8	3	21.23	21.20	21.42	1	20.17	20.14	20.36	2
	8	7	21.28	21.20	21.40	1	20.22	20.14	20.34	2
	15	0	21.34	21.29	21.43	1	20.28	20.23	20.37	2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26715	Mid CH 26865	High CH 27015		Low CH 26715	Mid CH 26865	High CH 27015	
			816.5 MHz	831.0 MHz	846.5 MHz		816.5 MHz	831.0 MHz	846.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
26 / 5M	1	0	22.20	22.04	22.03	0	21.19	21.03	21.02	1
	1	12	22.12	22.07	22.00	0	21.11	21.06	20.99	1
	1	24	22.09	22.04	22.03	0	21.08	21.03	21.02	1
	12	0	21.21	21.14	21.12	1	20.20	20.13	20.11	2
	12	6	21.17	21.11	21.02	1	20.16	20.10	20.01	2
	12	13	21.12	21.10	20.99	1	20.11	20.09	19.98	2
	25	0	21.22	21.14	21.13	1	20.21	20.13	20.12	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
26 / 5M	1	0	22.13	22.22	22.16	0	21.07	21.16	21.10	1
	1	12	22.22	22.35	22.40	0	21.16	21.29	21.34	1
	1	24	22.18	22.23	22.26	0	21.12	21.17	21.20	1
	12	0	21.21	21.30	21.33	1	20.15	20.24	20.27	2
	12	6	21.25	21.22	21.44	1	20.19	20.16	20.38	2
	12	13	21.30	21.22	21.42	1	20.24	20.16	20.36	2
	25	0	21.36	21.31	21.45	1	20.30	20.25	20.39	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26740	Mid CH 26865	High CH 26990		Low CH 26740	Mid CH 26865	High CH 26990	
			819.0 MHz	831.0 MHz	844.0 MHz		819.0 MHz	831.0 MHz	844.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
26 / 10M	1	0	22.28	22.12	22.11	0	21.27	21.11	21.10	1
	1	24	22.20	22.15	22.08	0	21.19	21.14	21.07	1
	1	49	22.17	22.12	22.11	0	21.16	21.11	21.10	1
	25	0	21.29	21.22	21.20	1	20.28	20.21	20.19	2
	25	12	21.25	21.19	21.10	1	20.24	20.18	20.09	2
	25	25	21.20	21.18	21.07	1	20.19	20.17	20.06	2
	50	0	21.30	21.22	21.21	1	20.29	20.21	20.2	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
26 / 10M	1	0	22.15	22.24	22.18	0	21.09	21.18	21.12	1
	1	24	22.24	22.37	22.42	0	21.18	21.31	21.36	1
	1	49	22.20	22.25	22.28	0	21.14	21.19	21.22	1
	25	0	21.23	21.32	21.35	1	20.17	20.26	20.29	2
	25	12	21.27	21.24	21.46	1	20.21	20.18	20.40	2
	25	25	21.32	21.24	21.44	1	20.26	20.18	20.38	2
	50	0	21.38	21.33	21.47	1	20.32	20.27	20.41	2



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26765	Mid CH 26865	High CH 26965		Low CH 26765	Mid CH 26865	High CH 26965	
			821.5 MHz	831.0 MHz	841.5 MHz		821.5 MHz	831.0 MHz	841.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
26 / 15M	1	0	<b>22.58</b>	22.42	22.41	0	<b>22.46</b>	22.30	22.29	1
	1	37	22.50	22.45	22.38	0	22.38	22.33	22.26	1
	1	74	22.47	22.42	22.41	0	22.35	22.30	22.29	1
	36	0	21.59	21.52	21.50	1	21.47	21.40	21.38	2
	36	19	21.55	21.49	21.40	1	21.43	21.37	21.28	2
	36	39	21.50	21.48	21.37	1	21.38	21.36	21.25	2
	75	0	21.60	21.52	21.51	1	21.48	21.40	21.39	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
26 / 15M	1	0	<b>22.44</b>	22.26	22.17	0	21.11	21.20	21.14	1
	1	37	22.26	22.39	22.40	0	21.20	21.33	<b>21.38</b>	1
	1	74	22.22	22.27	22.30	0	21.16	21.21	21.24	1
	36	0	21.25	21.34	21.48	1	20.19	20.28	20.31	2
	36	19	21.29	21.26	21.37	1	20.23	20.20	20.42	2
	36	39	21.34	21.26	21.46	1	20.28	20.20	20.40	2
	75	0	21.40	21.35	21.49	1	20.34	20.29	20.43	2

Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39675	M-CH 40148	M-CH 40620	M-CH 41093	H-CH 41565		L-CH 39675	M-CH 40148	M-CH 40620	M-CH 41093	H-CH 41565	
			2498.5 MHz	2545.8 MHz	2593.0 MHz	2640.3 MHz	2687.5 MHz		2498.5 MHz	2545.8 MHz	2593.0 MHz	2640.3 MHz	2687.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>														
41 / 5M	1	0	22.20	22.17	21.90	21.87	21.96	0	21.17	21.14	20.87	20.84	20.93	1
	1	12	22.19	22.15	21.99	21.95	22.06	0	21.16	21.12	20.96	20.92	21.03	1
	1	24	22.10	22.03	21.86	21.83	22.01	0	21.07	21.00	20.83	20.80	20.98	1
	12	0	21.12	20.96	20.91	20.87	20.93	1	20.09	19.93	19.88	19.84	19.90	2
	12	6	21.17	21.08	20.98	20.95	21.02	1	20.14	20.05	19.95	19.92	19.99	2
	12	13	21.18	21.04	20.97	20.93	21.00	1	20.15	20.01	19.94	19.90	19.97	2
	25	0	21.25	21.00	20.97	20.95	20.99	1	20.22	19.97	19.94	19.92	19.96	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>														
41 / 5M	1	0	20.08	20.22	20.50	20.50	20.35	0	18.99	19.13	19.41	19.41	19.26	1
	1	12	20.37	20.45	20.70	20.60	20.51	0	19.28	19.36	19.61	19.51	19.42	1
	1	24	20.34	20.29	20.63	20.46	20.26	0	19.25	19.20	19.54	19.37	19.17	1
	12	0	19.21	19.41	19.62	19.50	19.52	1	18.12	18.32	18.53	18.41	18.43	2
	12	6	19.29	19.45	19.63	19.57	19.55	1	18.20	18.36	18.54	18.48	18.46	2
	12	13	19.29	19.54	19.65	19.52	19.50	1	18.20	18.45	18.56	18.43	18.41	2
	25	0	19.19	19.35	19.56	19.50	19.54	1	18.10	18.26	18.47	18.41	18.45	2



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Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39700	M-CH 40160	M-CH 40620	M-CH 41080	H-CH 41540		L-CH 39700	M-CH 40160	M-CH 40620	M-CH 41080	H-CH 41540	
			2501.0 MHz	2547.0 MHz	2593.0 MHz	2639.0 MHz	2685.0 MHz		2501.0 MHz	2547.0 MHz	2593.0 MHz	2639.0 MHz	2685.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>														
41 / 10M	1	0	22.33	22.30	22.03	22.00	22.09	0	21.30	21.27	21.00	20.97	21.06	1
	1	24	22.32	22.28	22.12	22.08	22.19	0	21.29	21.25	21.09	21.05	21.16	1
	1	49	22.23	22.16	21.99	21.96	22.14	0	21.2	21.13	20.96	20.93	21.11	1
	25	0	21.25	21.09	21.04	21.00	21.06	1	20.22	20.06	20.01	19.97	20.03	2
	25	12	21.30	21.21	21.11	21.08	21.15	1	20.27	20.18	20.08	20.05	20.12	2
	25	25	21.31	21.17	21.10	21.06	21.13	1	20.28	20.14	20.07	20.03	20.10	2
	50	0	21.38	21.13	21.10	21.08	21.12	1	20.35	20.10	20.07	20.05	20.09	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>														
41 / 10M	1	0	20.18	20.32	20.60	20.60	20.45	0	19.09	19.23	19.51	19.51	19.36	1
	1	24	20.47	20.55	20.80	20.70	20.61	0	19.38	19.46	19.71	19.61	19.52	1
	1	49	20.44	20.39	20.73	20.56	20.36	0	19.35	19.30	19.64	19.47	19.27	1
	25	0	19.31	19.51	19.72	19.60	19.62	1	18.22	18.42	18.63	18.51	18.53	2
	25	12	19.39	19.55	19.73	19.67	19.65	1	18.30	18.46	18.64	18.58	18.56	2
	25	25	19.39	19.64	19.75	19.62	19.60	1	18.30	18.55	18.66	18.53	18.51	2
	50	0	19.29	19.45	19.66	19.60	19.64	1	18.20	18.36	18.57	18.51	18.55	2
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>														
Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39725	M-CH 40173	M-CH 40620	M-CH 41068	H-CH 41515		L-CH 39725	M-CH 40173	M-CH 40620	M-CH 41068	H-CH 41515	
			2503.5 MHz	2548.3 MHz	2593.0 MHz	2637.8 MHz	2682.5 MHz		2503.5 MHz	2548.3 MHz	2593.0 MHz	2637.8 MHz	2682.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>														
41 / 15M	1	0	22.44	22.41	22.14	22.11	22.20	0	21.41	21.38	21.11	21.08	21.17	1
	1	37	22.43	22.39	22.23	22.19	22.30	0	21.40	21.36	21.20	21.16	21.27	1
	1	74	22.34	22.27	22.10	22.07	22.25	0	21.31	21.24	21.07	21.04	21.22	1
	36	0	21.36	21.20	21.15	21.11	21.17	1	20.33	20.17	20.12	20.08	20.14	2
	36	19	21.41	21.32	21.22	21.19	21.26	1	20.38	20.29	20.19	20.16	20.23	2
	36	39	21.42	21.28	21.21	21.17	21.24	1	20.39	20.25	20.18	20.14	20.21	2
	75	0	21.49	21.24	21.21	21.19	21.23	1	20.46	20.21	20.18	20.16	20.20	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>														
41 / 15M	1	0	20.27	20.41	20.69	20.69	20.54	0	19.18	19.32	19.60	19.60	19.45	1
	1	37	20.56	20.64	20.89	20.79	20.70	0	19.47	19.55	19.80	19.70	19.61	1
	1	74	20.53	20.48	20.82	20.65	20.45	0	19.44	19.39	19.73	19.56	19.36	1
	36	0	19.40	19.60	19.81	19.69	19.71	1	18.31	18.51	18.72	18.60	18.62	2
	36	19	19.48	19.64	19.82	19.76	19.74	1	18.39	18.55	18.73	18.67	18.65	2
	36	39	19.48	19.73	19.84	19.71	19.69	1	18.39	18.64	18.75	18.62	18.60	2
	75	0	19.38	19.54	19.75	19.69	19.73	1	18.29	18.45	18.66	18.60	18.64	2



# FCC SAR Test Report

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Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39750	M-CH 40185	M-CH 40620	M-CH 41055	H-CH 41490		L-CH 39750	M-CH 40185	M-CH 40620	M-CH 41055	H-CH 41490	
			2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz		2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>														
41 / 20M	1	0	<b>22.56</b>	22.53	22.26	22.23	22.32	0	<b>21.53</b>	21.50	21.23	21.20	21.29	1
	1	50	22.55	22.51	22.35	22.31	22.42	0	21.52	21.48	21.32	21.28	21.39	1
	1	99	22.46	22.39	22.22	22.19	22.37	0	21.43	21.36	21.19	21.16	21.34	1
	50	0	21.48	21.32	21.27	21.23	21.29	1	20.45	20.29	20.24	20.20	20.26	2
	50	25	21.53	21.44	21.34	21.31	21.38	1	20.50	20.41	20.31	20.28	20.35	2
	50	50	21.54	21.40	21.33	21.29	21.36	1	20.51	20.37	20.30	20.26	20.33	2
	100	0	21.61	21.36	21.33	21.31	21.35	1	20.58	20.33	20.30	20.28	20.32	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>														
41 / 20M	1	0	<b>20.97</b>	20.49	20.64	20.77	20.62	0	19.26	19.40	19.68	19.68	19.53	1
	1	50	20.35	20.72	20.90	20.87	20.78	0	19.55	19.63	<b>19.88</b>	19.78	19.69	1
	1	99	20.61	20.56	20.77	20.73	20.53	0	19.52	19.47	19.81	19.64	19.44	1
	50	0	19.48	19.68	19.89	19.77	19.79	1	18.39	18.59	18.80	18.68	18.70	2
	50	25	19.56	19.72	19.90	19.84	19.82	1	18.47	18.63	18.81	18.75	18.73	2
	50	50	19.92	19.81	19.62	19.79	19.77	1	18.47	18.72	18.83	18.70	18.68	2
	100	0	19.46	19.62	19.83	19.77	19.81	1	18.37	18.53	18.74	18.68	18.72	2



# FCC SAR Test Report

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## <WLAN 2.4G>

EUT without Power Reduction (P-Sensor NOT Triggered)			
Mode	802.11b		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power (Ant-0)	17.35	18.39	18.17
Average Power (Ant-1)	17.95	18.39	17.94
Mode	802.11g		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power (Ant-0)	13.92	14.15	13.81
Average Power (Ant-1)	13.96	14.05	14.01
Mode	802.11n (HT20)		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power (Ant-0)	13.56	14.38	14.22
Average Power (Ant-1)	13.94	14.46	13.89
Average Power (Ant-0 + Ant-1)	13.57	14.27	13.99
Mode	802.11n (HT40)		
Channel / Frequency (MHz)	3 (2422)	6 (2437)	9 (2452)
Average Power (Ant-0)	12.85	13.22	12.07
Average Power (Ant-1)	13.19	13.31	12.27
Average Power (Ant-0 + Ant-1)	14.41	14.49	13.57
EUT with Power Reduction (P-Sensor Triggered)			
Mode	802.11b		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power (Ant-0)	13.79	14.38	14.14
Average Power (Ant-1)	11.73	12.46	11.79
Mode	802.11g		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power (Ant-0)	12.67	13.66	13.33
Average Power (Ant-1)	11.60	12.25	11.73
Mode	802.11n (HT20)		
Channel / Frequency (MHz)	1 (2412)	6 (2437)	11 (2462)
Average Power (Ant-0)	13.02	13.72	13.43
Average Power (Ant-1)	10.53	11.23	10.63
Average Power (Ant-0 + Ant-1)	12.71	13.50	13.32
Mode	802.11n (HT40)		
Channel / Frequency (MHz)	3 (2422)	6 (2437)	9 (2452)
Average Power (Ant-0)	12.85	13.22	12.07
Average Power (Ant-1)	11.26	11.46	11.22
Average Power (Ant-0 + Ant-1)	13.58	13.91	13.70



