

FCC SAR Test Report

Applicant: Chengdu Xiaochen Technology Co., Ltd

EUT Description: VERTU META3 5G DIGITAL MOBILE PHONE

Model: VTL-202403

Brand: VERTU

FCC ID: 2BGHD-VTL202403

Standards: FCC 47CFR §2.1093

Date of Receipt: 2025/08/28

Date of Test: 2025/09/22 to 2025/11/07

Date of Issue: 2025/11/11

TOWE. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

the results documented in this report apply only the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of TOWE, the test report shall not be reproduced except in full.



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Revision History

Rev.	Issue Date	Description	Revised by
01	2025/11/11	Original	Jack Li

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1 Summary of Test Results

Band	Highest SAR(W/kg)			
	Head (1g)	Body-worn (1g)	Hotspot (1g)	Product specific (10g)
GSM850	0.85	0.72	0.72	-
GSM1900	1.15	0.55	0.55	-
WCDMA Band II	1.19	0.52	0.52	-
WCDMA Band IV	1.24	0.47	0.47	-
WCDMA Band V	1.11	0.69	0.69	-
LTE Band 7	0.79	0.26	0.26	-
LTE Band 12/17	1.23	0.82	0.82	-
LTE Band 25/2	1.11	0.46	0.46	-
LTE Band 26/5	1.17	1.00	1.00	-
LTE Band 66/4	1.27	0.45	0.45	-
LTE Band 41/38	0.97	0.60	0.60	-
LTE Band 42	1.14	0.51	0.51	-
5G NR n5	1.06	0.71	0.71	-
5G NR n7	0.80	0.18	0.18	-
5G NR n25/2	1.33	0.44	0.44	-
5G NR n41/38	1.39	0.96	0.96	-
5G NR n66	1.37	0.42	0.42	-
5G NR n77/78	1.36	0.47	0.47	-
WI-FI (2.4GHz)	1.06	0.76	0.76	-
WI-FI (5GHz)	1.29	0.31	0.31	0.66
BT	0.40	0.14	0.14	-
NFC	-	-	-	0.01
Highest Simultaneous Transmission SAR (W/kg)				
Scenario	Head (1g)	Body-worn (1g)	Hotspot (1g)	Product specific (10g)
Summed SAR	1.58	1.42	1.42	0.66

Remark:

- 1) This device supports LTE B2/B4/B5/B7/B12/B17/B25/B26/B38/B41/B42/B66. Since the supported frequency span for LTE B2/B4/B5/B17/B38 falls completely within the support's frequency span for LTE B25/B66/B26/B12/B41, both LTE bands have the same target power, and both LTE bands share the same transmission path, therefore SAR was only assessed for LTE B25/B66/B26/B12/B41.
- 2) This device supports 5G NR n2/n5/n7/n25/n38/n41/n66/n77/n78. Since the supported frequency span for 5G NR n2/n38/n78 falls completely within the support's frequency span for 5G NR n25/n41/n77, both 5G NR bands have the same target power, and both LTE bands share the same transmission path, therefore SAR was only assessed for 5G NR n25/n41/n77.

2 Guidance Applied

FCC 47CFR §2.1093

ANSI/IEEE C95.1-1992

IEEE 1528-2013

FCC KDB 941225 D01 3G SAR Measurement Procedures v03r01

FCC KDB 941225 D05 SAR for LTE Devices v02r05

FCC KDB 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02

FCC KDB 941225 D06 Hotspot Mode SAR v02r01

FCC KDB 248227 D01 SAR Guidance for IEEE 802.11 Wi-Fi SAR v02r02

FCC KDB 648474 D04 Handset SAR v01r03

FCC KDB 447498 D01 General RF Exposure Guidance v06

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04

FCC KDB 865664 D02 RF Exposure Reporting v01r02

FCC KDB 616217 D04 SAR for laptop and tablets v01r02

3 Lab Information

3.1 Testing Location

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014

Tel.: +86-755-27212361

Contact Email: info@towewireless.com

3.2 Test Facility / Accreditations

A2LA (Certificate Number: 7088.01)

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1353.

ISED CAB identifier: CN0152

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0152

Company Number: 31000

3.3 Ambient Condition

Temperature: 18°C~25°C

Relative Humidity: 30%~75%

4 Client Information

4.1 Applicant

Applicant:	Chengdu Xiaochen Technology Co., Ltd
Address:	3rd Floor, Building B15, Ganzhizhongguo Chengdu Center, No.777 Huafu Avenue Shuangliu County, Chengdu City, Sichuan Province, China

4.2 Manufacturer

Manufacturer:	VERTU INTERNATIONAL CORPORATION LIMITED
Address:	Chase Business Centre 39-41 Chase Side London England N14 5BP

5 Product Information

EUT Description	VERTU META3 5G DIGITAL MOBILE PHONE	
Model	VTL-202403	
Brand	VERTU	
Hardware Version	P10	
Software Version	15.0.1_6.01.01.01	
IMEI	357125130005543 357125130005576 357125130004884 357125130005634 357125130010576 357125130004892	
Device Capabilities:		
Band	Frequency Range (MHz)	Modulation Type
GSM850	824~849	GSM, GPRS, EGPRS
GSM1900	1850~1910	
WCDMA Band II	1850~1910	RMC/AMR, HSDPA, HSUPA, DC-HSDPA, HSPA+
WCDMA Band IV	1710~1755	
WCDMA Band V	824~849	
LTE Band 2	1850~1910	QPSK 16QAM 64QAM
LTE Band 4	1710~1755	
LTE Band 5	824~849	
LTE Band 7	2500~2570	
LTE Band 12	699~716	
LTE Band 17	704~716	
LTE Band 25	1850~1915	
LTE Band 26	814~849	
LTE Band 38	2570~2620	
LTE Band 41	2496~2690	
LTE Band 42	3450~3550	
LTE Band 66	1710~1780	DFT-s-OFDM(PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM) CP-OFDM(QPSK, 16QAM, 64QAM, 256QAM)
NR Band n2	1850~1910	
NR Band n5	824~849	
NR Band n7	2500~2570	
NR Band n25	1850~1915	
NR Band n38	2570~2620	
NR Band n41	2496~2690	
NR Band n66	1710~1780	
NR Band n77	3450~3550	
	3700~3980	
NR Band n78	3450~3550	
	3700~3800	
NFC	13.56	ASK
Bluetooth	2400~2483.5	GFSK, π/4DQPSK, 8DPSK
Wi-Fi 2.4G	2400~2483.5	802.11b/g/n/11ax/be
Wi-Fi 5G	5150~5250	802.11a/n/ac/ax/be
	5250~5350	
	5470~5725	
	5725~5850	
Antenna Type	☐ External, ☒ Integrated	

Remark: The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description.

5.1 Antenna Locations

The detailed antenna location information can refer to Appendix D.

Note:

- 1) The overall dimensions of this device are > 9 x 5 cm. A diagram showing the location of the device antennas can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix D. Since the display diagonal dimensions of this device is > 150 mm and <200 mm, it is considered a "phablet." Exact antenna dimensions and separation distances are shown in the Appendix D.
- 2) SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot Mode.

According to the distance between antennas and the sides of the EUT we can draw the conclusion that:

EUT Sides for SAR Testing							
Antenna	Exposure Conditions	Front	Back	Left	Right	Top	Bottom
Ant0	Hotspot Product specific	Yes	Yes	Yes	No	No	Yes
Ant1	Hotspot Product specific	Yes	Yes	Yes	No	No	Yes
Ant2	Hotspot Product specific	Yes	Yes	No	Yes	No	Yes
Ant3	Hotspot Product specific	Yes	Yes	No	Yes	No	No
Ant4	Hotspot Product specific	Yes	Yes	No	Yes	No	No
Ant6	Hotspot Product specific	Yes	Yes	No	Yes	Yes	No
Ant7	Hotspot Product specific	Yes	Yes	No	Yes	Yes	No
Ant8	Hotspot Product specific	Yes	Yes	Yes	No	Yes	No
Ant9	Hotspot Product specific	Yes	Yes	Yes	No	Yes	No
Ant10	Hotspot Product specific	Yes	Yes	Yes	No	Yes	No
Ant11	Hotspot Product specific	Yes	Yes	Yes	No	No	No

Table 1: EUT Sides for SAR Test

5.2 Power reduction specification

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

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

The detailed power reduction information can refer to the conducted RF output power table.

5.3 LTE CA additional specification

The device supports intra-band contiguous uplink LTE Carrier Aggregation (CA). When carrier aggregation applies, implementation and measurement details for the following are necessary.

- a) Intra-band carrier aggregation requirements for uplink.

SAR test procedure for intra-band contiguous UL LTE CA is as below:

- 1) Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05

- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.

- 2) SAR for UL CA is required in each exposure condition and frequency band combination

- 3) For this device, as the maximum output for Intra-band uplink LTE CA is $\leq$ standalone LTE mode (without CA),

- PCC is configured according to the highest standalone SAR configuration tested.
- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC

- 4) When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)

- 5) UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

6 RF Exposure Limits

Human Exposure	Uncontrolled Environment General Population (W/kg) or (mW/g)	Controlled Environment Occupational (W/kg) or (mW/g)
Spatial Peak SAR¹ (Brain/Trunk)	1.6	8.0
Spatial Average SAR² (Whole Body)	0.08	0.4
Spatial Peak SAR³ (Hands/Feet/Ankle/Wrist)	4.0	20.0

Note:

1, The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

2, The Spatial Average value of the SAR averaged over the whole body.

3, The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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

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

7 Introduction

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

7.1 SAR Definition

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

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

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

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

Where:

σ is the conductivity of the tissue material (S/m)

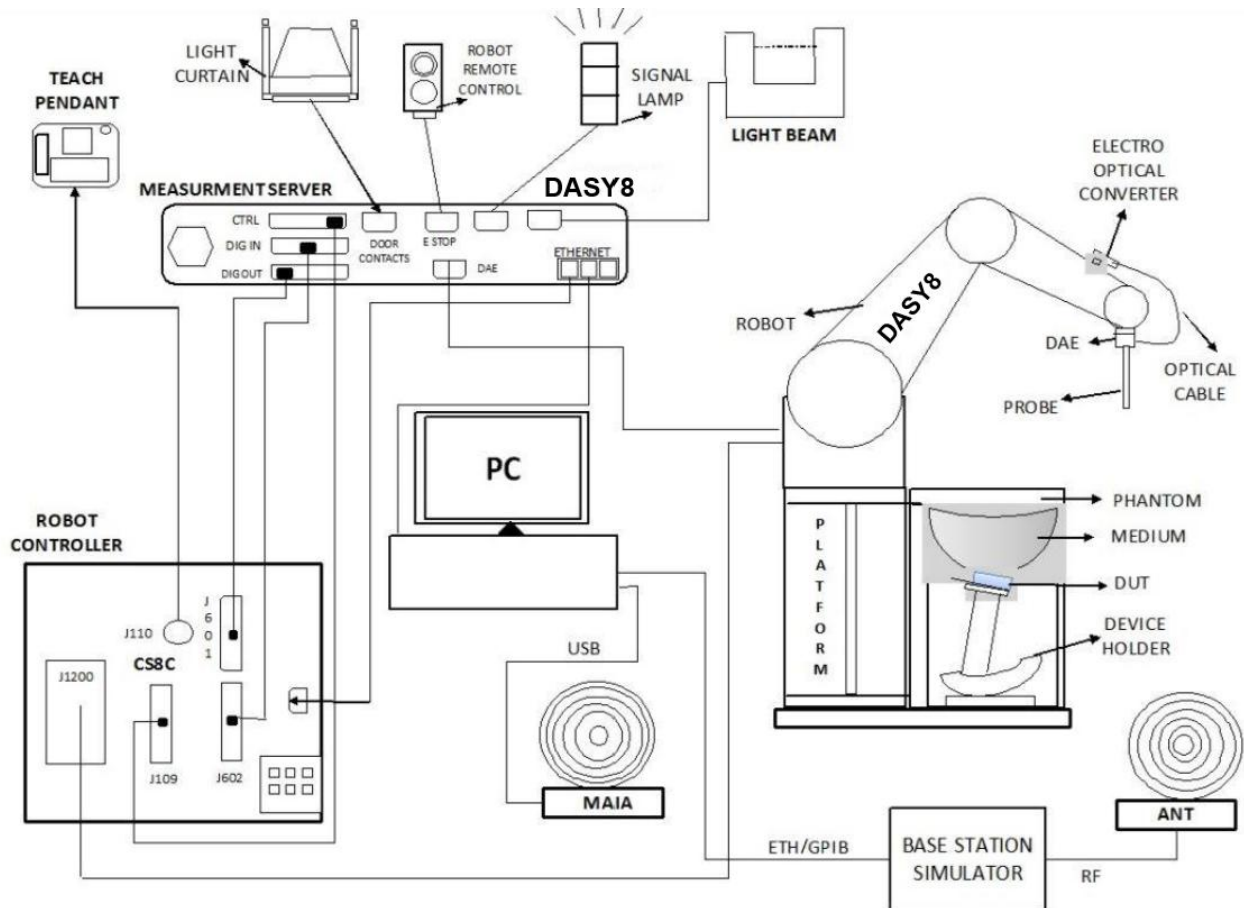
ρ is the mass density of the tissue material (kg/m³)

E is the RMS electrical field strength (V/m)

8 SAR Measurements System

8.1 The SAR Measurement Set-up

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



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Windows 11 and the DASY8 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

8.2 E-Field Probe

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm

8.3 Data Acquisition Electronics (DAE)

	The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock. The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.
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8.4 Phantom

SAM Twin Phantom:

Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	Approx. 25 liters	
Wooden Support	SPEAG standard phantom table	

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

ELI Phantom:

Material	Vinylester, glass fiber reinforced (VE-GF)	
Shell Thickness	2.0 ± 0.2 mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	approx. 30 liters	
Wooden Support	SPEAG standard phantom table	
The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.		

8.5 Device Holder

The SAR measured in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5mm distance, a positioning uncertainty of $\pm 0.5\text{mm}$ would produce uncertainty in the SAR of $\pm 20\%$. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions at which the devices must be measured are defined by the standards. The DASY8 device holder along with the associated adaptors / options is designed to accommodate different types & sizes (laptops, tablets, phones) of test devices and yet provide accurate and repeatable positioning as described in the test standards.

The device holder is available in two configurations (see Figure 3.13.1): for hand held transmitters (mobile phones) – MD4HHTV5 – Mounting Device for Hand-Held Transmitters and for Body-Worn transmitters – MD4LAP5 – Mounting Device for laptops and other body worn transmitters.



(a) MD4HHTV5



(b) MD4LAPV5

Figure 3.13.1: Mounting Device for Hand-Held Devices and Laptop / Body-Worn Devices

8.6 Measurement procedure

8.6.1 Power reference measurement

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

8.6.2 Area scan

Measurement procedures for evaluating SAR from wireless handsets typically start with a coarse measurement grid to determine the approximate location of the local peak SAR values. This is known as the area-scan procedure. In addition, identify the positions of any local maxima with SAR values within 2 dB of the maximum value, and that will not be within the zoom scan of other peaks. Additional zoom scans shall be measured for such peaks only when the primary peak is within 2 dB of the SAR compliance limit.

Area scan parameters measurement as below:

Parameter	DUT transmit frequency being tested	
	$f \leq 3 \text{ GHz}$	$3 \text{ GHz} < f \leq 10 \text{ GHz}$
Maximum distance between the measured points (geometric centre of the sensors) and the inner phantom surface (z_{M1} in Figure 20 in mm)	5 ± 1	$\delta \ln(2)/2 \pm 0,5^a$
Maximum spacing between adjacent measured points in mm (see O.8.3.1) ^b	20, or half of the corresponding zoom scan length, whichever is smaller	$60/f$, or half of the corresponding zoom scan length, whichever is smaller
Maximum angle between the probe axis and the phantom surface normal (α in Figure 20) ^c	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Tolerance in the probe angle	1°	1°
^a δ is the penetration depth for a plane-wave incident normally on a planar half-space. ^b See Clause O.8 on how Δx and Δy may be selected for individual area scan requirements. ^c The probe angle relative to the phantom surface normal is restricted due to the degradation in the measurement accuracy in fields with steep spatial gradients. The measurement accuracy decreases with increasing probe angle and increasing frequency. This is the reason for the tighter probe angle restriction at frequencies above 3 GHz.		

8.6.3 Zoom Scan

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

Zoom Scan parameters measurement as below:

Parameter	DUT transmit frequency being tested	
	$f \leq 3 \text{ GHz}$	$3 \text{ GHz} < f \leq 10 \text{ GHz}$
Maximum distance between the closest measured points and the phantom surface (z_{M1} in Figure 20 and Table 3, in mm)	5	$\delta \ln(2)/2^a$
Maximum angle between the probe axis and the phantom surface normal (α in Figure 20)	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Maximum spacing between measured points in the x - and y -directions (Δx and Δy , in mm)	8	$24/f^b$
For uniform grids: Maximum spacing between measured points in the direction normal to the phantom shell (Δz_1 in Figure 20, in mm)	5	$10/(f - 1)$
For graded grids: Maximum spacing between the two closest measured points in the direction normal to the phantom shell (Δz_1 in Figure 20, in mm)	4	$12/f$
For graded grids: Maximum incremental increase in the spacing between measured points in the direction normal to the phantom shell ($R_z = \Delta z_2/\Delta z_1$ in Figure 20)	1,5	1,5
Minimum edge length of the zoom scan volume in the x - and y -directions (L_z in O.8.3.2, in mm)	30	22
Minimum edge length of the zoom scan volume in the direction normal to the phantom shell (L_h in O.8.3.2 in mm)	30	22
Tolerance in the probe angle	1°	1°
^a δ is the penetration depth for a plane-wave incident normally on a planar half-space.		
^b This is the maximum spacing allowed, which might not work for all circumstances.		

8.6.4 Power Drift Measurement

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. Several drift measurements are possible for one reference measurement. This allows a user to monitor the power drift of the device under test that must remain within a maximum variation of $\pm 5\%$.

9 Test Equipment list

Manufacturer	Equipment Name	Model	Serial Number	Calibration Date	Due Date of calibration
SPEAG	ELI	ELI V8.0	2227	NCR	NCR
SPEAG	Twin Phantom	SAM	2168	NCR	NCR
SPEAG	Twin Phantom	SAM	2173	NCR	NCR
SPEAG	E-Field Probe	EX3DV4	7858	2025/01/15	2026/01/14
SPEAG	E-Field Probe	EX3DV4	7858	2025/02/20	2026/02/19
SPEAG	E-Field Probe	EX3DV4	7383	2025/03/14	2026/03/13
SPEAG	E-Field Probe	EX3DV4	3624	2025/01/15	2026/01/14
SPEAG	Data Acquisition Electronics	DAE4	1846	2024/12/10	2025/12/09
SPEAG	Data Acquisition Electronics	DAE4	1847	2024/12/31	2025/12/30
SPEAG	System Validation Kits	CLA13	1043	2024/01/03	2027/01/02
SPEAG	System Validation Kits	D750V3	1231	2023/05/04	2026/05/03
SPEAG	System Validation Kits	D835V2	4d302	2023/02/06	2026/02/05
SPEAG	System Validation Kits	D1750V2	1115	2023/03/23	2026/03/22
SPEAG	System Validation Kits	D1900V2	512	2023/03/24	2026/03/23
SPEAG	System Validation Kits	D2450V2	1099	2023/02/02	2026/02/01
SPEAG	System Validation Kits	D2600V2	1094	2023/03/23	2026/03/22
SPEAG	System Validation Kits	D3500V2	1150	2023/05/15	2026/05/14
SPEAG	System Validation Kits	D3700V2	1127	2023/05/10	2026/05/09
SPEAG	System Validation Kits	D3900V2	1099	2023/05/15	2026/05/14
SPEAG	System Validation Kits	D5GHzV2	1371	2023/02/03	2026/02/02
SPEAG	Dielectric parameter probes	DAK3.5	1341	2025/07/14	2026/07/13
SPEAG	Dielectric parameter probes	DAK12	1199	2025/01/20	2026/01/19
Agilent	Network Analyzer	E5071B	MY42302220	2025/03/11	2026/03/10
Anritsu	Radio Communication Analyzer	MT8821C	6262170463	2025/03/11	2026/03/10
Anritsu	Radio Communication Analyzer	MT8821C	6261991091	2025/03/11	2026/03/10
R&S	Wideband Radio Communication Tester	CMW500	153024	2025/03/11	2026/03/10
Talent Microwave	Directional Coupler	TC-05180-10S	220420003	NCR	NCR
R&S	Signal Generator	SMR20	100648	2025/03/11	2026/03/10
QiJi	Preamplifier	YX28982302	TOWE-EQ-SR-020	NCR	NCR
QiJi	Preamplifier	YX28982301	TOWE-EQ-SR-021	NCR	NCR
R&S	Power Sensor	NRP-Z21	101651	2025/03/11	2026/03/10
R&S	Power Sensor	NRP-Z21	104189	2025/03/11	2026/03/10
HiSiDiKe	Thermometer	TP300	TOWE-EQ-SR-023	2025/03/12	2026/03/11
BingYu	Temperature and Humidity Indicator	HTC-1	TOWE-EQ-SR-025	2025/06/04	2026/06/03

BingYu	Temperature and Humidity Indicator	HTC-1	TOWE-EQ-SR-024	2025/03/13	2026/03/12
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Note:

1. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged or repaired during the interval.
2. The justification data of dipole can be found in Appendix C. The return loss is $< -20\text{dB}$, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

10 SAR measurement variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. 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.

The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 or 2 W/kg (1-g or 10-g respectively); steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 or 2 W/kg (1-g or 10-g respectively), repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 or 3.6 W/kg ($\sim 10\%$ from the 1-g or 10-g respective SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 or 3.75 W/kg (1-g or 10-g respectively) and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

11 Description of Test Position

11.1 Ear Reference Point

Figure 11-2 shows the front, back and side views of the SAM Twin Phantom. The point “M” is the reference point for the center of the mouth, “LE” is the left ear reference point (ERP), and “RE” is the right ERP. The ERP is 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 11-1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (see Figure 11-1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning.

11.2 Handset Reference Point

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The device under test was placed in a normal operating position with the acoustic output located along the “vertical centerline” on the front of the device aligned to the “ear reference point” (see Figure 11-3). The acoustic output was then located at the same level as the center of the ear reference point. The device under test was positioned so that the “vertical centerline” was bisecting the front surface of the handset at its top and bottom edges, positioning the “ear reference point” on the outer surface of the both the left and right head phantoms on the ear reference point.

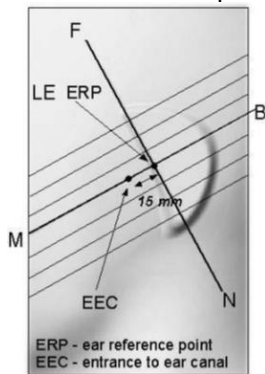


Figure 11-1: Close-up side view of phantom showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations.



Figure 11-2: Front, back and side view of SAM Twin Phantom.

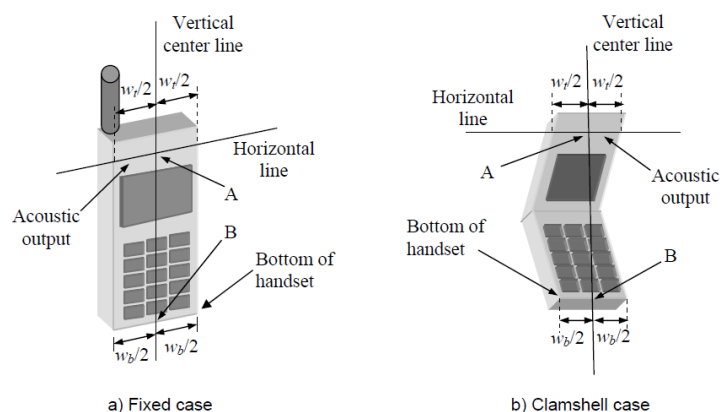


Figure 11-3: Handset vertical and horizontal reference lines

11.3 Definition of the cheek position

The test device was positioned with the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 11-4), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.

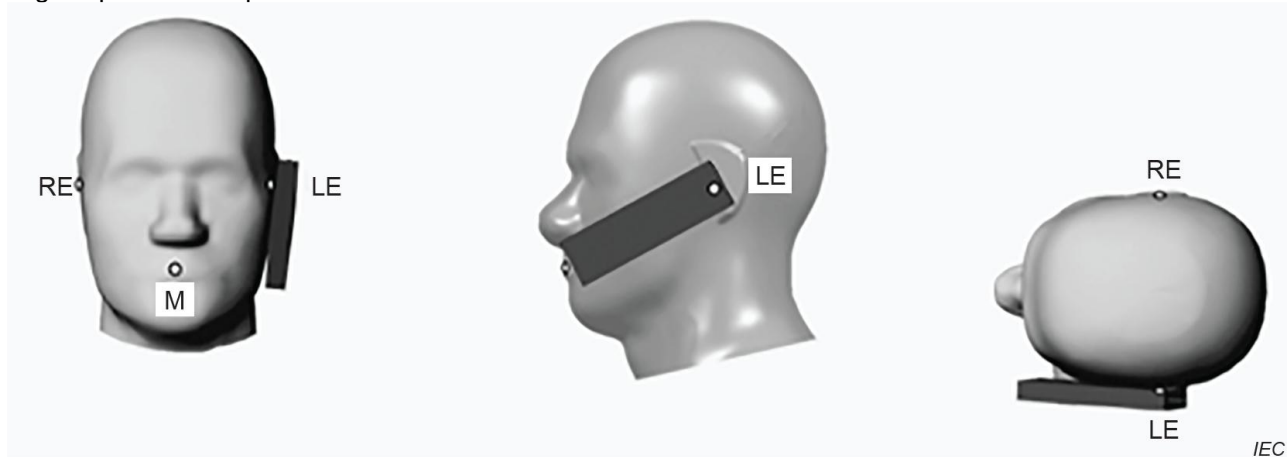


Figure 11-4: Front, Side and Top View of Cheek or Touch Position

- 1) Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 11-4), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
- 2) Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
- 3) While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
- 4) Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
- 5) While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 11-4. The actual rotation angles should be documented in the test report.

11.4 Definition of the tilt position

Figure 11-5. shows tilted position. Place the device in the cheek position. Then while maintaining the orientation of the device, retract the device parallel to the reference plane far enough away from the phantom to enable a rotation of the device by 15°.

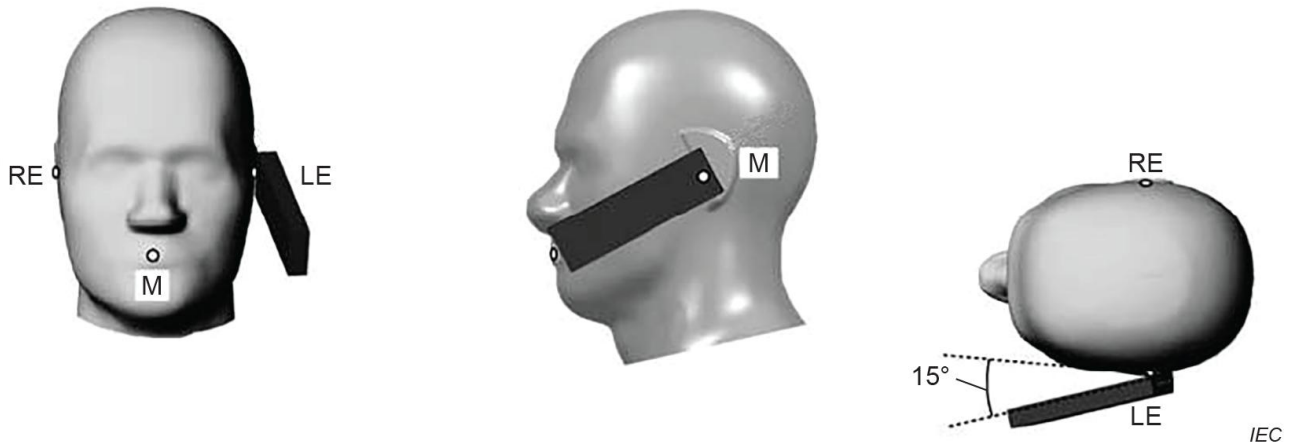


Figure 11-5: Front, Side and Top View of Tilt 15° Position

11.5 Body-worn accessory exposure conditions

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 11-6). Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

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

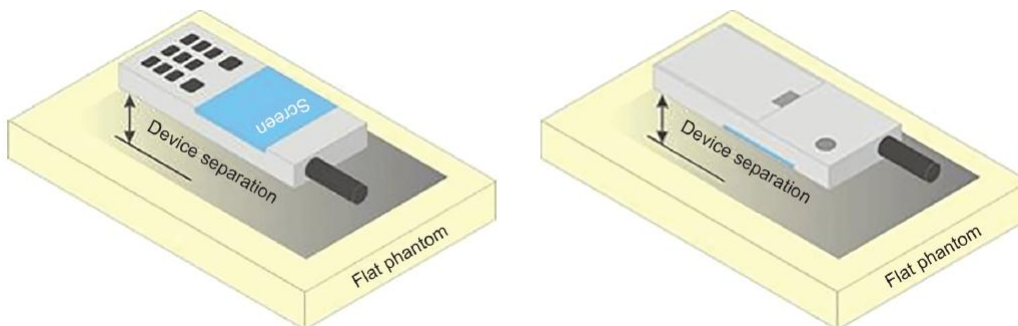


Figure 11-6: Test positions for body-worn devices

11.6 Wireless Router exposure conditions

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

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often

do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01 procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

11.7 Product Specific 10g SAR exposure conditions

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions, i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1g body and 10g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D01 should be applied to determine SAR test requirements.

For smart phones with a display diagonal dimension $> 15.0 \text{ cm}$ or an overall diagonal dimension $> 16.0 \text{ cm}$ that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear. the phablets procedures outlined in KDB Publication 648474 D04 v01r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna $\leq 25 \text{ mm}$ from that surface or edge, in direct contact with the phantom, for 10-g SAR. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1-g SAR $> 1.2 \text{ W/kg}$.

12 System Verification

12.1 Tissue Verification

The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. The temperature variation of the Tissue Simulate Liquids was $22\pm 2^{\circ}\text{C}$, the liquid depth of the ear reference point or the flat phantom was at least 15 cm (which is shown in Figure 12-1/12-2).

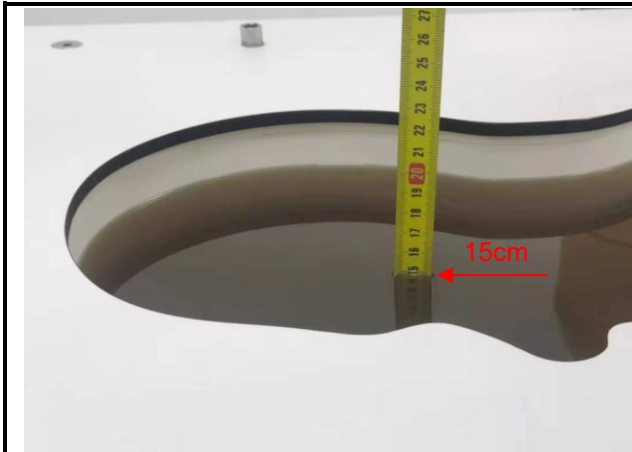


Figure 12-1 Liquid depth in the Head Phantom

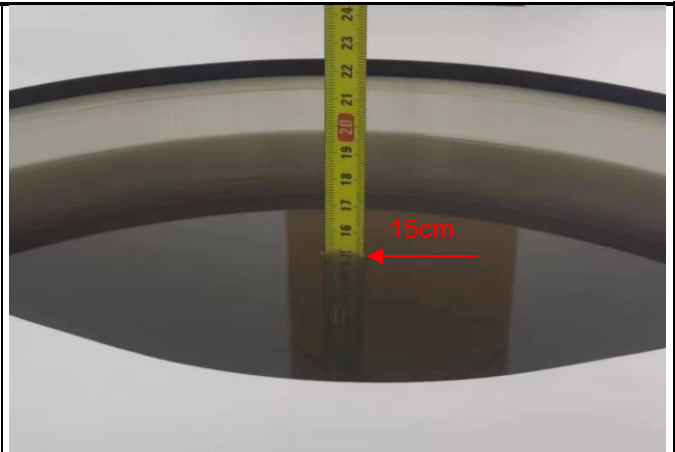


Figure 12-2 Liquid depth in the Flat Phantom

Frequency (MHz)	Tissue Type	Liquid Temp. ($^{\circ}\text{C}$)	Target Tissue		Measured Tissue		Deviation (Limit $\pm 5\%$)		Date
			Permittivity ϵ_r	Conductivity $\sigma(\text{S/m})$	Permittivity ϵ_r	Conductivity $\sigma(\text{S/m})$	$\Delta\epsilon_r$	$\Delta\sigma$	
13	Head	22.2	55.00	0.75	54.700	0.764	-0.55%	1.87%	2025/11/07
750	Head	22.1	41.90	0.89	42.500	0.898	1.43%	0.90%	2025/11/02
835	Head	22.2	41.50	0.90	41.700	0.920	0.48%	2.22%	2025/10/01
835	Head	22.2	41.50	0.90	41.900	0.926	0.96%	2.89%	2025/10/02
1750	Head	22.1	40.10	1.37	39.800	1.380	-0.75%	0.73%	2025/10/11
1750	Head	22.2	40.10	1.37	40.000	1.390	-0.25%	1.46%	2025/10/22
1900	Head	21.9	40.00	1.40	40.300	1.420	0.75%	1.43%	2025/10/03
1900	Head	22.0	40.00	1.40	40.400	1.430	1.00%	2.14%	2025/10/23
2450	Head	22.1	39.20	1.80	39.800	1.820	1.53%	1.11%	2025/10/11
2600	Head	21.9	39.00	1.96	38.800	1.990	-0.51%	1.53%	2025/09/22
2600	Head	21.9	39.00	1.96	39.000	2.000	0.00%	2.04%	2025/09/23
2600	Head	21.8	39.00	1.96	39.800	2.000	2.05%	2.04%	2025/09/24
2600	Head	22.0	39.00	1.96	39.300	2.000	0.77%	2.04%	2025/10/12
2600	Head	22.1	39.00	1.96	38.800	2.000	-0.51%	2.04%	2025/10/13
2600	Head	21.9	39.00	1.96	39.000	2.010	0.00%	2.55%	2025/10/14
3500	Head	22.2	37.90	2.91	38.600	2.910	1.85%	0.00%	2025/10/18
3500	Head	21.8	37.90	2.91	38.700	2.920	2.11%	0.34%	2025/10/24
3500	Head	21.9	37.90	2.91	38.800	2.920	2.37%	0.34%	2025/10/27
3700	Head	22.2	37.70	3.12	38.100	3.100	1.06%	-0.64%	2025/10/18
3700	Head	22.1	37.70	3.12	38.300	3.130	1.59%	0.32%	2025/10/19
3900	Head	22.2	37.50	3.32	37.400	3.320	-0.27%	0.00%	2025/10/18
3900	Head	22.1	37.50	3.32	38.300	3.310	2.13%	-0.30%	2025/10/19
5200	Head	22.2	36.00	4.66	35.700	4.650	-0.83%	-0.21%	2025/10/15
5300	Head	22.2	35.90	4.76	35.700	4.760	-0.56%	0.00%	2025/10/15
5600	Head	22.2	35.50	5.07	34.700	5.120	-2.25%	0.99%	2025/10/16
5800	Head	22.2	35.30	5.27	34.600	5.290	-1.98%	0.38%	2025/10/17

Table 2: Measurement Tissue Parameters

12.2 SAR System Check

Prior to SAR assessment, a SAR system Check measurement was performed to see if the measured SAR was within $\pm 10\%$ from the target SAR values. The System Performance Check Setup in Figure 12-3.