# FCC SAR Test Report

## <WLAN 5.2G>

<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>				
Mode	802.11a			
Channel / Frequency (MHz)	36 (5180)	40 (5200)	44 (5220)	48 (5240)
Average Power (Ant-0)	15.76	<b>15.87</b>	15.69	15.61
Average Power (Ant-1)	15.85	15.95	16.02	<b>16.11</b>
Mode	802.11n (HT20)			
Channel / Frequency (MHz)	36 (5180)	40 (5200)	44 (5220)	48 (5240)
Average Power (Ant-0)	15.81	15.74	16.48	<b>16.53</b>
Average Power (Ant-1)	15.82	15.93	<b>16.04</b>	16.02
Average Power (Ant-0 + Ant-1)	16.58	<b>16.58</b>	16.56	16.57
Mode	802.11n (HT40)			
Channel / Frequency (MHz)	38 (5190)		46 (5230)	
Average Power (Ant-0)	<b>13.31</b>		13.12	
Average Power (Ant-1)	12.60		<b>12.77</b>	
Average Power (Ant-0 + Ant-1)	12.93		<b>13.12</b>	
Mode	802.11ac (VHT80)			
Channel / Frequency (MHz)	42 (5210)			
Average Power (Ant-0)	<b>12.09</b>			
Average Power (Ant-1)	<b>12.43</b>			
Average Power (Ant-0 + Ant-1)	<b>12.59</b>			
<b>EUT with Power Reduction (P-Sensor Triggered)</b>				
Mode	802.11a			
Channel / Frequency (MHz)	36 (5180)	40 (5200)	44 (5220)	48 (5240)
Average Power (Ant-0)	12.84	13.03	12.98	<b>13.05</b>
Average Power (Ant-1)	10.75	11.01	11.02	<b>11.27</b>
Mode	802.11n (HT20)			
Channel / Frequency (MHz)	36 (5180)	40 (5200)	44 (5220)	48 (5240)
Average Power (Ant-0)	<b>11.88</b>	11.85	11.79	11.87
Average Power (Ant-1)	9.58	10.03	10.05	<b>10.14</b>
Average Power (Ant-0 + Ant-1)	15.52	<b>15.82</b>	15.74	15.76
Mode	802.11n (HT40)			
Channel / Frequency (MHz)	38 (5190)		46 (5230)	
Average Power (Ant-0)	<b>12.56</b>		12.42	
Average Power (Ant-1)	10.17		<b>10.45</b>	
Average Power (Ant-0 + Ant-1)	12.93		<b>13.12</b>	
Mode	802.11ac (VHT80)			
Channel / Frequency (MHz)	42 (5210)			
Average Power (Ant-0)	<b>10.08</b>			
Average Power (Ant-1)	<b>8.47</b>			
Average Power (Ant-0 + Ant-1)	<b>12.77</b>			



# FCC SAR Test Report

## <WLAN 5.3G>

EUT without Power Reduction (P-Sensor NOT Triggered)				
Mode	802.11a			
Channel / Frequency (MHz)	52 (5260)	56 (5280)	60 (5300)	64 (5320)
Average Power (Ant-0)	16.74	16.58	16.55	15.91
Average Power (Ant-1)	15.74	15.79	16.12	15.89
Mode	802.11n (HT20)			
Channel / Frequency (MHz)	52 (5260)	56 (5280)	60 (5300)	64 (5320)
Average Power (Ant-0)	16.71	16.34	16.33	15.98
Average Power (Ant-1)	16.51	15.85	15.72	15.98
Average Power (Ant-0 + Ant-1)	16.62	16.56	16.63	16.59
Mode	802.11n (HT40)			
Channel / Frequency (MHz)	54 (5270)		62 (5310)	
Average Power (Ant-0)	13.35		11.52	
Average Power (Ant-1)	12.64		12.84	
Average Power (Ant-0 + Ant-1)	13.67		13.80	
Mode	802.11ac (VHT80)			
Channel / Frequency (MHz)	58 (5290)			
Average Power (Ant-0)	11.53			
Average Power (Ant-1)	12.24			
Average Power (Ant-0 + Ant-1)	12.60			
EUT with Power Reduction (P-Sensor Triggered)				
Mode	802.11a			
Channel / Frequency (MHz)	52 (5260)	56 (5280)	60 (5300)	64 (5320)
Average Power (Ant-0)	12.98	12.72	12.94	12.74
Average Power (Ant-1)	12.49	12.18	12.34	12.40
Mode	802.11n (HT20)			
Channel / Frequency (MHz)	52 (5260)	56 (5280)	60 (5300)	64 (5320)
Average Power (Ant-0)	11.99	12.13	11.93	12.00
Average Power (Ant-1)	11.27	11.59	11.45	11.40
Average Power (Ant-0 + Ant-1)	13.50	13.44	13.75	13.64
Mode	802.11n (HT40)			
Channel / Frequency (MHz)	54 (5270)		62 (5310)	
Average Power (Ant-0)	12.63		12.51	
Average Power (Ant-1)	11.75		12.22	
Average Power (Ant-0 + Ant-1)	13.67		13.80	
Mode	802.11ac (VHT80)			
Channel / Frequency (MHz)	58 (5290)			
Average Power (Ant-0)	10.84			
Average Power (Ant-1)	10.58			
Average Power (Ant-0 + Ant-1)	12.94			





# FCC SAR Test Report

## <WLAN 5.6G>

EUT without Power Reduction (P-Sensor NOT Triggered)								
Mode	802.11a							
Channel / Frequency (MHz)	100 (5500)	104 (5520)	108 (5540)	112 (5560)	116 (5580)	132 (5660)	136 (5680)	140 (5700)
Average Power (Ant-0)	15.98	15.85	15.89	15.93	15.86	15.77	15.79	15.08
Average Power (Ant-1)	16.16	16.01	15.96	15.87	15.97	15.79	15.71	15.61
Mode	802.11n (HT20)							
Channel / Frequency (MHz)	100 (5500)	104 (5520)	108 (5540)	112 (5560)	116 (5580)	132 (5660)	136 (5680)	140 (5700)
Average Power (Ant-0)	14.99	15.81	15.82	15.78	15.87	15.76	15.72	15.78
Average Power (Ant-1)	16.05	15.97	16.02	15.73	15.97	15.84	16.08	16.44
Average Power (Ant-0 + Ant-1)	16.19	16.05	16.08	16.12	16.14	15.94	15.85	16.02
Mode	802.11n (HT40)							
Channel / Frequency (MHz)	102 (5510)				134 (5670)			
Average Power (Ant-0)	12.78				13.58			
Average Power (Ant-1)	13.34				12.95			
Average Power (Ant-0 + Ant-1)	12.92				12.95			
Mode	802.11ac (VHT80)							
Channel / Frequency (MHz)	106 (5530)							
Average Power (Ant-0)	12.95							
Average Power (Ant-1)	12.65							
Average Power (Ant-0 + Ant-1)	12.64							
EUT with Power Reduction (P-Sensor Triggered)								
Mode	802.11a							
Channel / Frequency (MHz)	100 (5500)	104 (5520)	108 (5540)	112 (5560)	116 (5580)	132 (5660)	136 (5680)	140 (5700)
Average Power (Ant-0)	12.06	11.91	11.94	12.04	12.03	12.01	12.02	12.02
Average Power (Ant-1)	11.97	11.81	11.79	11.83	11.87	11.58	11.57	11.60
Mode	802.11n (HT20)							
Channel / Frequency (MHz)	100 (5500)	104 (5520)	108 (5540)	112 (5560)	116 (5580)	132 (5660)	136 (5680)	140 (5700)
Average Power (Ant-0)	14.61	14.53	14.53	14.51	14.54	14.67	14.56	14.60
Average Power (Ant-1)	15.20	15.21	14.95	15.27	15.07	15.03	14.95	14.95
Average Power (Ant-0 + Ant-1)	16.38	16.22	16.30	16.27	16.23	16.29	16.07	16.11
Mode	802.11n (HT40)							
Channel / Frequency (MHz)	102 (5510)				134 (5670)			
Average Power (Ant-0)	12.78				13.58			
Average Power (Ant-1)	13.34				12.95			
Average Power (Ant-0 + Ant-1)	12.92				12.95			
Mode	802.11ac (VHT80)							
Channel / Frequency (MHz)	106 (5530)							
Average Power (Ant-0)	12.95							
Average Power (Ant-1)	12.65							
Average Power (Ant-0 + Ant-1)	12.63							



# FCC SAR Test Report

## <WLAN 5.8G>

<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>					
Mode	802.11a				
Channel / Frequency (MHz)	149 (5745)	153 (5765)	157 (5785)	161 (5805)	165 (5825)
Average Power (Ant-0)	16.73	16.77	16.89	16.78	16.85
Average Power (Ant-1)	15.85	15.88	15.89	15.73	15.86
Mode	802.11n (HT20)				
Channel / Frequency (MHz)	149 (5745)	153 (5765)	157 (5785)	161 (5805)	165 (5825)
Average Power (Ant-0)	16.51	16.59	16.71	16.68	16.66
Average Power (Ant-1)	15.82	15.75	15.92	15.73	15.71
Average Power (Ant-0 + Ant-1)	16.33	16.36	16.52	16.45	16.40
Mode	802.11n (HT40)				
Channel / Frequency (MHz)	151 (5755)		159 (5795)		
Average Power (Ant-0)	12.99		13.19		
Average Power (Ant-1)	12.79		12.73		
Average Power (Ant-0 + Ant-1)	13.02		12.93		
Mode	802.11ac (VHT80)				
Channel / Frequency (MHz)	155 (5775)				
Average Power (Ant-0)	13.46				
Average Power (Ant-1)	12.99				
Average Power (Ant-0 + Ant-1)	13.56				
<b>EUT with Power Reduction (P-Sensor Triggered)</b>					
Mode	802.11a				
Channel / Frequency (MHz)	149 (5745)	153 (5765)	157 (5785)	161 (5805)	165 (5825)
Average Power (Ant-0)	12.02	12.11	12.36	12.27	12.29
Average Power (Ant-1)	14.01	14.03	14.12	14.02	13.95
Mode	802.11n (HT20)				
Channel / Frequency (MHz)	149 (5745)	153 (5765)	157 (5785)	161 (5805)	165 (5825)
Average Power (Ant-0)	10.98	10.92	11.10	11.24	11.09
Average Power (Ant-1)	13.44	13.14	13.36	13.16	13.12
Average Power (Ant-0 + Ant-1)	16.09	16.21	16.27	16.17	16.04
Mode	802.11n (HT40)				
Channel / Frequency (MHz)	151 (5755)		159 (5795)		
Average Power (Ant-0)	11.38		11.48		
Average Power (Ant-1)	12.79		12.73		
Average Power (Ant-0 + Ant-1)	13.28		13.14		
Mode	802.11ac (VHT80)				
Channel / Frequency (MHz)	155 (5775)				
Average Power (Ant-0)	9.75				
Average Power (Ant-1)	12.01				
Average Power (Ant-0 + Ant-1)	12.73				



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## 4.7 SAR Testing Results

### 4.7.1 SAR Results for Body

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	EUT Config.	Power Reduction	Tx Antenna	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	GSM850	GPRS10	Rear Face	0	189	1	w/	0	27.5	27.35	1.04	0.05	0.63	0.65
	GSM850	GPRS10	Rear Face	10	189	1	w/o	0	32.5	32.25	1.06	0.08	0.403	0.43
	GSM850	GPRS10	Left Side	0	189	1	w/o	0	32.5	32.25	1.06	0.08	0.058	0.06
	GSM850	GPRS10	Top Side	0	189	1	w/	0	27.5	27.35	1.04	0.02	0.371	0.38
	GSM850	GPRS10	Top Side	9	189	1	w/o	0	32.5	32.25	1.06	0.05	0.28	0.30
	GSM850	GPRS10	Rear Face	0	189	1	w/	1	27.5	27.35	1.04	-0.08	0.471	0.49
01	GSM850	GPRS10	Rear Face	10	189	1	w/o	1	32.5	32.25	1.06	-0.02	0.736	0.78
	GSM850	GPRS10	Right Side	0	189	1	w/o	1	32.5	32.25	1.06	-0.09	0.177	0.19
	GSM850	GPRS10	Bottom Side	0	189	1	w/	1	27.5	27.35	1.04	0.01	0.428	0.44
	GSM850	GPRS10	Bottom Side	9	189	1	w/o	1	32.5	32.25	1.06	-0.01	0.574	0.61
	GSM850	GPRS10	Rear Face	10	189	2	w/o	1	32.5	32.25	1.06	0.09	0.021	0.02
	GSM1900	GPRS12	Rear Face	0	661	1	w/	0	17.5	17.29	1.05	-0.05	0.228	0.24
	GSM1900	GPRS12	Rear Face	10	661	1	w/o	0	27.0	26.96	1.01	-0.07	1.13	1.14
	GSM1900	GPRS12	Left Side	0	661	1	w/o	0	27.0	26.96	1.01	-0.07	0.227	0.23
	GSM1900	GPRS12	Top Side	0	661	1	w/	0	17.5	17.29	1.05	0.02	0.337	0.35
	GSM1900	GPRS12	Top Side	9	661	1	w/o	0	27.0	26.96	1.01	-0.10	0.839	0.85
	GSM1900	GPRS12	Rear Face	0	661	1	w/	1	17.5	17.29	1.05	0.05	0.307	0.32
	GSM1900	GPRS12	Rear Face	10	661	1	w/o	1	27.0	26.96	1.01	-0.17	0.272	0.27
	GSM1900	GPRS12	Right Side	0	661	1	w/o	1	27.0	26.96	1.01	-0.02	0.074	0.07
	GSM1900	GPRS12	Bottom Side	0	661	1	w/	1	17.5	17.29	1.05	0.01	0.224	0.24
	GSM1900	GPRS12	Bottom Side	9	661	1	w/o	1	27.0	26.96	1.01	-0.06	0.267	0.27
02	GSM1900	GPRS12	Rear Face	10	512	1	w/o	0	27.0	26.94	1.01	0.09	1.2	1.22
	GSM1900	GPRS12	Rear Face	10	810	1	w/o	0	27.0	26.92	1.02	-0.13	0.987	1.01
	GSM1900	GPRS12	Top Side	9	512	1	w/o	0	27.0	26.94	1.01	0.06	0.787	0.80
	GSM1900	GPRS12	Top Side	9	810	1	w/o	0	27.0	26.92	1.02	-0.11	0.699	0.71
	GSM1900	GPRS12	Rear Face	10	512	2	w/o	0	27.0	26.94	1.01	-0.09	0.451	0.46
	GSM1900	GPRS12	Rear Face	10	512	1	w/o	0	27.0	26.94	1.01	-0.06	1.18	1.20
	WCDMA II	RMC12.2K	Rear Face	0	9538	1	w/	0	16.5	16.27	1.05	-0.08	0.633	0.67
	WCDMA II	RMC12.2K	Rear Face	10	9538	1	w/o	0	23.5	23.12	1.09	0.10	0.776	0.85
	WCDMA II	RMC12.2K	Left Side	0	9538	1	w/o	0	23.5	23.12	1.09	0.14	0.153	0.17
	WCDMA II	RMC12.2K	Top Side	0	9538	1	w/	0	16.5	16.27	1.05	0.01	0.735	0.77
	WCDMA II	RMC12.2K	Top Side	9	9538	1	w/o	0	23.5	23.12	1.09	-0.12	0.647	0.71
	WCDMA II	RMC12.2K	Rear Face	0	9538	1	w/	1	16.5	16.27	1.05	0.02	0.624	0.66
	WCDMA II	RMC12.2K	Rear Face	10	9538	1	w/o	1	23.5	23.12	1.09	-0.09	0.417	0.46
	WCDMA II	RMC12.2K	Right Side	0	9538	1	w/o	1	23.5	23.12	1.09	-0.08	0.183	0.20
	WCDMA II	RMC12.2K	Bottom Side	0	9538	1	w/	1	16.5	16.27	1.05	0.07	0.556	0.59
	WCDMA II	RMC12.2K	Bottom Side	9	9538	1	w/o	1	23.5	23.12	1.09	0.11	0.369	0.40
03	WCDMA II	RMC12.2K	Rear Face	10	9262	1	w/o	0	23.5	22.88	1.15	0.03	0.934	1.08
	WCDMA II	RMC12.2K	Rear Face	10	9400	1	w/o	0	23.5	22.91	1.15	0.14	0.846	0.97
	WCDMA II	RMC12.2K	Rear Face	10	9262	2	w/o	0	23.5	22.88	1.15	0.17	0.595	0.69
	WCDMA II	RMC12.2K	Rear Face	10	9262	1	w/o	0	23.5	22.88	1.15	0.12	0.916	1.06

#### Note:

- SAR is performed on the highest power channel. When the reported SAR value of highest power channel is  $\leq$  0.8 W/kg, SAR testing for optional channel is not required.



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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	EUT Config.	Power Reduction	Tx Antenna	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WCDMA IV	RMC12.2K	Rear Face	0	1312	1	w/	0	14.0	13.73	1.06	0.12	0.482	0.51
	WCDMA IV	RMC12.2K	Rear Face	10	1312	1	w/o	0	23.5	23.18	1.08	0.06	1.04	1.12
	WCDMA IV	RMC12.2K	Left Side	0	1312	1	w/o	0	23.5	23.18	1.08	-0.06	0.209	0.23
	WCDMA IV	RMC12.2K	Top Side	0	1312	1	w/	0	14.0	13.73	1.06	0.07	0.494	0.53
	WCDMA IV	RMC12.2K	Top Side	9	1312	1	w/o	0	23.5	23.18	1.08	-0.01	0.869	0.94
	WCDMA IV	RMC12.2K	Rear Face	0	1312	1	w/	1	14.0	13.73	1.06	-0.04	0.21	0.22
	WCDMA IV	RMC12.2K	Rear Face	10	1312	1	w/o	1	23.5	23.18	1.08	-0.07	0.394	0.42
	WCDMA IV	RMC12.2K	Right Side	0	1312	1	w/o	1	23.5	23.18	1.08	0.11	0.188	0.20
	WCDMA IV	RMC12.2K	Bottom Side	0	1312	1	w/	1	14.0	13.73	1.06	0.02	0.34	0.36
	WCDMA IV	RMC12.2K	Bottom Side	9	1312	1	w/o	1	23.5	23.18	1.08	0.03	0.374	0.40
	WCDMA IV	RMC12.2K	Rear Face	10	1413	1	w/o	0	23.5	23.12	1.09	0.05	1.01	1.10
04	WCDMA IV	RMC12.2K	Rear Face	10	1513	1	w/o	0	23.5	23.09	1.10	0.10	1.07	1.18
	WCDMA IV	RMC12.2K	Top Side	9	1413	1	w/o	0	23.5	23.12	1.09	-0.04	0.718	0.78
	WCDMA IV	RMC12.2K	Top Side	9	1513	1	w/o	0	23.5	23.09	1.10	0.06	0.799	0.88
	WCDMA IV	RMC12.2K	Rear Face	10	1513	2	w/o	0	23.5	23.09	1.10	-0.07	1.01	1.11
	WCDMA IV	RMC12.2K	Rear Face	10	1312	2	w/o	0	23.5	23.18	1.08	0.03	1	1.08
	WCDMA IV	RMC12.2K	Rear Face	10	1413	2	w/o	0	23.5	23.12	1.09	0.05	0.972	1.06
	WCDMA IV	RMC12.2K	Rear Face	10	1513	1	w/o	0	23.5	23.09	1.10	-0.08	1.04	1.14
	WCDMA V	RMC12.2K	Rear Face	0	4132	1	w/	0	19.0	18.72	1.07	0.09	0.334	0.36
	WCDMA V	RMC12.2K	Rear Face	10	4132	1	w/o	0	23.5	23.04	1.11	0.02	0.236	0.26
	WCDMA V	RMC12.2K	Left Side	0	4132	1	w/o	0	23.5	23.04	1.11	0.11	0.052	0.06
	WCDMA V	RMC12.2K	Top Side	0	4132	1	w/	0	19.0	18.72	1.07	0.13	0.26	0.28
	WCDMA V	RMC12.2K	Top Side	9	4132	1	w/o	0	23.5	23.04	1.11	0.02	0.163	0.18
	WCDMA V	RMC12.2K	Rear Face	0	4132	1	w/	1	19.0	18.72	1.07	0.00	0.397	0.42
05	WCDMA V	RMC12.2K	Rear Face	10	4132	1	w/o	1	23.5	23.04	1.11	-0.05	0.527	0.59
	WCDMA V	RMC12.2K	Right Side	0	4132	1	w/o	1	23.5	23.04	1.11	-0.04	0.022	0.02
	WCDMA V	RMC12.2K	Bottom Side	0	4132	1	w/	1	19.0	18.72	1.07	0.01	0.324	0.35
	WCDMA V	RMC12.2K	Bottom Side	9	4132	1	w/o	1	23.5	23.04	1.11	-0.05	0.482	0.54
	WCDMA V	RMC12.2K	Rear Face	10	4132	2	w/o	1	23.5	23.04	1.11	0.02	0.353	0.39

### Note:

- SAR is performed on the highest power channel. When the reported SAR value of highest power channel is <= 0.8 W/kg, SAR testing for optional channel is not required.

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	EUT Config.	Power Reduction	Tx Antenna	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 2	QPSK20M	Rear Face	0	18900	1	w/	0	1	0	16.6	16.59	1.00	-0.01	0.562	0.56
	LTE 2	QPSK20M	Rear Face	10	18700	1	w/o	0	1	0	22.6	22.57	1.01	0.14	0.391	0.39
	LTE 2	QPSK20M	Left Side	0	18700	1	w/o	0	1	0	22.6	22.57	1.01	-0.08	0.164	0.17
06	LTE 2	QPSK20M	Top Side	0	18900	1	w/	0	1	0	16.6	16.59	1.00	0.01	0.775	0.78
	LTE 2	QPSK20M	Top Side	9	18700	1	w/o	0	1	0	22.6	22.57	1.01	0.02	0.643	0.65
	LTE 2	QPSK20M	Rear Face	0	18900	1	w/	0	50	0	15.6	15.60	1.00	-0.01	0.422	0.42
	LTE 2	QPSK20M	Rear Face	10	18700	1	w/o	0	50	50	21.6	21.46	1.03	0.06	0.259	0.27
	LTE 2	QPSK20M	Left Side	0	18700	1	w/o	0	50	50	21.6	21.46	1.03	-0.05	0.126	0.13
	LTE 2	QPSK20M	Top Side	0	18900	1	w/	0	50	0	15.6	15.60	1.00	0.09	0.565	0.57
	LTE 2	QPSK20M	Top Side	9	18700	1	w/o	0	50	50	21.6	21.46	1.03	0.00	0.482	0.50
	LTE 2	QPSK20M	Rear Face	0	18900	1	w/	1	1	0	16.6	16.59	1.00	0.05	0.388	0.39
	LTE 2	QPSK20M	Rear Face	10	18700	1	w/o	1	1	0	22.6	22.57	1.01	0.01	0.061	0.06
	LTE 2	QPSK20M	Right Side	0	18700	1	w/o	1	1	0	22.6	22.57	1.01	0.02	0.136	0.14
	LTE 2	QPSK20M	Bottom Side	0	18900	1	w/	1	1	0	16.6	16.59	1.00	0.09	0.422	0.42
	LTE 2	QPSK20M	Bottom Side	9	18700	1	w/o	1	1	0	22.6	22.57	1.01	0.02	0.363	0.37
	LTE 2	QPSK20M	Rear Face	0	18900	1	w/	1	50	0	15.6	15.60	1.00	-0.01	0.354	0.35
	LTE 2	QPSK20M	Rear Face	10	18700	1	w/o	1	50	50	21.6	21.46	1.03	-0.01	0.052	0.05
	LTE 2	QPSK20M	Right Side	0	18700	1	w/o	1	50	50	21.6	21.46	1.03	0.08	0.099	0.10
	LTE 2	QPSK20M	Bottom Side	0	18900	1	w/	1	50	0	15.6	15.60	1.00	-0.05	0.381	0.38
	LTE 2	QPSK20M	Bottom Side	9	18700	1	w/o	1	50	50	21.6	21.46	1.03	0.05	0.3	0.31
	LTE 2	QPSK20M	Top Side	0	18900	2	w/	0	1	0	16.6	16.59	1.00	-0.03	0.517	0.52



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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	EUT Config.	Power Reduction	Tx Antenna	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
07	LTE 4	QPSK20M	Rear Face	0	20175	1	w/	0	1	50	16.8	16.74	1.01	-0.01	1.13	<b>1.15</b>
	LTE 4	QPSK20M	Rear Face	10	20050	1	w/o	0	1	0	22.6	22.60	1.00	0.03	0.4	0.40
	LTE 4	QPSK20M	Left Side	0	20050	1	w/o	0	1	0	22.6	22.60	1.00	-0.17	0.166	0.17
	LTE 4	QPSK20M	Top Side	0	20175	1	w/	0	1	50	16.8	16.74	1.01	0.10	1.11	1.13
	LTE 4	QPSK20M	Top Side	9	20050	1	w/o	0	1	0	22.6	22.60	1.00	0.01	0.624	0.62
	LTE 4	QPSK20M	Rear Face	0	20175	1	w/	0	50	0	15.8	15.80	1.00	-0.09	0.816	0.82
	LTE 4	QPSK20M	Rear Face	10	20050	1	w/o	0	50	0	21.6	21.56	1.01	-0.05	0.317	0.32
	LTE 4	QPSK20M	Left Side	0	20050	1	w/o	0	50	0	21.6	21.56	1.01	-0.19	0.126	0.13
	LTE 4	QPSK20M	Top Side	0	20175	1	w/	0	50	0	15.8	15.80	1.00	0.07	0.809	0.81
	LTE 4	QPSK20M	Top Side	9	20050	1	w/o	0	50	0	21.6	21.56	1.01	0.01	0.478	0.48
	LTE 4	QPSK20M	Rear Face	0	20175	1	w/	1	1	50	16.8	16.74	1.01	-0.13	0.582	0.59
	LTE 4	QPSK20M	Rear Face	10	20050	1	w/o	1	1	0	22.6	22.60	1.00	0.05	0.017	0.02
	LTE 4	QPSK20M	Right Side	0	20050	1	w/o	1	1	0	22.6	22.60	1.00	0.04	0.052	0.05
	LTE 4	QPSK20M	Bottom Side	0	20175	1	w/	1	1	50	16.8	16.74	1.01	-0.15	0.543	0.55
	LTE 4	QPSK20M	Bottom Side	9	20050	1	w/o	1	1	0	22.6	22.60	1.00	0.07	0.147	0.15
	LTE 4	QPSK20M	Rear Face	0	20175	1	w/	1	50	0	15.8	15.80	1.00	-0.07	0.533	0.53
	LTE 4	QPSK20M	Rear Face	10	20050	1	w/o	1	50	0	21.6	21.56	1.01	0.13	0.018	0.02
	LTE 4	QPSK20M	Right Side	0	20050	1	w/o	1	50	0	21.6	21.56	1.01	0.01	0.056	0.06
	LTE 4	QPSK20M	Bottom Side	0	20175	1	w/	1	50	0	15.8	15.80	1.00	0.10	0.519	0.52
	LTE 4	QPSK20M	Bottom Side	9	20050	1	w/o	1	50	0	21.6	21.56	1.01	0.08	0.144	0.15
	LTE 4	QPSK20M	Rear Face	0	20050	1	w/	0	1	50	16.8	16.72	1.02	-0.03	1.01	1.03
	LTE 4	QPSK20M	Rear Face	0	20300	1	w/	0	1	0	16.8	16.71	1.02	0.05	1.06	1.08
	LTE 4	QPSK20M	Top Side	0	20050	1	w/	0	1	50	16.8	16.72	1.02	-0.07	0.94	0.96
	LTE 4	QPSK20M	Top Side	0	20300	1	w/	0	1	0	16.8	16.71	1.02	0.11	0.978	1.00
	LTE 4	QPSK20M	Rear Face	0	20050	1	w/	0	50	0	15.8	15.74	1.01	0.07	0.955	0.97
	LTE 4	QPSK20M	Rear Face	0	20300	1	w/	0	50	0	15.8	15.77	1.01	0.02	0.833	0.84
	LTE 4	QPSK20M	Top Side	0	20050	1	w/	0	50	0	15.8	15.74	1.01	0.07	0.925	0.94
	LTE 4	QPSK20M	Top Side	0	20300	1	w/	0	50	0	15.8	15.77	1.01	0.07	0.84	0.85
	LTE 4	QPSK20M	Rear Face	0	20175	1	w/	0	100	0	15.8	15.74	1.01	-0.12	0.788	0.80
	LTE 4	QPSK20M	Top Side	0	20175	1	w/	0	100	0	15.8	15.74	1.01	-0.14	0.771	0.78
LTE 4	QPSK20M	Rear Face	0	20175	2	w/	0	1	50	16.8	16.74	1.01	0.06	0.607	0.62	
LTE 4	QPSK20M	Rear Face	0	20175	1	w/	0	1	50	16.8	16.74	1.01	0.04	1.12	1.14	
08	LTE 5	QPSK10M	Rear Face	0	20525	1	w/	0	1	24	22.4	22.38	1.00	0.07	0.688	<b>0.69</b>
	LTE 5	QPSK10M	Rear Face	10	20525	1	w/o	0	1	0	22.6	22.56	1.01	-0.07	0.212	0.21
	LTE 5	QPSK10M	Left Side	0	20525	1	w/o	0	1	0	22.6	22.56	1.01	0.02	0.031	0.03
	LTE 5	QPSK10M	Top Side	0	20525	1	w/	0	1	24	22.4	22.38	1.00	-0.11	0.433	0.43
	LTE 5	QPSK10M	Top Side	9	20525	1	w/o	0	1	0	22.6	22.56	1.01	-0.11	0.124	0.13
	LTE 5	QPSK10M	Rear Face	0	20450	1	w/	0	25	0	21.4	21.45	0.99	0.07	0.579	0.57
	LTE 5	QPSK10M	Rear Face	10	20525	1	w/o	0	25	12	21.6	21.54	1.01	-0.07	0.163	0.17
	LTE 5	QPSK10M	Left Side	0	20525	1	w/o	0	25	12	21.6	21.54	1.01	-0.07	0.017	0.02
	LTE 5	QPSK10M	Top Side	0	20450	1	w/	0	25	0	21.4	21.45	0.99	-0.03	0.33	0.33
	LTE 5	QPSK10M	Top Side	9	20525	1	w/o	0	25	12	21.6	21.54	1.01	-0.11	0.087	0.09
	LTE 5	QPSK10M	Rear Face	0	20525	1	w/	1	1	24	22.4	22.38	1.00	0.07	0.581	0.58
	LTE 5	QPSK10M	Rear Face	10	20525	1	w/o	1	1	0	22.6	22.56	1.01	0.01	0.19	0.19
	LTE 5	QPSK10M	Right Side	0	20525	1	w/o	1	1	0	22.6	22.56	1.01	0.09	0.019	0.02
	LTE 5	QPSK10M	Bottom Side	0	20525	1	w/	1	1	24	22.4	22.38	1.00	-0.11	0.315	0.32
	LTE 5	QPSK10M	Bottom Side	9	20525	1	w/o	1	1	0	22.6	22.56	1.01	-0.06	0.115	0.12
	LTE 5	QPSK10M	Rear Face	0	20450	1	w/	1	25	0	21.4	21.45	0.99	0.06	0.533	0.53
	LTE 5	QPSK10M	Rear Face	10	20525	1	w/o	1	25	12	21.6	21.54	1.01	-0.11	0.118	0.12
	LTE 5	QPSK10M	Right Side	0	20525	1	w/o	1	25	12	21.6	21.54	1.01	0.00	0.013	0.01
	LTE 5	QPSK10M	Bottom Side	0	20450	1	w/	1	25	0	21.4	21.45	0.99	0.03	0.285	0.28
	LTE 5	QPSK10M	Bottom Side	9	20525	1	w/o	1	25	12	21.6	21.54	1.01	-0.02	0.066	0.07
	LTE 5	QPSK10M	Rear Face	0	20525	2	w/	0	1	24	22.4	22.38	1.00	-0.09	0.497	0.50