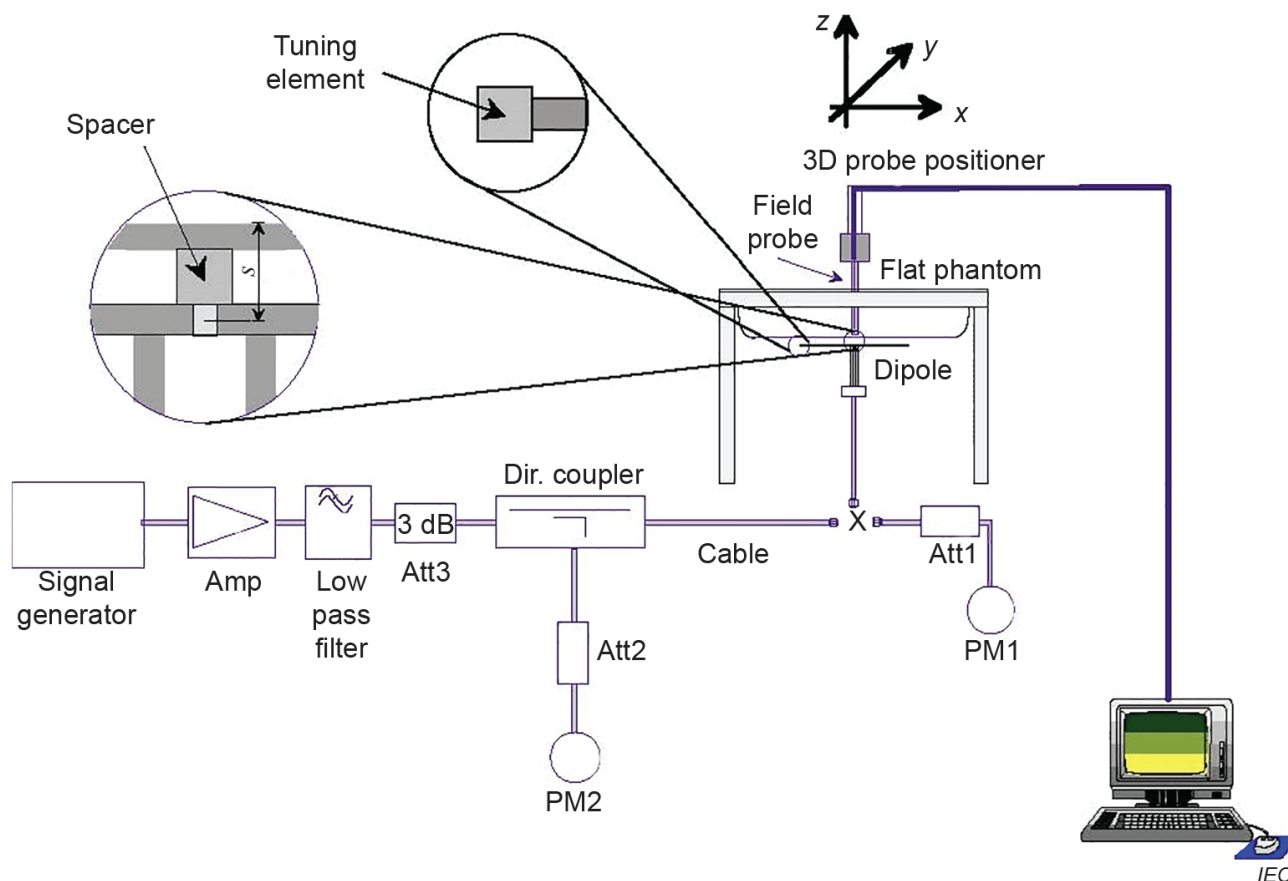


Figure 12-3 System Performance Check Setup

12.2.1 System Check Result

Frequency (MHz)	Tissue Type	Dipole	S/N	Target SAR (1W)		Measured SAR (100mW)		Measured SAR (normalized to 1W)		Deviation (Limit $\pm 10\%$)		Date
				1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	$\Delta 1g$	$\Delta 10g$	
13	Head	CLA-13	1043	0.484	0.297	0.052	0.031	0.520	0.310	7.44%	4.38%	2025/11/07
750	Head	D750V3	1231	8.67	5.67	0.905	0.595	9.05	5.95	4.38%	4.94%	2025/11/02
835	Head	D835V2	4d302	9.78	6.37	0.961	0.622	9.61	6.22	-1.74%	-2.35%	2025/10/01
835	Head	D835V2	4d302	9.78	6.37	0.924	0.600	9.24	6.00	-5.52%	-5.81%	2025/10/02
1750	Head	D1750V2	1115	36.90	19.50	3.610	1.920	36.10	19.20	-2.17%	-1.54%	2025/10/11
1750	Head	D1750V2	1115	36.90	19.50	3.640	1.940	36.40	19.40	-1.36%	-0.51%	2025/10/22
1900	Head	D1900V2	512	39.40	20.50	3.980	2.050	39.80	20.50	1.02%	0.00%	2025/10/03
1900	Head	D1900V2	512	39.40	20.50	4.050	2.090	40.50	20.90	2.79%	1.95%	2025/10/23
2450	Head	D2450V2	1099	51.40	23.90	5.200	2.420	52.00	24.20	1.17%	1.26%	2025/10/11
2600	Head	D2600V2	1094	56.30	25.00	5.350	2.400	53.50	24.00	-4.97%	-4.00%	2025/09/22
2600	Head	D2600V2	1094	56.30	25.00	5.960	2.680	59.60	26.80	5.86%	7.20%	2025/09/23
2600	Head	D2600V2	1094	56.30	25.00	5.630	2.540	56.30	25.40	0.00%	1.60%	2025/09/24
2600	Head	D2600V2	1094	56.30	25.00	5.620	2.510	56.20	25.10	-0.18%	0.40%	2025/10/12
2600	Head	D2600V2	1094	56.30	25.00	5.590	2.510	55.90	25.10	-0.71%	0.40%	2025/10/13
2600	Head	D2600V2	1094	56.30	25.00	5.640	2.530	56.40	25.30	0.18%	1.20%	2025/10/14
3500	Head	D3500V2	1150	66.30	25.10	6.250	2.390	62.50	23.90	-5.73%	-4.78%	2025/10/18
3500	Head	D3500V2	1150	66.30	25.10	6.270	2.400	62.70	24.00	-5.43%	-4.38%	2025/10/24
3500	Head	D3500V2	1150	66.30	25.10	6.360	2.440	63.60	24.40	-4.07%	-2.79%	2025/10/27
3700	Head	D3700V2	1127	66.60	24.10	6.700	2.490	67.00	24.90	0.60%	3.32%	2025/10/18
3700	Head	D3700V2	1127	66.60	24.10	6.660	2.480	66.60	24.80	0.00%	2.90%	2025/10/19
3900	Head	D3900V2	1099	68.40	23.60	6.740	2.390	67.40	23.90	-1.46%	1.27%	2025/10/18
3900	Head	D3900V2	1099	68.40	23.60	6.830	2.420	68.30	24.20	-0.15%	2.54%	2025/10/19
5200	Head	D5GHzV2	1371	78.90	22.40	7.550	2.190	75.50	21.90	-4.31%	-2.23%	2025/10/15
5300	Head	D5GHzV2	1371	80.90	23.10	7.780	2.230	77.80	22.30	-3.83%	-3.46%	2025/10/15
5600	Head	D5GHzV2	1371	82.30	23.30	8.450	2.410	84.50	24.10	2.67%	3.43%	2025/10/16
5800	Head	D5GHzV2	1371	79.80	22.40	7.590	2.170	75.90	21.70	-4.89%	-3.13%	2025/10/17

Table 3: SAR System Check Result

12.2.2 Detailed System Check Result

Please see Appendix A

13 SAR General Measurement Procedures

13.1 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

13.2 SAR Measurement Conditions for GSM

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

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

13.3 SAR Measurement Conditions for UMTS

13.3.1 Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1's" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCH_n and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

13.3.2 Head SAR Measurements

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

13.3.3 Body SAR Measurements

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCH_n configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCH_n, for the highest reported SAR configuration in 12.2 kbps RMC.

13.3.4 SAR Measurements with Rel. 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using and FRC with H-SET 1 in Sub-test and a 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to release 6 HSPA test procedures. 8.4.5 SAR Measurement with Rel.6 HSUPA The 3G SAR test Reduction Procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, Using H-Set 1 and QPSK for FRC and a 12.2kbps RMC configured in Test Loop Mode 1 and Power Control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA. When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

13.3.5 SAR Measurements with Rel. 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

13.3.6 SAR Measurement Conditions for DC-HSDPA

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

13.3.7 SAR Measurement Conditions for HSPA+(16QAM)

Per KDB 941225D01, SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	$\beta_{c\downarrow}$ (Note3)	$\beta_{d\downarrow}$	$\beta_{HS\downarrow}$ (Note1)	$\beta_{ec\downarrow}$	$\beta_{ed\downarrow}$ (2xSF2) (Note 4)	$\beta_{ed\downarrow}$ (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. Note 2: CM = 3.5 and the MPR is based on the relative CM difference, $MPR = \text{MAX}(CM-1,0)$. Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default. Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value. Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.											

13.4 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C/MT8821C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

13.4.1 Spectrum Plots for RB Configurations

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

13.4.2 MPR

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

Modulation	Channel bandwidth/Transmission bandwidth						MPR (dB)
	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3
256QAM	≥1						5

13.4.3 A-MPR

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

13.4.4 Largest channel bandwidth standalone SAR test requirements

A. QPSK with 1 RB allocation

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

B. QPSK with 50% RB allocation

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

C. QPSK with 100% RB allocation

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

D. Higher order modulations

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

13.4.5 Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in 13.4.4 to determine the channels and RB configurations that need SAR testing, then only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration, or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

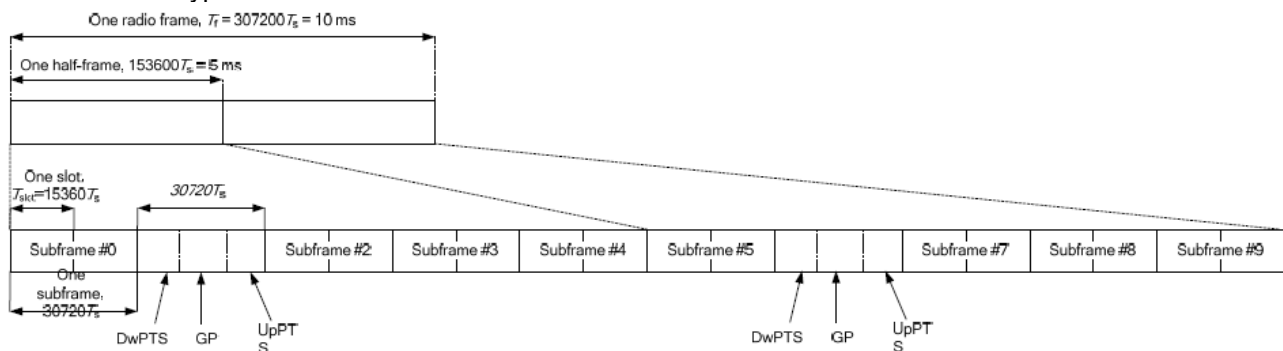
13.4.6 LTE TDD Considerations

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

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

LTE TDD Band support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Frame structure type 2:



Uplink-downlink configurations

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

Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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

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

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

Example for calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = $(5120 \times (1/(15000 \times 2048)) \times 2 + 0.006)/0.01 = 63.33 \%$

Where

$T_s = 1/(15000 \times 2048)$ seconds

HPUE:

Calculated Duty Cycle for Uplink-Downlink Configuration 1:

Calculated Duty Cycle = $5120 \times (1/(15000 \times 2048)) \times 2 + 0.004)/0.01 = 43.33 \%$

13.5 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01 for more details.

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

For WiFi SAR testing, a communication link is set up with some command for WiFi mode test. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. Per KDB248227 D01, a minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

13.5.1 Initial Test Position Procedure

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

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

13.5.2 Initial Test Configuration Procedure

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to reported SAR of the initial test configuration.

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until reported SAR is ≤ 1.2 W/kg or all required channels are tested.

13.5.3 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency Band and aggregated Band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position on procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg for 1g SAR and ≤ 3.0 W/kg for 10g SAR, no additional SAR tests for the subsequent test configurations are required.

13.5.4 2.4 GHz SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions.

A) 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

1. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS is that exposure configuration.
2. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

B) 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3 of of KDB248227 D01). SAR is not required for the following 2.4 GHz OFDM conditions.

1. When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
2. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

C) SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

13.5.5 5 GHz SAR Procedures

13.5.5.1 U-NII-1 and U-NII-2A Bands

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- 3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

13.5.5.2 U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

13.5.6 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

13.5.7 MIMO SAR Considerations

Per KDB 248227 D01, the simultaneous SAR provisions in KDB 447498 D01v06 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is <1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

13.6 SAR Measurement Conditions for NR

Operation Bandwidth:	NR Band	SCS (kHz)	Bandwidth (MHz)												
			5	10	15	20	25	30	40	50	60	70	80	90	100
SA	n2	15	√	√	√	√	-	-	-	-	-	-	-	-	-
	n5	15	√	√	√	√	-	-	-	-	-	-	-	-	-
	n7	15	√	√	√	√	√	√	√	-	-	-	-	-	-
	n25	15	√	√	√	√	-	-	-	-	-	-	-	-	-
	n38	30	-	√	-	√	-	√	√	-	-	-	-	-	-
	n41	30	-	√	-	√	-	√	√	√	√	√	√	√	√
	n66	15	√	√	√	√	-	-	-	-	-	-	-	-	-
	n77	30	-	√	-	√	-	√	√	√	√	√	√	√	√
	n78	30	-	√	-	√	-	√	√	√	√	√	√	√	√

13.6.1 5G NR test procedure

For 5G NR test procedure was following step similar FCC KDB 941225 D05:

- A. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
- B. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
- C. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- D. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- E. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- F. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
- G. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device.

H. MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS 38.101-1 Section 6.2.2 under Table 6.2.2 -1.

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0^2
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

I. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.

14 Conducted Power

Note:

The frame-averaged power is linearly reported the maximum burst averaged power over 8 time slots. The calculated method are shown as below:

The duty cycle "X" of different time slots as below:

1 TX slot is 1/8

2 TX slots is 2/8

3 TX slots is 3/8

4 TX slots is 4/8

Based on the calculation formula: Frame-averaged power = Burst averaged power + $10 \cdot \log(X)$

So Time slot average factor is as follows:

Frame-averaged power (1 TX slot) = Burst averaged power (1 TX slot) – 9.03

Frame-averaged power (2 TX slots) = Burst averaged power (2 TX slots) – 6.02

Frame-averaged power (3 TX slots) = Burst averaged power (3 TX slots) – 4.26

Frame-averaged power (4 TX slots) = Burst averaged power (4 TX slots) – 3.01

The detailed conducted power table can refer to Appendix E.

15 SAR Data Summary

General Notes:

- 1) The Highest Reported SAR Plot refer to Appendix B.
- 2) Per KDB 447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1g or 10g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1g or 2.0W/kg for 10g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1g or 10g respectively, when the transmission band is between 100 MHz and 200MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1g or 10g respectively, when the transmission band is $\geq 200\text{MHz}$.

Wi-Fi 5G Notes:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is $\leq 1.2\text{ W/kg}$, SAR is not required for U-NII-1 band for that configuration.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.

When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR test for the other 802.11 modes are not required.

15.1 SAR Measurement Result of GSM850

Ant 3 Test Results							
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head							
Left cheek	GPRS 4TS	190/836.6	0.142	26.42	27.00	1.143	0.162
Left tilted	GPRS 4TS	190/836.6	0.020	26.42	27.00	1.143	0.023
Right cheek	GPRS 4TS	190/836.6	0.384	26.42	27.00	1.143	0.439
Right tilted	GPRS 4TS	190/836.6	0.042	26.42	27.00	1.143	0.048
Right cheek	GPRS 4TS	128/824.2	0.327	26.26	27.00	1.186	0.388
Right cheek	GPRS 4TS	251/848.8	0.341	26.38	27.00	1.153	0.393
Body 10mm							
Front side	GPRS 4TS	190/836.6	0.152	26.42	27.00	1.143	0.174
Back side	GPRS 4TS	190/836.6	0.120	26.42	27.00	1.143	0.137
Right side	GPRS 4TS	190/836.6	0.268	26.42	27.00	1.143	0.306
Right side	GPRS 4TS	128/824.2	0.225	26.26	27.00	1.186	0.267
Right side	GPRS 4TS	251/848.8	0.200	26.38	27.00	1.153	0.231
Ant 11 Test Results							
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head							
Left cheek	GPRS 4TS	190/836.6	0.702	25.63	26.00	1.089	0.764
Left tilted	GPRS 4TS	190/836.6	0.095	25.63	26.00	1.089	0.103
Right cheek	GPRS 4TS	190/836.6	0.362	25.63	26.00	1.089	0.394
Right tilted	GPRS 4TS	190/836.6	0.057	25.63	26.00	1.089	0.062
Left cheek	GPRS 4TS	128/824.2	0.769	25.57	26.00	1.104	0.849
Left cheek	GPRS 4TS	251/848.8	0.617	25.35	26.00	1.161	0.717
Head (Simultaneous transmission)							
Left cheek	GPRS 4TS	190/836.6	0.702	25.63	24.00	0.687	0.482
Left tilted	GPRS 4TS	190/836.6	0.095	25.63	24.00	0.687	0.065
Right cheek	GPRS 4TS	190/836.6	0.362	25.63	24.00	0.687	0.249
Right tilted	GPRS 4TS	190/836.6	0.057	25.63	24.00	0.687	0.039
Left cheek	GPRS 4TS	128/824.2	0.769	25.57	24.00	0.697	0.536
Left cheek	GPRS 4TS	251/848.8	0.617	25.35	24.00	0.733	0.452
Body 10mm							
Front side	GPRS 4TS	190/836.6	0.296	25.63	26.00	1.089	0.322
Back side	GPRS 4TS	190/836.6	0.256	25.63	26.00	1.089	0.279
Left side	GPRS 4TS	190/836.6	0.467	25.63	26.00	1.089	0.509
Left side	GPRS 4TS	128/824.2	0.653	25.57	26.00	1.104	0.721
Left side	GPRS 4TS	251/848.8	0.363	25.35	26.00	1.161	0.422

Table 4: SAR of GSM850.

15.2 SAR Measurement Result of GSM1900

Ant 8 Test Results							
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head							
Left cheek	GPRS 4TS	512/1850.2	0.135	24.20	25.00	1.202	0.162
Left tilted	GPRS 4TS	512/1850.2	0.143	24.20	25.00	1.202	0.172
Right cheek	GPRS 4TS	512/1850.2	0.159	24.20	25.00	1.202	0.191
Right tilted	GPRS 4TS	512/1850.2	0.151	24.20	25.00	1.202	0.182
Right cheek	GPRS 4TS	661/1880	0.179	23.95	25.00	1.274	0.228
Right cheek	GPRS 4TS	810/1909.8	0.190	23.81	25.00	1.315	0.250
Body 10mm							
Front side	GPRS 4TS	512/1850.2	0.046	24.20	25.00	1.202	0.055
Back side	GPRS 4TS	512/1850.2	0.043	24.20	25.00	1.202	0.052
Left side	GPRS 4TS	512/1850.2	0.010	24.20	25.00	1.202	0.012
Top side	GPRS 4TS	512/1850.2	0.088	24.20	25.00	1.202	0.106
Top side	GPRS 4TS	661/1880	0.089	23.95	25.00	1.274	0.113
Top side	GPRS 4TS	810/1909.8	0.099	23.81	25.00	1.315	0.130
Ant 10 Test Results							
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head							
Left cheek	GPRS 4TS	661/1880	0.261	22.08	23.00	1.236	0.323
Left tilted	GPRS 4TS	661/1880	0.185	22.08	23.00	1.236	0.229
Right cheek	GPRS 4TS	661/1880	0.747	22.08	23.00	1.236	0.923
Right tilted	GPRS 4TS	661/1880	0.239	22.08	23.00	1.236	0.295
Right cheek	GPRS 4TS	512/1850.2	0.893	21.89	23.00	1.291	1.153
Right cheek Repeated	GPRS 4TS	512/1850.2	0.887	21.89	23.00	1.291	1.145
Right cheek	GPRS 4TS	810/1909.8	0.790	21.75	23.00	1.334	1.053
Head (Simultaneous transmission)							
Left cheek	GPRS 4TS	661/1880	0.261	22.08	21.00	0.780	0.204
Left tilted	GPRS 4TS	661/1880	0.185	22.08	21.00	0.780	0.144
Right cheek	GPRS 4TS	661/1880	0.747	22.08	21.00	0.780	0.583
Right tilted	GPRS 4TS	661/1880	0.239	22.08	21.00	0.780	0.186
Right cheek	GPRS 4TS	512/1850.2	0.893	21.89	21.00	0.815	0.728
Right cheek Repeated	GPRS 4TS	512/1850.2	0.887	21.89	21.00	0.815	0.723
Right cheek	GPRS 4TS	810/1909.8	0.790	21.75	21.00	0.841	0.665
Body 10mm							
Front side	GPRS 4TS	661/1880	0.179	22.08	23.00	1.236	0.221
Back side	GPRS 4TS	661/1880	0.228	22.08	23.00	1.236	0.282
Left side	GPRS 4TS	661/1880	0.264	22.08	23.00	1.236	0.326
Top side	GPRS 4TS	661/1880	0.055	22.08	23.00	1.236	0.068
Left side	GPRS 4TS	512/1850.2	0.424	21.89	23.00	1.291	0.547
Left side	GPRS 4TS	810/1909.8	0.289	21.75	23.00	1.334	0.385

Table 5: SAR of GSM1900.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right cheek	512/1850.2	0.893	0.887	1.007	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

15.3 SAR Measurement Result of WCDMA Band II

Ant 8 Test Results							
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head							
Left cheek	RMC	9538/1907.6	0.327	23.80	24.00	1.047	0.342
Left tilted	RMC	9538/1907.6	0.453	23.80	24.00	1.047	0.474
Right cheek	RMC	9538/1907.6	0.478	23.80	24.00	1.047	0.501
Right tilted	RMC	9538/1907.6	0.507	23.80	24.00	1.047	0.531
Right tilted	RMC	9262/1852.4	0.506	23.76	24.00	1.057	0.535
Right tilted	RMC	9400/1880	0.548	23.71	24.00	1.069	0.586
Body 10mm							
Front side	RMC	9538/1907.6	0.096	23.80	24.00	1.047	0.101
Back side	RMC	9538/1907.6	0.100	23.80	24.00	1.047	0.105
Left side	RMC	9538/1907.6	0.059	23.80	24.00	1.047	0.062
Top side	RMC	9538/1907.6	0.212	23.80	24.00	1.047	0.222
Top side	RMC	9262/1852.4	0.196	23.76	24.00	1.057	0.207
Top side	RMC	9400/1880	0.204	23.71	24.00	1.069	0.218
Ant 10 Test Results							
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head							
Left cheek	RMC	9262/1852.4	0.391	19.95	20.50	1.135	0.444
Left tilted	RMC	9262/1852.4	0.260	19.95	20.50	1.135	0.295
Right cheek	RMC	9262/1852.4	1.050	19.95	20.50	1.135	1.192
Right cheek Repeated	RMC	9262/1852.4	1.010	19.95	20.50	1.135	1.146
Right tilted	RMC	9262/1852.4	0.393	19.95	20.50	1.135	0.446
Right cheek	RMC	9400/1880	1.010	19.87	20.50	1.156	1.168
Right cheek	RMC	9538/1907.6	0.997	19.82	20.50	1.169	1.166
Head (Simultaneous transmission)							
Left cheek	RMC	9262/1852.4	0.391	19.95	19.50	0.902	0.353
Left tilted	RMC	9262/1852.4	0.260	19.95	19.50	0.902	0.234
Right cheek	RMC	9262/1852.4	1.050	19.95	19.50	0.902	0.947
Right cheek Repeated	RMC	9262/1852.4	1.010	19.95	19.50	0.902	0.911
Right tilted	RMC	9262/1852.4	0.393	19.95	19.50	0.902	0.354
Right cheek	RMC	9400/1880	1.010	19.87	19.50	0.918	0.928
Right cheek	RMC	9538/1907.6	0.997	19.82	19.50	0.929	0.926
Body 10mm							
Front side	RMC	9262/1852.4	0.237	19.95	20.50	1.135	0.269
Back side	RMC	9262/1852.4	0.226	19.95	20.50	1.135	0.257
Left side	RMC	9262/1852.4	0.378	19.95	20.50	1.135	0.429
Top side	RMC	9262/1852.4	0.071	19.95	20.50	1.135	0.081
Left side	RMC	9400/1880	0.451	19.87	20.50	1.156	0.521
Left side	RMC	9538/1907.6	0.341	19.82	20.50	1.169	0.399

Table 6: SAR of WCDMA Band II.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right cheek	9262/1852.4	1.050	1.010	1.040	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

15.4 SAR Measurement Result of WCDMA Band IV

Ant 8 Test Results							
Test position	Mode	Ch./Freq.(MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head							
Left cheek	RMC	1412/1732.4	0.206	24.73	25.00	1.064	0.219
Left tilted	RMC	1412/1732.4	0.279	24.73	25.00	1.064	0.297
Right cheek	RMC	1412/1732.4	0.395	24.73	25.00	1.064	0.420
Right tilted	RMC	1412/1732.4	0.473	24.73	25.00	1.064	0.503
Right tilted	RMC	1312/1712.4	0.617	24.66	25.00	1.081	0.667
Right tilted	RMC	1513/1752.6	0.618	24.65	25.00	1.084	0.670
Body 10mm							
Front side	RMC	1412/1732.4	0.089	24.73	25.00	1.064	0.095
Back side	RMC	1412/1732.4	0.077	24.73	25.00	1.064	0.082
Left side	RMC	1412/1732.4	0.010	24.73	25.00	1.064	0.011
Top side	RMC	1412/1732.4	0.120	24.73	25.00	1.064	0.128
Top side	RMC	1312/1712.4	0.149	24.66	25.00	1.081	0.161
Top side	RMC	1513/1752.6	0.150	24.65	25.00	1.084	0.163
Ant 10 Test Results							
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head							
Left cheek	RMC	1412/1732.4	0.423	19.75	20.00	1.059	0.448
Left tilted	RMC	1412/1732.4	0.202	19.75	20.00	1.059	0.214
Right cheek	RMC	1412/1732.4	1.120	19.75	20.00	1.059	1.186
Right tilted	RMC	1412/1732.4	0.433	19.75	20.00	1.059	0.459
Right cheek	RMC	1312/1712.4	1.170	19.74	20.00	1.062	1.242
Right cheek Repeated	RMC	1312/1712.4	1.120	19.74	20.00	1.062	1.189
Right cheek	RMC	1513/1752.6	1.160	19.72	20.00	1.067	1.237
Head (Simultaneous transmission)							
Left cheek	RMC	1412/1732.4	0.423	19.75	19.00	0.841	0.356
Left tilted	RMC	1412/1732.4	0.202	19.75	19.00	0.841	0.170
Right cheek	RMC	1412/1732.4	1.120	19.75	19.00	0.841	0.942
Right tilted	RMC	1412/1732.4	0.433	19.75	19.00	0.841	0.364
Right cheek	RMC	1312/1712.4	1.170	19.74	19.00	0.843	0.987
Right cheek Repeated	RMC	1312/1712.4	1.120	19.74	19.00	0.843	0.945
Right cheek	RMC	1513/1752.6	1.160	19.72	19.00	0.847	0.983
Body 10mm							
Front side	RMC	1412/1732.4	0.253	19.75	20.00	1.059	0.268
Back side	RMC	1412/1732.4	0.246	19.75	20.00	1.059	0.261
Left side	RMC	1412/1732.4	0.371	19.75	20.00	1.059	0.393
Top side	RMC	1412/1732.4	0.073	19.75	20.00	1.059	0.077
Left side	RMC	1312/1712.4	0.440	19.74	20.00	1.062	0.467
Left side	RMC	1513/1752.6	0.368	19.72	20.00	1.067	0.393

Table 7: SAR of WCDMA Band IV.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right cheek	1312/1712.4	1.170	1.120	1.045	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

15.5 SAR Measurement Result of WCDMA Band V

Ant 3 Test Results							
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head							
Left cheek	RMC	4182/836.4	0.201	24.23	24.50	1.064	0.214
Left tilted	RMC	4182/836.4	0.030	24.23	24.50	1.064	0.032
Right cheek	RMC	4182/836.4	0.485	24.23	24.50	1.064	0.516
Right tilted	RMC	4182/836.4	0.059	24.23	24.50	1.064	0.063
Right cheek	RMC	4132/826.4	0.455	24.16	24.50	1.081	0.492
Right cheek	RMC	4233/846.6	0.436	24.19	24.50	1.074	0.468
Body 10mm							
Front side	RMC	4182/836.4	0.199	24.23	24.50	1.064	0.212
Back side	RMC	4182/836.4	0.153	24.23	24.50	1.064	0.163
Right side	RMC	4182/836.4	0.396	24.23	24.50	1.064	0.421
Right side	RMC	4132/826.4	0.273	24.16	24.50	1.081	0.295
Right side	RMC	4233/846.6	0.276	24.19	24.50	1.074	0.296
Ant 11 Test Results							
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head							
Left cheek	RMC	4132/826.4	1.010	24.09	24.50	1.099	1.110
Left cheek Repeated	RMC	4132/826.4	0.997	24.09	24.50	1.099	1.096
Left tilted	RMC	4132/826.4	0.155	24.09	24.50	1.099	0.170
Right cheek	RMC	4132/826.4	0.537	24.09	24.50	1.099	0.590
Right tilted	RMC	4132/826.4	0.098	24.09	24.50	1.099	0.108
Left cheek	RMC	4182/836.4	0.686	23.89	24.50	1.151	0.789
Left cheek	RMC	4233/846.6	0.697	23.95	24.50	1.135	0.791
Head (Simultaneous transmission)							
Left cheek	RMC	4132/826.4	1.010	24.09	21.50	0.551	0.556
Left cheek Repeated	RMC	4132/826.4	0.997	24.09	21.50	0.551	0.549
Left tilted	RMC	4132/826.4	0.155	24.09	21.50	0.551	0.085
Right cheek	RMC	4132/826.4	0.537	24.09	21.50	0.551	0.296
Right tilted	RMC	4132/826.4	0.098	24.09	21.50	0.551	0.054
Left cheek	RMC	4182/836.4	0.686	23.89	21.50	0.577	0.396
Left cheek	RMC	4233/846.6	0.697	23.95	21.50	0.569	0.396
Body 10mm							
Front side	RMC	4132/826.4	0.486	24.09	24.50	1.099	0.534
Back side	RMC	4132/826.4	0.426	24.09	24.50	1.099	0.468
Left side	RMC	4132/826.4	0.628	24.09	24.50	1.099	0.690
Left side	RMC	4182/836.4	0.477	23.89	24.50	1.151	0.549
Left side	RMC	4233/846.6	0.533	23.95	24.50	1.135	0.605

Table 8: SAR of WCDMA Band V.

15.6 SAR Measurement Result of LTE Band 7

Ant 8 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head (1RB)								
Left cheek	20	QPSK 1_0	21100/2535	0.400	23.22	24.00	1.197	0.479
Left tilted	20	QPSK 1_0	21100/2535	0.454	23.22	24.00	1.197	0.543
Right cheek	20	QPSK 1_0	21100/2535	0.549	23.22	24.00	1.197	0.657
Right tilted	20	QPSK 1_0	21100/2535	0.578	23.22	24.00	1.197	0.692
Right tilted	20	QPSK 1_0	20850/2510	0.533	22.61	24.00	1.377	0.734
Right tilted	20	QPSK 1_0	21350/2560	0.584	22.86	24.00	1.300	0.759
Right tilted	20	QPSK PCC 1_0	21350/2560	0.576	23.92	24.00	1.019	0.587
	20	QPSK SCC 1_99	21152/2540.2					
Head (50%RB)								
Left cheek	20	QPSK 50_0	21100/2535	0.330	22.32	23.00	1.169	0.386
Left tilted	20	QPSK 50_0	21100/2535	0.361	22.32	23.00	1.169	0.422
Right cheek	20	QPSK 50_0	21100/2535	0.443	22.32	23.00	1.169	0.518
Right tilted	20	QPSK 50_0	21100/2535	0.581	22.32	23.00	1.169	0.679
Body 10mm(1RB)								
Front side	20	QPSK 1_0	21100/2535	0.128	23.22	24.00	1.197	0.153
Back side	20	QPSK 1_0	21100/2535	0.089	23.22	24.00	1.197	0.107
Left side	20	QPSK 1_0	21100/2535	0.014	23.22	24.00	1.197	0.017
Top side	20	QPSK 1_0	21100/2535	0.192	23.22	24.00	1.197	0.230
Top side	20	QPSK 1_0	20850/2510	0.144	22.61	24.00	1.377	0.198
Top side	20	QPSK 1_0	21350/2560	0.199	22.86	24.00	1.300	0.259
Top side	20	QPSK PCC 1_0	21350/2560	0.194	23.92	24.00	1.019	0.198
	20	QPSK SCC 1_99	21152/2540.2					
Body 10mm(50%RB)								
Front side	20	QPSK 50_0	21100/2535	0.106	22.32	23.00	1.169	0.124
Back side	20	QPSK 50_0	21100/2535	0.077	22.32	23.00	1.169	0.090
Left side	20	QPSK 50_0	21100/2535	0.010	22.32	23.00	1.169	0.012
Top side	20	QPSK 50_0	21100/2535	0.100	22.32	23.00	1.169	0.117
Ant 10 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head (1RB)								
Left cheek	20	QPSK 1_50	21100/2535	0.289	20.75	21.50	1.189	0.343
Left tilted	20	QPSK 1_50	21100/2535	0.071	20.75	21.50	1.189	0.084
Right cheek	20	QPSK 1_50	21100/2535	0.666	20.75	21.50	1.189	0.792
Right tilted	20	QPSK 1_50	21100/2535	0.173	20.75	21.50	1.189	0.206
Right cheek	20	QPSK 1_50	20850/2510	0.493	20.39	21.50	1.291	0.637
Right cheek	20	QPSK 1_50	21350/2560	0.619	20.66	21.50	1.213	0.751
Right cheek	20	QPSK PCC 1_99	21100/2535.5	0.528	21.48	21.50	1.005	0.530
	20	QPSK SCC 1_0	21298/2555.3					
Head (50%RB)								
Left cheek	20	QPSK 50_0	21100/2535	0.222	19.75	20.50	1.189	0.264
Left tilted	20	QPSK 50_0	21100/2535	0.056	19.75	20.50	1.189	0.067
Right cheek	20	QPSK 50_0	21100/2535	0.523	19.75	20.50	1.189	0.622
Right tilted	20	QPSK 50_0	21100/2535	0.134	19.75	20.50	1.189	0.159
Body 10mm(1RB)								
Front side	20	QPSK 1_50	21100/2535	0.098	20.75	21.50	1.189	0.116
Back side	20	QPSK 1_50	21100/2535	0.095	20.75	21.50	1.189	0.113
Left side	20	QPSK 1_50	21100/2535	0.096	20.75	21.50	1.189	0.114
Top side	20	QPSK 1_50	21100/2535	0.020	20.75	21.50	1.189	0.024
Front side	20	QPSK 1_50	20850/2510	0.089	20.39	21.50	1.291	0.115
Front side	20	QPSK 1_50	21350/2560	0.093	20.66	21.50	1.213	0.113
Front side	20	QPSK PCC 1_99	21100/2535.5	0.096	21.48	21.50	1.005	0.096
	20	QPSK SCC 1_0	21298/2555.3					
Body 10mm(50%RB)								
Front side	20	QPSK 50_0	21100/2535	0.091	19.75	20.50	1.189	0.108
Back side	20	QPSK 50_0	21100/2535	0.086	19.75	20.50	1.189	0.102
Left side	20	QPSK 50_0	21100/2535	0.095	19.75	20.50	1.189	0.113
Top side	20	QPSK 50_0	21100/2535	0.010	19.75	20.50	1.189	0.012

Table 9: SAR of LTE Band 7.