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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	EUT Config.	Power Reduction	Tx Antenna	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)	
09	LTE 7	QPSK20M	Rear Face	0	21100	1	w/	0	1	50	16.7	16.63	1.02	0.04	0.645	<b>0.66</b>	
	LTE 7	QPSK20M	Rear Face	10	21100	1	w/o	0	1	99	22.5	22.50	1.00	-0.07	0.451	0.45	
	LTE 7	QPSK20M	Left Side	0	21100	1	w/o	0	1	99	22.5	22.50	1.00	0.01	0.314	0.31	
	LTE 7	QPSK20M	Top Side	0	21100	1	w/	0	1	50	16.7	16.63	1.02	0.14	0.445	0.45	
	LTE 7	QPSK20M	Top Side	9	21100	1	w/o	0	1	99	22.5	22.50	1.00	-0.15	0.186	0.19	
	LTE 7	QPSK20M	Rear Face	0	21100	1	w/	0	50	50	15.7	15.70	1.00	-0.10	0.489	0.49	
	LTE 7	QPSK20M	Rear Face	10	21100	1	w/o	0	50	25	21.5	21.40	1.02	-0.12	0.261	0.27	
	LTE 7	QPSK20M	Left Side	0	21100	1	w/o	0	50	25	21.5	21.40	1.02	0.09	0.311	0.32	
	LTE 7	QPSK20M	Top Side	0	21100	1	w/	0	50	50	15.7	15.70	1.00	-0.08	0.349	0.35	
	LTE 7	QPSK20M	Top Side	9	21100	1	w/o	0	50	25	21.5	21.40	1.02	-0.07	0.185	0.19	
	LTE 7	QPSK20M	Rear Face	0	21100	1	w/	1	1	1	50	16.7	16.63	1.02	-0.05	0.402	0.41
	LTE 7	QPSK20M	Rear Face	10	21100	1	w/o	1	1	1	99	22.5	22.50	1.00	0.07	0.005	0.01
	LTE 7	QPSK20M	Right Side	0	21100	1	w/o	1	1	1	99	22.5	22.50	1.00	0.02	0.01	0.01
	LTE 7	QPSK20M	Bottom Side	0	21100	1	w/	1	1	1	50	16.7	16.63	1.02	0.06	0.289	0.29
	LTE 7	QPSK20M	Bottom Side	9	21100	1	w/o	1	1	1	99	22.5	22.50	1.00	-0.01	0.024	0.02
	LTE 7	QPSK20M	Rear Face	0	21100	1	w/	1	50	50	15.7	15.70	1.00	-0.08	0.385	0.39	
	LTE 7	QPSK20M	Rear Face	10	21100	1	w/o	1	50	25	21.5	21.40	1.02	0.07	0.003	0.00	
	LTE 7	QPSK20M	Right Side	0	21100	1	w/o	1	50	25	21.5	21.40	1.02	0.04	0.009	0.01	
	LTE 7	QPSK20M	Bottom Side	0	21100	1	w/	1	50	50	15.7	15.70	1.00	-0.06	0.234	0.23	
	LTE 7	QPSK20M	Bottom Side	9	21100	1	w/o	1	50	25	21.5	21.40	1.02	-0.04	0.011	0.01	
LTE 7	QPSK20M	Rear Face	0	21100	2	w/	0	1	1	50	16.7	16.63	1.02	-0.08	0.387	0.39	
10	LTE 12	QPSK10M	Rear Face	0	23060	1	w/	0	1	24	20.5	20.42	1.02	0.03	1.06	<b>1.08</b>	
	LTE 12	QPSK10M	Rear Face	10	23060	1	w/o	0	1	0	22.1	22.02	1.02	0.06	0.025	0.03	
	LTE 12	QPSK10M	Left Side	0	23060	1	w/o	0	1	0	22.1	22.02	1.02	0.11	0.024	0.02	
	LTE 12	QPSK10M	Top Side	0	23060	1	w/	0	1	24	20.5	20.42	1.02	-0.11	0.78	0.79	
	LTE 12	QPSK10M	Top Side	9	23060	1	w/o	0	1	0	22.1	22.02	1.02	0.10	0.037	0.04	
	LTE 12	QPSK10M	Rear Face	0	23060	1	w/	0	25	0	19.5	19.44	1.01	0.03	0.771	0.78	
	LTE 12	QPSK10M	Rear Face	10	23060	1	w/o	0	25	0	21.1	21.00	1.02	0.04	0.023	0.02	
	LTE 12	QPSK10M	Left Side	0	23060	1	w/o	0	25	0	21.1	21.00	1.02	0.06	0.025	0.03	
	LTE 12	QPSK10M	Top Side	0	23060	1	w/	0	25	0	19.5	19.44	1.01	-0.10	0.622	0.63	
	LTE 12	QPSK10M	Top Side	9	23060	1	w/o	0	25	0	21.1	21.00	1.02	0.06	0.03	0.03	
	LTE 12	QPSK10M	Rear Face	0	23060	1	w/	1	1	1	24	20.5	20.42	1.02	-0.03	0.885	0.90
	LTE 12	QPSK10M	Rear Face	10	23060	1	w/o	1	1	0	22.1	22.02	1.02	0.02	0.18	0.18	
	LTE 12	QPSK10M	Right Side	0	23060	1	w/o	1	1	0	22.1	22.02	1.02	0.08	0.074	0.08	
	LTE 12	QPSK10M	Bottom Side	0	23060	1	w/	1	1	1	24	20.5	20.42	1.02	0.02	0.669	0.68
	LTE 12	QPSK10M	Bottom Side	9	23060	1	w/o	1	1	0	22.1	22.02	1.02	0.04	0.089	0.09	
	LTE 12	QPSK10M	Rear Face	0	23060	1	w/	1	25	0	19.5	19.44	1.01	0.09	0.765	0.78	
	LTE 12	QPSK10M	Rear Face	10	23060	1	w/o	1	25	0	21.1	21.00	1.02	0.04	0.145	0.15	
	LTE 12	QPSK10M	Right Side	0	23060	1	w/o	1	25	0	21.1	21.00	1.02	0.11	0.062	0.06	
	LTE 12	QPSK10M	Bottom Side	0	23060	1	w/	1	25	0	19.5	19.44	1.01	0.11	0.602	0.61	
	LTE 12	QPSK10M	Bottom Side	9	23060	1	w/o	1	25	0	21.1	21.00	1.02	0.04	0.066	0.07	
	LTE 12	QPSK10M	Rear Face	0	23095	1	w/	0	1	1	24	20.5	20.32	1.04	0.02	0.921	0.96
	LTE 12	QPSK10M	Rear Face	0	23130	1	w/	0	1	1	24	20.5	20.33	1.04	0.03	0.915	0.95
	LTE 12	QPSK10M	Rear Face	0	23095	1	w/	1	1	1	24	20.5	20.32	1.04	-0.03	0.797	0.83
	LTE 12	QPSK10M	Rear Face	0	23130	1	w/	1	1	1	24	20.5	20.33	1.04	-0.03	0.786	0.82
	LTE 12	QPSK10M	Rear Face	0	23060	1	w/	0	50	0	19.5	19.41	1.02	0.15	0.771	0.79	
	LTE 12	QPSK10M	Rear Face	0	23060	1	w/	1	50	0	19.5	19.41	1.02	-0.09	0.706	0.72	
	LTE 12	QPSK10M	Rear Face	0	23060	2	w/	0	1	1	24	20.5	20.42	1.02	0.04	0.595	0.61
	LTE 12	QPSK10M	Rear Face	0	23060	1	w/	0	1	1	24	20.5	20.42	1.02	-0.06	0.988	1.01



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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	EUT Config.	Power Reduction	Tx Antenna	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 13	QPSK10M	Rear Face	0	23230	1	w/	0	1	0	22.4	22.38	1.00	0.09	0.626	0.63
	LTE 13	QPSK10M	Rear Face	10	23230	1	w/o	0	1	0	22.7	22.65	1.01	0.02	0.25	0.25
	LTE 13	QPSK10M	Left Side	0	23230	1	w/o	0	1	0	22.7	22.65	1.01	0.04	0.139	0.14
11	LTE 13	QPSK10M	Top Side	0	23230	1	w/	0	1	0	22.4	22.38	1.00	0.03	0.871	0.88
	LTE 13	QPSK10M	Top Side	9	23230	1	w/o	0	1	0	22.7	22.65	1.01	0.05	0.227	0.23
	LTE 13	QPSK10M	Rear Face	0	23230	1	w/	0	25	0	21.4	21.40	1.00	0.10	0.486	0.49
	LTE 13	QPSK10M	Rear Face	10	23230	1	w/o	0	25	0	21.7	21.62	1.02	0.02	0.196	0.20
	LTE 13	QPSK10M	Left Side	0	23230	1	w/o	0	25	0	21.7	21.62	1.02	0.03	0.104	0.11
	LTE 13	QPSK10M	Top Side	0	23230	1	w/	0	25	0	21.4	21.40	1.00	-0.11	0.686	0.69
	LTE 13	QPSK10M	Top Side	9	23230	1	w/o	0	25	0	21.7	21.62	1.02	0.05	0.178	0.18
	LTE 13	QPSK10M	Rear Face	0	23230	1	w/	1	1	0	22.4	22.38	1.00	-0.01	0.631	0.63
	LTE 13	QPSK10M	Rear Face	10	23230	1	w/o	1	1	0	22.7	22.65	1.01	0.01	0.29	0.29
	LTE 13	QPSK10M	Right Side	0	23230	1	w/o	1	1	0	22.7	22.65	1.01	0.17	0.014	0.01
	LTE 13	QPSK10M	Bottom Side	0	23230	1	w/	1	1	0	22.4	22.38	1.00	0.08	0.802	0.81
	LTE 13	QPSK10M	Bottom Side	9	23230	1	w/o	1	1	0	22.7	22.65	1.01	0.09	0.23	0.23
	LTE 13	QPSK10M	Rear Face	0	23230	1	w/	1	25	0	21.4	21.40	1.00	-0.03	0.556	0.56
	LTE 13	QPSK10M	Rear Face	10	23230	1	w/o	1	25	0	21.7	21.62	1.02	0.01	0.23	0.23
	LTE 13	QPSK10M	Right Side	0	23230	1	w/o	1	25	0	21.7	21.62	1.02	0.05	0.01	0.01
	LTE 13	QPSK10M	Bottom Side	0	23230	1	w/	1	25	0	21.4	21.40	1.00	0.05	0.788	0.79
	LTE 13	QPSK10M	Bottom Side	9	23230	1	w/o	1	25	0	21.7	21.62	1.02	0.17	0.184	0.19
	LTE 13	QPSK10M	Top Side	0	23230	1	w/	0	50	0	21.4	21.39	1.00	0.11	0.722	0.72
	LTE 13	QPSK10M	Top Side	0	23230	2	w/	0	1	0	22.4	22.38	1.00	0.06	0.313	0.31
	LTE 13	QPSK10M	Top Side	0	23230	1	w/	0	1	0	22.4	22.38	1.00	0.06	0.852	0.86