15.7 SAR Measurement Result of LTE Band 12

Ant 3 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head (1RB)								
Left cheek	10	QPSK 1_0	23060/704	0.460	22.49	23.00	1.125	0.517
Left tilted	10	QPSK 1_0	23060/704	0.112	22.49	23.00	1.125	0.126
Right cheek	10	QPSK 1_0	23060/704	1.090	22.49	23.00	1.125	1.226
Right cheek Repeated	10	QPSK 1_0	23060/704	1.030	22.49	23.00	1.125	1.158
Right tilted	10	QPSK 1_0	23060/704	0.165	22.49	23.00	1.125	0.186
Right cheek	10	QPSK 1_0	23095/707.5	0.892	22.39	23.00	1.151	1.027
Right cheek	10	QPSK 1_0	23130/711	0.858	22.42	23.00	1.143	0.981
Head (50%RB)								
Left cheek	10	QPSK 25_13	23060/704	0.341	21.49	22.00	1.125	0.383
Left tilted	10	QPSK 25_13	23060/704	0.076	21.49	22.00	1.125	0.085
Right cheek	10	QPSK 25_13	23060/704	0.699	21.49	22.00	1.125	0.786
Right tilted	10	QPSK 25_13	23060/704	0.123	21.49	22.00	1.125	0.138
Head (100%RB)								
Right cheek	10	QPSK 50_0	23060/704	0.604	21.28	22.00	1.180	0.713
Head (1RB) (Simultaneous transmission)								
Left cheek	10	QPSK 1_0	23060/704	0.460	22.49	22.00	0.893	0.411
Left tilted	10	QPSK 1_0	23060/704	0.112	22.49	22.00	0.893	0.100
Right cheek	10	QPSK 1_0	23060/704	1.090	22.49	22.00	0.893	0.974
Right cheek Repeated	10	QPSK 1_0	23060/704	1.030	22.49	22.00	0.893	0.920
Right tilted	10	QPSK 1_0	23060/704	0.165	22.49	22.00	0.893	0.147
Right cheek	10	QPSK 1_0	23095/707.5	0.892	22.39	22.00	0.914	0.815
Right cheek	10	QPSK 1_0	23130/711	0.858	22.42	22.00	0.908	0.779
Head (50%RB) (Simultaneous transmission)								
Left cheek	10	QPSK 25_13	23060/704	0.341	21.49	21.00	0.893	0.305
Left tilted	10	QPSK 25_13	23060/704	0.076	21.49	21.00	0.893	0.068
Right cheek	10	QPSK 25_13	23060/704	0.699	21.49	21.00	0.893	0.624
Right tilted	10	QPSK 25_13	23060/704	0.123	21.49	21.00	0.893	0.110
Head (100%RB) (Simultaneous transmission)								
Right cheek	10	QPSK 50_0	23060/704	0.604	21.28	21.00	0.938	0.566
Body 10mm(1RB)								
Front side	10	QPSK 1_0	23060/704	0.506	22.49	23.00	1.125	0.569
Back side	10	QPSK 1_0	23060/704	0.449	22.49	23.00	1.125	0.505
Right side	10	QPSK 1_0	23060/704	0.730	22.49	23.00	1.125	0.821
Right side	10	QPSK 1_0	23095/707.5	0.670	22.39	23.00	1.151	0.771
Right side	10	QPSK 1_0	23130/711	0.642	22.42	23.00	1.143	0.734
Body 10mm(50%RB)								
Front side	10	QPSK 25_13	23060/704	0.381	21.49	22.00	1.125	0.428
Back side	10	QPSK 25_13	23060/704	0.301	21.49	22.00	1.125	0.339
Right side	10	QPSK 25_13	23060/704	0.530	21.49	22.00	1.125	0.596
Body 10mm(100%RB)								
Right side	10	QPSK 50_0	23060/704	0.510	21.28	22.00	1.180	0.602

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right cheek	23060/704	1.090	1.030	1.058	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

Ant 11 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head (1RB)								
Left cheek	10	QPSK 1_0	23060/704	0.561	24.02	24.50	1.117	0.627
Left tilted	10	QPSK 1_0	23060/704	0.089	24.02	24.50	1.117	0.099
Right cheek	10	QPSK 1_0	23060/704	0.323	24.02	24.50	1.117	0.361
Right tilted	10	QPSK 1_0	23060/704	0.068	24.02	24.50	1.117	0.076
Left cheek	10	QPSK 1_0	23095/707.5	0.783	23.89	24.50	1.151	0.901
Left cheek	10	QPSK 1_0	23130/711	0.529	23.96	24.50	1.132	0.599
Head (50%RB)								
Left cheek	10	QPSK 25_13	23060/704	0.573	23.13	23.50	1.089	0.624
Left tilted	10	QPSK 25_13	23060/704	0.079	23.13	23.50	1.089	0.086
Right cheek	10	QPSK 25_13	23060/704	0.277	23.13	23.50	1.089	0.302
Right tilted	10	QPSK 25_13	23060/704	0.059	23.13	23.50	1.089	0.064
Head (100%RB)								
Left cheek	10	QPSK 50_0	23060/704	0.561	23.07	23.50	1.104	0.619
Head (1RB) (Simultaneous transmission)								
Left cheek	10	QPSK 1_0	23060/704	0.561	24.02	22.50	0.705	0.395
Left tilted	10	QPSK 1_0	23060/704	0.089	24.02	22.50	0.705	0.063
Right cheek	10	QPSK 1_0	23060/704	0.323	24.02	22.50	0.705	0.228
Right tilted	10	QPSK 1_0	23060/704	0.068	24.02	22.50	0.705	0.048
Left cheek	10	QPSK 1_0	23095/707.5	0.783	23.89	22.50	0.726	0.569
Left cheek	10	QPSK 1_0	23130/711	0.529	23.96	22.50	0.714	0.378
Head (50%RB) (Simultaneous transmission)								
Left cheek	10	QPSK 25_13	23060/704	0.573	23.13	21.50	0.687	0.394
Left tilted	10	QPSK 25_13	23060/704	0.079	23.13	21.50	0.687	0.054
Right cheek	10	QPSK 25_13	23060/704	0.277	23.13	21.50	0.687	0.190
Right tilted	10	QPSK 25_13	23060/704	0.059	23.13	21.50	0.687	0.041
Head (100%RB) (Simultaneous transmission)								
Left cheek	10	QPSK 50_0	23060/704	0.561	23.07	21.50	0.697	0.391
Body 10mm(1RB)								
Front side	10	QPSK 1_0	23060/704	0.274	24.02	24.50	1.117	0.306
Back side	10	QPSK 1_0	23060/704	0.221	24.02	24.50	1.117	0.247
Left side	10	QPSK 1_0	23060/704	0.402	24.02	24.50	1.117	0.449
Left side	10	QPSK 1_0	23095/707.5	0.561	23.89	24.50	1.151	0.646
Left side	10	QPSK 1_0	23130/711	0.314	23.96	24.50	1.132	0.356
Body 10mm(50%RB)								
Front side	10	QPSK 25_13	23060/704	0.229	23.13	23.50	1.089	0.249
Back side	10	QPSK 25_13	23060/704	0.206	23.13	23.50	1.089	0.224
Left side	10	QPSK 25_13	23060/704	0.385	23.13	23.50	1.089	0.419

Table 10: SAR of LTE Band 12.

15.8 SAR Measurement Result of LTE Band 25

Ant 8 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head (1RB)								
Left cheek	20	QPSK 1_0	26140/1860	0.325	24.01	24.50	1.119	0.364
Left tilted	20	QPSK 1_0	26140/1860	0.429	24.01	24.50	1.119	0.480
Right cheek	20	QPSK 1_0	26140/1860	0.408	24.01	24.50	1.119	0.457
Right tilted	20	QPSK 1_0	26140/1860	0.449	24.01	24.50	1.119	0.503
Right tilted	20	QPSK 1_0	26365/1882.5	0.433	23.97	24.50	1.130	0.489
Right tilted	20	QPSK 1_0	26590/1905	0.401	23.89	24.50	1.151	0.461
Head (50%RB)								
Left cheek	20	QPSK 50_0	26140/1860	0.248	22.82	23.50	1.169	0.290
Left tilted	20	QPSK 50_0	26140/1860	0.335	22.82	23.50	1.169	0.392
Right cheek	20	QPSK 50_0	26140/1860	0.382	22.82	23.50	1.169	0.447
Right tilted	20	QPSK 50_0	26140/1860	0.425	22.82	23.50	1.169	0.497
Body 10mm(1RB)								
Front side	20	QPSK 1_0	26140/1860	0.104	24.01	24.50	1.119	0.116
Back side	20	QPSK 1_0	26140/1860	0.096	24.01	24.50	1.119	0.107
Left side	20	QPSK 1_0	26140/1860	0.066	24.01	24.50	1.119	0.074
Top side	20	QPSK 1_0	26140/1860	0.191	24.01	24.50	1.119	0.214
Top side	20	QPSK 1_0	26365/1882.5	0.192	23.97	24.50	1.130	0.217
Top side	20	QPSK 1_0	26590/1905	0.194	23.89	24.50	1.151	0.223
Body 10mm(50%RB)								
Front side	20	QPSK 50_0	26140/1860	0.079	22.82	23.50	1.169	0.092
Back side	20	QPSK 50_0	26140/1860	0.074	22.82	23.50	1.169	0.087
Left side	20	QPSK 50_0	26140/1860	0.053	22.82	23.50	1.169	0.062
Top side	20	QPSK 50_0	26140/1860	0.154	22.82	23.50	1.169	0.180

Ant 10 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 10g SAR (W/kg)
Head (1RB)								
Left cheek	20	QPSK 1_0	26365/1882.5	0.355	20.10	20.50	1.096	0.389
Left tilted	20	QPSK 1_0	26365/1882.5	0.228	20.10	20.50	1.096	0.250
Right cheek	20	QPSK 1_0	26365/1882.5	0.966	20.10	20.50	1.096	1.059
Right tilted	20	QPSK 1_0	26365/1882.5	0.330	20.10	20.50	1.096	0.362
Right cheek	20	QPSK 1_0	26140/1860	0.974	19.94	20.50	1.138	1.108
Right cheek Repeated	20	QPSK 1_0	26140/1860	0.965	19.94	20.50	1.138	1.098
Right cheek	20	QPSK 1_0	26590/1905	0.947	19.88	20.50	1.153	1.092
Head (50%RB)								
Left cheek	20	QPSK 50_0	26365/1882.5	0.276	19.05	19.50	1.109	0.306
Left tilted	20	QPSK 50_0	26365/1882.5	0.180	19.05	19.50	1.109	0.200
Right cheek	20	QPSK 50_0	26365/1882.5	0.706	19.05	19.50	1.109	0.783
Right tilted	20	QPSK 50_0	26365/1882.5	0.255	19.05	19.50	1.109	0.283
Head (100%RB)								
Right cheek	20	QPSK 100_0	26365/1882.5	0.696	18.93	19.50	1.140	0.794
Head (1RB) (Simultaneous transmission)								
Left cheek	20	QPSK 1_0	26365/1882.5	0.355	20.10	19.50	0.871	0.309
Left tilted	20	QPSK 1_0	26365/1882.5	0.228	20.10	19.50	0.871	0.199
Right cheek	20	QPSK 1_0	26365/1882.5	0.966	20.10	19.50	0.871	0.841
Right tilted	20	QPSK 1_0	26365/1882.5	0.330	20.10	19.50	0.871	0.287
Right cheek	20	QPSK 1_0	26140/1860	0.974	19.94	19.50	0.904	0.880
Right cheek Repeated	20	QPSK 1_0	26140/1860	0.965	19.94	19.50	0.904	0.872
Right cheek	20	QPSK 1_0	26590/1905	0.947	19.88	19.50	0.916	0.868
Head (50%RB) (Simultaneous transmission)								
Left cheek	20	QPSK 50_0	26365/1882.5	0.276	19.05	18.50	0.881	0.243
Left tilted	20	QPSK 50_0	26365/1882.5	0.180	19.05	18.50	0.881	0.159
Right cheek	20	QPSK 50_0	26365/1882.5	0.706	19.05	18.50	0.881	0.622
Right tilted	20	QPSK 50_0	26365/1882.5	0.255	19.05	18.50	0.881	0.225
Head (100%RB) (Simultaneous transmission)								
Right cheek	20	QPSK 100_0	26365/1882.5	0.696	18.93	18.50	0.906	0.630
Body 10mm(1RB)								
Front side	20	QPSK 1_0	26365/1882.5	0.214	20.10	20.50	1.096	0.235
Back side	20	QPSK 1_0	26365/1882.5	0.188	20.10	20.50	1.096	0.206
Left side	20	QPSK 1_0	26365/1882.5	0.343	20.10	20.50	1.096	0.376
Top side	20	QPSK 1_0	26365/1882.5	0.067	20.10	20.50	1.096	0.073
Left side	20	QPSK 1_0	26140/1860	0.405	19.94	20.50	1.138	0.461
Left side	20	QPSK 1_0	26590/1905	0.320	19.88	20.50	1.153	0.369
Body 10mm(50%RB)								
Front side	20	QPSK 50_0	26365/1882.5	0.165	19.05	19.50	1.109	0.183
Back side	20	QPSK 50_0	26365/1882.5	0.148	19.05	19.50	1.109	0.164
Left side	20	QPSK 50_0	26365/1882.5	0.269	19.05	19.50	1.109	0.298
Top side	20	QPSK 50_0	26365/1882.5	0.055	19.05	19.50	1.109	0.061

Table 11: SAR of LTE Band 25.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right cheek	26140/1860	0.974	0.965	1.009	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

15.9 SAR Measurement Result of LTE Band 26

Ant 3 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head (1RB)								
Left cheek	15	QPSK 1_0	26965/841.5	0.167	24.16	24.50	1.081	0.181
Left tilted	15	QPSK 1_0	26965/841.5	0.010	24.16	24.50	1.081	0.011
Right cheek	15	QPSK 1_0	26965/841.5	0.468	24.16	24.50	1.081	0.506
Right tilted	15	QPSK 1_0	26965/841.5	0.089	24.16	24.50	1.081	0.096
Right cheek	15	QPSK 1_0	26765/821.5	0.524	24.02	24.50	1.117	0.585
Right cheek	15	QPSK 1_0	26865/831.5	0.505	24.05	24.50	1.109	0.560
Head (50%RB)								
Left cheek	15	QPSK 36_18	26965/841.5	0.294	22.85	23.50	1.161	0.341
Left tilted	15	QPSK 36_18	26965/841.5	0.014	22.85	23.50	1.161	0.016
Right cheek	15	QPSK 36_18	26965/841.5	0.352	22.85	23.50	1.161	0.409
Right tilted	15	QPSK 36_18	26965/841.5	0.071	22.85	23.50	1.161	0.082
Body 10mm(1RB)								
Front side	15	QPSK 1_0	26965/841.5	0.172	24.16	24.50	1.081	0.186
Back side	15	QPSK 1_0	26965/841.5	0.147	24.16	24.50	1.081	0.159
Right side	15	QPSK 1_0	26965/841.5	0.388	24.16	24.50	1.081	0.420
Right side	15	QPSK 1_0	26765/821.5	0.232	24.02	24.50	1.117	0.259
Right side	15	QPSK 1_0	26865/831.5	0.263	24.05	24.50	1.109	0.292
Body 10mm(50%RB)								
Front side	15	QPSK 36_18	26965/841.5	0.135	22.85	23.50	1.161	0.157
Back side	15	QPSK 36_18	26965/841.5	0.108	22.85	23.50	1.161	0.125
Right side	15	QPSK 36_18	26965/841.5	0.195	22.85	23.50	1.161	0.226

Ant 11 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head (1RB)								
Left cheek	15	QPSK 1_0	26865/831.5	0.951	24.29	24.50	1.050	0.998
Left tilted	15	QPSK 1_0	26865/831.5	0.145	24.29	24.50	1.050	0.152
Right cheek	15	QPSK 1_0	26865/831.5	0.491	24.29	24.50	1.050	0.515
Right tilted	15	QPSK 1_0	26865/831.5	0.101	24.29	24.50	1.050	0.106
Left cheek	15	QPSK 1_0	26765/821.5	1.110	24.27	24.50	1.054	1.170
Left cheek Repeated	15	QPSK 1_0	26765/821.5	1.050	24.27	24.50	1.054	1.107
Left cheek	15	QPSK 1_0	26965/841.5	0.896	24.18	24.50	1.076	0.965
Head (50%RB)								
Left cheek	15	QPSK 36_18	26865/831.5	0.698	22.89	23.50	1.151	0.803
Left tilted	15	QPSK 36_18	26865/831.5	0.100	22.89	23.50	1.151	0.115
Right cheek	15	QPSK 36_18	26865/831.5	0.341	22.89	23.50	1.151	0.392
Right tilted	15	QPSK 36_18	26865/831.5	0.066	22.89	23.50	1.151	0.076
Left cheek	15	QPSK 36_18	26765/821.5	0.847	22.87	23.50	1.156	0.979
Left cheek	15	QPSK 36_18	26965/841.5	0.643	22.83	23.50	1.167	0.750
Head (100%RB)								
Left cheek	15	QPSK 75_0	26865/831.5	0.708	22.96	23.50	1.132	0.802
Head (1RB) (Simultaneous transmission)								
Left cheek	15	QPSK 1_0	26865/831.5	0.951	24.29	21.50	0.526	0.500
Left tilted	15	QPSK 1_0	26865/831.5	0.145	24.29	21.50	0.526	0.076
Right cheek	15	QPSK 1_0	26865/831.5	0.491	24.29	21.50	0.526	0.258
Right tilted	15	QPSK 1_0	26865/831.5	0.101	24.29	21.50	0.526	0.053
Left cheek	15	QPSK 1_0	26765/821.5	1.110	24.27	21.50	0.528	0.587
Left cheek Repeated	15	QPSK 1_0	26765/821.5	1.050	24.27	21.50	0.528	0.555
Left cheek	15	QPSK 1_0	26965/841.5	0.896	24.18	21.50	0.540	0.483
Head (50%RB) (Simultaneous transmission)								
Left cheek	15	QPSK 36_18	26865/831.5	0.698	22.89	20.50	0.577	0.403
Left tilted	15	QPSK 36_18	26865/831.5	0.100	22.89	20.50	0.577	0.058
Right cheek	15	QPSK 36_18	26865/831.5	0.341	22.89	20.50	0.577	0.197
Right tilted	15	QPSK 36_18	26865/831.5	0.066	22.89	20.50	0.577	0.038
Left cheek	15	QPSK 36_18	26765/821.5	0.847	22.87	20.50	0.579	0.491
Left cheek	15	QPSK 36_18	26965/841.5	0.643	22.83	20.50	0.585	0.376
Head (100%RB) (Simultaneous transmission)								
Left cheek	15	QPSK 75_0	26865/831.5	0.708	22.96	20.50	0.568	0.402
Body 10mm(1RB)								
Front side	15	QPSK 1_0	26865/831.5	0.466	24.29	24.50	1.050	0.489
Back side	15	QPSK 1_0	26865/831.5	0.436	24.29	24.50	1.050	0.458
Left side	15	QPSK 1_0	26865/831.5	0.725	24.29	24.50	1.050	0.761
Left side	15	QPSK 1_0	26765/821.5	0.945	24.27	24.50	1.054	0.996
Left side Repeated	15	QPSK 1_0	26765/821.5	0.931	24.27	24.50	1.054	0.982
Left side	15	QPSK 1_0	26965/841.5	0.621	24.18	24.50	1.076	0.668
Body 10mm(50%RB)								
Front side	15	QPSK 36_18	26865/831.5	0.330	22.89	23.50	1.151	0.380
Back side	15	QPSK 36_18	26865/831.5	0.305	22.89	23.50	1.151	0.351
Left side	15	QPSK 36_18	26865/831.5	0.504	22.89	23.50	1.151	0.580
Body 10mm(100%RB)								
Left side	15	QPSK 75_0	26865/831.5	0.562	22.96	23.50	1.132	0.636

Table 12: SAR of LTE Band 26.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Left cheek	26765/821.5	1.110	1.050	1.057	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

15.10 SAR Measurement Result of LTE Band 41

Ant 8 Test Results									
Test position	BW. (MHz)	Mode	Duty Cycle	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)									
Left cheek	20	QPSK 1_99	1:1.58	40620/2593	0.289	23.56	24.50	1.242	0.359
Left tilted	20	QPSK 1_99	1:1.58	40620/2593	0.337	23.56	24.50	1.242	0.418
Right cheek	20	QPSK 1_99	1:1.58	40620/2593	0.413	23.56	24.50	1.242	0.513
Right tilted	20	QPSK 1_99	1:1.58	40620/2593	0.575	23.56	24.50	1.242	0.714
Right tilted	20	QPSK 1_99	1:1.58	39750/2506	0.430	23.52	24.50	1.253	0.539
Right tilted	20	QPSK 1_99	1:1.58	40185/2549.5	0.413	23.53	24.50	1.250	0.516
Right tilted	20	QPSK 1_99	1:1.58	41055/2636.5	0.650	23.50	24.50	1.259	0.818
Right tilted	20	QPSK 1_99	1:1.58	41490/2680	0.778	23.55	24.50	1.245	0.968
Right tilted	20	QPSK PCC 1_0	1:1.58	41490/2680	0.624	23.83	24.50	1.167	0.728
	20	QPSK SCC 1_99		41292/2660.2					
Right tilted Class2	20	QPSK 1_99	1:2.31	41490/2680	0.757	26.23	26.50	1.064	0.806
Head(50%RB)									
Left cheek	20	QPSK 50_25	1:1.58	40620/2593	0.231	22.73	23.50	1.194	0.276
Left tilted	20	QPSK 50_25	1:1.58	40620/2593	0.279	22.73	23.50	1.194	0.333
Right cheek	20	QPSK 50_25	1:1.58	40620/2593	0.331	22.73	23.50	1.194	0.395
Right tilted	20	QPSK 50_25	1:1.58	40620/2593	0.443	22.73	23.50	1.194	0.529
Head(100%RB)									
Right tilted	20	QPSK 100_0	1:1.58	40620/2593	0.376	22.69	23.50	1.205	0.453
Body 10mm(1RB)									
Front side	20	QPSK 1_99	1:1.58	40620/2593	0.098	23.56	24.50	1.242	0.122
Back side	20	QPSK 1_99	1:1.58	40620/2593	0.076	23.56	24.50	1.242	0.094
Left side	20	QPSK 1_99	1:1.58	40620/2593	0.051	23.56	24.50	1.242	0.063
Top side	20	QPSK 1_99	1:1.58	40620/2593	0.108	23.56	24.50	1.242	0.134
Top side	20	QPSK 1_99	1:1.58	39750/2506	0.074	23.52	24.50	1.253	0.093
Top side	20	QPSK 1_99	1:1.58	40185/2549.5	0.111	23.53	24.50	1.250	0.139
Top side	20	QPSK 1_99	1:1.58	41055/2636.5	0.130	23.50	24.50	1.259	0.164
Top side	20	QPSK 1_99	1:1.58	41490/2680	0.204	23.55	24.50	1.245	0.254
Top side	20	QPSK PCC 1_0	1:1.58	41490/2680	0.163	23.83	24.50	1.167	0.190
	20	QPSK SCC 1_99		41292/2660.2					
Top side Class2	20	QPSK 1_99	1:2.31	41490/2680	0.197	26.23	26.50	1.064	0.210
Body 10mm(50%RB)									
Front side	20	QPSK 50_25	1:1.58	40620/2593	0.071	22.73	23.50	1.194	0.085
Back side	20	QPSK 50_25	1:1.58	40620/2593	0.060	22.73	23.50	1.194	0.072
Left side	20	QPSK 50_25	1:1.58	40620/2593	0.031	22.73	23.50	1.194	0.037
Top side	20	QPSK 50_25	1:1.58	40620/2593	0.077	22.73	23.50	1.194	0.092
Ant 10 Test Results									
Test position	BW. (MHz)	Mode	Duty Cycle	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)									
Left cheek	20	QPSK 1_50	1:1.58	40620/2593	0.177	20.95	22.00	1.274	0.225
Left tilted	20	QPSK 1_50	1:1.58	40620/2593	0.011	20.95	22.00	1.274	0.014
Right cheek	20	QPSK 1_50	1:1.58	40620/2593	0.333	20.95	22.00	1.274	0.424
Right tilted	20	QPSK 1_50	1:1.58	40620/2593	0.088	20.95	22.00	1.274	0.112
Right cheek	20	QPSK 1_50	1:1.58	39750/2506	0.359	20.91	22.00	1.285	0.461
Right cheek Class2	20	QPSK 1_50	1:2.31	39750/2506	0.351	24.03	25.00	1.250	0.439
Right cheek	20	QPSK 1_50	1:1.58	40185/2549.5	0.320	20.93	22.00	1.279	0.409
Right cheek	20	QPSK 1_50	1:1.58	41055/2636.5	0.342	20.90	22.00	1.288	0.441
Right cheek	20	QPSK 1_50	1:1.58	41490/2680	0.327	20.92	22.00	1.282	0.419
Right cheek	20	QPSK PCC 1_99	1:1.58	39750/2506	0.352	21.56	22.00	1.107	0.390
	20	QPSK SCC 1_0		39948/2525.8					

Head(50%RB)									
Left cheek	20	QPSK 50_25	1:1.58	40620/2593	0.125	20.15	21.00	1.216	0.152
Left tilted	20	QPSK 50_25	1:1.58	40620/2593	0.009	20.15	21.00	1.216	0.011
Right cheek	20	QPSK 50_25	1:1.58	40620/2593	0.272	20.15	21.00	1.216	0.331
Right tilted	20	QPSK 50_25	1:1.58	40620/2593	0.066	20.15	21.00	1.216	0.080
Body 10mm(1RB)									
Front side	20	QPSK 1_50	1:1.58	40620/2593	0.061	20.95	22.00	1.274	0.078
Back side	20	QPSK 1_50	1:1.58	40620/2593	0.055	20.95	22.00	1.274	0.070
Left side	20	QPSK 1_50	1:1.58	40620/2593	0.057	20.95	22.00	1.274	0.073
Top side	20	QPSK 1_50	1:1.58	40620/2593	0.008	20.95	22.00	1.274	0.010
Front side	20	QPSK 1_50	1:1.58	39750/2506	0.064	20.91	22.00	1.285	0.082
Front side Class2	20	QPSK 1_50	1:2.31	39750/2506	0.061	24.03	25.00	1.250	0.076
Front side	20	QPSK 1_50	1:1.58	40185/2549.5	0.061	20.93	22.00	1.279	0.078
Front side	20	QPSK 1_50	1:1.58	41055/2636.5	0.062	20.90	22.00	1.288	0.080
Front side	20	QPSK 1_50	1:1.58	41490/2680	0.054	20.92	22.00	1.282	0.069
Front side	20	QPSK PCC 1_99	1:1.58	39750/2506	0.062	21.56	22.00	1.107	0.069
	20	QPSK SCC 1_0		39948/2525.8					
Body 10mm(50%RB)									
Front side	20	QPSK 50_25	1:1.58	40620/2593	0.053	20.15	21.00	1.216	0.064
Back side	20	QPSK 50_25	1:1.58	40620/2593	0.044	20.15	21.00	1.216	0.054
Left side	20	QPSK 50_25	1:1.58	40620/2593	0.040	20.15	21.00	1.216	0.049
Top side	20	QPSK 50_25	1:1.58	40620/2593	0.007	20.15	21.00	1.216	0.009
Ant 1 Test Results									
Test position	BW. (MHz)	Mode	Duty Cycle	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)									
Left cheek	20	QPSK 1_99	1:1.58	41490/2680	0.008	22.68	23.50	1.208	0.010
Left tilted	20	QPSK 1_99	1:1.58	41490/2680	0.005	22.68	23.50	1.208	0.006
Right cheek	20	QPSK 1_99	1:1.58	41490/2680	0.012	22.68	23.50	1.208	0.014
Right tilted	20	QPSK 1_99	1:1.58	41490/2680	0.004	22.68	23.50	1.208	0.005
Right cheek	20	QPSK 1_99	1:1.58	39750/2506	0.008	22.65	23.50	1.216	0.010
Right cheek	20	QPSK 1_99	1:1.58	40185/2549.5	0.010	22.60	23.50	1.230	0.012
Right cheek	20	QPSK 1_99	1:1.58	40620/2593	0.009	22.67	23.50	1.211	0.011
Right cheek	20	QPSK 1_99	1:1.58	41055/2636.5	0.008	22.62	23.50	1.225	0.010
Right cheek Class2	20	QPSK 1_99	1:2.31	41490/2680	0.010	26.03	26.50	1.114	0.011
Right cheek	20	QPSK PCC 1_0	1:1.58	41490/2680	0.009	23.47	23.50	1.007	0.009
	20	QPSK SCC 1_99		41292/2660.2					
Head(50%RB)									
Left cheek	20	QPSK 50_25	1:1.58	41490/2680	0.006	21.82	22.50	1.169	0.007
Left tilted	20	QPSK 50_25	1:1.58	41490/2680	0.005	21.82	22.50	1.169	0.006
Right cheek	20	QPSK 50_25	1:1.58	41490/2680	0.009	21.82	22.50	1.169	0.011
Right tilted	20	QPSK 50_25	1:1.58	41490/2680	0.006	21.82	22.50	1.169	0.007
Body 10mm(1RB)									
Front side	20	QPSK 1_99	1:1.58	41490/2680	0.183	22.68	23.50	1.208	0.221
Back side	20	QPSK 1_99	1:1.58	41490/2680	0.076	22.68	23.50	1.208	0.092
Left side	20	QPSK 1_99	1:1.58	41490/2680	0.007	22.68	23.50	1.208	0.008
Bottom side	20	QPSK 1_99	1:1.58	41490/2680	0.243	22.68	23.50	1.208	0.293
Bottom side	20	QPSK 1_99	1:1.58	39750/2506	0.302	22.65	23.50	1.216	0.367
Bottom side	20	QPSK 1_99	1:1.58	40185/2549.5	0.259	22.60	23.50	1.230	0.319
Bottom side	20	QPSK 1_99	1:1.58	41055/2636.5	0.199	22.62	23.50	1.225	0.244
Bottom side	20	QPSK 1_99	1:1.58	40620/2593	0.312	22.67	23.50	1.211	0.378
Bottom side Class2	20	QPSK 1_99	1:2.31	40620/2593	0.291	26.05	26.50	1.109	0.323
Bottom side	20	QPSK PCC 1_99	1:1.58	40620/2593	0.305	23.47	23.50	1.007	0.307
	20	QPSK SCC 1_0		40818/2612.8					
Body 10mm(50%RB)									
Front side	20	QPSK 50_25	1:1.58	41490/2680	0.139	21.82	22.50	1.169	0.163
Back side	20	QPSK 50_25	1:1.58	41490/2680	0.066	21.82	22.50	1.169	0.077
Left side	20	QPSK 50_25	1:1.58	41490/2680	0.005	21.82	22.50	1.169	0.006
Bottom side	20	QPSK 50_25	1:1.58	41490/2680	0.219	21.82	22.50	1.169	0.256

Ant 2 Test Results									
Test position	BW. (MHz)	Mode	Duty Cycle	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)									
Left cheek	20	QPSK 1_99	1:1.58	41490/2680	0.050	21.88	22.50	1.153	0.058
Left tilted	20	QPSK 1_99	1:1.58	41490/2680	0.012	21.88	22.50	1.153	0.014
Right cheek	20	QPSK 1_99	1:1.58	41490/2680	0.053	21.88	22.50	1.153	0.061
Right tilted	20	QPSK 1_99	1:1.58	41490/2680	0.024	21.88	22.50	1.153	0.028
Right cheek	20	QPSK 1_99	1:1.58	39750/2506	0.060	21.85	22.50	1.161	0.070
Right cheek Class2	20	QPSK 1_99	1:2.31	39750/2506	0.052	25.18	26.00	1.208	0.063
Right cheek	20	QPSK PCC 1_99	1:1.58	39750/2506	0.057	22.46	22.50	1.009	0.058
	20	QPSK SCC 1_0		39948/2525.8					
Right cheek	20	QPSK 1_99	1:1.58	40185/2549.5	0.058	21.83	22.50	1.167	0.068
Right cheek	20	QPSK 1_99	1:1.58	40620/2593	0.058	21.79	22.50	1.178	0.068
Right cheek	20	QPSK 1_99	1:1.58	41055/2636.5	0.050	21.80	22.50	1.175	0.059
Head(50%RB)									
Left cheek	20	QPSK 50_25	1:1.58	41490/2680	0.040	21.17	21.50	1.079	0.043
Left tilted	20	QPSK 50_25	1:1.58	41490/2680	0.010	21.17	21.50	1.079	0.011
Right cheek	20	QPSK 50_25	1:1.58	41490/2680	0.038	21.17	21.50	1.079	0.041
Right tilted	20	QPSK 50_25	1:1.58	41490/2680	0.015	21.17	21.50	1.079	0.016
Body 10mm(1RB)									
Front side	20	QPSK 1_99	1:1.58	41490/2680	0.399	21.88	22.50	1.153	0.460
Back side	20	QPSK 1_99	1:1.58	41490/2680	0.288	21.88	22.50	1.153	0.332
Right side	20	QPSK 1_99	1:1.58	41490/2680	0.267	21.88	22.50	1.153	0.308
Bottom side	20	QPSK 1_99	1:1.58	41490/2680	0.445	21.88	22.50	1.153	0.513
Bottom side	20	QPSK 1_99	1:1.58	39750/2506	0.246	21.85	22.50	1.161	0.286
Bottom side	20	QPSK 1_99	1:1.58	40185/2549.5	0.315	21.83	22.50	1.167	0.368
Bottom side	20	QPSK 1_99	1:1.58	41055/2636.5	0.511	21.80	22.50	1.175	0.600
Bottom side	20	QPSK PCC 1_99	1:1.58	41055/2636.5	0.502	22.46	22.50	1.009	0.507
	20	QPSK SCC 1_0		41253/2656.3					
Bottom side Class2	20	QPSK 1_99	1:2.31	41055/2636.5	0.437	25.19	26.00	1.205	0.527
Bottom side	20	QPSK 1_99	1:1.58	40620/2593	0.426	21.79	22.50	1.178	0.502
Body 10mm(50%RB)									
Front side	20	QPSK 50_25	1:1.58	41490/2680	0.322	21.17	21.50	1.079	0.347
Back side	20	QPSK 50_25	1:1.58	41490/2680	0.230	21.17	21.50	1.079	0.248
Right side	20	QPSK 50_25	1:1.58	41490/2680	0.229	21.17	21.50	1.079	0.247
Bottom side	20	QPSK 50_25	1:1.58	41490/2680	0.362	21.17	21.50	1.079	0.391

Table 13: SAR of LTE Band 41.

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

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 with the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers were calculated to determine that the results were linear.

Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

LTE Band 41 SAR testing with power class 2 at the highest power and available duty factor was additionally performed for the power class 3 configuration with the highest SAR for each exposure condition.

LTE Band 41 Linearity Data:

Ant	Ant1 Head		Ant1 Body	
	Power Class 3	Power Class 2	Power Class 3	Power Class 2
Tune-up(dBm)	23.50	26.50	23.50	26.50
Measured power(dBm)	22.68	26.03	22.67	26.05
Measured SAR(W/kg)	0.012	0.010	0.312	0.291
Measured power(mw)	185.35	400.87	184.93	402.72
Duty Cycle	63.3%	43.3%	63.3%	43.3%
Frame Average power(mw)	117.33	173.58	117.06	174.38
% deviation from expected linearity		-43.67%		-37.39%

Ant	Ant2 Head		Ant2 Body	
	Power Class 3	Power Class 2	Power Class 3	Power Class 2
Tune-up(dBm)	22.50	26.00	22.50	26.00
Measured power(dBm)	21.85	25.18	21.80	25.19
Measured SAR(W/kg)	0.060	0.052	0.511	0.437
Measured power(mw)	153.11	329.61	151.36	330.37
Duty Cycle	63.3%	43.3%	63.3%	43.3%
Frame Average power(mw)	96.92	142.72	95.81	143.05
% deviation from expected linearity		-41.15%		-42.72%

Ant	Ant8 Head		Ant8 Body	
	Power Class 3	Power Class 2	Power Class 3	Power Class 2
Tune-up(dBm)	24.50	26.50	24.50	26.50
Measured power(dBm)	23.55	26.23	23.55	26.23
Measured SAR(W/kg)	0.778	0.757	0.204	0.197
Measured power(mw)	226.46	419.76	226.46	419.76
Duty Cycle	63.3%	43.3%	63.3%	43.3%
Frame Average power(mw)	143.35	181.76	143.35	181.76
% deviation from expected linearity		-23.26%		-23.84%

Ant	Ant10 Head		Ant10 Body	
	Power Class 3	Power Class 2	Power Class 3	Power Class 2
Tune-up(dBm)	22.00	25.00	22.00	25.00
Measured power(dBm)	20.91	24.03	20.91	24.03
Measured SAR(W/kg)	0.359	0.351	0.064	0.061
Measured power(mw)	123.31	252.93	123.31	252.93
Duty Cycle	63.3%	43.3%	63.3%	43.3%
Frame Average power(mw)	78.06	109.52	78.06	109.52
% deviation from expected linearity		-30.32%		-32.07%

15.11 SAR Measurement Result of LTE Band 42

Ant 9 Test Results									
Test position	BW. (MHz)	Mode	Duty Cycle	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)									
Left cheek	20	QPSK 1_0	1:1.58	42990/3540	0.379	20.85	21.50	1.161	0.440
Left tilted	20	QPSK 1_0	1:1.58	42990/3540	0.352	20.85	21.50	1.161	0.409
Right cheek	20	QPSK 1_0	1:1.58	42990/3540	0.944	20.85	21.50	1.161	1.096
Right tilted	20	QPSK 1_0	1:1.58	42990/3540	0.985	20.85	21.50	1.161	1.144
Right tilted Repeated	20	QPSK 1_0	1:1.58	42990/3540	0.977	20.85	21.50	1.161	1.135
Right cheek	20	QPSK 1_0	1:1.58	42190/3460	0.817	20.79	21.50	1.178	0.962
Right cheek	20	QPSK 1_0	1:1.58	42590/3500	0.736	20.83	21.50	1.167	0.859
Right tilted	20	QPSK 1_0	1:1.58	42190/3460	0.812	20.79	21.50	1.178	0.956
Right tilted	20	QPSK 1_0	1:1.58	42590/3500	0.739	20.83	21.50	1.167	0.862
Head(50%RB)									
Left cheek	20	QPSK 50_25	1:1.58	42990/3540	0.295	19.76	20.50	1.186	0.350
Left tilted	20	QPSK 50_25	1:1.58	42990/3540	0.287	19.76	20.50	1.186	0.340
Right cheek	20	QPSK 50_25	1:1.58	42990/3540	0.668	19.76	20.50	1.186	0.792
Right tilted	20	QPSK 50_25	1:1.58	42990/3540	0.945	19.76	20.50	1.186	1.121
Right tilted	20	QPSK 50_25	1:1.58	42190/3460	0.645	19.75	20.50	1.189	0.767
Right tilted	20	QPSK 50_25	1:1.58	42590/3500	0.579	19.70	20.50	1.202	0.696
Head(100%RB)									
Right cheek	20	QPSK 100_0	1:1.58	42990/3540	0.657	19.75	20.50	1.189	0.781
Right tilted	20	QPSK 100_0	1:1.58	42990/3540	0.723	19.75	20.50	1.189	0.859
Head(1RB) (Simultaneous transmission)									
Left cheek	20	QPSK 1_0	1:1.58	42990/3540	0.379	20.85	20.50	0.923	0.350
Left tilted	20	QPSK 1_0	1:1.58	42990/3540	0.352	20.85	20.50	0.923	0.325
Right cheek	20	QPSK 1_0	1:1.58	42990/3540	0.944	20.85	20.50	0.923	0.871
Right tilted	20	QPSK 1_0	1:1.58	42990/3540	0.985	20.85	20.50	0.923	0.909
Right tilted Repeated	20	QPSK 1_0	1:1.58	42990/3540	0.977	20.85	20.50	0.923	0.901
Right cheek	20	QPSK 1_0	1:1.58	42190/3460	0.817	20.79	20.50	0.935	0.764
Right cheek	20	QPSK 1_0	1:1.58	42590/3500	0.736	20.83	20.50	0.927	0.682
Right tilted	20	QPSK 1_0	1:1.58	42190/3460	0.812	20.79	20.50	0.935	0.760
Right tilted	20	QPSK 1_0	1:1.58	42590/3500	0.739	20.83	20.50	0.927	0.685
Head(50%RB) (Simultaneous transmission)									
Left cheek	20	QPSK 50_25	1:1.58	42990/3540	0.295	19.76	19.50	0.942	0.278
Left tilted	20	QPSK 50_25	1:1.58	42990/3540	0.287	19.76	19.50	0.942	0.270
Right cheek	20	QPSK 50_25	1:1.58	42990/3540	0.668	19.76	19.50	0.942	0.629
Right tilted	20	QPSK 50_25	1:1.58	42990/3540	0.945	19.76	19.50	0.942	0.890
Right tilted	20	QPSK 50_25	1:1.58	42190/3460	0.645	19.75	19.50	0.944	0.609
Right tilted	20	QPSK 50_25	1:1.58	42590/3500	0.579	19.70	19.50	0.955	0.553
Head(100%RB) (Simultaneous transmission)									
Right cheek	20	QPSK 100_0	1:1.58	42990/3540	0.657	19.75	19.50	0.944	0.620
Right tilted	20	QPSK 100_0	1:1.58	42990/3540	0.723	19.75	19.50	0.944	0.683
Body 10mm(1RB)									
Front side	20	QPSK 1_0	1:1.58	42990/3540	0.300	20.85	21.50	1.161	0.348
Back side	20	QPSK 1_0	1:1.58	42990/3540	0.144	20.85	21.50	1.161	0.167
Left side	20	QPSK 1_0	1:1.58	42990/3540	0.441	20.85	21.50	1.161	0.512
Top side	20	QPSK 1_0	1:1.58	42990/3540	0.338	20.85	21.50	1.161	0.393
Left side	20	QPSK 1_0	1:1.58	42190/3460	0.425	20.79	21.50	1.178	0.500
Left side	20	QPSK 1_0	1:1.58	42590/3500	0.398	20.83	21.50	1.167	0.464
Body 10mm(50%RB)									
Front side	20	QPSK 50_25	1:1.58	42990/3540	0.242	19.76	20.50	1.186	0.287
Back side	20	QPSK 50_25	1:1.58	42990/3540	0.116	19.76	20.50	1.186	0.138
Left side	20	QPSK 50_25	1:1.58	42990/3540	0.251	19.76	20.50	1.186	0.298
Top side	20	QPSK 50_25	1:1.58	42990/3540	0.268	19.76	20.50	1.186	0.318

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right tilted	42990/3540	0.985	0.977	1.008	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

Ant 0 Test Results									
Test position	BW. (MHz)	Mode	Duty Cycle	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)									
Left cheek	20	QPSK 1_99	1:1.58	42990/3540	0.019	20.95	21.50	1.135	0.022
Left tilted	20	QPSK 1_99	1:1.58	42990/3540	0.005	20.95	21.50	1.135	0.006
Right cheek	20	QPSK 1_99	1:1.58	42990/3540	0.009	20.95	21.50	1.135	0.010
Right tilted	20	QPSK 1_99	1:1.58	42990/3540	0.010	20.95	21.50	1.135	0.011
Left cheek	20	QPSK 1_99	1:1.58	42190/3460	0.017	20.81	21.50	1.172	0.020
Left cheek	20	QPSK 1_99	1:1.58	42590/3500	0.028	20.88	21.50	1.153	0.032
Head(50%RB)									
Left cheek	20	QPSK 50_50	1:1.58	42990/3540	0.010	20.12	21.00	1.225	0.012
Left tilted	20	QPSK 50_50	1:1.58	42990/3540	0.005	20.12	21.00	1.225	0.006
Right cheek	20	QPSK 50_50	1:1.58	42990/3540	0.008	20.12	21.00	1.225	0.010
Right tilted	20	QPSK 50_50	1:1.58	42990/3540	0.003	20.12	21.00	1.225	0.004
Body 10mm(1RB)									
Front side	20	QPSK 1_99	1:1.58	42990/3540	0.069	20.95	21.50	1.135	0.078
Back side	20	QPSK 1_99	1:1.58	42990/3540	0.075	20.95	21.50	1.135	0.085
Left side	20	QPSK 1_99	1:1.58	42990/3540	0.077	20.95	21.50	1.135	0.087
Bottom side	20	QPSK 1_99	1:1.58	42990/3540	0.052	20.95	21.50	1.135	0.059
Left side	20	QPSK 1_99	1:1.58	42190/3460	0.064	20.81	21.50	1.172	0.075
Left side	20	QPSK 1_99	1:1.58	42590/3500	0.063	20.88	21.50	1.153	0.073
Body 10mm(50%RB)									
Front side	20	QPSK 50_50	1:1.58	42990/3540	0.057	20.12	21.00	1.225	0.070
Back side	20	QPSK 50_50	1:1.58	42990/3540	0.064	20.12	21.00	1.225	0.078
Left side	20	QPSK 50_50	1:1.58	42990/3540	0.069	20.12	21.00	1.225	0.084
Bottom side	20	QPSK 50_50	1:1.58	42990/3540	0.032	20.12	21.00	1.225	0.039
Ant 7 Test Results									
Test position	BW. (MHz)	Mode	Duty Cycle	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)									
Left cheek	20	QPSK 1_0	1:1.58	42190/3460	0.231	17.84	18.00	1.038	0.240
Left tilted	20	QPSK 1_0	1:1.58	42190/3460	0.224	17.84	18.00	1.038	0.232
Right cheek	20	QPSK 1_0	1:1.58	42190/3460	0.146	17.84	18.00	1.038	0.151
Right tilted	20	QPSK 1_0	1:1.58	42190/3460	0.164	17.84	18.00	1.038	0.170
Left cheek	20	QPSK 1_0	1:1.58	42590/3500	0.224	17.19	18.00	1.205	0.270
Left cheek	20	QPSK 1_0	1:1.58	42990/3540	0.415	17.06	18.00	1.242	0.515
Head(50%RB)									
Left cheek	20	QPSK 50_0	1:1.58	42190/3460	0.178	16.87	17.00	1.030	0.183
Left tilted	20	QPSK 50_0	1:1.58	42190/3460	0.167	16.87	17.00	1.030	0.172
Right cheek	20	QPSK 50_0	1:1.58	42190/3460	0.118	16.87	17.00	1.030	0.122
Right tilted	20	QPSK 50_0	1:1.58	42190/3460	0.125	16.87	17.00	1.030	0.129
Body 10mm(1RB)									
Front side	20	QPSK 1_0	1:1.58	42190/3460	0.063	17.84	18.00	1.038	0.065
Back side	20	QPSK 1_0	1:1.58	42190/3460	0.040	17.84	18.00	1.038	0.042
Right side	20	QPSK 1_0	1:1.58	42190/3460	0.024	17.84	18.00	1.038	0.025
Top side	20	QPSK 1_0	1:1.58	42190/3460	0.071	17.84	18.00	1.038	0.074
Top side	20	QPSK 1_0	1:1.58	42590/3500	0.059	17.19	18.00	1.205	0.071
Top side	20	QPSK 1_0	1:1.58	42990/3540	0.058	17.06	18.00	1.242	0.072
Body 10mm(50%RB)									
Front side	20	QPSK 50_0	1:1.58	42190/3460	0.053	16.87	17.00	1.030	0.055
Back side	20	QPSK 50_0	1:1.58	42190/3460	0.029	16.87	17.00	1.030	0.030
Right side	20	QPSK 50_0	1:1.58	42190/3460	0.021	16.87	17.00	1.030	0.022
Top side	20	QPSK 50_0	1:1.58	42190/3460	0.069	16.87	17.00	1.030	0.071

Ant 2 Test Results									
Test position	BW. (MHz)	Mode	Duty Cycle	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)									
Left cheek	20	QPSK 1_99	1:1.58	42990/3540	0.009	14.12	15.00	1.225	0.011
Left tilted	20	QPSK 1_99	1:1.58	42990/3540	0.006	14.12	15.00	1.225	0.007
Right cheek	20	QPSK 1_99	1:1.58	42990/3540	0.005	14.12	15.00	1.225	0.006
Right tilted	20	QPSK 1_99	1:1.58	42990/3540	0.005	14.12	15.00	1.225	0.006
Left cheek	20	QPSK 1_99	1:1.58	42190/3460	0.012	14.01	15.00	1.256	0.015
Left cheek	20	QPSK 1_99	1:1.58	42590/3500	0.007	14.03	15.00	1.250	0.009
Head(50%RB)									
Left cheek	20	QPSK 50_50	1:1.58	42990/3540	0.005	13.24	14.00	1.191	0.006
Left tilted	20	QPSK 50_50	1:1.58	42990/3540	0.004	13.24	14.00	1.191	0.005
Right cheek	20	QPSK 50_50	1:1.58	42990/3540	0.003	13.24	14.00	1.191	0.004
Right tilted	20	QPSK 50_50	1:1.58	42990/3540	0.003	13.24	14.00	1.191	0.004
Body 10mm(1RB)									
Front side	20	QPSK 1_99	1:1.58	42990/3540	0.036	14.12	15.00	1.225	0.044
Back side	20	QPSK 1_99	1:1.58	42990/3540	0.011	14.12	15.00	1.225	0.013
Right side	20	QPSK 1_99	1:1.58	42990/3540	0.016	14.12	15.00	1.225	0.020
Bottom side	20	QPSK 1_99	1:1.58	42990/3540	0.016	14.12	15.00	1.225	0.020
Front side	20	QPSK 1_99	1:1.58	42190/3460	0.052	14.01	15.00	1.256	0.065
Front side	20	QPSK 1_99	1:1.58	42590/3500	0.045	14.03	15.00	1.250	0.056
Body 10mm(50%RB)									
Front side	20	QPSK 50_50	1:1.58	42990/3540	0.028	13.24	14.00	1.191	0.033
Back side	20	QPSK 50_50	1:1.58	42990/3540	0.013	13.24	14.00	1.191	0.015
Right side	20	QPSK 50_50	1:1.58	42990/3540	0.015	13.24	14.00	1.191	0.018
Bottom side	20	QPSK 50_50	1:1.58	42990/3540	0.016	13.24	14.00	1.191	0.019

Table 14: SAR of LTE Band 42.

15.12 SAR Measurement Result of LTE Band 66

Ant 8 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head (1RB)								
Left cheek	20	QPSK 1_0	132572/1770	0.260	24.26	24.50	1.057	0.275
Left tilted	20	QPSK 1_0	132572/1770	0.379	24.26	24.50	1.057	0.401
Right cheek	20	QPSK 1_0	132572/1770	0.484	24.26	24.50	1.057	0.511
Right tilted	20	QPSK 1_0	132572/1770	0.494	24.26	24.50	1.057	0.522
Right tilted	20	QPSK 1_0	132072/1720	0.477	24.08	24.50	1.102	0.525
Right tilted	20	QPSK 1_0	132322/1745	0.501	24.17	24.50	1.079	0.541
Head (50%RB)								
Left cheek	20	QPSK 50_50	132572/1770	0.160	23.34	23.50	1.038	0.166
Left tilted	20	QPSK 50_50	132572/1770	0.237	23.34	23.50	1.038	0.246
Right cheek	20	QPSK 50_50	132572/1770	0.319	23.34	23.50	1.038	0.331
Right tilted	20	QPSK 50_50	132572/1770	0.399	23.34	23.50	1.038	0.414
Body 10mm(1RB)								
Front side	20	QPSK 1_0	132572/1770	0.059	24.26	24.50	1.057	0.062
Back side	20	QPSK 1_0	132572/1770	0.064	24.26	24.50	1.057	0.068
Left side	20	QPSK 1_0	132572/1770	0.008	24.26	24.50	1.057	0.008
Top side	20	QPSK 1_0	132572/1770	0.086	24.26	24.50	1.057	0.091
Top side	20	QPSK 1_0	132072/1720	0.141	24.08	24.50	1.102	0.155
Top side	20	QPSK 1_0	132322/1745	0.147	24.17	24.50	1.079	0.159
Body 10mm(50%RB)								
Front side	20	QPSK 50_50	132572/1770	0.073	23.34	23.50	1.038	0.076
Back side	20	QPSK 50_50	132572/1770	0.070	23.34	23.50	1.038	0.073
Left side	20	QPSK 50_50	132572/1770	0.006	23.34	23.50	1.038	0.006
Top side	20	QPSK 50_50	132572/1770	0.095	23.34	23.50	1.038	0.099

Ant 10 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head (1RB)								
Left cheek	20	QPSK 1_0	132572/1770	0.381	19.78	20.50	1.180	0.450
Left tilted	20	QPSK 1_0	132572/1770	0.184	19.78	20.50	1.180	0.217
Right cheek	20	QPSK 1_0	132572/1770	1.030	19.78	20.50	1.180	1.216
Right tilted	20	QPSK 1_0	132572/1770	0.334	19.78	20.50	1.180	0.394
Right cheek	20	QPSK 1_0	132072/1720	1.040	19.62	20.50	1.225	1.274
Right cheek Repeated	20	QPSK 1_0	132072/1720	0.974	19.62	20.50	1.225	1.193
Right cheek	20	QPSK 1_0	132322/1745	1.010	19.69	20.50	1.205	1.217
Head (50%RB)								
Left cheek	20	QPSK 50_25	132572/1770	0.291	18.77	19.50	1.183	0.344
Left tilted	20	QPSK 50_25	132572/1770	0.148	18.77	19.50	1.183	0.175
Right cheek	20	QPSK 50_25	132572/1770	0.807	18.77	19.50	1.183	0.955
Right tilted	20	QPSK 50_25	132572/1770	0.256	18.77	19.50	1.183	0.303
Right cheek	20	QPSK 50_25	132072/1720	0.852	18.70	19.50	1.202	1.024
Right cheek	20	QPSK 50_25	132322/1745	0.827	18.76	19.50	1.186	0.981
Head (100%RB)								
Right cheek	20	QPSK 100_0	132572/1770	0.801	18.67	19.50	1.211	0.970
Head (1RB) (Simultaneous transmission)								
Left cheek	20	QPSK 1_0	132572/1770	0.381	19.78	19.50	0.938	0.357
Left tilted	20	QPSK 1_0	132572/1770	0.184	19.78	19.50	0.938	0.173
Right cheek	20	QPSK 1_0	132572/1770	1.030	19.78	19.50	0.938	0.966
Right tilted	20	QPSK 1_0	132572/1770	0.334	19.78	19.50	0.938	0.313
Right cheek	20	QPSK 1_0	132072/1720	1.040	19.62	19.50	0.973	1.012
Right cheek Repeated	20	QPSK 1_0	132072/1720	0.974	19.62	19.50	0.973	0.947
Right cheek	20	QPSK 1_0	132322/1745	1.010	19.69	19.50	0.957	0.967
Head (50%RB) (Simultaneous transmission)								
Left cheek	20	QPSK 50_25	132572/1770	0.291	18.77	18.50	0.940	0.273
Left tilted	20	QPSK 50_25	132572/1770	0.148	18.77	18.50	0.940	0.139
Right cheek	20	QPSK 50_25	132572/1770	0.807	18.77	18.50	0.940	0.758
Right tilted	20	QPSK 50_25	132572/1770	0.256	18.77	18.50	0.940	0.241
Right cheek	20	QPSK 50_25	132072/1720	0.852	18.70	18.50	0.955	0.814
Right cheek	20	QPSK 50_25	132322/1745	0.827	18.76	18.50	0.942	0.779
Head (100%RB) (Simultaneous transmission)								
Right cheek	20	QPSK 100_0	132572/1770	0.801	18.67	18.50	0.962	0.770
Body 10mm(1RB)								
Front side	20	QPSK 1_0	132572/1770	0.232	19.78	20.50	1.180	0.274
Back side	20	QPSK 1_0	132572/1770	0.222	19.78	20.50	1.180	0.262
Left side	20	QPSK 1_0	132572/1770	0.335	19.78	20.50	1.180	0.395
Top side	20	QPSK 1_0	132572/1770	0.057	19.78	20.50	1.180	0.067
Left side	20	QPSK 1_0	132072/1720	0.368	19.62	20.50	1.225	0.451
Left side	20	QPSK 1_0	132322/1745	0.328	19.69	20.50	1.205	0.395
Body 10mm(50%RB)								
Front side	20	QPSK 50_25	132572/1770	0.174	18.77	19.50	1.183	0.206
Back side	20	QPSK 50_25	132572/1770	0.167	18.77	19.50	1.183	0.198
Left side	20	QPSK 50_25	132572/1770	0.256	18.77	19.50	1.183	0.303
Top side	20	QPSK 50_25	132572/1770	0.047	18.77	19.50	1.183	0.056

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right cheek	132072/1720	1.040	0.974	1.068	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

Ant 1 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head (1RB)								
Left cheek	20	QPSK 1_0	132072/1720	0.037	24.25	24.50	1.059	0.039
Left tilted	20	QPSK 1_0	132072/1720	0.020	24.25	24.50	1.059	0.021
Right cheek	20	QPSK 1_0	132072/1720	0.072	24.25	24.50	1.059	0.076
Right tilted	20	QPSK 1_0	132072/1720	0.015	24.25	24.50	1.059	0.016
Right cheek	20	QPSK 1_0	132322/1745	0.054	24.01	24.50	1.119	0.060
Right cheek	20	QPSK 1_0	132572/1770	0.047	23.98	24.50	1.127	0.053
Head (50%RB)								
Left cheek	20	QPSK 50_25	132072/1720	0.026	23.10	23.50	1.096	0.029
Left tilted	20	QPSK 50_25	132072/1720	0.017	23.10	23.50	1.096	0.019
Right cheek	20	QPSK 50_25	132072/1720	0.049	23.10	23.50	1.096	0.054
Right tilted	20	QPSK 50_25	132072/1720	0.011	23.10	23.50	1.096	0.012
Body 10mm(1RB)								
Front side	20	QPSK 1_0	132072/1720	0.297	24.25	24.50	1.059	0.315
Back side	20	QPSK 1_0	132072/1720	0.190	24.25	24.50	1.059	0.201
Left side	20	QPSK 1_0	132072/1720	0.137	24.25	24.50	1.059	0.145
Bottom side	20	QPSK 1_0	132072/1720	0.192	24.25	24.50	1.059	0.203
Front side	20	QPSK 1_0	132322/1745	0.235	24.01	24.50	1.119	0.263
Front side	20	QPSK 1_0	132572/1770	0.207	23.98	24.50	1.127	0.233
Body 10mm(50%RB)								
Front side	20	QPSK 50_25	132072/1720	0.185	23.10	23.50	1.096	0.203
Back side	20	QPSK 50_25	132072/1720	0.146	23.10	23.50	1.096	0.160
Left side	20	QPSK 50_25	132072/1720	0.094	23.10	23.50	1.096	0.103
Bottom side	20	QPSK 50_25	132072/1720	0.141	23.10	23.50	1.096	0.155
Ant 2 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head (1RB)								
Left cheek	20	QPSK 1_0	132322/1745	0.013	23.99	24.50	1.125	0.015
Left tilted	20	QPSK 1_0	132322/1745	0.006	23.99	24.50	1.125	0.007
Right cheek	20	QPSK 1_0	132322/1745	0.045	23.99	24.50	1.125	0.051
Right tilted	20	QPSK 1_0	132322/1745	0.005	23.99	24.50	1.125	0.006
Right cheek	20	QPSK 1_0	132072/1720	0.029	23.89	24.50	1.151	0.033
Right cheek	20	QPSK 1_0	132572/1770	0.039	23.87	24.50	1.156	0.045
Head (50%RB)								
Left cheek	20	QPSK 50_25	132322/1745	0.009	22.74	23.50	1.191	0.011
Left tilted	20	QPSK 50_25	132322/1745	0.006	22.74	23.50	1.191	0.007
Right cheek	20	QPSK 50_25	132322/1745	0.033	22.74	23.50	1.191	0.039
Right tilted	20	QPSK 50_25	132322/1745	0.004	22.74	23.50	1.191	0.005
Body 10mm(1RB)								
Front side	20	QPSK 1_0	132322/1745	0.116	23.99	24.50	1.125	0.130
Back side	20	QPSK 1_0	132322/1745	0.116	23.99	24.50	1.125	0.130
Right side	20	QPSK 1_0	132322/1745	0.100	23.99	24.50	1.125	0.112
Bottom side	20	QPSK 1_0	132322/1745	0.119	23.99	24.50	1.125	0.134
Bottom side	20	QPSK 1_0	132072/1720	0.091	23.89	24.50	1.151	0.105
Bottom side	20	QPSK 1_0	132572/1770	0.120	23.87	24.50	1.156	0.139
Body 10mm(50%RB)								
Front side	20	QPSK 50_25	132322/1745	0.095	22.74	23.50	1.191	0.113
Back side	20	QPSK 50_25	132322/1745	0.089	22.74	23.50	1.191	0.106
Right side	20	QPSK 50_25	132322/1745	0.085	22.74	23.50	1.191	0.101
Bottom side	20	QPSK 50_25	132322/1745	0.097	22.74	23.50	1.191	0.116

Table 15: SAR of LTE Band 66.

15.13 SAR Measurement Result of 5G NR n5

Ant 3 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	20	QPSK 1_1	167300/836.5	0.135	23.31	24.00	1.172	0.158
Left tilted	20	QPSK 1_1	167300/836.5	0.010	23.31	24.00	1.172	0.012
Right cheek	20	QPSK 1_1	167300/836.5	0.337	23.31	24.00	1.172	0.395
Right tilted	20	QPSK 1_1	167300/836.5	0.015	23.31	24.00	1.172	0.018
Right cheek	20	QPSK 1_1	166800/834	0.377	23.28	24.00	1.180	0.445
Right cheek	20	QPSK 1_1	167800/839	0.376	23.30	24.00	1.175	0.442
Head(50%RB)								
Left cheek	20	QPSK 50_0	167300/836.5	0.136	23.10	24.00	1.230	0.167
Left tilted	20	QPSK 50_0	167300/836.5	0.009	23.10	24.00	1.230	0.011
Right cheek	20	QPSK 50_0	167300/836.5	0.339	23.10	24.00	1.230	0.417
Right tilted	20	QPSK 50_0	167300/836.5	0.014	23.10	24.00	1.230	0.017
Body 10mm(1RB)								
Front side	20	QPSK 1_1	167300/836.5	0.151	23.31	24.00	1.172	0.177
Back side	20	QPSK 1_1	167300/836.5	0.132	23.31	24.00	1.172	0.155
Right side	20	QPSK 1_1	167300/836.5	0.198	23.31	24.00	1.172	0.232
Right side	20	QPSK 1_1	166800/834	0.304	23.28	24.00	1.180	0.359
Right side	20	QPSK 1_1	167800/839	0.223	23.30	24.00	1.175	0.262
Body 10mm(50%RB)								
Front side	20	QPSK 50_0	167300/836.5	0.144	23.10	24.00	1.230	0.177
Back side	20	QPSK 50_0	167300/836.5	0.126	23.10	24.00	1.230	0.155
Right side	20	QPSK 50_0	167300/836.5	0.212	23.10	24.00	1.230	0.261

Ant 11 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	20	QPSK 1_1	167300/836.5	0.813	22.78	23.50	1.180	0.960
Left tilted	20	QPSK 1_1	167300/836.5	0.109	22.78	23.50	1.180	0.129
Right cheek	20	QPSK 1_1	167300/836.5	0.325	22.78	23.50	1.180	0.384
Right tilted	20	QPSK 1_1	167300/836.5	0.066	22.78	23.50	1.180	0.078
Left cheek	20	QPSK 1_1	166800/834	0.892	22.76	23.50	1.186	1.058
Left cheek Repeated	20	QPSK 1_1	166800/834	0.845	22.76	23.50	1.186	1.002
Left cheek	20	QPSK 1_1	167800/839	0.773	22.74	23.50	1.191	0.921
Head(50%RB)								
Left cheek	20	QPSK 50_0	167300/836.5	0.757	22.74	23.50	1.191	0.902
Left tilted	20	QPSK 50_0	167300/836.5	0.100	22.74	23.50	1.191	0.119
Right cheek	20	QPSK 50_0	167300/836.5	0.296	22.74	23.50	1.191	0.353
Right tilted	20	QPSK 50_0	167300/836.5	0.064	22.74	23.50	1.191	0.076
Left cheek	20	QPSK 50_0	166800/834	0.782	22.73	23.50	1.194	0.934
Left cheek	20	QPSK 50_0	167800/839	0.733	22.70	23.50	1.202	0.881
Head(100%RB)								
Left cheek	20	QPSK 100_0	167300/836.5	0.480	22.60	23.50	1.230	0.591
Head(1RB) (Simultaneous transmission)								
Left cheek	20	QPSK 1_1	167300/836.5	0.813	22.78	20.50	0.592	0.481
Left tilted	20	QPSK 1_1	167300/836.5	0.109	22.78	20.50	0.592	0.064
Right cheek	20	QPSK 1_1	167300/836.5	0.325	22.78	20.50	0.592	0.192
Right tilted	20	QPSK 1_1	167300/836.5	0.066	22.78	20.50	0.592	0.039
Left cheek	20	QPSK 1_1	166800/834	0.892	22.76	20.50	0.594	0.530
Left cheek Repeated	20	QPSK 1_1	166800/834	0.845	22.76	20.50	0.594	0.502
Left cheek	20	QPSK 1_1	167800/839	0.773	22.74	20.50	0.597	0.462
Head(50%RB) (Simultaneous transmission)								
Left cheek	20	QPSK 50_0	167300/836.5	0.757	22.74	20.50	0.597	0.452
Left tilted	20	QPSK 50_0	167300/836.5	0.100	22.74	20.50	0.597	0.060
Right cheek	20	QPSK 50_0	167300/836.5	0.296	22.74	20.50	0.597	0.177
Right tilted	20	QPSK 50_0	167300/836.5	0.064	22.74	20.50	0.597	0.038
Left cheek	20	QPSK 50_0	166800/834	0.782	22.73	20.50	0.598	0.468
Left cheek	20	QPSK 50_0	167800/839	0.733	22.70	20.50	0.603	0.442
Head(100%RB) (Simultaneous transmission)								
Left cheek	20	QPSK 100_0	167300/836.5	0.480	22.60	20.50	0.617	0.296
Body 10mm(1RB)								
Front side	20	QPSK 1_1	167300/836.5	0.362	22.78	23.50	1.180	0.427
Back side	20	QPSK 1_1	167300/836.5	0.305	22.78	23.50	1.180	0.360
Left side	20	QPSK 1_1	167300/836.5	0.485	22.78	23.50	1.180	0.572
Left side	20	QPSK 1_1	167800/839	0.466	22.76	23.50	1.186	0.553
Left side	20	QPSK 1_1	166800/834	0.594	22.74	23.50	1.191	0.708
Body 10mm(50%RB)								
Front side	20	QPSK 50_0	167300/836.5	0.327	22.74	23.50	1.191	0.390
Back side	20	QPSK 50_0	167300/836.5	0.278	22.74	23.50	1.191	0.331
Left side	20	QPSK 50_0	167300/836.5	0.463	22.74	23.50	1.191	0.552

Table 16: SAR of 5G NR n5.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Left cheek	166800/834	0.892	0.845	1.056	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

15.14 SAR Measurement Result of 5G NR n7

Ant 8 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head								
Left cheek	40	QPSK 1_1	507000/2535	0.407	23.36	24.00	1.159	0.472
Left tilted	40	QPSK 1_1	507000/2535	0.477	23.36	24.00	1.159	0.553
Right cheek	40	QPSK 1_1	507000/2535	0.569	23.36	24.00	1.159	0.659
Right tilted	40	QPSK 1_1	507000/2535	0.626	23.36	24.00	1.159	0.725
Right tilted	40	QPSK 1_1	504000/2520	0.616	23.30	24.00	1.175	0.724
Right tilted	40	QPSK 1_1	510000/2550	0.649	23.34	24.00	1.164	0.756
Head(50%RB)								
Left cheek	40	QPSK 108_54	507000/2535	0.448	23.31	24.00	1.172	0.525
Left tilted	40	QPSK 108_54	507000/2535	0.532	23.31	24.00	1.172	0.624
Right cheek	40	QPSK 108_54	507000/2535	0.614	23.31	24.00	1.172	0.720
Right tilted	40	QPSK 108_54	507000/2535	0.616	23.31	24.00	1.172	0.722
Body 10mm(1RB)								
Front side	40	QPSK 1_1	507000/2535	0.112	23.36	24.00	1.159	0.130
Back side	40	QPSK 1_1	507000/2535	0.082	23.36	24.00	1.159	0.095
Left side	40	QPSK 1_1	507000/2535	0.010	23.36	24.00	1.159	0.012
Top side	40	QPSK 1_1	507000/2535	0.140	23.36	24.00	1.159	0.162
Top side	40	QPSK 1_1	504000/2520	0.119	23.30	24.00	1.175	0.140
Top side	40	QPSK 1_1	510000/2550	0.158	23.34	24.00	1.164	0.184
Body 10mm(50%RB)								
Front side	40	QPSK 108_54	507000/2535	0.126	23.31	24.00	1.172	0.148
Back side	40	QPSK 108_54	507000/2535	0.094	23.31	24.00	1.172	0.110
Left side	40	QPSK 108_54	507000/2535	0.010	23.31	24.00	1.172	0.012
Top side	40	QPSK 108_54	507000/2535	0.131	23.31	24.00	1.172	0.154
Ant 10 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	40	QPSK 1_1	507000/2535	0.307	20.88	21.00	1.028	0.316
Left tilted	40	QPSK 1_1	507000/2535	0.085	20.88	21.00	1.028	0.087
Right cheek	40	QPSK 1_1	507000/2535	0.701	20.88	21.00	1.028	0.721
Right tilted	40	QPSK 1_1	507000/2535	0.170	20.88	21.00	1.028	0.175
Right cheek	40	QPSK 1_1	504000/2520	0.774	20.87	21.00	1.030	0.798
Right cheek	40	QPSK 1_1	510000/2550	0.673	20.85	21.00	1.035	0.697
Head(50%RB)								
Left cheek	40	QPSK 108_54	507000/2535	0.321	20.82	21.00	1.042	0.335
Left tilted	40	QPSK 108_54	507000/2535	0.075	20.82	21.00	1.042	0.078
Right cheek	40	QPSK 108_54	507000/2535	0.674	20.82	21.00	1.042	0.703
Right tilted	40	QPSK 108_54	507000/2535	0.156	20.82	21.00	1.042	0.163
Body 10mm(1RB)								
Front side	40	QPSK 1_1	507000/2535	0.129	20.88	21.00	1.028	0.133
Back side	40	QPSK 1_1	507000/2535	0.125	20.88	21.00	1.028	0.129
Left side	40	QPSK 1_1	507000/2535	0.113	20.88	21.00	1.028	0.116
Top side	40	QPSK 1_1	507000/2535	0.010	20.88	21.00	1.028	0.010
Front side	40	QPSK 1_1	504000/2520	0.114	20.87	21.00	1.030	0.117
Front side	40	QPSK 1_1	510000/2550	0.127	20.85	21.00	1.035	0.131
Body 10mm(50%RB)								
Front side	40	QPSK 108_54	507000/2535	0.127	20.82	21.00	1.042	0.132
Back side	40	QPSK 108_54	507000/2535	0.122	20.82	21.00	1.042	0.127
Left side	40	QPSK 108_54	507000/2535	0.118	20.82	21.00	1.042	0.123
Top side	40	QPSK 108_54	507000/2535	0.011	20.82	21.00	1.042	0.011

Table 17: SAR of 5G NR n7.