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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	EUT Config.	Power Reduction	Tx Antenna	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
12	LTE 17	QPSK10M	Rear Face	0	23800	1	w/	0	1	49	20.4	20.36	1.01	0.01	1.25	<b>1.26</b>
	LTE 17	QPSK10M	Rear Face	10	23800	1	w/o	0	1	49	22.7	22.68	1.00	-0.03	0.305	0.31
	LTE 17	QPSK10M	Left Side	0	23800	1	w/o	0	1	49	22.7	22.68	1.00	0.01	0.259	0.26
	LTE 17	QPSK10M	Top Side	0	23800	1	w/	0	1	49	20.4	20.36	1.01	-0.02	1.2	1.21
	LTE 17	QPSK10M	Top Side	9	23800	1	w/o	0	1	49	22.7	22.68	1.00	0.02	0.183	0.18
	LTE 17	QPSK10M	Rear Face	0	23800	1	w/	0	25	25	19.4	19.28	1.03	0.02	1.11	1.14
	LTE 17	QPSK10M	Rear Face	10	23800	1	w/o	0	25	25	21.7	21.59	1.03	-0.03	0.248	0.25
	LTE 17	QPSK10M	Left Side	0	23800	1	w/o	0	25	25	21.7	21.59	1.03	0.01	0.216	0.22
	LTE 17	QPSK10M	Top Side	0	23800	1	w/	0	25	25	19.4	19.28	1.03	-0.02	1.07	1.10
	LTE 17	QPSK10M	Top Side	9	23800	1	w/o	0	25	25	21.7	21.59	1.03	0.03	0.224	0.23
	LTE 17	QPSK10M	Rear Face	0	23800	1	w/	1	1	49	20.4	20.36	1.01	0.02	1.09	1.10
	LTE 17	QPSK10M	Rear Face	10	23800	1	w/o	1	1	49	22.7	22.68	1.00	0.06	0.193	0.19
	LTE 17	QPSK10M	Right Side	0	23800	1	w/o	1	1	49	22.7	22.68	1.00	0.09	0.12	0.12
	LTE 17	QPSK10M	Bottom Side	0	23800	1	w/	1	1	49	20.4	20.36	1.01	0.06	1.05	1.06
	LTE 17	QPSK10M	Bottom Side	9	23800	1	w/o	1	1	49	22.7	22.68	1.00	0.12	0.105	0.11
	LTE 17	QPSK10M	Rear Face	0	23800	1	w/	1	25	25	19.4	19.28	1.03	-0.05	1.07	1.10
	LTE 17	QPSK10M	Rear Face	10	23800	1	w/o	1	25	25	21.7	21.59	1.03	0.14	0.189	0.19
	LTE 17	QPSK10M	Right Side	0	23800	1	w/o	1	25	25	21.7	21.59	1.03	0.02	0.118	0.12
	LTE 17	QPSK10M	Bottom Side	0	23800	1	w/	1	25	25	19.4	19.28	1.03	0.09	1.01	1.04
	LTE 17	QPSK10M	Bottom Side	9	23800	1	w/o	1	25	25	21.7	21.59	1.03	0.02	0.099	0.10
	LTE 17	QPSK10M	Rear Face	0	23780	1	w/	0	1	49	20.4	20.35	1.01	-0.01	0.89	0.90
	LTE 17	QPSK10M	Rear Face	0	23790	1	w/	0	1	49	20.4	20.34	1.01	0.05	0.88	0.89
	LTE 17	QPSK10M	Top Side	0	23780	1	w/	0	1	49	20.4	20.35	1.01	-0.03	1.18	1.20
	LTE 17	QPSK10M	Top Side	0	23790	1	w/	0	1	49	20.4	20.34	1.01	-0.03	1.17	1.19
	LTE 17	QPSK10M	Rear Face	0	23780	1	w/	0	25	0	19.4	19.27	1.03	-0.01	1.17	1.21
	LTE 17	QPSK10M	Rear Face	0	23790	1	w/	0	25	25	19.4	19.26	1.03	-0.05	1.19	1.23
	LTE 17	QPSK10M	Top Side	0	23780	1	w/	0	25	0	19.4	19.27	1.03	-0.01	0.965	0.99
	LTE 17	QPSK10M	Top Side	0	23790	1	w/	0	25	25	19.4	19.26	1.03	-0.03	0.981	1.01
	LTE 17	QPSK10M	Rear Face	0	23800	1	w/	0	50	0	19.4	19.32	1.02	-0.07	0.94	0.96
	LTE 17	QPSK10M	Top Side	0	23800	1	w/	0	50	0	19.4	19.32	1.02	-0.11	0.92	0.94
	LTE 17	QPSK10M	Rear Face	0	23780	1	w/	1	1	49	20.4	20.35	1.01	0.03	0.757	0.76
	LTE 17	QPSK10M	Rear Face	0	23790	1	w/	1	1	49	20.4	20.34	1.01	0.08	0.749	0.76
	LTE 17	QPSK10M	Top Side	0	23780	1	w/	1	1	49	20.4	20.35	1.01	0.06	1.04	1.05
	LTE 17	QPSK10M	Top Side	0	23790	1	w/	1	1	49	20.4	20.34	1.01	-0.06	1.02	1.03
	LTE 17	QPSK10M	Rear Face	0	23780	1	w/	1	25	0	19.4	19.27	1.03	-0.02	1.11	1.14
	LTE 17	QPSK10M	Rear Face	0	23790	1	w/	1	25	25	19.4	19.26	1.03	0.10	1.14	1.17
	LTE 17	QPSK10M	Top Side	0	23780	1	w/	1	25	0	19.4	19.27	1.03	-0.03	0.909	0.94
	LTE 17	QPSK10M	Top Side	0	23790	1	w/	1	25	25	19.4	19.26	1.03	-0.08	0.928	0.96
	LTE 17	QPSK10M	Rear Face	0	23800	1	w/	1	50	0	19.4	19.32	1.02	0.05	0.928	0.95
	LTE 17	QPSK10M	Top Side	0	23800	1	w/	1	50	0	19.4	19.32	1.02	-0.03	0.922	0.94
	LTE 17	QPSK10M	Rear Face	0	23800	2	w/	0	1	49	20.4	20.36	1.01	0.03	0.507	0.51
	LTE 17	QPSK10M	Rear Face	0	23800	1	w/	0	1	49	20.4	20.36	1.01	-0.08	1.22	1.23





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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	EUT Config.	Power Reduction	Tx Antenna	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	LTE 25	QPSK20M	Rear Face	0	26140	1	w/	0	1	99	17.5	17.48	1.00	0.04	0.835	0.84
	LTE 25	QPSK20M	Rear Face	10	26140	1	w/o	0	1	99	22.6	22.59	1.00	-0.07	0.328	0.33
	LTE 25	QPSK20M	Left Side	0	26140	1	w/o	0	1	99	22.6	22.59	1.00	-0.06	0.154	0.15
13	LTE 25	QPSK20M	Top Side	0	26140	1	w/	0	1	99	17.5	17.48	1.00	-0.07	0.852	0.86
	LTE 25	QPSK20M	Top Side	9	26140	1	w/o	0	1	99	22.6	22.59	1.00	-0.03	0.575	0.58
	LTE 25	QPSK20M	Rear Face	0	26140	1	w/	0	50	50	16.5	16.50	1.00	0.06	0.65	0.65
	LTE 25	QPSK20M	Rear Face	10	26140	1	w/o	0	50	50	21.6	21.56	1.01	-0.07	0.264	0.27
	LTE 25	QPSK20M	Left Side	0	26140	1	w/o	0	50	50	21.6	21.56	1.01	-0.07	0.125	0.13
	LTE 25	QPSK20M	Top Side	0	26140	1	w/	0	50	50	16.5	16.50	1.00	0.09	0.724	0.72
	LTE 25	QPSK20M	Top Side	9	26140	1	w/o	0	50	50	21.6	21.56	1.01	0.13	0.451	0.46
	LTE 25	QPSK20M	Rear Face	0	26140	1	w/	1	1	99	17.5	17.48	1.00	0.02	0.758	0.76
	LTE 25	QPSK20M	Rear Face	10	26140	1	w/o	1	1	99	22.6	22.59	1.00	-0.14	0.401	0.40
	LTE 25	QPSK20M	Right Side	0	26140	1	w/o	1	1	99	22.6	22.59	1.00	0.06	0.117	0.12
	LTE 25	QPSK20M	Bottom Side	0	26140	1	w/	1	1	99	17.5	17.48	1.00	0.09	0.761	0.76
	LTE 25	QPSK20M	Bottom Side	9	26140	1	w/o	1	1	99	22.6	22.59	1.00	-0.16	0.288	0.29
	LTE 25	QPSK20M	Rear Face	0	26140	1	w/	1	50	50	16.5	16.50	1.00	0.08	0.699	0.70
	LTE 25	QPSK20M	Rear Face	10	26140	1	w/o	1	50	50	21.6	21.56	1.01	-0.12	0.313	0.32
	LTE 25	QPSK20M	Right Side	0	26140	1	w/o	1	50	50	21.6	21.56	1.01	0.08	0.098	0.10
	LTE 25	QPSK20M	Bottom Side	0	26140	1	w/	1	50	50	16.5	16.50	1.00	-0.02	0.706	0.71
	LTE 25	QPSK20M	Bottom Side	9	26140	1	w/o	1	50	50	21.6	21.56	1.01	-0.01	0.226	0.23
	LTE 25	QPSK20M	Rear Face	0	26365	1	w/	0	1	50	17.5	17.32	1.04	0.01	0.813	0.85
	LTE 25	QPSK20M	Rear Face	0	26590	1	w/	0	1	0	17.5	17.31	1.04	0.09	0.794	0.83
	LTE 25	QPSK20M	Top Side	0	26365	1	w/	0	1	50	17.5	17.32	1.04	0.10	0.816	0.85
	LTE 25	QPSK20M	Top Side	0	26590	1	w/	0	1	0	17.5	17.31	1.04	0.08	0.795	0.83
	LTE 25	QPSK20M	Rear Face	0	26140	1	w/	0	100	0	16.5	16.49	1.00	0.07	0.658	0.66
	LTE 25	QPSK20M	Top Side	0	26140	1	w/	0	100	0	16.5	16.49	1.00	0.09	0.656	0.66
	LTE 25	QPSK20M	Top Side	0	26140	2	w/	0	1	99	17.5	17.48	1.00	-0.02	0.15	0.15
	LTE 25	QPSK20M	Top Side	0	26140	1	w/	0	1	99	17.5	17.48	1.00	-0.02	0.848	0.85
14	LTE 26	QPSK15M	Rear Face	0	26765	1	w/	0	1	0	22.5	22.44	1.01	0.05	0.72	0.73
	LTE 26	QPSK15M	Rear Face	10	26765	1	w/o	0	1	0	22.6	22.58	1.00	-0.05	0.099	0.10
	LTE 26	QPSK15M	Left Side	0	26765	1	w/o	0	1	0	22.6	22.58	1.00	0.05	0.03	0.03
	LTE 26	QPSK15M	Top Side	0	26765	1	w/	0	1	0	22.5	22.44	1.01	-0.11	0.639	0.65
	LTE 26	QPSK15M	Top Side	9	26765	1	w/o	0	1	0	22.6	22.58	1.00	0.03	0.099	0.10
	LTE 26	QPSK15M	Rear Face	0	26965	1	w/	0	36	0	21.5	21.48	1.00	-0.06	0.611	0.61
	LTE 26	QPSK15M	Rear Face	10	26765	1	w/o	0	36	0	21.6	21.59	1.00	0.01	0.08	0.08
	LTE 26	QPSK15M	Left Side	0	26765	1	w/o	0	36	0	21.6	21.59	1.00	0.09	0.022	0.02
	LTE 26	QPSK15M	Top Side	0	26965	1	w/	0	36	0	21.5	21.48	1.00	-0.10	0.485	0.49
	LTE 26	QPSK15M	Top Side	9	26765	1	w/o	0	36	0	21.6	21.59	1.00	0.09	0.077	0.08
	LTE 26	QPSK15M	Rear Face	0	26765	1	w/	1	1	0	22.5	22.44	1.01	0.05	0.691	0.70
	LTE 26	QPSK15M	Rear Face	10	26765	1	w/o	1	1	0	22.6	22.58	1.00	-0.10	0.47	0.47
	LTE 26	QPSK15M	Right Side	0	26765	1	w/o	1	1	0	22.6	22.58	1.00	0.08	0.0037	0.00
	LTE 26	QPSK15M	Bottom Side	0	26765	1	w/	1	1	0	22.5	22.44	1.01	-0.80	0.642	0.65
	LTE 26	QPSK15M	Bottom Side	9	26765	1	w/o	1	1	0	22.6	22.58	1.00	-0.01	0.171	0.17
	LTE 26	QPSK15M	Rear Face	0	26965	1	w/	1	36	0	21.5	21.48	1.00	-0.09	0.662	0.67
	LTE 26	QPSK15M	Rear Face	10	26765	1	w/o	1	36	0	21.6	21.59	1.00	-0.04	0.165	0.17
	LTE 26	QPSK15M	Right Side	0	26765	1	w/o	1	36	0	21.6	21.59	1.00	0.04	0.00283	0.00
	LTE 26	QPSK15M	Bottom Side	0	26965	1	w/	1	36	0	21.5	21.48	1.00	0.16	0.602	0.60
	LTE 26	QPSK15M	Bottom Side	9	26765	1	w/o	1	36	0	21.6	21.59	1.00	0.00	0.131	0.13
	LTE 26	QPSK15M	Rear Face	0	26765	2	w/	0	1	0	22.5	22.44	1.01	-0.06	0.466	0.47



# FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	EUT Config.	Power Reduction	Tx Antenna	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
15	LTE 41	QPSK20M	Rear Face	0	39750	1	w/	0	1	0	21.0	20.97	1.01	0.09	0.777	<b>0.78</b>
	LTE 41	QPSK20M	Rear Face	10	39750	1	w/o	0	1	0	22.6	22.56	1.01	0.02	0.235	0.24
	LTE 41	QPSK20M	Left Side	0	39750	1	w/o	0	1	0	22.6	22.56	1.01	-0.01	0.202	0.20
	LTE 41	QPSK20M	Top Side	0	39750	1	w/	0	1	0	21.0	20.97	1.01	-0.03	0.751	0.76
	LTE 41	QPSK20M	Top Side	9	39750	1	w/o	0	1	0	22.6	22.56	1.01	-0.14	0.104	0.11
	LTE 41	QPSK20M	Rear Face	0	39750	1	w/	0	50	50	20.0	19.92	1.02	-0.10	0.625	0.64
	LTE 41	QPSK20M	Rear Face	10	39750	1	w/o	0	50	50	21.6	21.54	1.01	-0.02	0.194	0.20
	LTE 41	QPSK20M	Left Side	0	39750	1	w/o	0	50	50	21.6	21.54	1.01	0.04	0.16	0.16
	LTE 41	QPSK20M	Top Side	0	39750	1	w/	0	50	50	20.0	19.92	1.02	0.01	0.575	0.59
	LTE 41	QPSK20M	Top Side	9	39750	1	w/o	0	50	50	21.6	21.54	1.01	-0.06	0.075	0.08
	LTE 41	QPSK20M	Rear Face	0	39750	1	w/	1	1	0	21.0	20.97	1.01	-0.05	0.702	0.71
	LTE 41	QPSK20M	Rear Face	10	39750	1	w/o	1	1	0	22.6	22.56	1.01	0.01	0.025	0.03
	LTE 41	QPSK20M	Right Side	0	39750	1	w/o	1	1	0	22.6	22.56	1.01	0.05	0.094	0.09
	LTE 41	QPSK20M	Bottom Side	0	39750	1	w/	1	1	0	21.0	20.97	1.01	-0.08	0.685	0.69
	LTE 41	QPSK20M	Bottom Side	9	39750	1	w/o	1	1	0	22.6	22.56	1.01	-0.03	0.104	0.10
	LTE 41	QPSK20M	Rear Face	0	39750	1	w/	1	50	50	20.0	19.92	1.02	0.12	0.682	0.69
	LTE 41	QPSK20M	Rear Face	10	39750	1	w/o	1	50	50	21.6	21.54	1.01	0.13	0.02	0.02
	LTE 41	QPSK20M	Right Side	0	39750	1	w/o	1	50	50	21.6	21.54	1.01	0.14	0.069	0.07
	LTE 41	QPSK20M	Bottom Side	0	39750	1	w/	1	50	50	20.0	19.92	1.02	0.11	0.612	0.62
	LTE 41	QPSK20M	Bottom Side	9	39750	1	w/o	1	50	50	21.6	21.54	1.01	-0.06	0.066	0.07
	LTE 41	QPSK20M	Rear Face	0	39750	2	w/	0	1	0	21.0	20.97	1.01	-0.04	0.318	0.32

### Note:

1. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 1RB configuration is less than 0.8 W/kg.
2. According to KDB 941225, LTE SAR testing for remaining RB offset configurations and required test channels is not required when the reported SAR of highest power 50% RB configuration is less than 0.8 W/kg.
3. According to KDB 941225, LTE SAR testing for 100% RB is not required when the maximum power of 100% RB is less than the maximum power of 1RB and 50% RB, and the highest reported SAR for 1RB and 50% RB is less than 0.8 W/kg.
4. According to KDB 941225, LTE SAR testing for 16QAM is not required when the maximum power of 16QAM is less 1/2 dB higher than QPSK, and the highest reported SAR of QPSK is less than 1.45 W/kg.
5. According to KDB 941225, LTE SAR testing for smaller channel bandwidth is not required when the maximum power of smaller channel bandwidth is less 1/2 dB higher than largest channel bandwidth, and the highest reported SAR of largest channel bandwidth is less than 1.45 W/kg.



# FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	EUT Config.	Power Reduction	Tx Antenna	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	802.11b	-	Rear Face	0	6	1	w/	0	14.5	14.38	1.03	0.15	0.149	0.15
	802.11b	-	Rear Face	10	6	1	w/o	0	18.5	18.39	1.03	0.04	0.058	0.06
	802.11b	-	Top Side	0	6	1	w/	0	14.5	14.38	1.03	0.16	0.107	0.11
16	802.11b	-	Top Side	9	6	1	w/o	0	18.5	18.39	1.03	-0.03	0.151	0.15
	802.11n	HT20	Rear Face	0	6	1	w/	0	14.0	13.72	1.07	-0.08	0.132	0.14
	802.11n	HT40	Rear Face	0	6	1	w/	0	13.5	13.22	1.07	-0.04	0.13	0.14
	802.11n	HT20	Top Side	9	6	1	w/o	0	14.5	14.38	1.03	-0.09	0.047	0.05
	802.11n	HT40	Top Side	9	6	1	w/o	0	13.5	13.22	1.07	-0.05	0.087	0.09
	802.11b	-	Rear Face	0	6	1	w/	1	12.5	12.46	1.01	0.11	0.146	0.15
	802.11b	-	Rear Face	10	6	1	w/o	1	18.5	18.39	1.03	-0.09	0.074	0.08
	802.11b	-	Left Side	0	6	1	w/o	1	18.5	18.39	1.03	-0.05	0.098	0.10
	802.11b	-	Bottom Side	0	6	1	w/	1	12.5	12.46	1.01	0.19	0.087	0.09
	802.11b	-	Bottom Side	9	6	1	w/o	1	18.5	18.39	1.03	-0.06	0.043	0.04
	802.11n	HT40	Rear Face	0	6	1	w/	1	11.5	11.46	1.01	0.01	0.116	0.12
	802.11n	HT20	Rear Face	10	6	1	w/o	1	14.5	14.46	1.01	0.09	0.034	0.03
	802.11n	HT40	Rear Face	10	6	1	w/o	1	13.5	13.31	1.04	-0.09	0.029	0.03
	802.11n	HT40	Rear Face	0	6	1	w/	0+1	14.0	13.91	1.02	-0.15	0.149	0.15
	802.11n	HT40	Rear Face	10	6	1	w/o	0+1	14.5	14.49	1.00	-0.05	0.014	0.01
	802.11n	HT40	Top Side	0	6	1	w/	0+1	14.0	13.91	1.02	0.02	0.142	0.14
	802.11n	HT40	Top Side	9	6	1	w/o	0+1	14.5	14.49	1.00	-0.07	0.042	0.04
	802.11n	HT40	Bottom Side	0	6	1	w/	0+1	14.0	13.91	1.02	0.07	0.096	0.10
	802.11n	HT40	Bottom Side	9	6	1	w/o	0+1	14.5	14.49	1.00	0.06	0.015	0.01
	802.11b	-	Top Side	9	1	1	w/o	0	18.5	17.35	1.30	-0.01	0.115	0.15
	802.11b	-	Top Side	9	11	1	w/o	0	18.5	18.17	1.08	-0.03	0.121	0.13
	802.11b	-	Top Side	9	6	2	w/o	0	18.5	18.39	1.03	0.10	0.147	0.15
17	802.11a	-	Rear Face	0	48	1	w/	0	13.1	13.05	1.01	0.03	0.124	0.13
	802.11a	-	Rear Face	10	40	1	w/o	0	17.0	15.87	1.30	-0.03	0.022	0.03
	802.11a	-	Top Side	0	48	1	w/	0	13.1	13.05	1.01	0.05	0.1	0.10
	802.11a	-	Top Side	9	40	1	w/o	0	17.0	15.87	1.30	-0.09	0.021	0.03
	802.11n	HT40	Rear Face	0	38	1	w/	0	12.6	12.56	1.01	0.08	0.11	0.11
	802.11ac	VH80	Rear Face	0	42	1	w/	0	10.1	10.08	1.00	0.04	0.014	0.01
	802.11n	HT20	Rear Face	10	48	1	w/o	0	17.0	16.53	1.11	0.11	0.018	0.02
	802.11n	HT40	Rear Face	10	38	1	w/o	0	13.5	13.31	1.04	-0.03	0.014	0.01
	802.11ac	VH80	Rear Face	10	42	1	w/o	0	12.5	12.09	1.10	0.06	0.021	0.02
	802.11a	-	Rear Face	0	48	1	w/	1	11.5	11.27	1.05	0.11	0.099	0.10
	802.11a	-	Rear Face	10	48	1	w/o	1	16.5	16.11	1.09	-0.07	0.025	0.03
	802.11a	-	Left Side	0	48	1	w/o	1	16.5	16.11	1.09	-0.09	0.021	0.02
	802.11a	-	Bottom Side	0	48	1	w/	1	11.5	11.27	1.05	0.14	0.121	0.13
	802.11a	-	Bottom Side	9	48	1	w/o	1	16.5	16.11	1.09	-0.04	0.013	0.01
	802.11n	HT40	Bottom Side	0	46	1	w/	1	10.5	10.45	1.01	0.00	0.065	0.07
	802.11ac	VH80	Bottom Side	0	42	1	w/	1	8.5	8.47	1.01	0.00	0.057	0.06
	802.11n	HT20	Rear Face	10	44	1	w/o	1	16.5	16.04	1.11	0.06	0.023	0.03
	802.11n	HT40	Rear Face	10	46	1	w/o	1	13.0	12.77	1.05	0.01	0.018	0.02
	802.11ac	HT80	Rear Face	10	42	1	w/o	1	12.5	12.43	1.02	-0.03	0.014	0.01
	802.11n	HT20	Rear Face	0	40	1	w/	0+1	16.0	15.82	1.04	0.11	0.121	0.13
	802.11n	HT20	Rear Face	10	40	1	w/o	0+1	17.0	16.58	1.10	-0.09	0.023	0.03
	802.11n	HT20	Left Side	0	40	1	w/o	0+1	17.0	16.58	1.10	-0.09	0.01	0.01
	802.11n	HT20	Top Side	0	40	1	w/	0+1	16.0	15.82	1.04	0.17	0.115	0.12
	802.11n	HT20	Top Side	9	40	1	w/o	0+1	17.0	16.58	1.10	-0.01	0.00861	0.01
	802.11n	HT20	Bottom Side	0	40	1	w/	0+1	16.0	15.82	1.04	0.11	0.047	0.05
	802.11n	HT20	Bottom Side	9	40	1	w/o	0+1	17.0	16.58	1.10	-0.08	0.00163	0.00
	802.11n	HT40	Rear Face	0	46	1	w/	0+1	13.5	13.12	1.09	-0.10	0.105	0.11
	802.11ac	VH80	Rear Face	0	42	1	w/	0+1	13.0	12.77	1.05	0.00	0.086	0.09
	802.11n	HT40	Rear Face	10	46	1	w/o	0+1	13.5	13.12	1.09	0.06	0.00737	0.01
	802.11ac	VH80	Rear Face	10	46	1	w/o	0+1	13.0	12.59	1.10	-0.03	0.00536	0.01
	802.11a	-	Rear Face	0	48	2	w/	0	13.1	13.05	1.01	0.06	0.029	0.03



# FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	EUT Config.	Power Reduction	Tx Antenna	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	802.11a	-	Rear Face	0	52	1	w/	0	13.0	12.98	1.00	0.11	0.181	0.18
	802.11a	-	Rear Face	10	52	1	w/o	0	17.0	16.74	1.06	-0.08	0.032	0.03
18	802.11a	-	Top Side	0	52	1	w/	0	13.0	12.98	1.00	-0.04	0.209	0.21
	802.11a	-	Top Side	9	52	1	w/o	0	17.0	16.74	1.06	-0.02	0.059	0.06
	802.11n	HT40	Top Side	0	54	1	w/	0	13.0	12.63	1.09	0.01	0.194	0.21
	802.11ac	VH80	Top Side	0	58	1	w/	0	11.0	10.84	1.04	0.01	0.183	0.19
	802.11n	HT20	Top Side	9	52	1	w/o	0	17.0	16.71	1.07	0.03	0.077	0.08
	802.11n	HT40	Top Side	9	54	1	w/o	0	13.5	13.35	1.04	0.01	0.062	0.06
	802.11ac	VH80	Top Side	9	58	1	w/o	0	12.0	11.53	1.11	0.06	0.058	0.06
	802.11a	-	Rear Face	0	52	1	w/	1	12.5	12.49	1.00	0.12	0.198	0.20
	802.11a	-	Rear Face	10	60	1	w/o	1	16.5	16.12	1.09	-0.02	0.11	0.12
	802.11a	-	Left Side	0	60	1	w/o	1	16.5	16.12	1.09	-0.07	0.075	0.08
	802.11a	-	Bottom Side	0	52	1	w/	1	12.5	12.49	1.00	-0.11	0.166	0.17
	802.11a	-	Bottom Side	9	60	1	w/o	1	16.5	16.12	1.09	-0.07	0.055	0.06
	802.11n	HT40	Rear Face	0	62	1	w/	1	12.5	12.22	1.07	0.01	0.165	0.18
	802.11ac	VH80	Rear Face	0	58	1	w/	1	11.0	10.58	1.10	0.04	0.157	0.17
	802.11n	HT20	Rear Face	10	52	1	w/o	1	17.0	16.51	1.12	-0.08	0.069	0.08
	802.11n	HT40	Rear Face	10	62	1	w/o	1	13.0	12.84	1.04	-0.02	0.057	0.06
	802.11ac	VH80	Rear Face	10	58	1	w/o	1	12.5	12.24	1.06	-0.07	0.044	0.05
	802.11n	HT20	Rear Face	0	60	1	w/	0+1	14.0	13.75	1.06	0.11	0.183	0.19
	802.11n	HT20	Rear Face	10	60	1	w/o	0+1	17.0	16.63	1.09	0.07	0.095	0.10
	802.11n	HT20	Left Side	0	60	1	w/o	0+1	17.0	16.63	1.09	-0.02	0.043	0.05
	802.11n	HT20	Top Side	0	60	1	w/	0+1	14.0	13.75	1.06	-0.11	0.185	0.20
	802.11n	HT20	Top Side	9	60	1	w/o	0+1	17.0	16.63	1.09	-0.01	0.031	0.03
	802.11n	HT20	Bottom Side	0	60	1	w/	0+1	14.0	13.75	1.06	0.19	0.157	0.17
	802.11n	HT20	Bottom Side	9	60	1	w/o	0+1	17.0	16.63	1.09	-0.03	0.045	0.05
	802.11n	HT40	Top Side	0	62	1	w/	0+1	14.0	13.80	1.05	0.01	0.2	0.21
	802.11ac	VH80	Top Side	0	58	1	w/	0+1	13.0	12.94	1.01	0.04	0.206	0.21
	802.11n	HT40	Rear Face	10	62	1	w/o	0+1	14.0	13.80	1.05	-0.06	0.041	0.04
	802.11ac	VH80	Rear Face	10	58	1	w/o	0+1	13.0	12.60	1.10	0.04	0.037	0.04
	802.11a	-	Top Side	0	52	2	w/	0	13.0	12.98	1.00	0.11	0.19	0.19