15.15 SAR Measurement Result of 5G NR n25

Ant 8 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	20	QPSK 1_1	381000/1905	0.315	23.41	24.00	1.146	0.361
Left tilted	20	QPSK 1_1	381000/1905	0.426	23.41	24.00	1.146	0.488
Right cheek	20	QPSK 1_1	381000/1905	0.490	23.41	24.00	1.146	0.561
Right tilted	20	QPSK 1_1	381000/1905	0.520	23.41	24.00	1.146	0.596
Right tilted	20	QPSK 1_1	372000/1860	0.561	23.40	24.00	1.148	0.644
Right tilted	20	QPSK 1_1	376500/1882.5	0.525	23.38	24.00	1.153	0.606
Head(50%RB)								
Left cheek	20	QPSK 50_28	381000/1905	0.329	23.31	24.00	1.172	0.386
Left tilted	20	QPSK 50_28	381000/1905	0.447	23.31	24.00	1.172	0.524
Right cheek	20	QPSK 50_28	381000/1905	0.500	23.31	24.00	1.172	0.586
Right tilted	20	QPSK 50_28	381000/1905	0.504	23.31	24.00	1.172	0.591
Body 10mm(1RB)								
Front side	20	QPSK 1_1	381000/1905	0.095	23.41	24.00	1.146	0.109
Back side	20	QPSK 1_1	381000/1905	0.079	23.41	24.00	1.146	0.090
Left side	20	QPSK 1_1	381000/1905	0.045	23.41	24.00	1.146	0.052
Top side	20	QPSK 1_1	381000/1905	0.171	23.41	24.00	1.146	0.196
Top side	20	QPSK 1_1	372000/1860	0.197	23.40	24.00	1.148	0.226
Top side	20	QPSK 1_1	376500/1882.5	0.173	23.38	24.00	1.153	0.200
Body 10mm(50%RB)								
Front side	20	QPSK 50_28	381000/1905	0.096	23.31	24.00	1.172	0.113
Back side	20	QPSK 50_28	381000/1905	0.083	23.31	24.00	1.172	0.097
Left side	20	QPSK 50_28	381000/1905	0.045	23.31	24.00	1.172	0.053
Top side	20	QPSK 50_28	381000/1905	0.162	23.31	24.00	1.172	0.190

Ant 10 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	20	QPSK 1_1	376500/1882.5	0.425	20.56	21.00	1.107	0.470
Left tilted	20	QPSK 1_1	376500/1882.5	0.274	20.56	21.00	1.107	0.303
Right cheek	20	QPSK 1_1	376500/1882.5	1.020	20.56	21.00	1.107	1.129
Right tilted	20	QPSK 1_1	376500/1882.5	0.320	20.56	21.00	1.107	0.354
Right cheek	20	QPSK 1_1	372000/1860	1.170	20.45	21.00	1.135	1.328
Right cheek Repeated	20	QPSK 1_1	372000/1860	1.120	20.45	21.00	1.135	1.271
Right cheek	20	QPSK 1_1	381000/1905	1.070	20.54	21.00	1.112	1.190
Head(50%RB)								
Left cheek	20	QPSK 50_28	376500/1882.5	0.412	20.52	21.00	1.117	0.460
Left tilted	20	QPSK 50_28	376500/1882.5	0.266	20.52	21.00	1.117	0.297
Right cheek	20	QPSK 50_28	376500/1882.5	0.988	20.52	21.00	1.117	1.103
Right tilted	20	QPSK 50_28	376500/1882.5	0.306	20.52	21.00	1.117	0.342
Right cheek	20	QPSK 50_28	372000/1860	1.020	20.51	21.00	1.119	1.142
Right cheek	20	QPSK 50_28	381000/1905	0.936	20.46	21.00	1.132	1.060
Head(100%RB)								
Right cheek	20	QPSK 100_0	376500/1882.5	0.979	20.53	21.00	1.114	1.091
Head(1RB) (Simultaneous transmission)								
Left cheek	20	QPSK 1_1	376500/1882.5	0.425	20.56	20.00	0.879	0.374
Left tilted	20	QPSK 1_1	376500/1882.5	0.274	20.56	20.00	0.879	0.241
Right cheek	20	QPSK 1_1	376500/1882.5	1.020	20.56	20.00	0.879	0.897
Right tilted	20	QPSK 1_1	376500/1882.5	0.320	20.56	20.00	0.879	0.281
Right cheek	20	QPSK 1_1	372000/1860	1.170	20.45	20.00	0.902	1.055
Right cheek Repeated	20	QPSK 1_1	372000/1860	1.120	20.45	20.00	0.902	1.010
Right cheek	20	QPSK 1_1	381000/1905	1.070	20.54	20.00	0.883	0.945
Head(50%RB) (Simultaneous transmission)								
Left cheek	20	QPSK 50_28	376500/1882.5	0.412	20.52	20.00	0.887	0.366
Left tilted	20	QPSK 50_28	376500/1882.5	0.266	20.52	20.00	0.887	0.236
Right cheek	20	QPSK 50_28	376500/1882.5	0.988	20.52	20.00	0.887	0.877
Right tilted	20	QPSK 50_28	376500/1882.5	0.306	20.52	20.00	0.887	0.271
Right cheek	20	QPSK 50_28	372000/1860	1.020	20.51	20.00	0.889	0.907
Right cheek	20	QPSK 50_28	381000/1905	0.936	20.46	20.00	0.899	0.842
Head(100%RB) (Simultaneous transmission)								
Right cheek	20	QPSK 100_0	376500/1882.5	0.979	20.53	20.00	0.885	0.867
Body 10mm(1RB)								
Front side	20	QPSK 1_1	376500/1882.5	0.168	20.56	21.00	1.107	0.186
Back side	20	QPSK 1_1	376500/1882.5	0.164	20.56	21.00	1.107	0.181
Left side	20	QPSK 1_1	376500/1882.5	0.399	20.56	21.00	1.107	0.442
Top side	20	QPSK 1_1	376500/1882.5	0.067	20.56	21.00	1.107	0.074
Left side	20	QPSK 1_1	372000/1860	0.374	20.45	21.00	1.135	0.424
Left side	20	QPSK 1_1	381000/1905	0.389	20.54	21.00	1.112	0.432
Body 10mm(50%RB)								
Front side	20	QPSK 50_28	376500/1882.5	0.167	20.52	21.00	1.117	0.187
Back side	20	QPSK 50_28	376500/1882.5	0.159	20.52	21.00	1.117	0.178
Left side	20	QPSK 50_28	376500/1882.5	0.381	20.52	21.00	1.117	0.426
Top side	20	QPSK 50_28	376500/1882.5	0.066	20.52	21.00	1.117	0.074

Table 18: SAR of 5G NR n25.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right cheek	372000/1860	1.170	1.120	1.045	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

15.16 SAR Measurement Result of 5G NR n41

Ant 8 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	100	QPSK 1 1	518598/2592.99	0.383	24.13	24.50	1.089	0.417
Left tilted	100	QPSK 1 1	518598/2592.99	0.451	24.13	24.50	1.089	0.491
Right cheek	100	QPSK 1 1	518598/2592.99	0.626	24.13	24.50	1.089	0.682
Right tilted	100	QPSK 1 1	518598/2592.99	0.696	24.13	24.50	1.089	0.758
Right tilted	100	QPSK 1 1	509202/2546.01	0.668	24.07	24.50	1.104	0.738
Right tilted	100	QPSK 1 1	513900/2569.5	0.613	24.10	24.50	1.096	0.672
Right tilted	100	QPSK 1 1	523302/2616.51	0.861	24.09	24.50	1.099	0.946
Right tilted	100	QPSK 1 1	528000/2640	0.975	24.05	24.50	1.109	1.081
Head(50%RB)								
Left cheek	100	QPSK 135 69	518598/2592.99	0.442	23.90	24.50	1.148	0.507
Left tilted	100	QPSK 135 69	518598/2592.99	0.517	23.90	24.50	1.148	0.594
Right cheek	100	QPSK 135 69	518598/2592.99	0.670	23.90	24.50	1.148	0.769
Right tilted	100	QPSK 135 69	518598/2592.99	0.916	23.90	24.50	1.148	1.052
Right tilted	100	QPSK 135 69	509202/2546.01	0.757	23.83	24.50	1.167	0.883
Right tilted	100	QPSK 135 69	513900/2569.5	0.847	23.81	24.50	1.172	0.993
Right tilted	100	QPSK 135 69	523302/2616.51	1.030	23.82	24.50	1.169	1.205
Right tilted	100	QPSK 135 69	528000/2640	1.210	23.89	24.50	1.151	1.392
Right tilted Repeated	100	QPSK 135 69	528000/2640	1.180	23.89	24.50	1.151	1.358
Head(100%RB)								
Left cheek	100	QPSK 270 0	518598/2592.99	1.020	23.05	23.50	1.109	1.131
Head(1RB) (Simultaneous transmission)								
Left cheek	100	QPSK 1 1	518598/2592.99	0.383	24.13	23.00	0.771	0.295
Left tilted	100	QPSK 1 1	518598/2592.99	0.451	24.13	23.00	0.771	0.348
Right cheek	100	QPSK 1 1	518598/2592.99	0.626	24.13	23.00	0.771	0.483
Right tilted	100	QPSK 1 1	518598/2592.99	0.696	24.13	23.00	0.771	0.537
Right tilted	100	QPSK 1 1	509202/2546.01	0.668	24.07	23.00	0.782	0.522
Right tilted	100	QPSK 1 1	513900/2569.5	0.613	24.10	23.00	0.776	0.476
Right tilted	100	QPSK 1 1	523302/2616.51	0.861	24.09	23.00	0.778	0.670
Right tilted	100	QPSK 1 1	528000/2640	0.975	24.05	23.00	0.785	0.766
Head(50%RB) (Simultaneous transmission)								
Left cheek	100	QPSK 135 69	518598/2592.99	0.442	23.90	23.00	0.813	0.359
Left tilted	100	QPSK 135 69	518598/2592.99	0.517	23.90	23.00	0.813	0.420
Right cheek	100	QPSK 135 69	518598/2592.99	0.670	23.90	23.00	0.813	0.545
Right tilted	100	QPSK 135 69	518598/2592.99	0.916	23.90	23.00	0.813	0.745
Right tilted	100	QPSK 135 69	509202/2546.01	0.757	23.83	23.00	0.826	0.625
Right tilted	100	QPSK 135 69	513900/2569.5	0.847	23.81	23.00	0.830	0.703
Right tilted	100	QPSK 135 69	523302/2616.51	1.030	23.82	23.00	0.828	0.853
Right tilted	100	QPSK 135 69	528000/2640	1.210	23.89	23.00	0.815	0.986
Right tilted Repeated	100	QPSK 135 69	528000/2640	1.180	23.89	23.00	0.815	0.961
Head(100%RB) (Simultaneous transmission)								
Left cheek	100	QPSK 270 0	518598/2592.99	1.020	23.05	23.00	0.989	1.008
Body 10mm(1RB)								
Front side	100	QPSK 1 1	518598/2592.99	0.151	24.13	24.50	1.089	0.164
Back side	100	QPSK 1 1	518598/2592.99	0.085	24.13	24.50	1.089	0.093
Left side	100	QPSK 1 1	518598/2592.99	0.010	24.13	24.50	1.089	0.011
Top side	100	QPSK 1 1	518598/2592.99	0.175	24.13	24.50	1.089	0.191
Top side	100	QPSK 1 1	509202/2546.01	0.125	24.07	24.50	1.104	0.138
Top side	100	QPSK 1 1	513900/2569.5	0.164	24.10	24.50	1.096	0.180
Top side	100	QPSK 1 1	523302/2616.51	0.183	24.09	24.50	1.099	0.201
Top side	100	QPSK 1 1	528000/2640	0.189	24.05	24.50	1.109	0.210
Body 10mm(50%RB)								
Front side	100	QPSK 135 69	518598/2592.99	0.154	23.90	24.50	1.148	0.177
Back side	100	QPSK 135 69	518598/2592.99	0.100	23.90	24.50	1.148	0.115
Left side	100	QPSK 135 69	518598/2592.99	0.011	23.90	24.50	1.148	0.013
Top side	100	QPSK 135 69	518598/2592.99	0.156	23.90	24.50	1.148	0.179

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right tilted	528000/2640	1.210	1.180	1.025	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

Ant 10 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	100	QPSK 1_1	518598/2592.99	0.239	21.61	22.00	1.094	0.261
Left tilted	100	QPSK 1_1	518598/2592.99	0.069	21.61	22.00	1.094	0.075
Right cheek	100	QPSK 1_1	518598/2592.99	0.605	21.61	22.00	1.094	0.662
Right tilted	100	QPSK 1_1	518598/2592.99	0.156	21.61	22.00	1.094	0.171
Right cheek	100	QPSK 1_1	509202/2546.01	0.498	21.54	22.00	1.112	0.554
Right cheek	100	QPSK 1_1	513900/2569.5	0.909	21.56	22.00	1.107	1.006
Right cheek Repeated	100	QPSK 1_1	513900/2569.5	0.876	21.56	22.00	1.107	0.969
Right cheek	100	QPSK 1_1	523302/2616.51	0.692	21.52	22.00	1.117	0.773
Right cheek	100	QPSK 1_1	528000/2640	0.730	21.50	22.00	1.122	0.819
Head(50%RB)								
Left cheek	100	QPSK 135_69	518598/2592.99	0.290	21.02	21.50	1.117	0.324
Left tilted	100	QPSK 135_69	518598/2592.99	0.063	21.02	21.50	1.117	0.070
Right cheek	100	QPSK 135_69	518598/2592.99	0.539	21.02	21.50	1.117	0.602
Right tilted	100	QPSK 135_69	518598/2592.99	0.141	21.02	21.50	1.117	0.157
Head(100%RB)								
Right cheek	100	QPSK 135_69	518598/2592.99	0.610	20.36	21.00	1.159	0.707
Body 10mm(1RB)								
Front side	100	QPSK 1_1	518598/2592.99	0.110	21.61	22.00	1.094	0.120
Back side	100	QPSK 1_1	518598/2592.99	0.089	21.61	22.00	1.094	0.097
Left side	100	QPSK 1_1	518598/2592.99	0.125	21.61	22.00	1.094	0.137
Top side	100	QPSK 1_1	518598/2592.99	0.010	21.61	22.00	1.094	0.011
Left side	100	QPSK 1_1	509202/2546.01	0.104	21.54	22.00	1.112	0.116
Left side	100	QPSK 1_1	513900/2569.5	0.220	21.56	22.00	1.107	0.243
Left side	100	QPSK 1_1	523302/2616.51	0.125	21.52	22.00	1.117	0.140
Left side	100	QPSK 1_1	528000/2640	0.115	21.50	22.00	1.122	0.129
Body 10mm(50%RB)								
Front side	100	QPSK 135_69	518598/2592.99	0.115	21.02	21.50	1.117	0.128
Back side	100	QPSK 135_69	518598/2592.99	0.090	21.02	21.50	1.117	0.101
Left side	100	QPSK 135_69	518598/2592.99	0.122	21.02	21.50	1.117	0.136
Top side	100	QPSK 135_69	518598/2592.99	0.012	21.02	21.50	1.117	0.013

Ant 1 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	100	QPSK 1_1	528000/2640	0.109	23.79	24.50	1.178	0.128
Left tilted	100	QPSK 1_1	528000/2640	0.023	23.79	24.50	1.178	0.027
Right cheek	100	QPSK 1_1	528000/2640	0.042	23.79	24.50	1.178	0.049
Right tilted	100	QPSK 1_1	528000/2640	0.027	23.79	24.50	1.178	0.032
Left cheek	100	QPSK 1_1	509202/2546.01	0.113	23.77	24.50	1.183	0.134
Left cheek	100	QPSK 1_1	513900/2569.5	0.178	23.74	24.50	1.191	0.212
Left cheek	100	QPSK 1_1	518598/2592.99	0.146	23.75	24.50	1.189	0.174
Left cheek	100	QPSK 1_1	523302/2616.51	0.128	23.70	24.50	1.202	0.154
Head(50%RB)								
Left cheek	100	QPSK 135_69	528000/2640	0.052	23.77	24.50	1.183	0.062
Left tilted	100	QPSK 135_69	528000/2640	0.016	23.77	24.50	1.183	0.019
Right cheek	100	QPSK 135_69	528000/2640	0.020	23.77	24.50	1.183	0.024
Right tilted	100	QPSK 135_69	528000/2640	0.017	23.77	24.50	1.183	0.020
Body 10mm(1RB)								
Front side	100	QPSK 1_1	528000/2640	0.345	23.79	24.50	1.178	0.406
Back side	100	QPSK 1_1	528000/2640	0.399	23.79	24.50	1.178	0.470
Left side	100	QPSK 1_1	528000/2640	0.098	23.79	24.50	1.178	0.115
Bottom side	100	QPSK 1_1	528000/2640	0.657	23.79	24.50	1.178	0.774
Bottom side	100	QPSK 1_1	509202/2546.01	0.423	23.77	24.50	1.183	0.500
Bottom side	100	QPSK 1_1	513900/2569.5	0.519	23.74	24.50	1.191	0.618
Bottom side	100	QPSK 1_1	518598/2592.99	0.534	23.75	24.50	1.189	0.635
Bottom side	100	QPSK 1_1	523302/2616.51	0.512	23.70	24.50	1.202	0.616
Body 10mm(50%RB)								
Front side	100	QPSK 135_69	528000/2640	0.315	23.77	24.50	1.183	0.373
Back side	100	QPSK 135_69	528000/2640	0.309	23.77	24.50	1.183	0.366
Left side	100	QPSK 135_69	528000/2640	0.066	23.77	24.50	1.183	0.078
Bottom side	100	QPSK 135_69	528000/2640	0.523	23.77	24.50	1.183	0.619

Ant 2 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	100	QPSK 1 1	528000/2640	0.106	23.08	23.50	1.102	0.117
Left tilted	100	QPSK 1 1	528000/2640	0.055	23.08	23.50	1.102	0.061
Right cheek	100	QPSK 1 1	528000/2640	0.129	23.08	23.50	1.102	0.142
Right tilted	100	QPSK 1 1	528000/2640	0.057	23.08	23.50	1.102	0.063
Head(50%RB)								
Left cheek	100	QPSK 135 69	528000/2640	0.109	22.98	23.50	1.127	0.123
Left tilted	100	QPSK 135 69	528000/2640	0.063	22.98	23.50	1.127	0.071
Right cheek	100	QPSK 135 69	528000/2640	0.140	22.98	23.50	1.127	0.158
Right tilted	100	QPSK 135 69	528000/2640	0.075	22.98	23.50	1.127	0.085
Right cheek	100	QPSK 135 69	509202/2546.01	0.105	22.97	23.50	1.130	0.119
Right cheek	100	QPSK 135 69	513900/2569.5	0.116	22.92	23.50	1.143	0.133
Right cheek	100	QPSK 135 69	518598/2592.99	0.126	22.95	23.50	1.135	0.143
Right cheek	100	QPSK 135 69	523302/2616.51	0.158	22.97	23.50	1.130	0.179
Body 10mm(1RB)								
Front side	100	QPSK 1 1	528000/2640	0.754	23.08	23.50	1.102	0.831
Back side	100	QPSK 1 1	528000/2640	0.592	23.08	23.50	1.102	0.652
Right side	100	QPSK 1 1	528000/2640	0.649	23.08	23.50	1.102	0.715
Bottom side	100	QPSK 1 1	528000/2640	0.612	23.08	23.50	1.102	0.674
Right side	100	QPSK 1 1	509202/2546.01	0.311	23.05	23.50	1.109	0.345
Right side	100	QPSK 1 1	513900/2569.5	0.385	23.04	23.50	1.112	0.428
Right side	100	QPSK 1 1	518598/2592.99	0.453	23.02	23.50	1.117	0.506
Right side	100	QPSK 1 1	523302/2616.51	0.528	23.01	23.50	1.119	0.591
Front side	100	QPSK 1 1	509202/2546.01	0.424	23.05	23.50	1.109	0.470
Front side	100	QPSK 1 1	513900/2569.5	0.562	23.04	23.50	1.112	0.625
Front side	100	QPSK 1 1	518598/2592.99	0.630	23.02	23.50	1.117	0.704
Front side	100	QPSK 1 1	523302/2616.51	0.684	23.01	23.50	1.119	0.766
Back side	100	QPSK 1 1	509202/2546.01	0.364	23.05	23.50	1.109	0.404
Back side	100	QPSK 1 1	513900/2569.5	0.457	23.04	23.50	1.112	0.508
Back side	100	QPSK 1 1	518598/2592.99	0.504	23.02	23.50	1.117	0.563
Back side	100	QPSK 1 1	523302/2616.51	0.539	23.01	23.50	1.119	0.603
Bottom side	100	QPSK 1 1	509202/2546.01	0.312	23.05	23.50	1.109	0.346
Bottom side	100	QPSK 1 1	513900/2569.5	0.376	23.04	23.50	1.112	0.418
Bottom side	100	QPSK 1 1	518598/2592.99	0.428	23.02	23.50	1.117	0.478
Bottom side	100	QPSK 1 1	523302/2616.51	0.479	23.01	23.50	1.119	0.536
Body 10mm(50%RB)								
Front side	100	QPSK 135 69	528000/2640	0.851	22.98	23.50	1.127	0.959
Front side Repeated	100	QPSK 135 69	528000/2640	0.792	22.98	23.50	1.127	0.893
Back side	100	QPSK 135 69	528000/2640	0.638	22.98	23.50	1.127	0.719
Right side	100	QPSK 135 69	528000/2640	0.624	22.98	23.50	1.127	0.703
Bottom side	100	QPSK 135 69	528000/2640	0.598	22.98	23.50	1.127	0.674
Right side	100	QPSK 135 69	509202/2546.01	0.433	22.97	23.50	1.130	0.489
Right side	100	QPSK 135 69	513900/2569.5	0.493	22.92	23.50	1.143	0.563
Right side	100	QPSK 135 69	518598/2592.99	0.557	22.95	23.50	1.135	0.632
Right side	100	QPSK 135 69	523302/2616.51	0.598	22.97	23.50	1.130	0.676
Front side	100	QPSK 135 69	509202/2546.01	0.593	22.97	23.50	1.130	0.670
Front side	100	QPSK 135 69	513900/2569.5	0.654	22.92	23.50	1.143	0.747
Front side	100	QPSK 135 69	518598/2592.99	0.717	22.95	23.50	1.135	0.814
Front side	100	QPSK 135 69	523302/2616.51	0.767	22.97	23.50	1.130	0.867
Back side	100	QPSK 135 69	509202/2546.01	0.458	22.97	23.50	1.130	0.517
Back side	100	QPSK 135 69	513900/2569.5	0.507	22.92	23.50	1.143	0.579
Back side	100	QPSK 135 69	518598/2592.99	0.563	22.95	23.50	1.135	0.639
Back side	100	QPSK 135 69	523302/2616.51	0.619	22.97	23.50	1.130	0.699
Bottom side	100	QPSK 135 69	509202/2546.01	0.409	22.97	23.50	1.130	0.462
Bottom side	100	QPSK 135 69	513900/2569.5	0.454	22.92	23.50	1.143	0.519
Bottom side	100	QPSK 135 69	518598/2592.99	0.512	22.95	23.50	1.135	0.581
Bottom side	100	QPSK 135 69	523302/2616.51	0.543	22.97	23.50	1.130	0.613
Body 10mm(100%RB)								
Front side	100	QPSK 270_0	528000/2640	0.692	22.70	23.50	1.202	0.832

Table 19: SAR of 5G NR n41.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Front side	528000/2640	0.851	0.792	1.074	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

15.17 SAR Measurement Result of 5G NR n66

Ant 8 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	20	QPSK 1_1	354000/1770	0.208	23.42	24.00	1.143	0.238
Left tilted	20	QPSK 1_1	354000/1770	0.299	23.42	24.00	1.143	0.342
Right cheek	20	QPSK 1_1	354000/1770	0.450	23.42	24.00	1.143	0.514
Right tilted	20	QPSK 1_1	354000/1770	0.485	23.42	24.00	1.143	0.554
Right tilted	20	QPSK 1_1	344000/1720	0.490	23.38	24.00	1.153	0.565
Right tilted	20	QPSK 1_1	349000/1745	0.349	23.40	24.00	1.148	0.401
Head(50%RB)								
Left cheek	20	QPSK 108_54	352000/1760	0.203	23.36	24.00	1.159	0.235
Left tilted	20	QPSK 108_54	352000/1760	0.307	23.36	24.00	1.159	0.356
Right cheek	20	QPSK 108_54	352000/1760	0.446	23.36	24.00	1.159	0.517
Right tilted	20	QPSK 108_54	352000/1760	0.467	23.36	24.00	1.159	0.541
Body 10mm(1RB)								
Front side	20	QPSK 1_1	354000/1770	0.089	23.42	24.00	1.143	0.102
Back side	20	QPSK 1_1	354000/1770	0.068	23.42	24.00	1.143	0.078
Left side	20	QPSK 1_1	354000/1770	0.010	23.42	24.00	1.143	0.011
Top side	20	QPSK 1_1	354000/1770	0.124	23.42	24.00	1.143	0.142
Top side	20	QPSK 1_1	344000/1720	0.106	23.38	24.00	1.153	0.122
Top side	20	QPSK 1_1	349000/1745	0.109	23.40	24.00	1.148	0.125
Body 10mm(50%RB)								
Front side	20	QPSK 108_54	352000/1760	0.094	23.36	24.00	1.159	0.109
Back side	20	QPSK 108_54	352000/1760	0.070	23.36	24.00	1.159	0.081
Left side	20	QPSK 108_54	352000/1760	0.009	23.36	24.00	1.159	0.010
Top side	20	QPSK 108_54	352000/1760	0.120	23.36	24.00	1.159	0.139

Ant 10 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	20	QPSK 1_1	354000/1770	0.366	20.19	20.50	1.074	0.393
Left tilted	20	QPSK 1_1	354000/1770	0.234	20.19	20.50	1.074	0.251
Right cheek	20	QPSK 1_1	354000/1770	1.170	20.19	20.50	1.074	1.257
Right tilted	20	QPSK 1_1	354000/1770	0.380	20.19	20.50	1.074	0.408
Right cheek	20	QPSK 1_1	344000/1720	1.150	20.16	20.50	1.081	1.244
Right cheek	20	QPSK 1_1	349000/1745	1.270	20.18	20.50	1.076	1.367
Right cheek Repeated	20	QPSK 1_1	349000/1745	1.230	20.18	20.50	1.076	1.324
Head(50%RB)								
Left cheek	20	QPSK 108_54	354000/1770	0.353	20.15	20.50	1.084	0.383
Left tilted	20	QPSK 108_54	354000/1770	0.244	20.15	20.50	1.084	0.264
Right cheek	20	QPSK 108_54	354000/1770	1.140	20.15	20.50	1.084	1.236
Right tilted	20	QPSK 108_54	354000/1770	0.378	20.15	20.50	1.084	0.410
Right cheek	20	QPSK 108_54	344000/1720	1.150	20.12	20.50	1.091	1.255
Right cheek	20	QPSK 108_54	349000/1745	1.180	20.10	20.50	1.096	1.294
Head(100%RB)								
Right cheek	20	QPSK 216_0	349000/1745	1.140	20.18	20.50	1.076	1.227
Head(1RB) (Simultaneous transmission)								
Left cheek	20	QPSK 1_1	354000/1770	0.366	20.19	19.50	0.853	0.312
Left tilted	20	QPSK 1_1	354000/1770	0.234	20.19	19.50	0.853	0.200
Right cheek	20	QPSK 1_1	354000/1770	1.170	20.19	19.50	0.853	0.998
Right tilted	20	QPSK 1_1	354000/1770	0.380	20.19	19.50	0.853	0.324
Right cheek	20	QPSK 1_1	344000/1720	1.150	20.16	19.50	0.859	0.988
Right cheek	20	QPSK 1_1	349000/1745	1.270	20.18	19.50	0.855	1.086
Right cheek Repeated	20	QPSK 1_1	349000/1745	1.230	20.18	19.50	0.855	1.052
Head(50%RB) (Simultaneous transmission)								
Left cheek	20	QPSK 108_54	354000/1770	0.353	20.15	19.50	0.861	0.304
Left tilted	20	QPSK 108_54	354000/1770	0.244	20.15	19.50	0.861	0.210
Right cheek	20	QPSK 108_54	354000/1770	1.140	20.15	19.50	0.861	0.982
Right tilted	20	QPSK 108_54	354000/1770	0.378	20.15	19.50	0.861	0.325
Right cheek	20	QPSK 108_54	344000/1720	1.150	20.12	19.50	0.867	0.997
Right cheek	20	QPSK 108_54	349000/1745	1.180	20.10	19.50	0.871	1.028
Head(100%RB) (Simultaneous transmission)								
Right cheek	20	QPSK 216_0	349000/1745	1.140	20.18	19.50	0.855	0.975
Body 10mm(1RB)								
Front side	20	QPSK 1_1	354000/1770	0.259	20.19	20.50	1.074	0.278
Back side	20	QPSK 1_1	354000/1770	0.294	20.19	20.50	1.074	0.316
Left side	20	QPSK 1_1	354000/1770	0.394	20.19	20.50	1.074	0.423
Top side	20	QPSK 1_1	354000/1770	0.066	20.19	20.50	1.074	0.071
Left side	20	QPSK 1_1	344000/1720	0.329	20.16	20.50	1.081	0.356
Left side	20	QPSK 1_1	349000/1745	0.348	20.18	20.50	1.076	0.375
Body 10mm(50%RB)								
Front side	20	QPSK 108_54	354000/1770	0.254	20.15	20.50	1.084	0.275
Back side	20	QPSK 108_54	354000/1770	0.302	20.15	20.50	1.084	0.327
Left side	20	QPSK 108_54	354000/1770	0.368	20.15	20.50	1.084	0.399
Top side	20	QPSK 108_54	354000/1770	0.062	20.15	20.50	1.084	0.067

Table 20: SAR of 5G NR n66.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right cheek	349000/1745	1.270	1.230	1.033	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

15.18 SAR Measurement Result of 5G NR n77

Ant 9 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	100	QPSK 1_1	633334/3500.01	0.347	17.79	18.00	1.050	0.364
Left tilted	100	QPSK 1_1	633334/3500.01	0.362	17.79	18.00	1.050	0.380
Right cheek	100	QPSK 1_1	633334/3500.01	0.739	17.79	18.00	1.050	0.776
Right tilted	100	QPSK 1_1	633334/3500.01	0.789	17.79	18.00	1.050	0.828
Head(50%RB)								
Left cheek	100	QPSK 135_138	633334/3500.01	0.338	17.77	18.00	1.054	0.356
Left tilted	100	QPSK 135_138	633334/3500.01	0.355	17.77	18.00	1.054	0.374
Right cheek	100	QPSK 135_138	633334/3500.01	0.722	17.77	18.00	1.054	0.761
Right tilted	100	QPSK 135_138	633334/3500.01	0.695	17.77	18.00	1.054	0.733
Head(100%RB)								
Right tilted	100	QPSK 270_0	633334/3500.01	0.632	17.71	18.00	1.069	0.676
Body 10mm(1RB)								
Front side	100	QPSK 1_1	633334/3500.01	0.171	17.79	18.00	1.050	0.179
Back side	100	QPSK 1_1	633334/3500.01	0.103	17.79	18.00	1.050	0.108
Left side	100	QPSK 1_1	633334/3500.01	0.326	17.79	18.00	1.050	0.342
Top side	100	QPSK 1_1	633334/3500.01	0.233	17.79	18.00	1.050	0.245
Body 10mm(50%RB)								
Front side	100	QPSK 135_138	633334/3500.01	0.162	17.77	18.00	1.054	0.171
Back side	100	QPSK 135_138	633334/3500.01	0.092	17.77	18.00	1.054	0.097
Left side	100	QPSK 135_138	633334/3500.01	0.241	17.77	18.00	1.054	0.254
Top side	100	QPSK 135_138	633334/3500.01	0.219	17.77	18.00	1.054	0.231
Ant 0 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	100	QPSK 1_1	633334/3500.01	0.014	20.86	21.50	1.159	0.016
Left tilted	100	QPSK 1_1	633334/3500.01	0.006	20.86	21.50	1.159	0.007
Right cheek	100	QPSK 1_1	633334/3500.01	0.006	20.86	21.50	1.159	0.007
Right tilted	100	QPSK 1_1	633334/3500.01	0.009	20.86	21.50	1.159	0.010
Head(50%RB)								
Left cheek	100	QPSK 135_138	633334/3500.01	0.017	20.82	21.50	1.169	0.020
Left tilted	100	QPSK 135_138	633334/3500.01	0.005	20.82	21.50	1.169	0.006
Right cheek	100	QPSK 135_138	633334/3500.01	0.006	20.82	21.50	1.169	0.007
Right tilted	100	QPSK 135_138	633334/3500.01	0.007	20.82	21.50	1.169	0.008
Body 10mm(1RB)								
Front side	100	QPSK 1_1	633334/3500.01	0.061	20.86	21.50	1.159	0.071
Back side	100	QPSK 1_1	633334/3500.01	0.062	20.86	21.50	1.159	0.072
Left side	100	QPSK 1_1	633334/3500.01	0.073	20.86	21.50	1.159	0.085
Bottom side	100	QPSK 1_1	633334/3500.01	0.066	20.86	21.50	1.159	0.076
Body 10mm(50%RB)								
Front side	100	QPSK 135_138	633334/3500.01	0.054	20.82	21.50	1.169	0.063
Back side	100	QPSK 135_138	633334/3500.01	0.097	20.82	21.50	1.169	0.113
Left side	100	QPSK 135_138	633334/3500.01	0.082	20.82	21.50	1.169	0.096
Bottom side	100	QPSK 135_138	633334/3500.01	0.073	20.82	21.50	1.169	0.085

Ant 7 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	100	QPSK 1_1	633334/3500.01	0.502	18.26	18.50	1.057	0.531
Left tilted	100	QPSK 1_1	633334/3500.01	0.541	18.26	18.50	1.057	0.572
Right cheek	100	QPSK 1_1	633334/3500.01	0.302	18.26	18.50	1.057	0.319
Right tilted	100	QPSK 1_1	633334/3500.01	0.283	18.26	18.50	1.057	0.299
Head(50%RB)								
Left cheek	100	QPSK 135_0	633334/3500.01	0.483	18.06	18.50	1.107	0.534
Left tilted	100	QPSK 135_0	633334/3500.01	0.489	18.06	18.50	1.107	0.541
Right cheek	100	QPSK 135_0	633334/3500.01	0.305	18.06	18.50	1.107	0.338
Right tilted	100	QPSK 135_0	633334/3500.01	0.323	18.06	18.50	1.107	0.357
Body 10mm(1RB)								
Front side	100	QPSK 1_1	633334/3500.01	0.169	18.26	18.50	1.057	0.179
Back side	100	QPSK 1_1	633334/3500.01	0.069	18.26	18.50	1.057	0.073
Right side	100	QPSK 1_1	633334/3500.01	0.055	18.26	18.50	1.057	0.058
Top side	100	QPSK 1_1	633334/3500.01	0.111	18.26	18.50	1.057	0.117
Body 10mm(50%RB)								
Front side	100	QPSK 135_0	633334/3500.01	0.113	18.06	18.50	1.107	0.125
Back side	100	QPSK 135_0	633334/3500.01	0.064	18.06	18.50	1.107	0.071
Right side	100	QPSK 135_0	633334/3500.01	0.058	18.06	18.50	1.107	0.064
Top side	100	QPSK 135_0	633334/3500.01	0.108	18.06	18.50	1.107	0.120
Ant 2 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	100	QPSK 1_1	633334/3500.01	0.007	20.16	21.00	1.213	0.008
Left tilted	100	QPSK 1_1	633334/3500.01	0.001	20.16	21.00	1.213	0.001
Right cheek	100	QPSK 1_1	633334/3500.01	0.002	20.16	21.00	1.213	0.002
Right tilted	100	QPSK 1_1	633334/3500.01	0.003	20.16	21.00	1.213	0.004
Head(50%RB)								
Left cheek	100	QPSK 135_138	633334/3500.01	0.003	19.85	21.00	1.303	0.004
Left tilted	100	QPSK 135_138	633334/3500.01	0.002	19.85	21.00	1.303	0.003
Right cheek	100	QPSK 135_138	633334/3500.01	0.002	19.85	21.00	1.303	0.003
Right tilted	100	QPSK 135_138	633334/3500.01	0.003	19.85	21.00	1.303	0.004
Body 10mm(1RB)								
Front side	100	QPSK 1_1	633334/3500.01	0.379	20.16	21.00	1.213	0.460
Back side	100	QPSK 1_1	633334/3500.01	0.070	20.16	21.00	1.213	0.085
Right side	100	QPSK 1_1	633334/3500.01	0.088	20.16	21.00	1.213	0.107
Bottom side	100	QPSK 1_1	633334/3500.01	0.093	20.16	21.00	1.213	0.113
Body 10mm(50%RB)								
Front side	100	QPSK 135_138	633334/3500.01	0.141	19.85	21.00	1.303	0.184
Back side	100	QPSK 135_138	633334/3500.01	0.050	19.85	21.00	1.303	0.065
Right side	100	QPSK 135_138	633334/3500.01	0.043	19.85	21.00	1.303	0.056
Bottom side	100	QPSK 135_138	633334/3500.01	0.069	19.85	21.00	1.303	0.090

Table 21: SAR of 5G NR n77(3450~3550).

Ant 9 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	100	QPSK 1_1	659600/3894	0.315	17.83	18.00	1.040	0.328
Left tilted	100	QPSK 1_1	659600/3894	0.411	17.83	18.00	1.040	0.427
Right cheek	100	QPSK 1_1	659600/3894	1.030	17.83	18.00	1.040	1.071
Right tilted	100	QPSK 1_1	659600/3894	0.969	17.83	18.00	1.040	1.008
Right cheek	100	QPSK 1_1	650000/3750	0.897	17.81	18.00	1.045	0.937
Right cheek	100	QPSK 1_1	652400/3786	0.913	17.71	18.00	1.069	0.976
Right cheek	100	QPSK 1_1	654800/3822	0.664	17.79	18.00	1.050	0.697
Right cheek	100	QPSK 1_1	657200/3858	0.685	17.71	18.00	1.069	0.732
Right cheek	100	QPSK 1_1	662000/3930	1.110	17.78	18.00	1.052	1.168
Right tilted	100	QPSK 1_1	650000/3750	0.753	17.81	18.00	1.045	0.787
Right tilted	100	QPSK 1_1	652400/3786	0.891	17.71	18.00	1.069	0.953
Right tilted	100	QPSK 1_1	654800/3822	1.060	17.79	18.00	1.050	1.113
Right tilted	100	QPSK 1_1	657200/3858	1.080	17.71	18.00	1.069	1.155
Right tilted	100	QPSK 1_1	662000/3930	1.290	17.78	18.00	1.052	1.357
Right tilted Repeated	100	QPSK 1_1	662000/3930	1.150	17.78	18.00	1.052	1.210
Head(50%RB)								
Left cheek	100	QPSK 135_0	659600/3894	0.369	17.77	18.00	1.054	0.389
Left tilted	100	QPSK 135_0	659600/3894	0.415	17.77	18.00	1.054	0.438
Right cheek	100	QPSK 135_0	659600/3894	1.040	17.77	18.00	1.054	1.097
Right tilted	100	QPSK 135_0	659600/3894	0.985	17.77	18.00	1.054	1.039
Right cheek	100	QPSK 135_0	650000/3750	0.941	17.75	18.00	1.059	0.997
Right cheek	100	QPSK 135_0	652400/3786	0.934	17.69	18.00	1.074	1.003
Right cheek	100	QPSK 135_0	654800/3822	0.675	17.71	18.00	1.069	0.722
Right cheek	100	QPSK 135_0	657200/3858	0.685	17.76	18.00	1.057	0.724
Right cheek	100	QPSK 135_0	662000/3930	1.110	17.74	18.00	1.062	1.178
Right tilted	100	QPSK 135_0	650000/3750	0.797	17.75	18.00	1.059	0.844
Right tilted	100	QPSK 135_0	652400/3786	0.906	17.69	18.00	1.074	0.973
Right tilted	100	QPSK 135_0	654800/3822	1.060	17.71	18.00	1.069	1.133
Right tilted	100	QPSK 135_0	657200/3858	1.100	17.76	18.00	1.057	1.162
Right tilted	100	QPSK 135_0	662000/3930	1.270	17.74	18.00	1.062	1.348
Head(100%RB)								
Right cheek	100	QPSK 270_0	662000/3930	1.060	17.73	18.00	1.064	1.128
Right tilted	100	QPSK 270_0	662000/3930	1.060	17.73	18.00	1.064	1.128
Head(1RB) (Simultaneous transmission)								
Left cheek	100	QPSK 1_1	659600/3894	0.315	17.83	16.00	0.656	0.207
Left tilted	100	QPSK 1_1	659600/3894	0.411	17.83	16.00	0.656	0.270
Right cheek	100	QPSK 1_1	659600/3894	1.030	17.83	16.00	0.656	0.676
Right tilted	100	QPSK 1_1	659600/3894	0.969	17.83	16.00	0.656	0.636
Right cheek	100	QPSK 1_1	650000/3750	0.897	17.81	16.00	0.659	0.591
Right cheek	100	QPSK 1_1	652400/3786	0.913	17.71	16.00	0.675	0.616
Right cheek	100	QPSK 1_1	654800/3822	0.664	17.79	16.00	0.662	0.440
Right cheek	100	QPSK 1_1	657200/3858	0.685	17.71	16.00	0.675	0.462
Right cheek	100	QPSK 1_1	662000/3930	1.110	17.78	16.00	0.664	0.737
Right tilted	100	QPSK 1_1	650000/3750	0.753	17.81	16.00	0.659	0.496
Right tilted	100	QPSK 1_1	652400/3786	0.891	17.71	16.00	0.675	0.601
Right tilted	100	QPSK 1_1	654800/3822	1.060	17.79	16.00	0.662	0.702
Right tilted	100	QPSK 1_1	657200/3858	1.080	17.71	16.00	0.675	0.728
Right tilted	100	QPSK 1_1	662000/3930	1.290	17.78	16.00	0.664	0.856
Right tilted Repeated	100	QPSK 1_1	662000/3930	1.150	17.78	16.00	0.664	0.763
Head(50%RB) (Simultaneous transmission)								
Left cheek	100	QPSK 135_0	659600/3894	0.369	17.77	16.00	0.665	0.245
Left tilted	100	QPSK 135_0	659600/3894	0.415	17.77	16.00	0.665	0.276
Right cheek	100	QPSK 135_0	659600/3894	1.040	17.77	16.00	0.665	0.692
Right tilted	100	QPSK 135_0	659600/3894	0.985	17.77	16.00	0.665	0.655
Right cheek	100	QPSK 135_0	650000/3750	0.941	17.75	16.00	0.668	0.629
Right cheek	100	QPSK 135_0	652400/3786	0.934	17.69	16.00	0.678	0.633
Right cheek	100	QPSK 135_0	654800/3822	0.675	17.71	16.00	0.675	0.455

Right cheek	100	QPSK 135_0	657200/3858	0.685	17.76	16.00	0.667	0.457
Right cheek	100	QPSK 135_0	662000/3930	1.110	17.74	16.00	0.670	0.744
Right tilted	100	QPSK 135_0	650000/3750	0.797	17.75	16.00	0.668	0.533
Right tilted	100	QPSK 135_0	652400/3786	0.906	17.69	16.00	0.678	0.614
Right tilted	100	QPSK 135_0	654800/3822	1.060	17.71	16.00	0.675	0.715
Right tilted	100	QPSK 135_0	657200/3858	1.100	17.76	16.00	0.667	0.733
Right tilted	100	QPSK 135_0	662000/3930	1.270	17.74	16.00	0.670	0.851
Head(100%RB) (Simultaneous transmission)								
Right cheek	100	QPSK 270_0	662000/3930	1.060	17.73	16.00	0.671	0.712
Right tilted	100	QPSK 270_0	662000/3930	1.060	17.73	16.00	0.671	0.712
Body 10mm(1RB)								
Front side	100	QPSK 1_1	659600/3894	0.250	17.83	18.00	1.040	0.260
Back side	100	QPSK 1_1	659600/3894	0.101	17.83	18.00	1.040	0.105
Left side	100	QPSK 1_1	659600/3894	0.212	17.83	18.00	1.040	0.220
Top side	100	QPSK 1_1	659600/3894	0.199	17.83	18.00	1.040	0.207
Front side	100	QPSK 1_1	650000/3750	0.239	17.81	18.00	1.045	0.250
Front side	100	QPSK 1_1	652400/3786	0.233	17.71	18.00	1.069	0.249
Front side	100	QPSK 1_1	654800/3822	0.206	17.79	18.00	1.050	0.216
Front side	100	QPSK 1_1	657200/3858	0.212	17.71	18.00	1.069	0.227
Front side	100	QPSK 1_1	662000/3930	0.224	17.78	18.00	1.052	0.236
Body 10mm(50%RB)								
Front side	100	QPSK 135_0	659600/3894	0.192	17.77	18.00	1.054	0.202
Back side	100	QPSK 135_0	659600/3894	0.100	17.77	18.00	1.054	0.105
Left side	100	QPSK 135_0	659600/3894	0.188	17.77	18.00	1.054	0.198
Top side	100	QPSK 135_0	659600/3894	0.195	17.77	18.00	1.054	0.206

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Right tilted	662000/3930	1.290	1.150	1.122	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

Ant 0 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	100	QPSK 1_1	650000/3750	0.064	20.60	21.50	1.230	0.079
Left tilted	100	QPSK 1_1	650000/3750	0.016	20.60	21.50	1.230	0.020
Right cheek	100	QPSK 1_1	650000/3750	0.047	20.60	21.50	1.230	0.058
Right tilted	100	QPSK 1_1	650000/3750	0.026	20.60	21.50	1.230	0.032
Head(50%RB)								
Left cheek	100	QPSK 135_0	650000/3750	0.069	20.53	21.50	1.250	0.086
Left tilted	100	QPSK 135_0	650000/3750	0.017	20.53	21.50	1.250	0.021
Right cheek	100	QPSK 135_0	650000/3750	0.061	20.53	21.50	1.250	0.076
Right tilted	100	QPSK 135_0	650000/3750	0.026	20.53	21.50	1.250	0.033
Left cheek	100	QPSK 135_0	652400/3786	0.069	20.35	21.50	1.303	0.090
Left cheek	100	QPSK 135_0	654800/3822	0.067	20.24	21.50	1.337	0.090
Left cheek	100	QPSK 135_0	657200/3858	0.073	20.21	21.50	1.346	0.098
Left cheek	100	QPSK 135_0	659600/3894	0.039	20.18	21.50	1.355	0.053
Left cheek	100	QPSK 135_0	662000/3930	0.036	20.12	21.50	1.374	0.049
Body 10mm(1RB)								
Front side	100	QPSK 1_1	650000/3750	0.070	20.60	21.50	1.230	0.086
Back side	100	QPSK 1_1	650000/3750	0.334	20.60	21.50	1.230	0.411
Left side	100	QPSK 1_1	650000/3750	0.126	20.60	21.50	1.230	0.155
Bottom side	100	QPSK 1_1	650000/3750	0.078	20.60	21.50	1.230	0.096
Back side	100	QPSK 1_1	652400/3786	0.333	20.47	21.50	1.268	0.422
Back side	100	QPSK 1_1	654800/3822	0.342	20.34	21.50	1.306	0.447
Back side	100	QPSK 1_1	657200/3858	0.336	20.36	21.50	1.300	0.437
Back side	100	QPSK 1_1	659600/3894	0.335	20.45	21.50	1.274	0.427
Back side	100	QPSK 1_1	662000/3930	0.348	20.21	21.50	1.346	0.468
Body 10mm(50%RB)								
Front side	100	QPSK 135_0	650000/3750	0.075	20.53	21.50	1.250	0.094
Back side	100	QPSK 135_0	650000/3750	0.327	20.53	21.50	1.250	0.409
Left side	100	QPSK 135_0	650000/3750	0.122	20.53	21.50	1.250	0.153
Bottom side	100	QPSK 135_0	650000/3750	0.100	20.53	21.50	1.250	0.125
Ant 7 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	100	QPSK 1_1	652400/3786	1.240	18.26	18.50	1.057	1.310
Left cheek Repeated	100	QPSK 1_1	652400/3786	1.210	18.26	18.50	1.057	1.279
Left tilted	100	QPSK 1_1	652400/3786	1.010	18.26	18.50	1.057	1.067
Right cheek	100	QPSK 1_1	652400/3786	0.586	18.26	18.50	1.057	0.619
Right tilted	100	QPSK 1_1	652400/3786	0.580	18.26	18.50	1.057	0.613
Left cheek	100	QPSK 1_1	650000/3750	1.130	18.22	18.50	1.067	1.205
Left cheek	100	QPSK 1_1	654800/3822	1.220	18.20	18.50	1.072	1.307
Left cheek	100	QPSK 1_1	657200/3858	0.996	18.23	18.50	1.064	1.060
Left cheek	100	QPSK 1_1	659600/3894	0.915	18.22	18.50	1.067	0.976
Left tilted	100	QPSK 1_1	662000/3930	0.912	18.24	18.50	1.062	0.968
Left tilted	100	QPSK 1_1	650000/3750	0.760	18.22	18.50	1.067	0.811
Left tilted	100	QPSK 1_1	654800/3822	0.350	18.20	18.50	1.072	0.375
Left tilted	100	QPSK 1_1	657200/3858	0.960	18.23	18.50	1.064	1.022
Left tilted	100	QPSK 1_1	659600/3894	1.040	18.22	18.50	1.067	1.109
Left tilted	100	QPSK 1_1	662000/3930	1.020	18.24	18.50	1.062	1.083
Head(50%RB)								
Left cheek	100	QPSK 135_0	652400/3786	1.070	18.20	18.50	1.072	1.147
Left tilted	100	QPSK 135_0	652400/3786	1.040	18.20	18.50	1.072	1.114
Right cheek	100	QPSK 135_0	652400/3786	0.557	18.20	18.50	1.072	0.597
Right tilted	100	QPSK 135_0	652400/3786	0.579	18.20	18.50	1.072	0.620
Left cheek	100	QPSK 135_0	650000/3750	1.040	18.15	18.50	1.084	1.127
Left cheek	100	QPSK 135_0	654800/3822	0.984	18.17	18.50	1.079	1.062
Left cheek	100	QPSK 135_0	657200/3858	0.872	18.13	18.50	1.089	0.950

Left cheek	100	QPSK 135_0	659600/3894	0.734	18.10	18.50	1.096	0.805
Left cheek	100	QPSK 135_0	662000/3930	0.780	18.17	18.50	1.079	0.842
Left tilted	100	QPSK 135_0	650000/3750	0.788	18.15	18.50	1.084	0.854
Left tilted	100	QPSK 135_0	654800/3822	0.928	18.17	18.50	1.079	1.001
Left tilted	100	QPSK 135_0	657200/3858	0.939	18.13	18.50	1.089	1.023
Left tilted	100	QPSK 135_0	659600/3894	0.982	18.10	18.50	1.096	1.077
Left tilted	100	QPSK 135_0	662000/3930	0.950	18.17	18.50	1.079	1.025
Head(100%RB)								
Left cheek	100	QPSK 270_0	652400/3786	1.090	18.16	18.50	1.081	1.179
Left tilted	100	QPSK 270_0	652400/3786	1.030	18.16	18.50	1.081	1.114
Head(1RB) (Simultaneous transmission)								
Left cheek	100	QPSK 1_1	652400/3786	1.240	18.26	15.00	0.472	0.585
Left cheek Repeated	100	QPSK 1_1	652400/3786	1.010	18.26	15.00	0.472	0.477
Left tilted	100	QPSK 1_1	652400/3786	1.010	18.26	15.00	0.472	0.477
Right cheek	100	QPSK 1_1	652400/3786	0.586	18.26	15.00	0.472	0.277
Right tilted	100	QPSK 1_1	652400/3786	0.580	18.26	15.00	0.472	0.274
Left cheek	100	QPSK 1_1	650000/3750	1.130	18.22	15.00	0.476	0.538
Left cheek	100	QPSK 1_1	654800/3822	1.220	18.20	15.00	0.479	0.584
Left cheek	100	QPSK 1_1	657200/3858	0.996	18.23	15.00	0.475	0.473
Left cheek	100	QPSK 1_1	659600/3894	0.915	18.22	15.00	0.476	0.436
Left cheek	100	QPSK 1_1	662000/3930	0.912	18.24	15.00	0.474	0.433
Left tilted	100	QPSK 1_1	650000/3750	0.760	18.22	15.00	0.476	0.362
Left tilted	100	QPSK 1_1	654800/3822	0.350	18.20	15.00	0.479	0.168
Left tilted	100	QPSK 1_1	657200/3858	0.960	18.23	15.00	0.475	0.456
Left tilted	100	QPSK 1_1	659600/3894	1.040	18.22	15.00	0.476	0.495
Left tilted	100	QPSK 1_1	662000/3930	1.020	18.24	15.00	0.474	0.484
Head(50%RB) (Simultaneous transmission)								
Left cheek	100	QPSK 135_0	652400/3786	1.070	18.20	15.00	0.479	0.512
Left tilted	100	QPSK 135_0	652400/3786	1.040	18.20	15.00	0.479	0.498
Right cheek	100	QPSK 135_0	652400/3786	0.557	18.20	15.00	0.479	0.267
Right tilted	100	QPSK 135_0	652400/3786	0.579	18.20	15.00	0.479	0.277
Left cheek	100	QPSK 135_0	650000/3750	1.040	18.15	15.00	0.484	0.504
Left cheek	100	QPSK 135_0	654800/3822	0.984	18.17	15.00	0.482	0.474
Left cheek	100	QPSK 135_0	657200/3858	0.872	18.13	15.00	0.486	0.424
Left cheek	100	QPSK 135_0	659600/3894	0.734	18.10	15.00	0.490	0.359
Left cheek	100	QPSK 135_0	662000/3930	0.780	18.17	15.00	0.482	0.376
Left tilted	100	QPSK 135_0	650000/3750	0.788	18.15	15.00	0.484	0.382
Left tilted	100	QPSK 135_0	654800/3822	0.928	18.17	15.00	0.482	0.447
Left tilted	100	QPSK 135_0	657200/3858	0.939	18.13	15.00	0.486	0.457
Left tilted	100	QPSK 135_0	659600/3894	0.982	18.10	15.00	0.490	0.481
Left tilted	100	QPSK 135_0	662000/3930	0.950	18.17	15.00	0.482	0.458
Head(100%RB) (Simultaneous transmission)								
Left cheek	100	QPSK 270_0	652400/3786	1.090	18.16	15.00	0.483	0.527
Left tilted	100	QPSK 270_0	652400/3786	1.030	18.16	15.00	0.483	0.498
Body 10mm(1RB)								
Front side	100	QPSK 1_1	652400/3786	0.251	18.26	18.50	1.057	0.265
Back side	100	QPSK 1_1	652400/3786	0.133	18.26	18.50	1.057	0.141
Right side	100	QPSK 1_1	652400/3786	0.101	18.26	18.50	1.057	0.107
Top side	100	QPSK 1_1	652400/3786	0.123	18.26	18.50	1.057	0.130
Front side	100	QPSK 1_1	650000/3750	0.196	18.22	18.50	1.067	0.209
Front side	100	QPSK 1_1	654800/3822	0.202	18.20	18.50	1.072	0.216
Front side	100	QPSK 1_1	657200/3858	0.180	18.23	18.50	1.064	0.192
Front side	100	QPSK 1_1	659600/3894	0.158	18.22	18.50	1.067	0.169
Front side	100	QPSK 1_1	662000/3930	0.142	18.24	18.50	1.062	0.151
Body 10mm(50%RB)								
Front side	100	QPSK 135_0	652400/3786	0.238	18.20	18.50	1.072	0.255
Back side	100	QPSK 135_0	652400/3786	0.135	18.20	18.50	1.072	0.145
Right side	100	QPSK 135_0	652400/3786	0.095	18.20	18.50	1.072	0.102
Top side	100	QPSK 135_0	652400/3786	0.113	18.20	18.50	1.072	0.121

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Left cheek	652400/3786	1.240	1.210	1.025	N/A	N/A
Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.						
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).						
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .						
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg						

Ant 2 Test Results								
Test position	BW. (MHz)	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head(1RB)								
Left cheek	100	QPSK 1_1	662000/3930	0.008	20.70	21.00	1.072	0.009
Left tilted	100	QPSK 1_1	662000/3930	0.004	20.70	21.00	1.072	0.004
Right cheek	100	QPSK 1_1	662000/3930	0.005	20.70	21.00	1.072	0.005
Right tilted	100	QPSK 1_1	662000/3930	0.004	20.70	21.00	1.072	0.004
Left cheek	100	QPSK 1_1	650000/3750	0.013	20.65	21.00	1.084	0.014
Left cheek	100	QPSK 1_1	652400/3786	0.011	20.61	21.00	1.094	0.012
Left cheek	100	QPSK 1_1	654800/3822	0.011	20.55	21.00	1.109	0.012
Left cheek	100	QPSK 1_1	657200/3858	0.005	20.64	21.00	1.086	0.005
Left cheek	100	QPSK 1_1	659600/3894	0.006	20.66	21.00	1.081	0.006
Head(50%RB)								
Left cheek	100	QPSK 135_138	662000/3930	0.005	20.59	21.00	1.099	0.005
Left tilted	100	QPSK 135_138	662000/3930	0.002	20.59	21.00	1.099	0.002
Right cheek	100	QPSK 135_138	662000/3930	0.003	20.59	21.00	1.099	0.003
Right tilted	100	QPSK 135_138	662000/3930	0.003	20.59	21.00	1.099	0.003
Body 10mm(1RB)								
Front side	100	QPSK 1_1	662000/3930	0.057	20.70	21.00	1.072	0.061
Back side	100	QPSK 1_1	662000/3930	0.015	20.70	21.00	1.072	0.016
Right side	100	QPSK 1_1	662000/3930	0.003	20.70	21.00	1.072	0.003
Bottom side	100	QPSK 1_1	662000/3930	0.041	20.70	21.00	1.072	0.044
Front side	100	QPSK 1_1	650000/3750	0.244	20.65	21.00	1.084	0.264
Front side	100	QPSK 1_1	652400/3786	0.176	20.61	21.00	1.094	0.193
Front side	100	QPSK 1_1	654800/3822	0.112	20.55	21.00	1.109	0.124
Front side	100	QPSK 1_1	657200/3858	0.061	20.64	21.00	1.086	0.066
Front side	100	QPSK 1_1	659600/3894	0.074	20.66	21.00	1.081	0.080
Body 10mm(50%RB)								
Front side	100	QPSK 135_138	662000/3930	0.016	20.59	21.00	1.099	0.018
Back side	100	QPSK 135_138	662000/3930	0.004	20.59	21.00	1.099	0.004
Right side	100	QPSK 135_138	662000/3930	0.003	20.59	21.00	1.099	0.003
Bottom side	100	QPSK 135_138	662000/3930	0.014	20.59	21.00	1.099	0.015

Table 22: SAR of 5G NR n77(3700~3980).

15.19 SAR Measurement Result of WIFI 2.4G

Ant 4 Test Results									
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head									
Left cheek	802.11b	1/2412	0.697	98.08%	1.020	16.43	16.50	1.016	0.722
Left tilted	802.11b	1/2412	0.107	98.08%	1.020	16.43	16.50	1.016	0.111
Right cheek	802.11b	1/2412	0.270	98.08%	1.020	16.43	16.50	1.016	0.280
Right tilted	802.11b	1/2412	0.062	98.08%	1.020	16.43	16.50	1.016	0.064
Left cheek	802.11b	6/2437	0.467	98.08%	1.020	16.01	16.50	1.119	0.533
Left cheek	802.11b	11/2462	0.789	98.08%	1.020	16.17	16.50	1.079	0.868
Head (Simultaneous transmission)									
Left cheek	802.11b	1/2412	0.697	98.08%	1.020	16.43	12.50	0.405	0.288
Left tilted	802.11b	1/2412	0.107	98.08%	1.020	16.43	12.50	0.405	0.044
Right cheek	802.11b	1/2412	0.270	98.08%	1.020	16.43	12.50	0.405	0.111
Right tilted	802.11b	1/2412	0.062	98.08%	1.020	16.43	12.50	0.405	0.026
Left cheek	802.11b	6/2437	0.467	98.08%	1.020	16.01	12.50	0.446	0.212
Left cheek	802.11b	11/2462	0.789	98.08%	1.020	16.17	12.50	0.430	0.346
Body 10mm									
Front side	802.11b	1/2412	0.148	98.08%	1.020	16.43	16.50	1.016	0.153
Back side	802.11b	1/2412	0.133	98.08%	1.020	16.43	16.50	1.016	0.138
Right side	802.11b	1/2412	0.207	98.08%	1.020	16.43	16.50	1.016	0.215
Right side	802.11b	6/2437	0.187	98.08%	1.020	16.01	16.50	1.119	0.214
Right side	802.11b	11/2462	0.255	98.08%	1.020	16.17	16.50	1.079	0.281
Ant 6 Test Results									
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head									
Left cheek	802.11b	1/2412	0.257	98.08%	1.020	16.22	16.50	1.067	0.280
Left tilted	802.11b	1/2412	0.287	98.08%	1.020	16.22	16.50	1.067	0.312
Right cheek	802.11b	1/2412	0.197	98.08%	1.020	16.22	16.50	1.067	0.214
Right tilted	802.11b	1/2412	0.244	98.08%	1.020	16.22	16.50	1.067	0.265
Left tilted	802.11b	6/2437	0.322	98.08%	1.020	14.85	16.50	1.462	0.480
Left tilted	802.11b	11/2462	0.277	98.08%	1.020	16.22	16.50	1.067	0.301
Head (Simultaneous transmission)									
Left cheek	802.11b	1/2412	0.257	98.08%	1.020	16.22	12.50	0.425	0.111
Left tilted	802.11b	1/2412	0.287	98.08%	1.020	16.22	12.50	0.425	0.124
Right cheek	802.11b	1/2412	0.197	98.08%	1.020	16.22	12.50	0.425	0.085
Right tilted	802.11b	1/2412	0.244	98.08%	1.020	16.22	12.50	0.425	0.106
Left tilted	802.11b	6/2437	0.322	98.08%	1.020	14.85	12.50	0.582	0.191
Left tilted	802.11b	11/2462	0.277	98.08%	1.020	16.22	12.50	0.425	0.120
Body 10mm									
Front side	802.11b	1/2412	0.079	98.08%	1.020	16.22	16.50	1.067	0.086
Back side	802.11b	1/2412	0.068	98.08%	1.020	16.22	16.50	1.067	0.074
Right side	802.11b	1/2412	0.062	98.08%	1.020	16.22	16.50	1.067	0.067
Top side	802.11b	1/2412	0.111	98.08%	1.020	16.22	16.50	1.067	0.121
Top side	802.11b	6/2437	0.134	98.08%	1.020	14.85	16.50	1.462	0.200
Top side	802.11b	11/2462	0.111	98.08%	1.020	16.22	16.50	1.067	0.121

MIMO Test Results									
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head									
Left cheek	802.11b	1/2412	0.787	98.08%	1.020	19.34	19.50	1.038	0.833
Left tilted	802.11b	1/2412	0.405	98.08%	1.020	19.34	19.50	1.038	0.429
Right cheek	802.11b	1/2412	0.321	98.08%	1.020	19.34	19.50	1.038	0.340
Right tilted	802.11b	1/2412	0.376	98.08%	1.020	19.34	19.50	1.038	0.398
Left cheek	802.11b	6/2437	0.551	98.08%	1.020	18.48	19.50	1.265	0.711
Left cheek	802.11b	11/2462	0.969	98.08%	1.020	19.21	19.50	1.069	1.057
Left cheek Repeated	802.11b	11/2462	0.876	98.08%	1.020	19.21	19.50	1.069	0.955
Head (Simultaneous transmission)									
Left cheek	802.11b	1/2412	0.787	98.08%	1.020	19.34	15.50	0.413	0.332
Left tilted	802.11b	1/2412	0.405	98.08%	1.020	19.34	15.50	0.413	0.171
Right cheek	802.11b	1/2412	0.321	98.08%	1.020	19.34	15.50	0.413	0.135
Right tilted	802.11b	1/2412	0.376	98.08%	1.020	19.34	15.50	0.413	0.158
Left cheek	802.11b	6/2437	0.551	98.08%	1.020	18.48	15.50	0.504	0.283
Left cheek	802.11b	11/2462	0.969	98.08%	1.020	19.21	15.50	0.426	0.421
Left cheek Repeated	802.11b	11/2462	0.876	98.08%	1.020	19.21	15.50	0.426	0.380
Body 10mm									
Front side	802.11b	1/2412	0.237	98.08%	1.020	19.34	19.50	1.038	0.251
Back side	802.11b	1/2412	0.279	98.08%	1.020	19.34	19.50	1.038	0.295
Right side	802.11b	1/2412	0.547	98.08%	1.020	19.34	19.50	1.038	0.579
Top side	802.11b	1/2412	0.154	98.08%	1.020	19.34	19.50	1.038	0.163
Right side	802.11b	6/2437	0.394	98.08%	1.020	18.48	19.50	1.265	0.508
Right side	802.11b	11/2462	0.701	98.08%	1.020	19.21	19.50	1.069	0.764
Body 10mm (Simultaneous transmission)									
Front side	802.11b	1/2412	0.237	98.08%	1.020	19.34	15.50	0.413	0.100
Back side	802.11b	1/2412	0.279	98.08%	1.020	19.34	15.50	0.413	0.118
Right side	802.11b	1/2412	0.547	98.08%	1.020	19.34	15.50	0.413	0.230
Top side	802.11b	1/2412	0.154	98.08%	1.020	19.34	15.50	0.413	0.065
Right side	802.11b	6/2437	0.394	98.08%	1.020	18.48	15.50	0.504	0.202
Right side	802.11b	11/2462	0.701	98.08%	1.020	19.21	15.50	0.426	0.304

Table 23: SAR of WIFI 2.4G.