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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	EUT Config.	Power Reduction	Tx Antenna	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
19	802.11a	-	Rear Face	0	100	1	w/	0	12.5	12.06	1.11	0.05	0.19	<b>0.21</b>
	802.11a	-	Rear Face	10	100	1	w/o	0	16.0	15.98	1.00	-0.02	0.014	0.01
	802.11a	-	Top Side	0	100	1	w/	0	12.5	12.06	1.11	0.16	0.107	0.12
	802.11a	-	Top Side	9	100	1	w/o	0	16.0	15.98	1.00	-0.09	0.027	0.03
	802.11n	HT20	Rear Face	0	132	1	w/	0	15.0	14.67	1.08	-0.02	0.096	0.10
	802.11n	HT40	Rear Face	0	134	1	w/	0	14.0	13.58	1.10	0.07	0.093	0.10
	802.11ac	VH80	Rear Face	0	106	1	w/	0	13.0	12.95	1.01	0.03	0.117	0.12
	802.11n	HT20	Top Side	9	116	1	w/o	0	16.0	15.87	1.03	-0.03	0.035	0.04
	802.11n	HT40	Top Side	9	134	1	w/o	0	14.0	13.58	1.10	0.02	0.028	0.03
	802.11ac	VH80	Top Side	9	106	1	w/o	0	13.0	12.95	1.01	0.00	0.026	0.03
	802.11a	-	Rear Face	0	100	1	w/	1	12.0	11.97	1.01	0.11	0.17	0.17
	802.11a	-	Rear Face	10	100	1	w/o	1	16.5	16.16	1.08	0.03	0.078	0.08
	802.11a	-	Left Side	0	100	1	w/o	1	16.5	16.16	1.08	-0.03	0.053	0.06
	802.11a	-	Bottom Side	0	100	1	w/	1	12.0	11.97	1.01	0.16	0.185	0.19
	802.11a	-	Bottom Side	9	100	1	w/o	1	16.5	16.16	1.08	-0.08	0.039	0.04
	802.11n	HT20	Bottom Side	0	112	1	w/	1	15.5	15.27	1.05	0.07	0.166	0.18
	802.11n	HT40	Bottom Side	0	102	1	w/	1	13.5	13.34	1.04	0.04	0.121	0.13
	802.11ac	VH80	Bottom Side	0	106	1	w/	1	13.0	12.65	1.08	-0.03	0.122	0.13
	802.11n	HT20	Rear Face	10	140	1	w/o	1	16.5	16.44	1.01	-0.08	0.049	0.05
	802.11n	HT40	Rear Face	10	102	1	w/o	1	13.5	13.34	1.04	-0.09	0.04	0.04
	802.11ac	HT80	Rear Face	10	106	1	w/o	1	13.0	12.65	1.08	-0.03	0.031	0.03
	802.11n	HT20	Rear Face	0	100	1	w/	0+1	16.5	16.38	1.03	0.12	0.108	0.11
	802.11n	HT20	Rear Face	10	100	1	w/o	0+1	16.5	16.19	1.07	0.00	0.08	0.09
	802.11n	HT20	Left Side	0	100	1	w/o	0+1	16.5	16.19	1.07	0.06	0.028	0.03
	802.11n	HT20	Top Side	0	100	1	w/	0+1	16.5	16.38	1.03	0.11	0.084	0.09
	802.11n	HT20	Top Side	9	100	1	w/o	0+1	16.5	16.19	1.07	-0.03	0.034	0.04
	802.11n	HT20	Bottom Side	0	100	1	w/	0+1	16.5	16.38	1.03	0.01	0.071	0.07
	802.11n	HT20	Bottom Side	9	100	1	w/o	0+1	16.5	16.19	1.07	-0.02	0.025	0.03
	802.11n	HT40	Rear Face	0	134	1	w/	0+1	13.5	12.95	1.14	0.00	0.075	0.08
	802.11ac	VH80	Rear Face	0	106	1	w/	0+1	13.0	12.63	1.09	0.01	0.07	0.08
	802.11n	HT40	Rear Face	10	134	1	w/o	0+1	13.5	12.95	1.14	-0.04	0.036	0.04
	802.11ac	VH80	Rear Face	10	106	1	w/o	0+1	13.5	12.64	1.22	-0.07	0.032	0.04
	802.11a	-	Rear Face	0	100	2	w/	0	12.5	12.06	1.11	0.03	0.029	0.03



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Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Ch.	EUT Config.	Power Reduction	Tx Antenna	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
20	802.11a	-	Rear Face	0	157	1	w/	0	12.5	12.36	1.03	0.01	0.145	0.15
	802.11a	-	Rear Face	10	157	1	w/o	0	17.0	16.89	1.03	0.09	0.027	0.03
	802.11a	-	Top Side	0	157	1	w/	0	12.5	12.36	1.03	-0.15	0.081	0.08
	802.11a	-	Top Side	9	157	1	w/o	0	17.0	16.89	1.03	-0.10	0.043	0.04
	802.11n	HT40	Rear Face	0	159	1	w/	0	11.5	11.48	1.00	0.04	0.062	0.06
	802.11ac	VH80	Rear Face	0	155	1	w/	0	10.0	9.75	1.06	0.02	0.05	0.05
	802.11n	HT20	Top Side	9	157	1	w/o	0	17.0	16.71	1.07	-0.07	0.041	0.04
	802.11n	HT40	Top Side	9	159	1	w/o	0	13.5	13.19	1.07	-0.06	0.035	0.04
	802.11ac	HT80	Top Side	9	155	1	w/o	0	13.5	13.46	1.01	-0.08	0.027	0.03
	802.11a	-	Rear Face	0	157	1	w/	1	14.5	14.12	1.09	0.11	0.138	0.15
	802.11a	-	Rear Face	10	157	1	w/o	1	16.0	15.89	1.03	0.07	0.054	0.06
	802.11a	-	Left Side	0	157	1	w/o	1	16.0	15.89	1.03	-0.02	0.044	0.05
	802.11a	-	Bottom Side	0	157	1	w/	1	14.5	14.12	1.09	0.11	0.105	0.11
	802.11a	-	Bottom Side	9	157	1	w/o	1	16.0	15.89	1.03	-0.01	0.028	0.03
	802.11n	HT20	Rear Face	0	149	1	w/	1	13.5	13.44	1.01	0.03	0.071	0.07
	802.11n	HT40	Rear Face	0	151	1	w/	1	13.0	12.79	1.05	0.01	0.068	0.07
	802.11ac	VH80	Rear Face	0	155	1	w/	1	12.5	12.01	1.12	0.00	0.056	0.06
	802.11n	HT20	Rear Face	10	157	1	w/o	1	16.0	15.92	1.02	-0.03	0.05	0.05
	802.11n	HT40	Rear Face	10	151	1	w/o	1	13.0	12.79	1.05	-0.06	0.039	0.04
	802.11ac	HT80	Rear Face	10	155	1	w/o	1	13.0	12.99	1.00	0.04	0.031	0.03
	802.11n	HT20	Rear Face	0	157	1	w/	0+1	16.5	16.27	1.05	0.14	0.13	0.14
	802.11n	HT20	Rear Face	10	157	1	w/o	0+1	17.0	16.52	1.12	-0.02	0.057	0.06
	802.11n	HT20	Left Side	0	157	1	w/o	0+1	17.0	16.52	1.12	0.05	0.03	0.03
	802.11n	HT20	Top Side	0	157	1	w/	0+1	16.5	16.27	1.05	0.05	0.098	0.10
	802.11n	HT20	Top Side	9	157	1	w/o	0+1	17.0	16.52	1.12	-0.05	0.025	0.03
	802.11n	HT20	Bottom Side	0	157	1	w/	0+1	16.5	16.27	1.05	0.01	0.091	0.10
	802.11n	HT20	Bottom Side	9	157	1	w/o	0+1	17.0	16.52	1.12	-0.06	0.0048	0.01
	802.11n	HT40	Rear Face	0	151	1	w/	0+1	13.5	13.28	1.05	0.03	0.051	0.05
	802.11ac	VH80	Rear Face	0	155	1	w/	0+1	13.0	12.73	1.06	0.06	0.044	0.05
	802.11n	HT40	Rear Face	10	151	1	w/o	0+1	13.5	13.02	1.12	0.04	0.022	0.02
	802.11ac	VH80	Rear Face	10	155	1	w/o	0+1	14.0	13.56	1.11	-0.02	0.016	0.02
	802.11a	-	Rear Face	0	157	2	w/	0	12.5	12.36	1.03	-0.01	0.067	0.07

## Note:

1. According to KDB 248227, when the extrapolated maximum peak SAR for the maximum output power channel is  $\leq 1.6$  W/kg and the 1g averaged SAR is  $\leq 0.8$  W/kg, WLAN SAR testing for other channels is not required.
2. SAR testing for 802.11g is not required when its maximum power is less than 1/4 dB higher than 802.11b.



## FCC SAR Test Report

### 4.7.2 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are  $\leq 1.45$  W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is  $\leq 1.10$ , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is  $< 0.80$  W/kg, repeated measurement is not required.
2. When the highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$ , or when the original or repeated measurement is  $\geq 1.45$  W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ , and the original, first or second repeated measurement is  $\geq 1.5$  W/kg, perform a third repeated measurement.

Band	Mode	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
GSM1900	GPRS12	Rear Face	512	1.2	1.18	1.02	N/A	N/A	N/A	N/A
WCDMA II	RMC12.2K	Rear Face	9262	0.934	0.916	1.02	N/A	N/A	N/A	N/A
WCDMA IV	RMC12.2K	Rear Face	1513	1.07	1.04	1.03	N/A	N/A	N/A	N/A
LTE 4	QPSK20M	Rear Face	20175	1.13	1.12	1.01	N/A	N/A	N/A	N/A
LTE 12	QPSK10M	Rear Face	23060	1.06	0.988	1.07	N/A	N/A	N/A	N/A
LTE 13	QPSK10M	Top Side	23230	0.871	0.852	1.02	N/A	N/A	N/A	N/A
LTE 17	QPSK10M	Rear Face	23800	1.25	1.22	1.02	N/A	N/A	N/A	N/A
LTE 25	QPSK20M	Top Side	26140	0.852	0.848	1.00	N/A	N/A	N/A	N/A

## FCC SAR Test Report

### 4.7.3 Simultaneous Multi-band Transmission Evaluation

#### <Estimated SAR Calculation>

According to KDB 447498 D01, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR was estimated according to following formula to result in substantially conservative SAR values of  $\leq 0.4$  W/kg to determine simultaneous transmission SAR test exclusion.

$$\text{Estimated SAR} = \frac{\text{Max. Tune up Power}_{(\text{mW})}}{\text{Min. Test Separation Distance}_{(\text{mm})}} \times \frac{\sqrt{f_{(\text{GHz})}}}{7.5}$$

If the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is used for estimated SAR calculation. When the test separation distance is  $> 50$  mm, the 0.4 W/kg is used for SAR-1g.

Mode / Band	Frequency (GHz)	Max. Tune-up Power (dBm)	Test Position	Separation Distance (mm)	Estimated SAR (W/kg)
WLAN (DTS)	2.462	18.5	Body	0	0.40
WLAN (NII)	5.8	17.0	Body	0	0.40
BT (DSS)	2.48	7.5	Body	0	0.24

#### Note:

1. The separation distance is determined from the outer housing of the EUT to the user.
2. When standalone SAR testing is not required, an estimated SAR can be applied to determine simultaneous transmission SAR test exclusion.





## FCC SAR Test Report

### <SAR Summation Analysis>

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR<sub>1g</sub> of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR<sub>1g</sub> 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR<sub>1g</sub> is greater than the SAR limit (SAR<sub>1g</sub> 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
1	GSM850 + WLAN (DTS)	Body	Rear Face	0.78	0.15	0.93	Σ SAR < 1.6, Not required
			Left Side	0.06	0.10	0.16	Σ SAR < 1.6, Not required
			Right Side	0.19	0.40	0.59	Σ SAR < 1.6, Not required
			Top Side	0.38	0.15	0.53	Σ SAR < 1.6, Not required
			Bottom Side	0.61	0.10	0.71	Σ SAR < 1.6, Not required
2	GSM850 + WLAN (NII)	Body	Rear Face	0.78	0.21	0.99	Σ SAR < 1.6, Not required
			Left Side	0.06	0.08	0.14	Σ SAR < 1.6, Not required
			Right Side	0.19	0.40	0.59	Σ SAR < 1.6, Not required
			Top Side	0.38	0.21	0.59	Σ SAR < 1.6, Not required
			Bottom Side	0.61	0.19	0.80	Σ SAR < 1.6, Not required
3	GSM850 + BT (DSS)	Body	Rear Face	0.78	0.24	1.02	Σ SAR < 1.6, Not required
			Left Side	0.06	0.24	0.30	Σ SAR < 1.6, Not required
			Right Side	0.19	0.24	0.43	Σ SAR < 1.6, Not required
			Top Side	0.38	0.24	0.62	Σ SAR < 1.6, Not required
			Bottom Side	0.61	0.24	0.85	Σ SAR < 1.6, Not required



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No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
4	GSM1900 + WLAN (DTS)	Body	Rear Face	1.22	0.15	1.37	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.23	0.10	0.33	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.07	0.40	0.47	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.85	0.15	1.00	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.27	0.10	0.37	$\Sigma$ SAR < 1.6, Not required
5	GSM1900 + WLAN (NII)	Body	Rear Face	1.22	0.21	1.43	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.23	0.08	0.31	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.07	0.40	0.47	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.85	0.21	1.06	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.27	0.19	0.46	$\Sigma$ SAR < 1.6, Not required
6	GSM1900 + BT (DSS)	Body	Rear Face	1.22	0.24	1.46	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.23	0.24	0.47	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.07	0.24	0.31	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.85	0.24	1.09	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.27	0.24	0.51	$\Sigma$ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
7	WCDMA II + WLAN (DTS)	Body	Rear Face	1.08	0.15	1.23	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.17	0.10	0.27	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.20	0.40	0.60	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.77	0.15	0.92	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.59	0.10	0.69	$\Sigma$ SAR < 1.6, Not required
8	WCDMA II + WLAN (NII)	Body	Rear Face	1.08	0.21	1.29	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.17	0.08	0.25	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.20	0.40	0.60	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.77	0.21	0.98	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.59	0.19	0.78	$\Sigma$ SAR < 1.6, Not required
9	WCDMA II + BT (DSS)	Body	Rear Face	1.08	0.24	1.32	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.17	0.24	0.41	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.20	0.24	0.44	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.77	0.24	1.01	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.59	0.24	0.83	$\Sigma$ SAR < 1.6, Not required



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No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
10	WCDMA IV + WLAN (DTS)	Body	Rear Face	1.18	0.15	1.33	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.23	0.10	0.33	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.20	0.40	0.60	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.94	0.15	1.09	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.40	0.10	0.50	$\Sigma$ SAR < 1.6, Not required
11	WCDMA IV + WLAN (NII)	Body	Rear Face	1.18	0.21	1.39	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.23	0.08	0.31	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.20	0.40	0.60	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.94	0.21	1.15	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.40	0.19	0.59	$\Sigma$ SAR < 1.6, Not required
12	WCDMA IV + BT (DSS)	Body	Rear Face	1.18	0.24	1.42	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.23	0.24	0.47	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.20	0.24	0.44	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.94	0.24	1.18	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.40	0.24	0.64	$\Sigma$ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
13	WCDMA V + WLAN (DTS)	Body	Rear Face	0.59	0.15	0.74	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.06	0.10	0.16	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.02	0.40	0.42	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.28	0.15	0.43	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.54	0.10	0.64	$\Sigma$ SAR < 1.6, Not required
14	WCDMA V + WLAN (NII)	Body	Rear Face	0.59	0.21	0.80	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.06	0.08	0.14	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.02	0.40	0.42	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.28	0.21	0.49	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.54	0.19	0.73	$\Sigma$ SAR < 1.6, Not required
15	WCDMA V + BT (DSS)	Body	Rear Face	0.59	0.24	0.83	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.06	0.24	0.30	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.02	0.24	0.26	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.28	0.24	0.52	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.54	0.24	0.78	$\Sigma$ SAR < 1.6, Not required



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No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
16	LTE 2 + WLAN (DTS)	Body	Rear Face	0.56	0.15	0.71	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.17	0.10	0.27	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.14	0.40	0.54	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.78	0.15	0.93	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.42	0.10	0.52	$\Sigma$ SAR < 1.6, Not required
17	LTE 2 + WLAN (NII)	Body	Rear Face	0.56	0.21	0.77	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.17	0.08	0.25	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.14	0.40	0.54	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.78	0.21	0.99	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.42	0.19	0.61	$\Sigma$ SAR < 1.6, Not required
18	LTE 2 + BT (DSS)	Body	Rear Face	0.56	0.24	0.80	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.17	0.24	0.41	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.14	0.24	0.38	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.78	0.24	1.02	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.42	0.24	0.66	$\Sigma$ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
19	LTE 4 + WLAN (DTS)	Body	Rear Face	1.15	0.15	1.30	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.17	0.10	0.27	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.06	0.40	0.46	$\Sigma$ SAR < 1.6, Not required
			Top Side	1.13	0.15	1.28	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.55	0.10	0.65	$\Sigma$ SAR < 1.6, Not required
20	LTE 4 + WLAN (NII)	Body	Rear Face	1.15	0.21	1.36	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.17	0.08	0.25	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.06	0.40	0.46	$\Sigma$ SAR < 1.6, Not required
			Top Side	1.13	0.21	1.34	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.55	0.19	0.74	$\Sigma$ SAR < 1.6, Not required
21	LTE 4 + BT (DSS)	Body	Rear Face	1.15	0.24	1.39	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.17	0.24	0.41	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.06	0.24	0.30	$\Sigma$ SAR < 1.6, Not required
			Top Side	1.13	0.24	1.37	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.55	0.24	0.79	$\Sigma$ SAR < 1.6, Not required



# FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
22	LTE 5 + WLAN (DTS)	Body	Rear Face	0.69	0.15	0.84	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.03	0.10	0.13	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.02	0.40	0.42	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.43	0.15	0.58	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.32	0.10	0.42	$\Sigma$ SAR < 1.6, Not required
23	LTE 5 + WLAN (NII)	Body	Rear Face	0.69	0.21	0.90	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.03	0.08	0.11	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.02	0.40	0.42	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.43	0.21	0.64	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.32	0.19	0.51	$\Sigma$ SAR < 1.6, Not required
24	LTE 5 + BT (DSS)	Body	Rear Face	0.69	0.24	0.93	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.03	0.24	0.27	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.02	0.24	0.26	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.43	0.24	0.67	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.32	0.24	0.56	$\Sigma$ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
25	LTE 7 + WLAN (DTS)	Body	Rear Face	0.66	0.15	0.81	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.32	0.10	0.42	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.01	0.40	0.41	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.45	0.15	0.60	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.29	0.10	0.39	$\Sigma$ SAR < 1.6, Not required
26	LTE 7 + WLAN (NII)	Body	Rear Face	0.66	0.21	0.87	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.32	0.08	0.40	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.01	0.40	0.41	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.45	0.21	0.66	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.29	0.19	0.48	$\Sigma$ SAR < 1.6, Not required
27	LTE 7 + BT (DSS)	Body	Rear Face	0.66	0.24	0.90	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.32	0.24	0.56	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.01	0.24	0.25	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.45	0.24	0.69	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.29	0.24	0.53	$\Sigma$ SAR < 1.6, Not required



# FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
28	LTE 12 + WLAN (DTS)	Body	Rear Face	1.08	0.15	1.23	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.03	0.10	0.13	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.48	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.79	0.15	0.94	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.68	0.10	0.78	$\Sigma$ SAR < 1.6, Not required
29	LTE 12 + WLAN (NII)	Body	Rear Face	1.08	0.21	1.29	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.03	0.08	0.11	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.08	0.40	0.48	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.79	0.21	1.00	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.68	0.19	0.87	$\Sigma$ SAR < 1.6, Not required
30	LTE 12 + BT (DSS)	Body	Rear Face	1.08	0.24	1.32	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.03	0.24	0.27	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.08	0.24	0.32	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.79	0.24	1.03	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.68	0.24	0.92	$\Sigma$ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
31	LTE 13 + WLAN (DTS)	Body	Rear Face	0.63	0.15	0.78	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.14	0.10	0.24	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.01	0.40	0.41	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.88	0.15	1.03	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.81	0.10	0.91	$\Sigma$ SAR < 1.6, Not required
32	LTE 13 + WLAN (NII)	Body	Rear Face	0.63	0.21	0.84	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.14	0.08	0.22	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.01	0.40	0.41	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.88	0.21	1.09	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.81	0.19	1.00	$\Sigma$ SAR < 1.6, Not required
33	LTE 13 + BT (DSS)	Body	Rear Face	0.63	0.24	0.87	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.14	0.24	0.38	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.01	0.24	0.25	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.88	0.24	1.12	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.81	0.24	1.05	$\Sigma$ SAR < 1.6, Not required



# FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
34	LTE 17 + WLAN (DTS)	Body	Rear Face	1.26	0.15	1.41	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.26	0.10	0.36	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.12	0.40	0.52	$\Sigma$ SAR < 1.6, Not required
			Top Side	1.21	0.15	1.36	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	1.06	0.10	1.16	$\Sigma$ SAR < 1.6, Not required
35	LTE 17 + WLAN (NII)	Body	Rear Face	1.26	0.21	1.47	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.26	0.08	0.34	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.12	0.40	0.52	$\Sigma$ SAR < 1.6, Not required
			Top Side	1.21	0.21	1.42	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	1.06	0.19	1.25	$\Sigma$ SAR < 1.6, Not required
36	LTE 17 + BT (DSS)	Body	Rear Face	1.26	0.24	1.50	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.26	0.24	0.50	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.12	0.24	0.36	$\Sigma$ SAR < 1.6, Not required
			Top Side	1.21	0.24	1.45	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	1.06	0.24	1.30	$\Sigma$ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
37	LTE 25 + WLAN (DTS)	Body	Rear Face	0.85	0.15	1.00	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.15	0.10	0.25	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.12	0.40	0.52	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.86	0.15	1.01	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.76	0.10	0.86	$\Sigma$ SAR < 1.6, Not required
38	LTE 25 + WLAN (NII)	Body	Rear Face	0.85	0.21	1.06	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.15	0.08	0.23	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.12	0.40	0.52	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.86	0.21	1.07	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.76	0.19	0.95	$\Sigma$ SAR < 1.6, Not required
39	LTE 25 + BT (DSS)	Body	Rear Face	0.85	0.24	1.09	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.15	0.24	0.39	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.12	0.24	0.36	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.86	0.24	1.10	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.76	0.24	1.00	$\Sigma$ SAR < 1.6, Not required



# FCC SAR Test Report

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
40	LTE 26 + WLAN (DTS)	Body	Rear Face	0.73	0.15	0.88	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.03	0.10	0.13	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.65	0.15	0.80	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.65	0.10	0.75	$\Sigma$ SAR < 1.6, Not required
41	LTE 26 + WLAN (NII)	Body	Rear Face	0.73	0.21	0.94	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.03	0.08	0.11	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.00	0.40	0.40	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.65	0.21	0.86	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.65	0.19	0.84	$\Sigma$ SAR < 1.6, Not required
42	LTE 26 + BT (DSS)	Body	Rear Face	0.73	0.24	0.97	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.03	0.24	0.27	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.00	0.24	0.24	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.65	0.24	0.89	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.65	0.24	0.89	$\Sigma$ SAR < 1.6, Not required

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
43	LTE 41 + WLAN (DTS)	Body	Rear Face	0.78	0.15	0.93	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.20	0.10	0.30	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.09	0.40	0.49	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.76	0.15	0.91	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.69	0.10	0.79	$\Sigma$ SAR < 1.6, Not required
44	LTE 41 + WLAN (NII)	Body	Rear Face	0.78	0.21	0.99	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.20	0.08	0.28	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.09	0.40	0.49	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.76	0.21	0.97	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.69	0.19	0.88	$\Sigma$ SAR < 1.6, Not required
45	LTE 41 + BT (DSS)	Body	Rear Face	0.78	0.24	1.02	$\Sigma$ SAR < 1.6, Not required
			Left Side	0.20	0.24	0.44	$\Sigma$ SAR < 1.6, Not required
			Right Side	0.09	0.24	0.33	$\Sigma$ SAR < 1.6, Not required
			Top Side	0.76	0.24	1.00	$\Sigma$ SAR < 1.6, Not required
			Bottom Side	0.69	0.24	0.93	$\Sigma$ SAR < 1.6, Not required

Test Engineer : Ulysses Liu, and Willy Chang





### 5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1013	Apr. 25, 2013	2 Years
System Validation Dipole	SPEAG	D835V2	4d121	Apr. 25, 2013	2 Years
System Validation Dipole	SPEAG	D1750V2	1055	Aug. 27, 2013	2 Years
System Validation Dipole	SPEAG	D1900V2	5d036	Jan. 21, 2013	2 Years
System Validation Dipole	SPEAG	D2450V2	737	Aug. 21, 2014	2 Years
System Validation Dipole	SPEAG	D2600V2	1020	Jan. 18, 2013	2 Years
System Validation Dipole	SPEAG	D5GHzV2	1019	Aug. 25, 2014	2 Years
Dosimetric E-Field Probe	SPEAG	EX3DV4	3650	Jul. 28, 2014	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3971	Mar. 31, 2014	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1277	Jul. 22, 2014	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1431	Mar. 24, 2014	1 Year
Wireless Communication Test Set	Agilent	E5515C	MY50266628	Dec. 05, 2013	2 Years
Radio Communication Analyzer	Anritsu	MT8802C	6201381727	May 15, 2014	1 Year
EXA Spectrum Analyzer	Agilent	N9010A	MY53470455	Feb. 22, 2014	1 Year
MXG Analog Signal Generator	Agilent	N5181A	MY50143868	Jun. 26, 2014	1 Year
Power Meter	Anritsu	ML2495A	1218009	Jun. 26, 2014	1 Year
Power Sensor	Anritsu	MA2411B	1207252	Jun. 26, 2014	1 Year
Thermometer	YFE	YF-160A	110600361	Feb. 27, 2014	1 Year



# FCC SAR Test Report

## 6. Measurement Uncertainty

Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	C <sub>i</sub> (1g)	Standard Uncertainty (1g)	V <sub>i</sub>
<b>Measurement System</b>						
Probe Calibration	6.0	Normal	1	1	± 6.0 %	∞
Axial Isotropy	4.7	Rectangular	√3	0.7	± 1.9 %	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	± 3.9 %	∞
Boundary Effects	1.0	Rectangular	√3	1	± 0.6 %	∞
Linearity	4.7	Rectangular	√3	1	± 2.7 %	∞
System Detection Limits	1.0	Rectangular	√3	1	± 0.6 %	∞
Readout Electronics	0.6	Normal	1	1	± 0.6 %	∞
Response Time	0.0	Rectangular	√3	1	± 0.0 %	∞
Integration Time	1.7	Rectangular	√3	1	± 1.0 %	∞
RF Ambient Noise	3.0	Rectangular	√3	1	± 1.7 %	∞
RF Ambient Reflections	3.0	Rectangular	√3	1	± 1.7 %	∞
Probe Positioner	0.5	Rectangular	√3	1	± 0.3 %	∞
Probe Positioning	2.9	Rectangular	√3	1	± 1.7 %	∞
Max. SAR Eval.	2.3	Rectangular	√3	1	± 1.3 %	∞
<b>Test Sample Related</b>						
Device Positioning	3.9	Normal	1	1	± 3.9 %	31
Device Holder	2.7	Normal	1	1	± 2.7 %	19
Power Drift	5.0	Rectangular	√3	1	± 2.9 %	∞
<b>Phantom and Setup</b>						
Phantom Uncertainty	4.0	Rectangular	√3	1	± 2.3 %	∞
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	± 1.8 %	∞
Liquid Conductivity (Meas.)	5.0	Normal	1	0.64	± 3.2 %	29
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	± 1.7 %	∞
Liquid Permittivity (Meas.)	5.0	Normal	1	0.6	± 3.0 %	29
<b>Combined Standard Uncertainty</b>					± 11.7 %	
<b>Expanded Uncertainty (K=2)</b>					<b>± 23.4 %</b>	

**Uncertainty budget for frequency range 300 MHz to 3 GHz**



# FCC SAR Test Report

A D T

Error Description	Uncertainty Value (±%)	Probability Distribution	Divisor	Ci (1g)	Standard Uncertainty (1g)	Vi
<b>Measurement System</b>						
Probe Calibration	6.55	Normal	1	1	± 6.55 %	∞
Axial Isotropy	4.7	Rectangular	√3	0.7	± 1.9 %	∞
Hemispherical Isotropy	9.6	Rectangular	√3	0.7	± 3.9 %	∞
Boundary Effects	2.0	Rectangular	√3	1	± 1.2 %	∞
Linearity	4.7	Rectangular	√3	1	± 2.7 %	∞
System Detection Limits	1.0	Rectangular	√3	1	± 0.6 %	∞
Readout Electronics	0.3	Normal	1	1	± 0.3 %	∞
Response Time	0.8	Rectangular	√3	1	± 0.5 %	∞
Integration Time	2.6	Rectangular	√3	1	± 1.5 %	∞
RF Ambient Noise	3.0	Rectangular	√3	1	± 1.7 %	∞
RF Ambient Reflections	3.0	Rectangular	√3	1	± 1.7 %	∞
Probe Positioner	0.8	Rectangular	√3	1	± 0.5 %	∞
Probe Positioning	9.9	Rectangular	√3	1	± 5.7 %	∞
Max. SAR Eval.	4.0	Rectangular	√3	1	± 2.3 %	∞
<b>Test Sample Related</b>						
Device Positioning	3.9	Normal	1	1	± 3.9 %	31
Device Holder	2.7	Normal	1	1	± 2.7 %	19
Power Drift	5.0	Rectangular	√3	1	± 2.9 %	∞
<b>Phantom and Setup</b>						
Phantom Uncertainty	4.0	Rectangular	√3	1	± 2.3 %	∞
Liquid Conductivity (Target)	5.0	Rectangular	√3	0.64	± 1.8 %	∞
Liquid Conductivity (Meas.)	5.0	Normal	1	0.64	± 3.2 %	30
Liquid Permittivity (Target)	5.0	Rectangular	√3	0.6	± 1.7 %	∞
Liquid Permittivity (Meas.)	5.0	Normal	1	0.6	± 3.0 %	30
<b>Combined Standard Uncertainty</b>					± 13.4 %	
<b>Expanded Uncertainty (K=2)</b>					<b>± 26.8 %</b>	

## Uncertainty budget for frequency range 3 GHz to 6 GHz



## FCC SAR Test Report

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### 7. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

**Taiwan HwaYa EMC/RF/Safety/Telecom Lab:**

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The road map of all our labs can be found in our web site also.

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