15.20 SAR Measurement Result of WIFI 5G

Ant 4 Test Results									
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
U-NII-2A Head									
Left cheek	802.11a	52/5260	0.661	99.05%	1.010	14.75	15.00	1.059	0.707
Left tilted	802.11a	52/5260	0.150	99.05%	1.010	14.75	15.00	1.059	0.160
Right cheek	802.11a	52/5260	0.404	99.05%	1.010	14.75	15.00	1.059	0.432
Right tilted	802.11a	52/5260	0.137	99.05%	1.010	14.75	15.00	1.059	0.147
Left cheek	802.11a	60/5300	0.693	99.05%	1.010	14.54	15.00	1.112	0.778
Left cheek	802.11a	64/5320	0.632	99.05%	1.010	14.45	15.00	1.135	0.725
U-NII-2C Head									
Left cheek	802.11a	120/5600	0.517	99.05%	1.010	14.28	15.00	1.180	0.616
Left tilted	802.11a	120/5600	0.100	99.05%	1.010	14.28	15.00	1.180	0.119
Right cheek	802.11a	120/5600	0.312	99.05%	1.010	14.28	15.00	1.180	0.372
Right tilted	802.11a	120/5600	0.075	99.05%	1.010	14.28	15.00	1.180	0.089
Left cheek	802.11a	100/5500	0.472	99.05%	1.010	14.07	15.00	1.239	0.591
Left cheek	802.11a	140/5700	0.572	99.05%	1.010	13.97	15.00	1.268	0.732
U-NII-3 Head									
Left cheek	802.11a	165/5825	0.433	99.05%	1.010	13.50	14.50	1.259	0.551
Left tilted	802.11a	165/5825	0.099	99.05%	1.010	13.50	14.50	1.259	0.126
Right cheek	802.11a	165/5825	0.246	99.05%	1.010	13.50	14.50	1.259	0.313
Right tilted	802.11a	165/5825	0.083	99.05%	1.010	13.50	14.50	1.259	0.106
Left cheek	802.11a	149/5745	0.734	99.05%	1.010	13.28	14.50	1.324	0.982
Left cheek	802.11a	157/5785	0.491	99.05%	1.010	13.45	14.50	1.274	0.632
U-NII-2A Head (Simultaneous transmission)									
Left cheek	802.11a	52/5260	0.661	99.05%	1.010	14.75	11.00	0.422	0.282
Left tilted	802.11a	52/5260	0.150	99.05%	1.010	14.75	11.00	0.422	0.064
Right cheek	802.11a	52/5260	0.404	99.05%	1.010	14.75	11.00	0.422	0.172
Right tilted	802.11a	52/5260	0.137	99.05%	1.010	14.75	11.00	0.422	0.058
Left cheek	802.11a	60/5300	0.693	99.05%	1.010	14.54	11.00	0.443	0.310
Left cheek	802.11a	64/5320	0.632	99.05%	1.010	14.45	11.00	0.452	0.288
U-NII-2C Head (Simultaneous transmission)									
Left cheek	802.11a	120/5600	0.517	99.05%	1.010	14.28	11.00	0.470	0.245
Left tilted	802.11a	120/5600	0.100	99.05%	1.010	14.28	11.00	0.470	0.047
Right cheek	802.11a	120/5600	0.312	99.05%	1.010	14.28	11.00	0.470	0.148
Right tilted	802.11a	120/5600	0.075	99.05%	1.010	14.28	11.00	0.470	0.036
Left cheek	802.11a	100/5500	0.472	99.05%	1.010	14.07	11.00	0.493	0.235
Left cheek	802.11a	140/5700	0.572	99.05%	1.010	13.97	11.00	0.505	0.292
U-NII-3 Head (Simultaneous transmission)									
Left cheek	802.11a	165/5825	0.433	99.05%	1.010	13.50	10.50	0.501	0.219
Left tilted	802.11a	165/5825	0.099	99.05%	1.010	13.50	10.50	0.501	0.050
Right cheek	802.11a	165/5825	0.246	99.05%	1.010	13.50	10.50	0.501	0.125
Right tilted	802.11a	165/5825	0.083	99.05%	1.010	13.50	10.50	0.501	0.042
Left cheek	802.11a	149/5745	0.734	99.05%	1.010	13.28	10.50	0.527	0.391
Left cheek	802.11a	157/5785	0.491	99.05%	1.010	13.45	10.50	0.507	0.251
U-NII-2A Body 10mm									
Front side	802.11a	52/5260	0.198	99.05%	1.010	14.75	15.00	1.059	0.212
Back side	802.11a	52/5260	0.100	99.05%	1.010	14.75	15.00	1.059	0.107
Right side	802.11a	52/5260	0.083	99.05%	1.010	14.75	15.00	1.059	0.089
Front side	802.11a	60/5300	0.175	99.05%	1.010	14.54	15.00	1.112	0.196
Front side	802.11a	64/5320	0.184	99.05%	1.010	14.45	15.00	1.135	0.211
U-NII-2C Body 10mm									
Front side	802.11a	120/5600	0.165	99.05%	1.010	14.28	15.00	1.180	0.197
Back side	802.11a	120/5600	0.057	99.05%	1.010	14.28	15.00	1.180	0.068
Right side	802.11a	120/5600	0.061	99.05%	1.010	14.28	15.00	1.180	0.073
Front side	802.11a	100/5500	0.145	99.05%	1.010	14.07	15.00	1.239	0.181
Front side	802.11a	140/5700	0.143	99.05%	1.010	13.97	15.00	1.268	0.183
U-NII-3 Body 10mm									
Front side	802.11a	165/5825	0.126	99.05%	1.010	13.50	14.50	1.259	0.160

Back side	802.11a	165/5825	0.060	99.05%	1.010	13.50	14.50	1.259	0.076
Right side	802.11a	165/5825	0.099	99.05%	1.010	13.50	14.50	1.259	0.126
Front side	802.11a	149/5745	0.138	99.05%	1.010	13.28	14.50	1.324	0.185
Front side	802.11a	157/5785	0.144	99.05%	1.010	13.45	14.50	1.274	0.185
U-NII-1 Body 10mm									
Front side	802.11a	48/5240	0.159	99.05%	1.010	14.01	15.00	1.256	0.202
Back side	802.11a	48/5240	0.110	99.05%	1.010	14.01	15.00	1.256	0.140
Right side	802.11a	48/5240	0.067	99.05%	1.010	14.01	15.00	1.256	0.085
Front side	802.11a	36/5180	0.162	99.05%	1.010	13.92	15.00	1.282	0.210
Front side	802.11a	40/5200	0.165	99.05%	1.010	13.97	15.00	1.268	0.211
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 10g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 10g SAR (W/kg)
U-NII-2A Product specific 10g SAR 0mm									
Front side	802.11a	52/5260	0.340	99.05%	1.010	14.75	15.00	1.059	0.364
Back side	802.11a	52/5260	0.133	99.05%	1.010	14.75	15.00	1.059	0.142
Right side	802.11a	52/5260	0.218	99.05%	1.010	14.75	15.00	1.059	0.233
Front side	802.11a	60/5300	0.255	99.05%	1.010	14.54	15.00	1.112	0.286
Front side	802.11a	64/5320	0.249	99.05%	1.010	14.45	15.00	1.135	0.285
U-NII-2C Product specific 10g SAR 0mm									
Front side	802.11a	120/5600	0.277	99.05%	1.010	14.28	15.00	1.180	0.330
Back side	802.11a	120/5600	0.068	99.05%	1.010	14.28	15.00	1.180	0.081
Right side	802.11a	120/5600	0.138	99.05%	1.010	14.28	15.00	1.180	0.165
Front side	802.11a	100/5500	0.195	99.05%	1.010	14.07	15.00	1.239	0.244
Front side	802.11a	140/5700	0.245	99.05%	1.010	13.97	15.00	1.268	0.314
Ant 7 Test Results									
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
U-NII-2A Head									
Left cheek	802.11a	52/5260	0.623	99.05%	1.010	14.27	15.00	1.183	0.744
Left tilted	802.11a	52/5260	0.701	99.05%	1.010	14.27	15.00	1.183	0.838
Right cheek	802.11a	52/5260	0.377	99.05%	1.010	14.27	15.00	1.183	0.450
Right tilted	802.11a	52/5260	0.486	99.05%	1.010	14.27	15.00	1.183	0.581
Left tilted	802.11a	60/5300	0.694	99.05%	1.010	14.21	15.00	1.199	0.841
Left tilted	802.11a	64/5320	0.734	99.05%	1.010	14.13	15.00	1.222	0.906
U-NII-2C Head									
Left cheek	802.11a	120/5600	0.705	99.05%	1.010	13.87	15.00	1.297	0.924
Left tilted	802.11a	120/5600	0.841	99.05%	1.010	13.87	15.00	1.297	1.102
Right cheek	802.11a	120/5600	0.345	99.05%	1.010	13.87	15.00	1.297	0.452
Right tilted	802.11a	120/5600	0.454	99.05%	1.010	13.87	15.00	1.297	0.595
Left cheek	802.11a	100/5500	0.542	99.05%	1.010	13.84	15.00	1.306	0.715
Left cheek	802.11a	140/5700	0.654	99.05%	1.010	13.77	15.00	1.327	0.877
Left tilted	802.11a	100/5500	0.602	99.05%	1.010	13.84	15.00	1.306	0.794
Left tilted	802.11a	140/5700	0.714	99.05%	1.010	13.77	15.00	1.327	0.957
U-NII-3 Head									
Left cheek	802.11a	165/5825	0.763	99.05%	1.010	13.52	14.50	1.253	0.966
Left tilted	802.11a	165/5825	1.000	99.05%	1.010	13.52	14.50	1.253	1.266
Left tilted Repeated	802.11a	165/5825	0.971	99.05%	1.010	13.52	14.50	1.253	1.229
Right cheek	802.11a	165/5825	0.431	99.05%	1.010	13.52	14.50	1.253	0.546
Right tilted	802.11a	165/5825	0.545	99.05%	1.010	13.52	14.50	1.253	0.690
Left cheek	802.11a	149/5745	0.523	99.05%	1.010	13.47	14.50	1.268	0.670
Left cheek	802.11a	157/5785	0.518	99.05%	1.010	13.40	14.50	1.288	0.674
Left tilted	802.11a	149/5745	0.723	99.05%	1.010	13.47	14.50	1.268	0.926
Left tilted	802.11a	157/5785	0.708	99.05%	1.010	13.40	14.50	1.288	0.921
U-NII-2A Head (Simultaneous transmission)									
Left cheek	802.11a	52/5260	0.623	99.05%	1.010	14.27	11.00	0.471	0.296
Left tilted	802.11a	52/5260	0.701	99.05%	1.010	14.27	11.00	0.471	0.333
Right cheek	802.11a	52/5260	0.377	99.05%	1.010	14.27	11.00	0.471	0.179
Right tilted	802.11a	52/5260	0.486	99.05%	1.010	14.27	11.00	0.471	0.231
Left tilted	802.11a	60/5300	0.694	99.05%	1.010	14.21	11.00	0.478	0.335
Left tilted	802.11a	64/5320	0.734	99.05%	1.010	14.13	11.00	0.486	0.361

U-NII-2C Head (Simultaneous transmission)									
Left cheek	802.11a	120/5600	0.705	99.05%	1.010	13.87	11.00	0.516	0.368
Left tilted	802.11a	120/5600	0.841	99.05%	1.010	13.87	11.00	0.516	0.439
Right cheek	802.11a	120/5600	0.345	99.05%	1.010	13.87	11.00	0.516	0.180
Right tilted	802.11a	120/5600	0.454	99.05%	1.010	13.87	11.00	0.516	0.237
Left cheek	802.11a	100/5500	0.542	99.05%	1.010	13.84	11.00	0.520	0.285
Left cheek	802.11a	140/5700	0.654	99.05%	1.010	13.77	11.00	0.528	0.349
Left tilted	802.11a	100/5500	0.602	99.05%	1.010	13.84	11.00	0.520	0.316
Left tilted	802.11a	140/5700	0.714	99.05%	1.010	13.77	11.00	0.528	0.381
U-NII-3 Head (Simultaneous transmission)									
Left cheek	802.11a	165/5825	0.763	99.05%	1.010	13.52	10.50	0.499	0.384
Left tilted	802.11a	165/5825	1.000	99.05%	1.010	13.52	10.50	0.499	0.504
Left tilted Repeated	802.11a	165/5825	0.971	99.05%	1.010	13.52	10.50	0.499	0.489
Right cheek	802.11a	165/5825	0.431	99.05%	1.010	13.52	10.50	0.499	0.217
Right tilted	802.11a	165/5825	0.545	99.05%	1.010	13.52	10.50	0.499	0.275
Left cheek	802.11a	149/5745	0.523	99.05%	1.010	13.47	10.50	0.505	0.267
Left cheek	802.11a	157/5785	0.518	99.05%	1.010	13.40	10.50	0.513	0.268
Left tilted	802.11a	149/5745	0.723	99.05%	1.010	13.47	10.50	0.505	0.369
Left tilted	802.11a	157/5785	0.708	99.05%	1.010	13.40	10.50	0.513	0.367
U-NII-2A Body 10mm									
Front side	802.11a	52/5260	0.256	99.05%	1.010	14.27	15.00	1.183	0.306
Back side	802.11a	52/5260	0.042	99.05%	1.010	14.27	15.00	1.183	0.050
Right side	802.11a	52/5260	0.080	99.05%	1.010	14.27	15.00	1.183	0.096
Top side	802.11a	52/5260	0.155	99.05%	1.010	14.27	15.00	1.183	0.185
Front side	802.11a	60/5300	0.153	99.05%	1.010	14.21	15.00	1.199	0.185
Front side	802.11a	64/5320	0.144	99.05%	1.010	14.13	15.00	1.222	0.178
U-NII-2C Body 10mm									
Front side	802.11a	120/5600	0.173	99.05%	1.010	13.87	15.00	1.297	0.227
Back side	802.11a	120/5600	0.055	99.05%	1.010	13.87	15.00	1.297	0.072
Right side	802.11a	120/5600	0.055	99.05%	1.010	13.87	15.00	1.297	0.072
Top side	802.11a	120/5600	0.094	99.05%	1.010	13.87	15.00	1.297	0.123
Front side	802.11a	100/5500	0.194	99.05%	1.010	13.84	15.00	1.306	0.256
Front side	802.11a	140/5700	0.163	99.05%	1.010	13.77	15.00	1.327	0.219
U-NII-3 Body 10mm									
Front side	802.11a	165/5825	0.188	99.05%	1.010	13.52	14.50	1.253	0.238
Back side	802.11a	165/5825	0.041	99.05%	1.010	13.52	14.50	1.253	0.052
Right side	802.11a	165/5825	0.050	99.05%	1.010	13.52	14.50	1.253	0.063
Top side	802.11a	165/5825	0.135	99.05%	1.010	13.52	14.50	1.253	0.171
Front side	802.11a	149/5745	0.146	99.05%	1.010	13.47	14.50	1.268	0.187
Front side	802.11a	157/5785	0.151	99.05%	1.010	13.40	14.50	1.288	0.196
U-NII-1 Body 10mm									
Front side	802.11a	48/5240	0.177	99.05%	1.010	14.31	15.00	1.172	0.210
Back side	802.11a	48/5240	0.058	99.05%	1.010	14.31	15.00	1.172	0.069
Right side	802.11a	48/5240	0.080	99.05%	1.010	14.31	15.00	1.172	0.095
Top side	802.11a	48/5240	0.188	99.05%	1.010	14.31	15.00	1.172	0.223
Front side	802.11a	36/5180	0.155	99.05%	1.010	14.05	15.00	1.245	0.195
Front side	802.11a	40/5200	0.173	99.05%	1.010	14.21	15.00	1.199	0.210
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 10g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 10g SAR (W/kg)
U-NII-2A Product specific 10g SAR 0mm									
Front side	802.11a	52/5260	0.422	99.05%	1.010	14.27	15.00	1.183	0.504
Back side	802.11a	52/5260	0.038	99.05%	1.010	14.27	15.00	1.183	0.045
Right side	802.11a	52/5260	0.125	99.05%	1.010	14.27	15.00	1.183	0.149
Top side	802.11a	52/5260	0.376	99.05%	1.010	14.27	15.00	1.183	0.449
Front side	802.11a	60/5300	0.393	99.05%	1.010	14.21	15.00	1.199	0.476
Front side	802.11a	64/5320	0.411	99.05%	1.010	14.13	15.00	1.222	0.507
U-NII-2C Product specific 10g SAR 0mm									
Front side	802.11a	120/5600	0.501	99.05%	1.010	13.87	15.00	1.297	0.656
Back side	802.11a	120/5600	0.063	99.05%	1.010	13.87	15.00	1.297	0.083
Right side	802.11a	120/5600	0.050	99.05%	1.010	13.87	15.00	1.297	0.066
Top side	802.11a	120/5600	0.460	99.05%	1.010	13.87	15.00	1.297	0.603

Front side	802.11a	100/5500	0.391	99.05%	1.010	13.84	15.00	1.306	0.516
Front side	802.11a	140/5700	0.459	99.05%	1.010	13.77	15.00	1.327	0.615
MIMO Test Results									
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 1g SAR (W/kg)
U-NII-2A Head									
Left cheek	802.11a	52/5260	0.702	99.05%	1.010	17.53	18.00	1.114	0.790
Left tilted	802.11a	52/5260	0.677	99.05%	1.010	17.53	18.00	1.114	0.762
Right cheek	802.11a	52/5260	0.425	99.05%	1.010	17.53	18.00	1.114	0.478
Right tilted	802.11a	52/5260	0.507	99.05%	1.010	17.53	18.00	1.114	0.571
Left cheek	802.11a	60/5300	0.656	99.05%	1.010	17.39	18.00	1.151	0.762
Left cheek	802.11a	64/5320	0.664	99.05%	1.010	17.30	18.00	1.175	0.788
U-NII-2C Head									
Left cheek	802.11a	120/5600	0.717	99.05%	1.010	17.09	18.00	1.233	0.893
Left tilted	802.11a	120/5600	0.828	99.05%	1.010	17.09	18.00	1.233	1.031
Right cheek	802.11a	120/5600	0.343	99.05%	1.010	17.09	18.00	1.233	0.427
Right tilted	802.11a	120/5600	0.437	99.05%	1.010	17.09	18.00	1.233	0.544
Left cheek	802.11a	100/5500	0.504	99.05%	1.010	16.97	18.00	1.268	0.645
Left cheek	802.11a	140/5700	0.560	99.05%	1.010	16.88	18.00	1.294	0.732
Left tilted	802.11a	100/5500	0.594	99.05%	1.010	16.97	18.00	1.268	0.761
Left tilted	802.11a	140/5700	0.660	99.05%	1.010	16.88	18.00	1.294	0.863
U-NII-3 Head									
Left cheek	802.11a	165/5825	0.803	99.05%	1.010	16.47	17.50	1.268	1.028
Left tilted	802.11a	165/5825	1.010	99.05%	1.010	16.47	17.50	1.268	1.293
Left tilted Repeated	802.11a	165/5825	0.950	99.05%	1.010	16.47	17.50	1.268	1.216
Right cheek	802.11a	165/5825	0.468	99.05%	1.010	16.47	17.50	1.268	0.599
Right tilted	802.11a	165/5825	0.580	99.05%	1.010	16.47	17.50	1.268	0.743
Left cheek	802.11a	149/5745	0.617	99.05%	1.010	16.41	17.50	1.285	0.801
Left cheek	802.11a	157/5785	0.622	99.05%	1.010	16.46	17.50	1.271	0.798
Left tilted	802.11a	149/5745	0.737	99.05%	1.010	16.41	17.50	1.285	0.957
Left tilted	802.11a	157/5785	0.732	99.05%	1.010	16.46	17.50	1.271	0.939
U-NII-2A Head (Simultaneous transmission)									
Left cheek	802.11a	52/5260	0.702	99.05%	1.010	17.53	14.00	0.444	0.315
Left tilted	802.11a	52/5260	0.677	99.05%	1.010	17.53	14.00	0.444	0.303
Right cheek	802.11a	52/5260	0.425	99.05%	1.010	17.53	14.00	0.444	0.190
Right tilted	802.11a	52/5260	0.507	99.05%	1.010	17.53	14.00	0.444	0.227
Left cheek	802.11a	60/5300	0.656	99.05%	1.010	17.39	14.00	0.458	0.304
Left cheek	802.11a	64/5320	0.664	99.05%	1.010	17.30	14.00	0.468	0.314
U-NII-2C Head (Simultaneous transmission)									
Left cheek	802.11a	120/5600	0.717	99.05%	1.010	17.09	14.00	0.491	0.356
Left tilted	802.11a	120/5600	0.828	99.05%	1.010	17.09	14.00	0.491	0.411
Right cheek	802.11a	120/5600	0.343	99.05%	1.010	17.09	14.00	0.491	0.170
Right tilted	802.11a	120/5600	0.437	99.05%	1.010	17.09	14.00	0.491	0.217
Left cheek	802.11a	100/5500	0.504	99.05%	1.010	16.97	14.00	0.505	0.257
Left cheek	802.11a	140/5700	0.560	99.05%	1.010	16.88	14.00	0.515	0.291
Left tilted	802.11a	100/5500	0.594	99.05%	1.010	16.97	14.00	0.505	0.303
Left tilted	802.11a	140/5700	0.660	99.05%	1.010	16.88	14.00	0.515	0.343
U-NII-3 Head (Simultaneous transmission)									
Left cheek	802.11a	165/5825	0.803	99.05%	1.010	16.47	13.50	0.505	0.409
Left tilted	802.11a	165/5825	1.010	99.05%	1.010	16.47	13.50	0.505	0.515
Left tilted Repeated	802.11a	165/5825	0.950	99.05%	1.010	16.47	13.50	0.505	0.484
Right cheek	802.11a	165/5825	0.468	99.05%	1.010	16.47	13.50	0.505	0.239
Right tilted	802.11a	165/5825	0.580	99.05%	1.010	16.47	13.50	0.505	0.296
Left cheek	802.11a	149/5745	0.617	99.05%	1.010	16.41	13.50	0.512	0.319
Left cheek	802.11a	157/5785	0.622	99.05%	1.010	16.46	13.50	0.506	0.318
Left tilted	802.11a	149/5745	0.737	99.05%	1.010	16.41	13.50	0.512	0.381
Left tilted	802.11a	157/5785	0.732	99.05%	1.010	16.46	13.50	0.506	0.374
U-NII-2A Body 10mm									
Front side	802.11a	52/5260	0.229	99.05%	1.010	17.53	18.00	1.114	0.258
Back side	802.11a	52/5260	0.105	99.05%	1.010	17.53	18.00	1.114	0.118
Right side	802.11a	52/5260	0.156	99.05%	1.010	17.53	18.00	1.114	0.176

Top side	802.11a	52/5260	0.225	99.05%	1.010	17.53	18.00	1.114	0.253
Front side	802.11a	60/5300	0.203	99.05%	1.010	17.39	18.00	1.151	0.236
Front side	802.11a	64/5320	0.212	99.05%	1.010	17.30	18.00	1.175	0.252
U-NII-2C Body 10mm									
Front side	802.11a	120/5600	0.160	99.05%	1.010	17.09	18.00	1.233	0.199
Back side	802.11a	120/5600	0.061	99.05%	1.010	17.09	18.00	1.233	0.076
Right side	802.11a	120/5600	0.096	99.05%	1.010	17.09	18.00	1.233	0.120
Top side	802.11a	120/5600	0.114	99.05%	1.010	17.09	18.00	1.233	0.142
Front side	802.11a	100/5500	0.162	99.05%	1.010	16.97	18.00	1.268	0.207
Front side	802.11a	140/5700	0.152	99.05%	1.010	16.88	18.00	1.294	0.199
U-NII-3 Body 10mm									
Front side	802.11a	165/5825	0.211	99.05%	1.010	16.47	17.50	1.268	0.270
Back side	802.11a	165/5825	0.073	99.05%	1.010	16.47	17.50	1.268	0.093
Right side	802.11a	165/5825	0.093	99.05%	1.010	16.47	17.50	1.268	0.119
Top side	802.11a	165/5825	0.147	99.05%	1.010	16.47	17.50	1.268	0.188
Front side	802.11a	149/5745	0.158	99.05%	1.010	16.41	17.50	1.285	0.205
Front side	802.11a	157/5785	0.156	99.05%	1.010	16.46	17.50	1.271	0.200
U-NII-1 Body 10mm									
Front side	802.11a	48/5240	0.174	99.05%	1.010	17.17	18.00	1.211	0.213
Back side	802.11a	48/5240	0.112	99.05%	1.010	17.17	18.00	1.211	0.137
Right side	802.11a	48/5240	0.144	99.05%	1.010	17.17	18.00	1.211	0.176
Top side	802.11a	48/5240	0.201	99.05%	1.010	17.17	18.00	1.211	0.246
Front side	802.11a	36/5180	0.168	99.05%	1.010	17.00	18.00	1.259	0.214
Front side	802.11a	40/5200	0.177	99.05%	1.010	17.10	18.00	1.230	0.220
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 10g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power (dBm)	Tune up Limit (dBm)	Scaling Factor	Reported 10g SAR (W/kg)
U-NII-2A Product specific 10g SAR 0mm									
Front side	802.11a	52/5260	0.413	99.05%	1.010	17.53	18.00	1.114	0.465
Back side	802.11a	52/5260	0.151	99.05%	1.010	17.53	18.00	1.114	0.170
Right side	802.11a	52/5260	0.219	99.05%	1.010	17.53	18.00	1.114	0.246
Top side	802.11a	52/5260	0.387	99.05%	1.010	17.53	18.00	1.114	0.436
Front side	802.11a	60/5300	0.380	99.05%	1.010	17.39	18.00	1.151	0.442
Front side	802.11a	64/5320	0.415	99.05%	1.010	17.30	18.00	1.175	0.492
U-NII-2C Product specific 10g SAR 0mm									
Front side	802.11a	120/5600	0.496	99.05%	1.010	17.09	18.00	1.233	0.618
Back side	802.11a	120/5600	0.071	99.05%	1.010	17.09	18.00	1.233	0.088
Right side	802.11a	120/5600	0.135	99.05%	1.010	17.09	18.00	1.233	0.168
Top side	802.11a	120/5600	0.445	99.05%	1.010	17.09	18.00	1.233	0.554
Front side	802.11a	100/5500	0.400	99.05%	1.010	16.97	18.00	1.268	0.512
Front side	802.11a	140/5700	0.448	99.05%	1.010	16.88	18.00	1.294	0.586

Table 24: SAR of WIFI 5G.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Left tilted (Ant7)	165/5825	1.000	0.971	1.030	N/A	N/A
Left tilted (MIMO)	165/5825	1.010	0.950	1.063	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurement was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

15.21 SAR Measurement Result of BT

Ant 4 Test Results									
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head									
Left cheek	BLE 1M	0/2402	0.136	63.49%	1.575	10.12	11.00	1.225	0.262
Left tilted	BLE 1M	0/2402	0.021	63.49%	1.575	10.12	11.00	1.225	0.041
Right cheek	BLE 1M	0/2402	0.054	63.49%	1.575	10.12	11.00	1.225	0.104
Right tilted	BLE 1M	0/2402	0.010	63.49%	1.575	10.12	11.00	1.225	0.019
Left cheek	BLE 1M	19/2440	0.098	63.49%	1.575	9.45	11.00	1.429	0.221
Left cheek	BLE 1M	39/2480	0.202	63.49%	1.575	9.96	11.00	1.271	0.404
Body 10mm									
Front side	BLE 1M	0/2402	0.032	63.49%	1.575	10.12	11.00	1.225	0.062
Back side	BLE 1M	0/2402	0.025	63.49%	1.575	10.12	11.00	1.225	0.048
Right side	BLE 1M	0/2402	0.057	63.49%	1.575	10.12	11.00	1.225	0.110
Right side	BLE 1M	19/2440	0.043	63.49%	1.575	9.45	11.00	1.429	0.097
Right side	BLE 1M	39/2480	0.071	63.49%	1.575	9.96	11.00	1.271	0.142
Ant 6 Test Results									
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 1-g	Duty Cycle	Duty Cycle Scaling Factor	Conducted Power(dBm)	Tune up Limit(dBm)	Scaling Factor	Reported 1g SAR (W/kg)
Head									
Left cheek	BLE 1M	19/2440	0.081	63.49%	1.575	10.25	11.00	1.189	0.152
Left tilted	BLE 1M	19/2440	0.084	63.49%	1.575	10.25	11.00	1.189	0.157
Right cheek	BLE 1M	19/2440	0.056	63.49%	1.575	10.25	11.00	1.189	0.105
Right tilted	BLE 1M	19/2440	0.067	63.49%	1.575	10.25	11.00	1.189	0.125
Left tilted	BLE 1M	0/2402	0.055	63.49%	1.575	9.64	11.00	1.368	0.118
Left tilted	BLE 1M	39/2480	0.041	63.49%	1.575	9.83	11.00	1.309	0.085
Body 10mm									
Front side	BLE 1M	19/2440	0.025	63.49%	1.575	10.25	11.00	1.189	0.047
Back side	BLE 1M	19/2440	0.020	63.49%	1.575	10.25	11.00	1.189	0.037
Right side	BLE 1M	19/2440	0.021	63.49%	1.575	10.25	11.00	1.189	0.039
Top side	BLE 1M	19/2440	0.031	63.49%	1.575	10.25	11.00	1.189	0.058
Top side	BLE 1M	0/2402	0.020	63.49%	1.575	9.64	11.00	1.368	0.043
Top side	BLE 1M	39/2480	0.024	63.49%	1.575	9.83	11.00	1.309	0.049

Table 25: SAR of BT.

15.22 SAR Measurement Result of NFC

Test Results			
Test position	Mode	Ch./Freq. (MHz)	SAR (W/kg) 10-g
Body 0mm			
Front side	NFC(ASK)	13.56MHz	0.000
Back side	NFC(ASK)	13.56MHz	0.008
Left side	NFC(ASK)	13.56MHz	0.000
Right side	NFC(ASK)	13.56MHz	0.000
Top side	NFC(ASK)	13.56MHz	0.001
Bottom side	NFC(ASK)	13.56MHz	0.000

Table 26: SAR of NFC.

16 Simultaneous Transmission Analysis

The Simultaneous Transmission Possibilities of this device are as below:

NO.	Simultaneous TX Combination	Head	Body-worn	Hotspot	Product Specific (0mm)
1	WIFI 5G SISO/MIMO + BT Ant4	Y	Y	Y	Y
2	WIFI 5G SISO/MIMO + BT Ant6	Y	Y	Y	Y
3	WIFI 5G SISO/MIMO + BT Ant4 + BT Ant6	Y	Y	Y	Y
4	WIFI 2.4G SISO/MIMO + WIFI 5G SISO/MIMO	Y	Y	Y	Y
5	WWAN + BT Ant4	Y	Y	Y	Y
6	WWAN + BT Ant6	Y	Y	Y	Y
7	WWAN + BT Ant4 + BT CH1	Y	Y	Y	Y
8	WWAN + WIFI 2.4G SISO/MIMO	Y	Y	Y	Y
9	WWAN + WIFI 5G SISO/MIMO	Y	Y	Y	Y
10	WWAN + WIFI 5G SISO/MIMO + BT Ant4	Y	Y	Y	Y
11	WWAN + WIFI 5G SISO/MIMO + BT Ant6	Y	Y	Y	Y
12	WWAN + WIFI 5G SISO/MIMO + BT Ant4 + BT Ant6	Y	Y	Y	Y
13	WWAN + WIFI 2.4G SISO/MIMO + WIFI 5G SISO/MIMO	Y	Y	Y	Y
14	WWAN + NFC	N	N	N	Y
15	WIFI 5G SISO/MIMO + BT Ant4 + NFC	N	N	N	Y
16	WIFI 5G SISO/MIMO + BT Ant6 + NFC	N	N	N	Y
17	WIFI 5G SISO/MIMO + BT Ant4 + BT Ant6 + NFC	N	N	N	Y
18	WIFI 2.4G SISO/MIMO + WIFI 5G SISO/MIMO + NFC	N	N	N	Y
19	WWAN + BT Ant4 + NFC	N	N	N	Y
20	WWAN + BT Ant6 + NFC	N	N	N	Y
21	WWAN + BT Ant4 + BT CH1 + NFC	N	N	N	Y
22	WWAN + WIFI 2.4G SISO/MIMO + NFC	N	N	N	Y
23	WWAN + WIFI 5G SISO/MIMO+ NFC	N	N	N	Y
24	WWAN + WIFI 5G SISO/MIMO + BT Ant4 + NFC	N	N	N	Y
25	WWAN + WIFI 5G SISO/MIMO + BT Ant6 + NFC + NFC	N	N	N	Y
26	WWAN + WIFI 5G SISO/MIMO + BT Ant4 + BT Ant6 + NFC	N	N	N	Y
27	WWAN + WIFI 2.4G SISO/MIMO + WIFI 5G SISO/MIMO + NFC	N	N	N	Y

Head:

Test position		SARmax (W/kg)									Summed SAR												
		Main Ant0	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)													
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7
LTE B42	Left cheek	0.022	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.426	0.174	0.578	0.443	0.431	0.835	0.583	0.987	0.852
	Left tilted	0.006	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.047	0.163	0.204	0.197	0.521	0.562	0.678	0.719	0.712
	Right cheek	0.010	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.114	0.115	0.219	0.145	0.249	0.353	0.354	0.458	0.384
	Right tilted	0.011	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.030	0.136	0.155	0.169	0.307	0.326	0.432	0.451	0.465
n77/78	Left cheek	0.098	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.502	0.250	0.654	0.519	0.507	0.911	0.659	1.063	0.928
	Left tilted	0.021	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.062	0.178	0.219	0.212	0.536	0.577	0.693	0.734	0.727
	Right cheek	0.076	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.180	0.181	0.285	0.211	0.315	0.419	0.420	0.524	0.450
	Right tilted	0.033	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.052	0.158	0.177	0.191	0.329	0.348	0.454	0.473	0.487
Test position		SARmax (W/kg)									Summed SAR												
		Main Ant1	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)													
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7
LTE B41	Left cheek	0.010	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.414	0.162	0.566	0.431	0.419	0.823	0.571	0.975	0.840
	Left tilted	0.006	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.047	0.163	0.204	0.197	0.521	0.562	0.678	0.719	0.712
	Right cheek	0.014	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.118	0.119	0.223	0.149	0.253	0.357	0.358	0.462	0.388
	Right tilted	0.007	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.026	0.132	0.151	0.165	0.303	0.322	0.428	0.447	0.461
LTE B66	Left cheek	0.039	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.443	0.191	0.595	0.460	0.448	0.852	0.600	1.004	0.869
	Left tilted	0.021	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.062	0.178	0.219	0.212	0.536	0.577	0.693	0.734	0.727
	Right cheek	0.076	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.180	0.181	0.285	0.211	0.315	0.419	0.420	0.524	0.450
	Right tilted	0.016	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.035	0.141	0.160	0.174	0.312	0.331	0.437	0.456	0.470
n41	Left cheek	0.212	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.616	0.364	0.768	0.633	0.621	1.025	0.773	1.177	1.042
	Left tilted	0.027	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.068	0.184	0.225	0.218	0.542	0.583	0.699	0.740	0.733
	Right cheek	0.049	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.153	0.154	0.258	0.184	0.288	0.392	0.393	0.497	0.423
	Right tilted	0.032	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.051	0.157	0.176	0.190	0.328	0.347	0.453	0.472	0.486
Test position		SARmax (W/kg)									Summed SAR												
		Main Ant2	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)													
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7
LTE B66	Left cheek	0.015	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.419	0.167	0.571	0.436	0.424	0.828	0.576	0.980	0.845
	Left tilted	0.007	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.048	0.164	0.205	0.198	0.522	0.563	0.679	0.720	0.713
	Right cheek	0.051	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.155	0.156	0.260	0.186	0.290	0.394	0.395	0.499	0.425
	Right tilted	0.006	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.025	0.131	0.150	0.164	0.302	0.321	0.427	0.446	0.460
LTE B41	Left cheek	0.058	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.462	0.210	0.614	0.479	0.467	0.871	0.619	1.023	0.888
	Left tilted	0.014	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.055	0.171	0.212	0.205	0.529	0.570	0.686	0.727	0.720
	Right cheek	0.070	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.174	0.175	0.279	0.205	0.309	0.413	0.414	0.518	0.444
	Right tilted	0.028	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.047	0.153	0.172	0.186	0.324	0.343	0.449	0.468	0.482
LTE B42	Left cheek	0.009	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.413	0.161	0.565	0.430	0.418	0.822	0.570	0.974	0.839
	Left tilted	0.007	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.048	0.164	0.205	0.198	0.522	0.563	0.679	0.720	0.713
	Right cheek	0.006	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.110	0.111	0.215	0.141	0.245	0.349	0.350	0.454	0.380
	Right tilted	0.006	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.025	0.131	0.150	0.164	0.302	0.321	0.427	0.446	0.460
n41	Left cheek	0.123	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.527	0.275	0.679	0.544	0.532	0.936	0.684	1.088	0.953
	Left tilted	0.071	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.112	0.228	0.269	0.262	0.586	0.627	0.743	0.784	0.777
	Right cheek	0.179	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.283	0.284	0.388	0.314	0.418	0.522	0.523	0.627	0.553
	Right tilted	0.085	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.104	0.210	0.229	0.243	0.381	0.400	0.506	0.525	0.539
n77/78	Left cheek	0.014	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.418	0.166	0.570	0.435	0.423	0.827	0.575	0.979	0.844
	Left tilted	0.004	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.045	0.161	0.202	0.195	0.519	0.560	0.676	0.717	0.710
	Right cheek	0.005	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.109	0.110	0.214	0.140	0.244	0.348	0.349	0.453	0.379
	Right tilted	0.004	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.023	0.129	0.148	0.162	0.300	0.319	0.425	0.444	0.458

Test position		SARmax (W/kg)									Summed SAR													
		Main Ant3	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)														
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7	
GSM850	Left cheek	0.162	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.566	0.314	0.718	0.583	0.571	0.975	0.723	1.127	0.992	
	Left tilted	0.023	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.064	0.180	0.221	0.214	0.538	0.579	0.695	0.736	0.729	
	Right cheek	0.439	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.543	0.544	0.648	0.574	0.678	0.782	0.783	0.887	0.813	
	Right tilted	0.048	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.067	0.173	0.192	0.206	0.344	0.363	0.469	0.488	0.502	
WCDMA B5	Left cheek	0.214	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.618	0.366	0.770	0.635	0.623	1.027	0.775	1.179	1.044	
	Left tilted	0.032	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.073	0.189	0.230	0.223	0.547	0.588	0.704	0.745	0.738	
	Right cheek	0.516	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.620	0.621	0.725	0.651	0.755	0.859	0.860	0.964	0.890	
	Right tilted	0.063	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.082	0.188	0.207	0.221	0.359	0.378	0.484	0.503	0.517	
LTE B26/5	Left cheek	0.341	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.745	0.493	0.897	0.762	0.750	1.154	0.902	1.306	1.171	
	Left tilted	0.016	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.057	0.173	0.214	0.207	0.531	0.572	0.688	0.729	0.722	
	Right cheek	0.585	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.689	0.690	0.794	0.720	0.824	0.928	0.929	1.033	0.959	
	Right tilted	0.096	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.115	0.221	0.240	0.254	0.392	0.411	0.517	0.536	0.550	
LTE B12/17	Left cheek	0.411	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.815	0.563	0.967	0.832	0.820	1.224	0.972	1.376	1.241	
	Left tilted	0.100	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.141	0.257	0.298	0.291	0.615	0.656	0.772	0.813	0.806	
	Right cheek	0.974	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	1.078	1.079	1.183	1.109	1.213	1.317	1.318	1.422	1.348	
	Right tilted	0.147	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.166	0.272	0.291	0.305	0.443	0.462	0.568	0.587	0.601	
n5	Left cheek	0.167	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.571	0.319	0.723	0.588	0.576	0.980	0.728	1.132	0.997	
	Left tilted	0.012	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.053	0.169	0.210	0.203	0.527	0.568	0.684	0.725	0.718	
	Right cheek	0.445	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.549	0.550	0.654	0.580	0.684	0.788	0.789	0.893	0.819	
	Right tilted	0.018	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.037	0.143	0.162	0.176	0.314	0.333	0.439	0.458	0.472	
Test position		SARmax (W/kg)									Summed SAR													
		Main Ant7	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)														
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7	
LTE B42	Left cheek	0.515	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.919	0.667	1.071	0.936	0.924	1.328	1.076	1.480	1.345	
	Left tilted	0.232	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.273	0.389	0.430	0.423	0.747	0.788	0.904	0.945	0.938	
	Right cheek	0.151	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.255	0.256	0.360	0.286	0.390	0.494	0.495	0.599	0.525	
	Right tilted	0.170	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.189	0.295	0.314	0.328	0.466	0.485	0.591	0.610	0.624	
n77/78	Left cheek	0.585	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.989	0.737	1.141	1.006	0.994	1.398	1.146	1.550	1.415	
	Left tilted	0.572	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.613	0.729	0.770	0.763	1.087	1.128	1.244	1.285	1.278	
	Right cheek	0.338	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.442	0.443	0.547	0.473	0.577	0.681	0.682	0.786	0.712	
	Right tilted	0.357	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.376	0.482	0.501	0.515	0.653	0.672	0.778	0.797	0.811	
Test position		SARmax (W/kg)									Summed SAR													
		Main Ant8	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)														
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7	
GSM1900	Left cheek	0.162	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.566	0.314	0.718	0.583	0.571	0.975	0.723	1.127	0.992	
	Left tilted	0.172	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.213	0.329	0.370	0.363	0.687	0.728	0.844	0.885	0.878	
	Right cheek	0.250	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.354	0.355	0.459	0.385	0.489	0.593	0.594	0.698	0.624	
	Right tilted	0.182	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.201	0.307	0.326	0.340	0.478	0.497	0.603	0.622	0.636	
WCDMA B2	Left cheek	0.342	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.746	0.494	0.898	0.763	0.751	1.155	0.903	1.307	1.172	
	Left tilted	0.474	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.515	0.631	0.672	0.665	0.989	1.030	1.146	1.187	1.180	
	Right cheek	0.501	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.605	0.606	0.710	0.636	0.740	0.844	0.845	0.949	0.875	
	Right tilted	0.586	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.605	0.711	0.730	0.744	0.882	0.901	1.007	1.026	1.040	
WCDMA B4	Left cheek	0.219	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.623	0.371	0.775	0.640	0.628	1.032	0.780	1.184	1.049	
	Left tilted	0.297	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.338	0.454	0.495	0.488	0.812	0.853	0.969	1.010	1.003	
	Right cheek	0.420	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.524	0.525	0.629	0.555	0.659	0.763	0.764	0.868	0.794	
	Right tilted	0.670	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.689	0.795	0.814	0.828	0.966	0.985	1.091	1.110	1.124	
LTE B25/2	Left cheek	0.364	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.768	0.516	0.920	0.785	0.773	1.177	0.925	1.329	1.194	
	Left tilted	0.480	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.521	0.637	0.678	0.671	0.995	1.036	1.152	1.193	1.186	

LTE B7	Left cheek	0.479	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.883	0.631	1.035	0.900	0.888	1.292	1.040	1.444	1.309
	Left tilted	0.543	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.584	0.700	0.741	0.734	1.058	1.099	1.215	1.256	1.249
	Right cheek	0.657	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.761	0.762	0.866	0.792	0.896	1.000	1.001	1.105	1.031
	Right tilted	0.759	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.778	0.884	0.903	0.917	1.055	1.074	1.180	1.199	1.213
LTE B41/38	Left cheek	0.359	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.763	0.511	0.915	0.780	0.768	1.172	0.920	1.324	1.189
	Left tilted	0.418	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.459	0.575	0.616	0.609	0.933	0.974	1.090	1.131	1.124
	Right cheek	0.513	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.617	0.618	0.722	0.648	0.752	0.856	0.857	0.961	0.887
	Right tilted	0.968	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.987	1.093	1.112	1.126	1.264	1.283	1.389	1.408	1.422
n7	Left cheek	0.525	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.929	0.677	1.081	0.946	0.934	1.338	1.086	1.490	1.355
	Left tilted	0.624	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.665	0.781	0.822	0.815	1.139	1.180	1.296	1.337	1.330
	Right cheek	0.720	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.824	0.825	0.929	0.855	0.959	1.063	1.064	1.168	1.094
	Right tilted	0.756	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.775	0.881	0.900	0.914	1.052	1.071	1.177	1.196	1.210
n25/2	Left cheek	0.386	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.790	0.538	0.942	0.807	0.795	1.199	0.947	1.351	1.216
	Left tilted	0.524	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.565	0.681	0.722	0.715	1.039	1.080	1.196	1.237	1.230
	Right cheek	0.586	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.690	0.691	0.795	0.721	0.825	0.929	0.930	1.034	0.960
	Right tilted	0.644	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.663	0.769	0.788	0.802	0.940	0.959	1.065	1.084	1.098
n41/38	Left cheek	0.359	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.763	0.511	0.915	0.780	0.768	1.172	0.920	1.324	1.189
	Left tilted	0.420	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.461	0.577	0.618	0.611	0.935	0.976	1.092	1.133	1.126
	Right cheek	0.545	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.649	0.650	0.754	0.680	0.784	0.888	0.889	0.993	0.919
	Right tilted	1.008	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	1.027	1.133	1.152	1.166	1.304	1.323	1.429	1.448	1.462
n66	Left cheek	0.238	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.642	0.390	0.794	0.659	0.647	1.051	0.799	1.203	1.068
	Left tilted	0.356	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.397	0.513	0.554	0.547	0.871	0.912	1.028	1.069	1.062
	Right cheek	0.517	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.621	0.622	0.726	0.652	0.756	0.860	0.861	0.965	0.891
	Right tilted	0.565	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.584	0.690	0.709	0.723	0.861	0.880	0.986	1.005	1.019
Test position		SARmax (W/kg)									Summed SAR												
		Main Ant9	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)													
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7
LTE B42	Left cheek	0.350	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.754	0.502	0.906	0.771	0.759	1.163	0.911	1.315	1.180
	Left tilted	0.325	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.366	0.482	0.523	0.516	0.840	0.881	0.997	1.038	1.031
	Right cheek	0.871	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.975	0.976	1.080	1.006	1.110	1.214	1.215	1.319	1.245
	Right tilted	0.909	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.928	1.034	1.053	1.067	1.205	1.224	1.330	1.349	1.363
n77/78	Left cheek	0.364	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.768	0.516	0.920	0.785	0.773	1.177	0.925	1.329	1.194
	Left tilted	0.380	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.421	0.537	0.578	0.571	0.895	0.936	1.052	1.093	1.086
	Right cheek	0.776	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.880	0.881	0.985	0.911	1.015	1.119	1.120	1.224	1.150
	Right tilted	0.856	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.875	0.981	1.000	1.014	1.152	1.171	1.277	1.296	1.310
Test position		SARmax (W/kg)									Summed SAR												
		Main Ant10	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)													
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7
GSM1900	Left cheek	0.204	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.608	0.356	0.760	0.625	0.613	1.017	0.765	1.169	1.034
	Left tilted	0.144	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.185	0.301	0.342	0.335	0.659	0.700	0.816	0.857	0.850
	Right cheek	0.728	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.832	0.833	0.937	0.863	0.967	1.071	1.072	1.176	1.102
	Right tilted	0.186	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.205	0.311	0.330	0.344	0.482	0.501	0.607	0.626	0.640
WCDMA B2	Left cheek	0.353	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.757	0.505	0.909	0.774	0.762	1.166	0.914	1.318	1.183
	Left tilted	0.234	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.275	0.391	0.432	0.425	0.749	0.790	0.906	0.947	0.940
	Right cheek	0.947	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	1.051	1.052	1.156	1.082	1.186	1.290	1.291	1.395	1.321
	Right tilted	0.354	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.373	0.479	0.498	0.512	0.650	0.669	0.775	0.794	0.808
WCDMA B4	Left cheek	0.356	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.760	0.508	0.912	0.777	0.765	1.169	0.917	1.321	1.186
	Left tilted	0.170	0.044	0.191	0.171	0																	

LTE B7	Left cheek	0.343	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.747	0.495	0.899	0.764	0.752	1.156	0.904	1.308	1.173
	Left tilted	0.084	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.125	0.241	0.282	0.275	0.599	0.640	0.756	0.797	0.790
	Right cheek	0.792	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.896	0.897	1.001	0.927	1.031	1.135	1.136	1.240	1.166
	Right tilted	0.206	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.225	0.331	0.350	0.364	0.502	0.521	0.627	0.646	0.660
LTE B41/38	Left cheek	0.225	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.629	0.377	0.781	0.646	0.634	1.038	0.786	1.190	1.055
	Left tilted	0.014	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.055	0.171	0.212	0.205	0.529	0.570	0.686	0.727	0.720
	Right cheek	0.461	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.565	0.566	0.670	0.596	0.700	0.804	0.805	0.909	0.835
	Right tilted	0.112	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.131	0.237	0.256	0.270	0.408	0.427	0.533	0.552	0.566
LTE B42	Left cheek	0.022	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.426	0.174	0.578	0.443	0.431	0.835	0.583	0.987	0.852
	Left tilted	0.006	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.047	0.163	0.204	0.197	0.521	0.562	0.678	0.719	0.712
	Right cheek	0.010	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.114	0.115	0.219	0.145	0.249	0.353	0.354	0.458	0.384
	Right tilted	0.011	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.030	0.136	0.155	0.169	0.307	0.326	0.432	0.451	0.465
n7	Left cheek	0.335	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.739	0.487	0.891	0.756	0.744	1.148	0.896	1.300	1.165
	Left tilted	0.087	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.128	0.244	0.285	0.278	0.602	0.643	0.759	0.800	0.793
	Right cheek	0.798	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.902	0.903	1.007	0.933	1.037	1.141	1.142	1.246	1.172
	Right tilted	0.175	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.194	0.300	0.319	0.333	0.471	0.490	0.596	0.615	0.629
n25/2	Left cheek	0.374	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.778	0.526	0.930	0.795	0.783	1.187	0.935	1.339	1.204
	Left tilted	0.241	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.282	0.398	0.439	0.432	0.756	0.797	0.913	0.954	0.947
	Right cheek	1.055	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	1.159	1.160	1.264	1.190	1.294	1.398	1.399	1.503	1.429
	Right tilted	0.281	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.300	0.406	0.425	0.439	0.577	0.596	0.702	0.721	0.735
n41/38	Left cheek	0.324	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.728	0.476	0.880	0.745	0.733	1.137	0.885	1.289	1.154
	Left tilted	0.075	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.116	0.232	0.273	0.266	0.590	0.631	0.747	0.788	0.781
	Right cheek	1.006	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	1.110	1.111	1.215	1.141	1.245	1.349	1.350	1.454	1.380
	Right tilted	0.171	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.190	0.296	0.315	0.329	0.467	0.486	0.592	0.611	0.625
n66	Left cheek	0.312	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.716	0.464	0.868	0.733	0.721	1.125	0.873	1.277	1.142
	Left tilted	0.210	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.251	0.367	0.408	0.401	0.725	0.766	0.882	0.923	0.916
	Right cheek	1.086	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	1.190	1.191	1.295	1.221	1.325	1.429	1.430	1.534	1.460
	Right tilted	0.325	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.344	0.450	0.469	0.483	0.621	0.640	0.746	0.765	0.779
Test position		SARmax (W/kg)										Summed SAR											
		Main Ant11	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)													
		1	2	3	4	5	6	7	8	9													
GSM850	Left cheek	0.536	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.940	0.688	1.092	0.957	0.945	1.349	1.097	1.501	1.366
	Left tilted	0.065	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.106	0.222	0.263	0.256	0.580	0.621	0.737	0.778	0.771
	Right cheek	0.249	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.353	0.354	0.458	0.384	0.488	0.592	0.593	0.697	0.623
	Right tilted	0.039	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.058	0.164	0.183	0.197	0.335	0.354	0.460	0.479	0.493
WCDMA B5	Left cheek	0.556	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.960	0.708	1.112	0.977	0.965	1.369	1.117	1.521	1.386
	Left tilted	0.085	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.126	0.242	0.283	0.276	0.600	0.641	0.757	0.798	0.791
	Right cheek	0.296	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.400	0.401	0.505	0.431	0.535	0.639	0.640	0.744	0.670
	Right tilted	0.054	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.073	0.179	0.198	0.212	0.350	0.369	0.475	0.494	0.508
LTE B26/5	Left cheek	0.587	0.346	0.111	0.421	0.391	0.384	0.409	0.457	0.131	0.866	0.540	0.997	0.830	1.044	0.718	1.175	1.008	0.996	1.453	1.127	1.584	1.417
	Left tilted	0.076	0.044	0.191	0.171	0.064	0.504	0.515	0.038	0.136	0.553	0.651	0.689	0.706	0.114	0.212	0.250	0.267	0.591	0.629	0.727	0.765	0.782
	Right cheek	0.258	0.111	0.085	0.135	0.172	0.217	0.239	0.097	0.091	0.336	0.330	0.427	0.374	0.355	0.349	0.446	0.393	0.497	0.594	0.588	0.685	0.632
	Right tilted	0.053	0.026	0.106	0.158	0.058	0.275	0.296	0.018	0.108	0.314	0.404	0.422	0.454	0.071	0.161	0.179	0.211	0.349	0.367	0.457	0.475	0.507
LTE B12/17	Left cheek	0.569	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.973	0.721	1.125	0.990	0.978	1.382	1.130	1.534	1.399
	Left tilted	0.063	0.044	0.191	0.171	0.064	0.504	0.515	0.041	0.157	0.556	0.672	0.713	0.706	0.104	0.220	0.261	0.254	0.578	0.619	0.735	0.776	0.769
	Right cheek	0.228	0.111	0.085	0.135	0.172	0.217	0.239	0.104	0.105	0.343	0.344	0.448	0.374	0.332	0.333	0.437	0.363	0.467	0.571	0.572	0.676	0.602
	Right tilted	0.048	0.026	0.106	0.158	0.058	0.275	0.296	0.019	0.125	0.315	0.421	0.440	0.454	0.067	0.173	0.192	0.206	0.344	0.363	0.469	0.488	0.502
n5	Left cheek	0.530	0.346	0.111	0.421	0.391	0.384	0.409	0.404	0.152	0.813	0.561	0.965	0.830	0.934	0.682	1.086	0.951	0.939	1.343	1.091	1.495	1.360
	Left tilted	0																					

Test position		SARmax (W/kg)								Summed SAR													
		Main Ant0	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)													
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7
LTE B42	Front side	0.078	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.140	0.125	0.187	0.231	0.384	0.446	0.431	0.493	0.537
	Back side	0.085	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.133	0.122	0.170	0.223	0.225	0.273	0.262	0.310	0.363
	Left side	0.087	-	-	-	-	-	-	-	-	-	-	-	-	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	-	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453
	Bottom side	0.059	-	-	-	-	-	-	-	-	-	-	-	-	-	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059
n77/78	Front side	0.094	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.156	0.141	0.203	0.247	0.400	0.462	0.447	0.509	0.553
	Back side	0.468	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.516	0.505	0.553	0.606	0.608	0.656	0.645	0.693	0.746
	Left side	0.155	-	-	-	-	-	-	-	-	-	-	-	-	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	-	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453
	Bottom side	0.125	-	-	-	-	-	-	-	-	-	-	-	-	-	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
Test position		SARmax (W/kg)								Summed SAR													
		Main Ant1	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)													
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7
LTE B66	Front side	0.315	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.377	0.362	0.424	0.468	0.621	0.683	0.668	0.730	0.774
	Back side	0.201	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.249	0.238	0.286	0.339	0.341	0.389	0.378	0.426	0.479
	Left side	0.145	-	-	-	-	-	-	-	-	-	-	-	-	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	-	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453
	Bottom side	0.203	-	-	-	-	-	-	-	-	-	-	-	-	-	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203
LTE B41	Front side	0.221	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.363	0.346	0.403	0.459	0.278	0.261	0.318	0.374	0.527	0.584	0.567	0.624	0.680
	Back side	0.092	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.185	0.172	0.217	0.278	0.137	0.124	0.169	0.230	0.232	0.277	0.264	0.309	0.370
	Left side	0.008	-	-	-	-	-	-	-	-	-	-	-	-	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.337	0.210	0.371	0.480	0.161	0.034	0.195	0.304	0.176	0.337	0.210	0.371	0.480
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.303	0.303	0.453	-	0.050	0.050	0.200	0.253	0.253	0.303	0.303	0.453
	Bottom side	0.378	-	-	-	-	-	-	-	-	-	-	-	-	-	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378
n41	Front side	0.406	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.468	0.453	0.515	0.559	0.712	0.774	0.759	0.821	0.865
	Back side	0.470	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.518	0.507	0.555	0.608	0.610	0.658	0.647	0.695	0.748
	Left side	0.115	-	-	-	-	-	-	-	-	-	-	-	-	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	-	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453
	Bottom side	0.774	-	-	-	-	-	-	-	-	-	-	-	-	-	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774
Test position		SARmax (W/kg)								Summed SAR													
		Main Ant2	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)													
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7
LTE B66	Front side	0.130	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.192	0.177	0.239	0.283	0.436	0.498	0.483	0.545	0.589
	Back side	0.130	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.178	0.167	0.215	0.268	0.270	0.318	0.307	0.355	0.408
	Left side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Right side	0.112	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.254	0.151	0.293	0.416	0.288	0.430	0.327	0.469	0.592
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	-	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453
	Bottom side	0.139	-	-	-	-	-	-	-	-	-	-	-	-	-	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139
LTE B41	Front side	0.460	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.522	0.507	0.569	0.613	0.766	0.828	0.813	0.875	0.919
	Back side	0.332	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.380	0.369	0.417	0.470	0.472	0.520	0.509	0.557	0.610
	Left side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Right side	0.308	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.450	0.347	0.489	0.612	0.484	0.626	0.523	0.665	0.788
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	-	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453
	Bottom side	0.600	-	-	-	-	-	-	-	-	-	-	-	-	-	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600
n41	Front side	0.959	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	1.021	1.006	1.068	1.112	1.265	1.327	1.312	1.374	1.418
	Back side	0.719	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.767	0.756	0.804	0.857	0.859	0.907	0.896	0.944	0.997
	Left side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Right side	0.715	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.857	0.754	0.896	1.019	0.891	1.033	0.930	1.072	1.195
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	-	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453
	Bottom side	0.674	-	-	-	-	-	-	-	-	-	-	-	-	-	0.674	0.674	0.674	0.674	0.674	0.674	0.674	0.674
n77/78	Front side	0.460	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.522	0.507	0.569	0.613	0.766	0.828	0.813	0.875	0.919

	Back side	0.085	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.133	0.122	0.170	0.223	0.225	0.273	0.262	0.310	0.363
	Left side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Right side	0.107	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.249	0.146	0.288	0.411	0.283	0.425	0.322	0.464	0.587
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	-	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453
	Bottom side	0.113	-	-	-	-	-	-	-	-	-	-	-	-	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113

Test position		SARmax (W/kg)									Summed SAR													
		Main Ant3	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)														
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7	
GSM850	Front side	0.174	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.236	0.221	0.283	0.327	0.480	0.542	0.527	0.589	0.633	
	Back side	0.137	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.185	0.174	0.222	0.275	0.277	0.325	0.314	0.362	0.415	
	Left side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Right side	0.306	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.448	0.345	0.487	0.610	0.482	0.624	0.521	0.663	0.786	
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	-	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WCDMA B5	Front side	0.212	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.274	0.259	0.321	0.365	0.518	0.580	0.565	0.627	0.671	
	Back side	0.163	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.211	0.200	0.248	0.301	0.303	0.351	0.340	0.388	0.441	
	Left side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Right side	0.421	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.563	0.460	0.602	0.725	0.597	0.739	0.636	0.778	0.901	
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	-	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE B26/5	Front side	0.186	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.248	0.233	0.295	0.339	0.492	0.554	0.539	0.601	0.645	
	Back side	0.159	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.207	0.196	0.244	0.297	0.299	0.347	0.336	0.384	0.437	
	Left side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Right side	0.420	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.562	0.459	0.601	0.724	0.596	0.738	0.635	0.777	0.900	
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	-	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE B12/17	Front side	0.569	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.631	0.616	0.678	0.722	0.875	0.937	0.922	0.984	1.028	
	Back side	0.505	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.553	0.542	0.590	0.643	0.645	0.693	0.682	0.730	0.783	
	Left side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Right side	0.821	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.963	0.860	1.002	1.125	0.997	1.139	1.036	1.178	1.301	
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	-	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n5	Front side	0.177	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.239	0.224	0.286	0.330	0.483	0.545	0.530	0.592	0.636	
	Back side	0.155	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.203	0.192	0.240	0.293	0.295	0.343	0.332	0.380	0.433	
	Left side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Right side	0.359	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.501	0.398	0.540	0.663	0.535	0.677	0.574	0.716	0.839	
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	-	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Test position		SARmax (W/kg)									Summed SAR													
		Main Ant7	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)														
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7	
LTE B42	Front side	0.065	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.127	0.112	0.174	0.218	0.371	0.433	0.418	0.480	0.524	
	Back side	0.042	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.090	0.079	0.127	0.180	0.182	0.230	0.219	0.267	0.320	
	Left side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Right side	0.025	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.167	0.064	0.206	0.329	0.201	0.343	0.240	0.382	0.505	
	Top side	0.074	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.303	0.303	0.453	0.074	0.124	0.124	0.274	0.327	0.327	0.377	0.377	0.527	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n77/78	Front side	0.265	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.327	0.312	0.374	0.418	0.571	0.633	0.618	0.680	0.724	
	Back side	0.145	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.193	0.182	0.230	0.283	0.285	0.333	0.322	0.370	0.423	
	Left side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Right side	0.107	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.249	0.146	0.288	0.411	0.283	0.425	0.322	0.464	0.587	
	Top side	0.130	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.130	0.188	0.188	0.330	0.383	0.383	0.441	0.441	0.583	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Test position		SARmax (W/kg)									Summed SAR													
		Main Ant8	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)														
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7	
GSM1900	Front side	0.055	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.117	0.102	0.164	0.208	0.361	0.423	0.408	0.470	0.514	
	Back side	0.052	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.100	0.089	0.137	0.190	0.192	0.240	0.229	0.277	0.330	
	Left side	0.012	-	-	-	-	-	-	-	-	-	-	-	-	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480	
	Top side	0.130	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.130	0.188	0.188	0.330	0.383	0.383	0.441	0.441	0.583	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WCDMA B2	Front side	0.101	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.163	0.148	0.210	0.254	0.407	0.469	0.454	0.516	0.560	
	Back side	0.105	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.153	0.142	0.190	0.243	0.245	0.293	0.282	0.330	0.383	
	Left side	0.062	-	-	-	-	-	-	-	-	-	-	-	-	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480	
	Top side	0.222	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.222	0.280	0.280	0.422	0.475	0.475	0.533	0.533	0.675	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WCDMA B4	Front side	0.095	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.157	0.142	0.204	0.248	0.401	0.463	0.448	0.510	0.554	
	Back side	0.082	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.130	0.119	0.167	0.220	0.222	0.270	0.259	0.307	0.360	
	Left side	0.011	-	-	-	-	-	-	-	-	-	-	-	-	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480	
	Top side	0.163	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.163	0.221	0.221	0.363	0.416	0.416	0.474	0.474	0.616	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE B25/2	Front side	0.116	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.178	0.163	0.225	0.269	0.422	0.484	0.469	0.531	0.575	
	Back side	0.107	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.155	0.144	0.192	0.245	0.247	0.295	0.284	0.332	0.385	
	Left side	0.074	-	-	-	-	-	-	-	-	-	-	-	-	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074	
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480	
	Top side	0.223	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.223	0.281	0.281	0.423	0.476	0.476	0.534	0.534	0.676	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE B66/4	Front side	0.076	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.138	0.123	0.185	0.229	0.382	0.444	0.429	0.491	0.535	
	Back side	0.073	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.121	0.110	0.158	0.211	0.213	0.261	0.250	0.298	0.351	
	Left side	0.008	-	-	-	-	-	-	-	-	-	-	-	-	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480	
	Top side	0.159	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.159	0.217	0.217	0.359	0.412	0.412	0.470	0.470	0.612	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE B7	Front side	0.153	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.215	0.200	0.262	0.306	0.459	0.521	0.506	0.568	0.612	
	Back side	0.107	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.155	0.144	0.192	0.245	0.247	0.295	0.284	0.332	0.385	
	Left side	0.017	-	-	-	-	-	-	-	-	-	-	-	-	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480	
	Top side	0.259	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.259	0.317	0.317	0.459	0.512	0.512	0.570	0.570	0.712	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE B41/38	Front side	0.122	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.184	0.169	0.231	0.275	0.428	0.490	0.475	0.537	0.581	
	Back side	0.094	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.142	0.131	0.179	0.232	0.234	0.282	0.271	0.319	0.372	
	Left side	0.063	-	-	-	-	-	-	-	-	-	-	-	-	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480	
	Top side	0.254	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.254	0.312	0.312	0.454	0.507	0.507	0.565	0.565	0.707	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n7	Front side	0.148	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.210	0.195	0.257	0.301	0.454	0.516	0.501	0.563	0.607	
	Back side	0.110	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.158	0.147	0.195	0.248	0.250	0.298	0.287	0.335	0.388	
	Left side	0.012	-	-	-	-	-	-	-	-	-	-	-	-	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480	
	Top side	0.184	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.184	0.242	0.242	0.384	0.437	0.437	0.495	0.495	0.637	
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n25/2	Front side	0.113	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.175	0.160	0.222	0.266	0.419	0.481	0.466	0.528	0.572	
	Back side	0.097	0.138	0.074	0.118	0.																		

	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.210	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.210	0.268	0.268	0.410	0.463	0.463	0.521	0.521	0.663
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n66	Front side	0.109	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.171	0.156	0.218	0.262	0.415	0.477	0.462	0.524	0.568
	Back side	0.081	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.129	0.118	0.166	0.219	0.221	0.269	0.258	0.306	0.359
	Left side	0.011	-	-	-	-	-	-	-	-	-	-	-	-	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.142	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.142	0.200	0.200	0.342	0.395	0.395	0.453	0.453	0.595
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Test position		SARmax (W/kg)									Summed SAR												
		Main Ant9	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)													
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7
LTE B42	Front side	0.348	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.410	0.395	0.457	0.501	0.654	0.716	0.701	0.763	0.807
	Back side	0.167	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.215	0.204	0.252	0.305	0.307	0.355	0.344	0.392	0.445
	Left side	0.512	-	-	-	-	-	-	-	-	-	-	-	-	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512	0.512
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.393	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.393	0.451	0.451	0.593	0.646	0.646	0.704	0.704	0.846
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n77/78	Front side	0.260	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.322	0.307	0.369	0.413	0.566	0.628	0.613	0.675	0.719
	Back side	0.108	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.156	0.145	0.193	0.246	0.248	0.296	0.285	0.333	0.386
	Left side	0.342	-	-	-	-	-	-	-	-	-	-	-	-	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.245	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.245	0.303	0.303	0.445	0.498	0.498	0.556	0.556	0.698
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Test position		SARmax (W/kg)									Summed SAR												
		Main Ant10	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)													
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7
GSM1900	Front side	0.221	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.283	0.268	0.330	0.374	0.527	0.589	0.574	0.636	0.680
	Back side	0.282	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.330	0.319	0.367	0.420	0.422	0.470	0.459	0.507	0.560
	Left side	0.547	-	-	-	-	-	-	-	-	-	-	-	-	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.068	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.068	0.126	0.126	0.268	0.321	0.321	0.379	0.379	0.521
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WCDMA B2	Front side	0.269	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.331	0.316	0.378	0.422	0.575	0.637	0.622	0.684	0.728
	Back side	0.257	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.305	0.294	0.342	0.395	0.397	0.445	0.434	0.482	0.535
	Left side	0.521	-	-	-	-	-	-	-	-	-	-	-	-	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.081	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.081	0.139	0.139	0.281	0.334	0.334	0.392	0.392	0.534
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WCDMA B4	Front side	0.268	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.330	0.315	0.377	0.421	0.574	0.636	0.621	0.683	0.727
	Back side	0.261	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.309	0.298	0.346	0.399	0.401	0.449	0.438	0.486	0.539
	Left side	0.467	-	-	-	-	-	-	-	-	-	-	-	-	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467
	Right side	0.000	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.077	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.077	0.135	0.135	0.277	0.330	0.330	0.388	0.388	0.530
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE B25/2	Front side	0.235	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.297	0.282	0.344	0.388	0.541	0.603	0.588	0.650	0.694
	Back side	0.206	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.254	0.243	0.291	0.344	0.346	0.394	0.383	0.431	0.484
	Left side	0.461	-	-	-	-	-	-	-	-	-	-	-	-	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.073	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.073	0.131	0.131	0.273	0.326	0.326	0.384	0.384	0.526
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE B66/4	Front side	0.274	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.336	0.321	0.383	0.427	0.580	0.642	0.627	0.689	0.733
	Back side	0.262	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.310	0.299	0.347	0.400	0.402	0.450	0.439	0.487	0.540
	Left side	0.451	-	-	-	-	-	-	-	-	-	-	-	-	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451	0.451
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.		

	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.024	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.024	0.082	0.082	0.224	0.277	0.277	0.335	0.335	0.477
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE B41/38	Front side	0.078	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.140	0.125	0.187	0.231	0.384	0.446	0.431	0.493	0.537
	Back side	0.070	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.118	0.107	0.155	0.208	0.210	0.258	0.247	0.295	0.348
	Left side	0.073	-	-	-	-	-	-	-	-	-	-	-	-	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.082	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.082	0.140	0.140	0.282	0.335	0.335	0.393	0.393	0.535
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n7	Front side	0.133	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.195	0.180	0.242	0.286	0.439	0.501	0.486	0.548	0.592
	Back side	0.129	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.177	0.166	0.214	0.267	0.269	0.317	0.306	0.354	0.407
	Left side	0.123	-	-	-	-	-	-	-	-	-	-	-	-	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.011	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.011	0.069	0.069	0.211	0.264	0.264	0.322	0.322	0.464
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n25/2	Front side	0.187	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.249	0.234	0.296	0.340	0.493	0.555	0.540	0.602	0.646
	Back side	0.181	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.229	0.218	0.266	0.319	0.321	0.369	0.358	0.406	0.459
	Left side	0.442	-	-	-	-	-	-	-	-	-	-	-	-	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442	0.442
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.074	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.074	0.132	0.132	0.274	0.327	0.327	0.385	0.385	0.527
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n41/38	Front side	0.128	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.190	0.175	0.237	0.281	0.434	0.496	0.481	0.543	0.587
	Back side	0.101	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.149	0.138	0.186	0.239	0.241	0.289	0.278	0.326	0.379
	Left side	0.243	-	-	-	-	-	-	-	-	-	-	-	-	0.243	0.243	0.243	0.243	0.243	0.243	0.243	0.243	0.243
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.013	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.013	0.071	0.071	0.213	0.266	0.266	0.324	0.324	0.466
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n66	Front side	0.278	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.340	0.325	0.387	0.431	0.584	0.646	0.631	0.693	0.737
	Back side	0.327	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.375	0.364	0.412	0.465	0.467	0.515	0.504	0.552	0.605
	Left side	0.423	-	-	-	-	-	-	-	-	-	-	-	-	0.423	0.423	0.423	0.423	0.423	0.423	0.423	0.423	0.423
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	0.071	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.071	0.129	0.129	0.271	0.324	0.324	0.382	0.382	0.524
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Test position		SARmax (W/kg)									Summed SAR												
		Main Ant11	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)													
		1	2	3	4	5	6	7	8	9	5/6/7+8	5/6/7+9	5/6/7+8+9	2/3/4+5/6/7	1+8	1+9	1+8+9	1+2/3/4	1+5/6/7	1+5/6/7+8	1+5/6/7+9	1+5/6/7+8+9	1+2/3/4+5/6/7
GSM850	Front side	0.322	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.384	0.369	0.431	0.475	0.628	0.690	0.675	0.737	0.781
	Back side	0.279	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.327	0.316	0.364	0.417	0.419	0.467	0.456	0.504	0.557
	Left side	0.721	-	-	-	-	-	-	-	-	-	-	-	-	0.721	0.721	0.721	0.721	0.721	0.721	0.721	0.721	0.721
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.000	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WCDMA B5	Front side	0.534	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.596	0.581	0.643	0.687	0.840	0.902	0.887	0.949	0.993
	Back side	0.468	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.516	0.505	0.553	0.606	0.608	0.656	0.645	0.693	0.746
	Left side	0.690	-	-	-	-	-	-	-	-	-	-	-	-	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.000	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LTE B26/5	Front side	0.509	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.571	0.556	0.618	0.662	0.815	0.877	0.862	0.924	0.968
	Back side	0.476	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.524	0.513	0.561	0.614	0.616	0.664	0.653	0.701	0.754
	Left side	1.036	-	-	-	-	-	-	-	-	-	-	-	-	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311											

n5	Front side	0.427	0.153	0.086	0.100	0.212	0.306	0.270	0.062	0.047	0.368	0.353	0.415	0.459	0.489	0.474	0.536	0.580	0.733	0.795	0.780	0.842	0.886
	Back side	0.360	0.138	0.074	0.118	0.140	0.072	0.137	0.048	0.037	0.188	0.177	0.225	0.278	0.408	0.397	0.445	0.498	0.500	0.548	0.537	0.585	0.638
	Left side	0.708	-	-	-	-	-	-	-	-	-	-	-	-	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.708
	Right side	-	0.281	0.067	0.304	0.126	0.096	0.176	0.142	0.039	0.318	0.215	0.357	0.480	0.142	0.039	0.181	0.304	0.176	0.318	0.215	0.357	0.480
	Top side	-	-	0.200	0.065	-	0.223	0.253	-	0.058	0.253	0.311	0.311	0.453	0.000	0.058	0.058	0.200	0.253	0.253	0.311	0.311	0.453
	Bottom side	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Product specific (10g) 0mm:

Test position		SARmax (W/kg)									Summed SAR													
		Main Ant11	WiFi 2.4G (Ant4)	WiFi 2.4G (Ant6)	WiFi 2.4G (MIMO)	WiFi 5G (Ant4)	WiFi 5G (Ant7)	WiFi 5G (MIMO)	BT (Ant4)	BT (Ant6)														NFC
		1	2	3	4	5	6	7	8	9	10	5/6/7+8+10	5/6/7+9+10	5/6/7+8+9+10	2/3/4+5/6/7+10	1+8+10	1+9+10	1+8+9+10	1+2/3/4+10	1+5/6/7+10	1+5/6/7+8+10	1+5/6/7+9+10	1+5/6/7+8+9+10	1+2/3/4+5/6/7+10
WWAN	Front side	-	-	-	-	0.364	0.656	0.618	-	-	0.000	0.656	0.656	0.656	0.656	0.000	0.000	0.000	0.000	0.656	0.656	0.656	0.656	0.656
	Back side	-	-	-	-	0.142	0.083	0.170	-	-	0.008	0.178	0.178	0.178	0.178	0.008	0.008	0.008	0.008	0.178	0.178	0.178	0.178	0.178
	Left side	-	-	-	-	-	-	-	-	-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	-	-	-	-	0.233	0.149	0.246	-	-	0.000	0.246	0.246	0.246	0.246	0.000	0.000	0.000	0.000	0.246	0.246	0.246	0.246	0.246
	Top side	-	-	-	-	-	0.603	0.554	-	-	0.001	0.604	0.604	0.604	0.604	0.001	0.001	0.001	0.001	0.604	0.604	0.604	0.604	0.604
	Bottom side	-	-	-	-	-	-	-	-	-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

17 Measurement Uncertainty

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

18 Calibration Certificate

Please see the Appendix C

19 Test Setup Photos

Please see the Appendix D

Appendix A: System Check Plots

Appendix B: SAR Test Plots

Appendix C: Calibration certificate

Appendix D: Test Setup Photos

Appendix E: Conducted RF Output Power

--- The End ---
